

# Improving Sustainable Performance of SMEs

The Dynamic Interplay of Morality and Management Systems

Jörg F. W. Bürgi

Integrated management | Dynamic system Small and medium size enterprises | Improve Sustainable performance | Morality Standard | risk | Comprehensive measuring Experts | Business ethics



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# GLOSSARY

Basel II, III	Second and third of the Basel Accords (inter- national recommendations on banking laws and regulations)
Business Ethics	Ethical orientation in the domain of the eco- nomic development and business develop- ment, including commercial activities and services of all actors from state sector, private sector to consumers
Capability	Ability of an organization system or process to realize a product / service that will fulfil the requirements for that product / service
Communitarianism	Philosophy emphasising the connection be- tween the individual and the community
Conventionalism	Philosophy grounding fundamental principles on (explicit or implicit) agreements
Contractarianism	Moral theory concerning the content of moral norms
Constructionism	Philosophy seeing things and the world with human eyes
Corporate culture	Organisation's unique body of knowledge, nurtured over a long period of time resulting in commonly held assumptions, values, norms, paradigms and world views
Cosmopolitanism	Philosophy saying that all belong to a single community based on a shared morality
Critical rationalism	Assumption that there is no absolutely as- sured fundament of knowledge
Critical theory	Examination and critique of society aiming emancipatory effects

CSR	Corporate Social Responsibility – focus on impacts of corporations on stakeholders			
Determinism	View saying that all events, including human action, are ultimately determined by causes regarded as external to the will. Radical de- terminism: human beings have no free will and cannot be held morally responsible for their actions.			
Economism	Economics as the main factor in society, ig- noring or reducing to simplistic economic terms other factors such as culture, nationality			
Environment	Common use: the physical surroundings, including air, water, land, plants and wildlife			
	This research: 'physical environment' as a subsystem of 'environment' (everything surrounding the 'system')			
Epistemology	Branch of philosophy concerned with the nature and scope (limitations) of knowledge			
Ethnography	Research methodology often used in social sciences, originally part of historical science studying people, ethnic groups and other eth- nic formations			
Ethics	Philosophical reflection of morality and ap- plication of reason to elucidate specific rules and principles – basing decisions and actions in all domains of private and public life			
Globethics.net	A network of institutions and individuals involved in applied ethics headquartered in Geneva, Switzerland – founded in 2004 by the ethicist Prof. Dr. Christoph Stückelberger			
	Main activities: Online library: with more than 1.000.000 titles – Global Ethics Forum GEF: common reflection of ethical issues, seeking for practical solutions – Offering ser- vices – Implementation of research with work groups via Internet (as «SME, ethics and sus- tainability»)			

Idealism	Belief in pursuance of ideals			
Ideogram	Graphic symbol that represents an idea or concept			
Idiographic approach	Research method relating to more singular cases (e.g. case studies)			
ISO	(International Organization for Standardiza- tion – Geneva – www.iso.org): Global net- work identifying what International Standards are required by business, government and so- ciety, developing and delivering them to be implemented worldwide			
Libertarianism	Philosophy emphasising freedom, liberty, and voluntary association			
Management	Responsibility for and control of the resources of a company, department, or other organiza- tion			
Management system	Informally or formally grown elements of a company to guarantee and optimise activities over the long term			
Metaphor	Figure of speech constructing an analogy between two terms			
Mission	The description of why the organization exists			
Model	Generic term that emphasising the abstraction from reality involved rather than the specific purpose for which the abstraction is made			
Modernity	Historical period following the Middle Ages (loosely identified with the Progressive Era)			
Morality	Concerned with norms, values, and beliefs embedded in social processes which define right and wrong for an individual or a com- munity			
Nominalism	Philosophy rejecting universals or abstract objects – only particular things exist.			

Nomology	Branch of science and philosophy concerned with the laws or principles governing the op- eration of the mind		
Nomothetic measures Measures that are observed on a relatively large sample and have a more general outlook			
OECD	Organisation for Economic Co-operation and Development OECD, joining governments of countries committed to democracy and the market economy		
Philanthropy	Private initiatives for public good		
Pre-modernity	Period in Western civilization that came after Ancient history and before Modernity		
Positivism	Philosophical system recognising only that which can be scientifically verified or which is capable of logical or mathematical proof		
Post-modernity	Economic and/or cultural state or condition of society which is said to exist after Modernity (end of 20 <sup>th</sup> century – loosely identified with post-industrial, Information Age)		
Quality	Derived from the Latin 'qualitas', translated by 'fine, beautiful, noble, admirable, excel- lent' (Sower 2005).		
	Degree to which a set of inherent characteris- tics fulfils requirements (ISO 9000:2005)		
	Market context: number of meanings such as a fulfilment of expectations, product/service excellence, position and fitness for purpose and management excellence (Petrick 2002).		
	Activities correlating with the purpose of providing good value to customers (Stimson 2005a) and interested parties or stakeholders.		
Reformism	Belief that gradual democratic changes can ultimately change a society's fundamental economic relations and political structures		
SME	Small and Medium sized Enterpris- es/Companies – according to the European		

	definition companies having less than 250 employees			
Standard	Document, established by consensus and approved by a recognised body that provides, for common and repeated use, rules, guide- lines or characteristics for activities or their results			
Standardised managemen	nt system			
	Standardised and recognised requirements or guidelines aiming to optimise companies' at- titudes, behaviours and outputs			
Stakeholder	Individual or group that has an interest in any decision or activity of an organization			
Survey	Systematic collection and analysis of data relating to the attitudes, living conditions, opinions, etc., of a population, etc. taken from a representative sample of the latter			
Sustainability	A state of the planetary ecosystem, of which human beings and the man-made systems are a functional part, where non-living and living nature, biological species, and humanity co- exist in mutually beneficial interdependency and balance that can be sustained in a long- term			
Sustainability Sustainable development	human beings and the man-made systems are a functional part, where non-living and living nature, biological species, and humanity co- exist in mutually beneficial interdependency and balance that can be sustained in a long- term			
	human beings and the man-made systems are a functional part, where non-living and living nature, biological species, and humanity co- exist in mutually beneficial interdependency and balance that can be sustained in a long- term			

System	Group, set, or aggregate of things, natural or artificial, forming a connected or complex whole
	Concepts and other constructs helping to describe and understand the complex realities of real-world situations
System thinking	Process of understanding how things influ- ence one another within a whole (four most common research approaches to management: functionalist, interpretive, emancipatory, and postmodern system thinking)
TQM	Total Quality Management – sustainable truly integrated management system satisfying cus- tomer focus, process improvement and total involvement of all stakeholders
Universalism	Religious, theological, and philosophical concepts with universal application or applicability
Utopia	State of perfection which can never be totally achieved (e.g. Kingdom of God, communism)
Value	Something being important for an individual or group, often without defining whether it is morally or ethically 'good' or 'bad'.
Venn diagram	(or set diagram): Diagram that shows all pos- sible logical relations between a finite collec- tion of sets
Vision	Description of desired state, i.e. what the organization wants to be and how it wants to be seen by its interested parties
Voluntarism	View saying that the human will is a funda- mental or dominant factor in the individual or the universe <sup>1</sup>

The definitions are mainly adapted versions of specifications of literature, ISO standards, Oxford English Dictionary, Wikipedia, Stanford Encyclopaedia of Philosophy, and Encyclopaedia Britannica.

# **ABBREVIATIONS**

BE	Business Ethics			
BSC	Balanced Scorecard			
CSH	Critical System Heuristics			
CSP	Corporate Social Performance			
CSR	Corporate Social Responsibility			
EFQM	European Foundation of Quality Management			
EFQM Model	European TQM model			
e.g.	For example			
EMS	Environmental Management Systems			
etc.	Ed cetera			
GEF	Global Ethics Forum, Geneva			
GRI	Global Reporting Initiative			
i.e.	id est			
ISO	International Organization for Standardization			
ISO 9001	Quality management system – edited by ISO			
ISO 14001	Environmental management system – edited by ISO			
LSE	Large Scale Enterprises			
MBQNA	Malcolm Baldrige Quality National Award – US TQM model			
MNCs	Multi-National-Companies			
OECD	Organisation for Economic Co-operation and Development OECD			
OHS	Occupational Health and Safety			
Q I, Q II, Q III	Different levels of the Quality Program of Swiss Tourism Association			
QMS	Quality Management System			

R&D	Research and Development		
SME	Small and Medium Sized Enterprises / Companies		
SMOs	Small and Medium Sized Organisations		
SSM	Soft System Methodology		
SR	Social Responsibility		
TNC	The TNC Group was established in 1973 to support and assist all organisations and busi- nesses that extend credit.		
TQM	Total Quality Management		

### PREFACE

The long-term engagement with Small and Medium Sized Enterprises SMEs and management systems has given me the impulse for an intensive insight into the issues by a research project – applying my education (Theology / Philosophy, Sociology, Management Engineering) and experience (consultant, lecturer, and auditor). I presented the results of this research within my PhD-thesis being approved by the Open University, GB Milton Keynes, in June 2012. Thanks to the interviewed companies for their inputs, my supervisors and examiners for their amendments! A special thank belongs to my family; they had often been short during this decade of research which was characterised in addition by my fulltime employment.

The Global Ethics Forum GEF of 2011 in Geneva listed a number of recommendations concerning SMEs and Ethics to be discussed in future meetings. For Forum of 2012, I got the chance to organise an interview round with managers of SMEs. This interview round gained an immense echo: A new GEF workgroup on SMEs and CSR was established as an outcome of the GEF 2012 case session. The work group started its activities just after the GEF within a core group which I had the chance to moderate. In early 2013 the core group decided to concentrate on trainings concerning 'SMEs, Ethics and Sustainability'. I could perform two pilot trainings in autumn 2013 (Switzerland and Kenya); a third pilot was operated by other members of the core group in connection with the GEF 2014 of January in Bangalore, India. Since then the core group has been preparing the further activities of the project – becoming

part of the Globethics Leadership Centre being launched in autumn 2014.

In May 2014 I have started – together with already 26 partners from 13 countries (5 from the North, 8 from the South) – a research project 'Sustainable implementation of ethic positioned management systems in SMEs and co-operatives' basing on at least 150 detailed case studies. The project will surely last until end of 2016 and finish by open supporting seminars for participating companies in their geographical regions as well as academic and practical publications in several languages.

I express my gratitude to Globethics.net Founder and Director, Prof. Dr. Chr. Stückelberger, giving me the chance for publication. The actualised and optimised version may support further activities concerning 'SMEs, ethics, sustainability and management systems'.

For publication Literature Review (chapter 2) and Conclusions (chapter 5) have been actualised; the other chapters (Introduction, Methodology and Findings) were minimally adapted.

Jörg Bürgi

November 2014

1

### **INTRODUCTION**

Small and medium sized enterprises / companies (hereafter referred to as SMEs) are essential players in world-wide society and economy. For years I have been often confronted with problems of SMEs – as beneficiary of their products and services, consultant, researcher, auditor of management systems, and lecturer; in 2008 I founded an own limited micro SME concentrating on sustainable provision of SMEs<sup>2</sup>. Basing on my suggestions, Globethics.net has launched a world-wide training project in 2012 supporting SMEs on their way to implement integrated and sustainable management systems<sup>3</sup>.

In this thesis, I design a model to characterise SMEs and provide for their sustainable performance – in the overall context of physical environment, society, economy and business. I design the model using system thinking to cope with the complexity of the interplay of these elements. Thereby I fill a gap my research has found in the literature characterising and describing SMEs by concentrating on what I have discovered to be the guiding elements of and within these companies, especially on the influence of their morality<sup>4</sup> and (standardised) management systems. The discussion of these guiding elements demonstrates the need for a model showing the dynamic of and within an SME providing performance and a corresponding measurement tool. The model and the

<sup>&</sup>lt;sup>2</sup> KMU nachhaltig GmbH = SME sustainable Ltd.

<sup>&</sup>lt;sup>3</sup> Details see, 5.2.3, p. 311f

<sup>&</sup>lt;sup>4</sup> The definition of morality' applied in this thesis see: 1.2.3 Morality and ethics – morality and SMEs, p. 34, and especially 2.4 Morality of and within SMEs, p. 81ff.

tool allow detecting ways to increase the integration of people and stakeholders as well as continuous improvement.

The model and measurement tool were tested by a longitudinal survey of 27 SMEs in Germany and Switzerland. Due to the quite long period of the research and the survey, the methodology has been continually developed and adapted. A specific amendment was initiated for this actualised version by my activities within Globethics.net as a moderator of the project "SMEs, Ethics and Sustainability".

This Introductory chapter gives an outline of the research and formulates the research questions.

### **1.1 Background to the research**

Most economies are characterised by a huge number of SMEs (e.g. Jeppesen et al. 2012, Fueglistaller 2-2002). In Europe they represent over 98 percent of companies, employ about two thirds of workforce, and generate a large share of new jobs (de Kok et al. 2013, OECD 2010a, 2005, 2004, 2000). SMEs are important economic and social organisms. However, their individual market share is relatively small compared with large companies, and their options are limited because of restricted resources. These features may explain why the economic and social importance of SMEs has not been explored to the same extent as large companies.

Like every organisation within the economy, SMEs share various objectives (Brändle 2009). These include making money, fulfilling the aims of individuals (financially, motivation, networking), providing employment, and discharging responsibility towards society and physical environment. Their size and manageable relations, in comparison to larger organisations, may give SMEs more transparent ways of decision making which allow them to behave more flexibly in changing market demands. Questions to be answered include how SMEs manage to achieve the objectives mentioned above, and how they are steered within a changing environment. They will be examined in terms of elements such as leadership; culture, traditions; economic, social, physical environment; size; industry; use of (standardised) management systems; moral attitudes and behaviours of companies and people. Because many SMEs are ownermanaged companies, their style of leadership may have specific characteristics. As the literature rarely distinguishes between steering of SMEs and entrepreneurial behaviour, this issue must also be examined.

I tried to answer this palette of questions on the background of my considerable experience with SMEs since the late eighties of the past century through consulting, research, auditing of management systems, and especially through benefiting from their products and services. Through my permanent discourse with ethics, morality and sustainability – starting with the education in theology in the seventies – I developed additionally an increasing interest in Corporate Social Responsibility CSR, business ethics BE and sustainability. For several years, I have been an active member of three mirror committees of the Swiss Standard association – NK 140 for quality management, NK 174 for environmental management, and NK 197 for social responsibility.

The interaction of my education and experiences challenges me to design research questions which combine three elements, 'SMEs', 'morality / sustainability' 'management systems' and to discuss them within their common environment of a particular SME. This allows filling a gap in the literature by developing a model enabling SMEs to improve their sustainability.

The model explaining the relation and dynamic interplay of management systems and morality within the environment of an SME presents a method answering the research questions. Elements of system thinking sustain this development. The effectiveness of the model is examined by a corresponding measurement tool highlighting the performance of applying it to SMEs.

### 1.2 Main subjects reflected in the thesis

In this Introduction I identify a number of issues which help progress through the thesis and formulation of research questions. I define SMEs and their position in society and economy, reflect the distinction between 'systems', 'models' and 'management systems and their use and the influence of 'moral' and 'morality'.

### 1.2.1 Defining SMEs – position of SMEs in society and economy

Defining SMEs and the distinction between SME and entrepreneurship are needed before describing the position of SMEs in society and economy.

The size of a company can be defined in many ways, such as by the value of its annual sales or shipments, its annual gross or net revenue, the size of its assets or the number of its employees, by the ownership, or by the regional expansion etc.

Organisation for Economic Co-operation and Development (OECD 2000) defines SMEs

"as non-subsidiary, independent firms which employ fewer than a given number of employees" (2).

My thesis follows the European Commission's definition by only concentrating on the headcount (European Commission 2003/361). A micro company has less than ten employees, a small company less than fifty and a medium company less than two hundred and fifty (with head-count, annual turnover or balance sheet total – see Table 1.1). The Euro-

pean definition is nearly congruent with the UNIDO definition (see Dababneh and Tukan 2007:7)<sup>5</sup>.

I do not use additional criteria of the Commission, turnover or balance sheet, because they differ between industries, and private companies are often restrictive in publishing their financial data.

In contrast to the definitions of OECD and the European Commission, my research also discusses subsidiaries as SMEs. I have included subsidiaries as, in my experience, I am familiar with a number of companies which are subsidiaries or part of a holding but act in an autonomous way in strategy, market orientation, decisions and finance.

Enterprise category	Headcount	Turnover	or		Balance sheet total
Medium- sized	< 250	$\leq \in$ 50 million		$\leq \in 43$ million	
Small	< 50	$\leq \in 10$ million		$\leq \in 10$ million	
Micro	< 10	$\leq \in 2$ million			ion

*Table 1.1: Definition of SMEs according to the European Commission (European Commission in 2003/361/EU)* 

Literature and research rarely distinguish between SMEs, entrepreneurship and owner-managed companies. SMEs are defined by their number of employees and / or by the extent of their turnover without specifying activities. European Communities (2003b) describe 'entrepreneurship' as

"... the mindset and process to create and develop economic activity by blending risk-taking, creativity and/or innovation with sound management, within a new or an existing organization" (6) and use this definition to include large companies.

<sup>&</sup>lt;sup>5</sup> In the former European Commission's definition of 1996 'Turnover' and 'Balance sheet total' were smaller; their size has been enlarged because of inflation and increased productivity. The UNIDO SME definition and definitions in other regions or countries see Annex 6.6, p. 486f.

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Entrepreneurship is considered as key to economic performance, in particular with respect to innovative change, playing an important structural and dynamic role in all economies (de Kok et al. 2013, OECD 2010a, 2005, 2004). Encouraging entrepreneurship is increasingly recognised by governments as an effective means of creating jobs, increasing productivity and competitiveness; and alleviating poverty and while achieving societal goals by assisting specific population groups.

Unlike in Europe, U.S. research often distinguishes small business and entrepreneurship: For the Americans Baucus and Cochran (2010) many SME owners are not entrepreneurs. They want to keep their company size, because expansion would require more supervision of employees. Their organisation would become more complex, forcing systems and procedures to effectively manage the operations – possibly accompanied by reduced flexibility and autonomy. This distinction are comparable to Duchrow's (2006) (Marxian) definitions of 'properties for use' (Gebrauchseigentum), aiming self-supply (including the needed investment goods), and 'properties for exchange / business' (Tauscheigentum), assisting markets and growth. SMEs would rather correlate with 'Gebrauchseigentum' and entrepreneurs with 'Tauscheigentum'.

SMEs are generally seen as the main motor of economic development regarding activities all over the world (European Communities 2003a). They are a fundamental pillar of world-wide welfare with indirect impact through taxation of their profits and wages, et cetera. In most countries they include more than 90% of all companies and employ more than half of the employees (statistics see: Fueglistaller 2012, 2011, 2007, OECD 2010a, 2005).

The majority of SMEs are located in a specific neighbourhood and cannot move their activities as easily as large internationally operating companies. This often favours a firm's moral responsibility towards stakeholders such as employees, their families, the neighbourhood and the local community as well as the physical environment (see Baumann et al. 2013, Jeppesen et al. 2012, Sneep 2007, Laeis 2005). Because of their size and manageable relations SMEs may have in comparison to larger organisations more transparent ways of decision making which allow them to behave more flexibly (Brändle 2009, OECD 2005).

In OECD countries, most SME jobs are in the service sector; this sector accounts for two thirds of economic activity and employment (de Kok et al. 2013, OECD 2010a 2005, 2000). They also account for a high percentage of manufacturing firms in many OECD countries and provide at least half of OECD manufacturing employment. This distribution in countries under development may be totally different considering the great number of peasants (three quarter of population lives on country-side); most of them are family farmers. However there are no statistics concerning numbers of peasants.

### 1.2.2 Systems, models and management systems

As a basic methodology I employ system thinking approaches and differentiate between 'systems', 'models' and 'management systems'. Systems' thinking distinguishes between 'thinking about systems' and 'systems thinking' as well as 'systems as representing real world entities' and 'systems as learning devices to inquire into real world entities' (details see 2.2, p. 48ff). A 'model' on the other hand is a generic term that emphasizes the abstraction from reality involved.

Because I got to know SMEs which have no formal policy, written objectives or specified procedures, I define 'management systems' as informally or formally grown elements of a company with the aim to guarantee and optimise long-term activities.

Management systems are (often internationally) standardised and recognised requirements or guidelines aiming to optimise companies' attitudes, behaviours and outputs<sup>6</sup>. Through literature review, research

<sup>&</sup>lt;sup>6</sup> Comprehensive standardised Total Quality Management (TQM) systems are often called 'models' as the European EFQM (European Foundation of Quality

and especially in the course of personal experience, I identified gaps between contents, requirements and use of standardised management systems as ISO 9001 (ISO 2008) for quality and ISO 14001 (ISO 2004a) for 'physical' environment issues. It has to be investigated why users often only concentrate on shop floor processes and activities as well as on reliability. Standardised management systems contain, at least implicitly, moral aspects which often are not known or at least not implemented. There is also little knowledge about use and implementation of standardised management systems and especially of their effects on morality in SMEs. I have identified and attempted to highlight and discuss these gaps with this research.

### 1.2.3 Morality and ethics – morality and SMEs

Morality and ethics take an important place as guiding elements of and within companies. An increasing number of organisations worldwide are intensifying their social and environmental awareness and advocacy efforts, but up to now there is no unifying definition of ethics and business (Sanders 2008). And in daily use and also in research, morality and ethics often are not differentiated.

In my research I focus on 'moral' or 'morality' in connection with companies. Companies are communities which define ongoing rights, duties and behavioural norms, values and beliefs in their social processes. These issues are rarely defined and philosophically reflected in SMEs, so the broad use of 'ethics' may not be appropriate.

Corporate Social Responsibility CSR has become the mainstream expression for moral activities of companies. That is why supporting guidelines have been developed which have been brought together in a world-wide accepted ISO Standard ISO 26000 'Guidance on Social Responsibility', published end 2010. In my opinion the definition in ISO

Management) or the U.S. MBNQA (Malcolm Baldrige National Quality Award).

26000 (details see 2.4.3, p. 95f) is comprehensive and integrates human and physical environments as well as all stakeholders and internal elements of organisations. It thereby corresponds with the requirements of the SME model of my research which demonstrates the influence of morality, (standardised) management systems and environment on the sustainable performance of SMEs.

At least, since the Bruntland Commission in 1987 has developed the concept of sustainability (details see 2.6.3, p. 139), the long term vision of moral attitudes and behaviours is on the rise. Sustainable development is characterized by economic growth based on social justice and sustainability in the use of natural resources.

### 1.3 Justification of the research

In this thesis I aim to enlarge knowledge concerning a palette of effects on attitudes and behaviours of SMEs, their owners, culture and tradition, management and staff. I will do so by specially observing moral attitudes and behaviours, (standardised) management systems, differences between companies (size, industry, ownership, and country) as well as interrelated effects on and affects of the environment – and their influences on the sustainable performance of SMEs.

Hardly any surveys<sup>7</sup> simultaneously integrate staff from different departments and hierarchical levels of companies and measure chronological changes by longitudinal surveys, especially surveys of SMEs.

The review of academic journals and of conferences programs showed that there is substantial public knowledge concerning the three individual sciences yet relatively small public knowledge concerning interactions of the individual issues ('SMEs', 'business ethics / sustainability' and 'management systems').

<sup>&</sup>lt;sup>7</sup> The only I could find is the research of Jeppesen et al. (2012), however with only one round of interviews.

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The 4<sup>th</sup> ISBEE (International Society of Business, Economy, and Ethics) Conference of July 2008 in Cape Town, South Africa, offered a specific plenary session concerning 'Global reporting on ethics in small and medium enterprises'. Representatives from all continents presented an outline of CSR research showing that there are few activities worldwide; even in the North this kind of research is marginal compared with that concerning large companies (details see Spence and Painter-Morland 2010).

Volery and Gundlof (2008) analysed SME research in three German Management Journals between 1997 and 2006<sup>8</sup>. Within the 112 articles, they examined, there was no explicit article concerning ethics or morality and management systems.

The annual report 2007 of the Institute for SMEs of the University St. Gallen (Fueglistaller 2007) mentions 41 PhD theses and MA dissertations (accepted or in process) concerning SMEs. No upper grade student of the SME Institute has been or is working on 'SMEs, ethics/morality and standardised management systems'. The annual report of 2012 (Fueglistaller 2012) enumerates 25 PhD theses and MA dissertations (accepted or in process); only PhD-thesis in process discusses a social theme.

Within the 'Recontres de St. Gall' weeks (Alexandria 2005), exclusively invited researchers from all continents meet every two years, and have done so since 1947 to discuss issues concerning SMEs. 'Rencontres de St. Gall' is the oldest conference world-wide for SME research. The conferences of 2002, 2004 and 2006 reflected mainly 'SMEs in specific regions/countries' (23) and 'SMEs and public regulations' (13); only four (of the 101 presented papers) discussed 'SMEs and social and environmental responsibility' while none focussed on 'SMEs and management systems'. During the conference of 2012 (Volery et al. 2012)

<sup>&</sup>lt;sup>8</sup> Schmalenbachs Zeitschrift für betriebswirtschaftliche Forschung – ZfbF; Zeitschrift für Betriebswirtschaft – ZfB; et Zeitschrift für Klein- und Mittelunternehmen – ZfKE

37 papers have been presented; but only one discussed an ethical theme (Volkmann and Berg 2012).

Hisrich and Drnovsek (2002) analysed 641 articles on entrepreneurship and small business in European countries published in 18 journals and three conference proceedings in the period from 1990 to 2000. The paper illustrates that entrepreneur and small business research in Europe is very broad, with a concentration on activities in the United Kingdom. Additionally they offer an overview on the history and actual situation of entrepreneurial education and research. The content analysis of titles shows that 'ethics/morality' are mentioned only twice (once as 'trust'), 'physical environment' twice, 'quality management' once, and 'quality' four times (quality management, service quality, academic quality, labour factor quality). The reason for the small number of titles concerning 'SMEs, ethics/morality and standardised management systems' may be related to the choice of journals/conferences (no journals/conferences concentrating on ethics or management systems were analysed) and to the main methodological selection criteria 'business orientation'.

I also accessed www.scholar.google.com through the selection tool 'advanced scholar search' to examine the public knowledge of research, surveys and conferences concerning the interactions of the three individual sciences ('SMEs', 'business ethics' and 'management systems'). The data demonstrated that 'business ethics' is often used interchangeably with 'corporate social responsibility CSR'. The results often did not enclose all the selected issues, sometimes only one or two of them could be found (e.g.: the data examine 'systems thinking' by 'systems'; 'complexity theory' was reduced on 'complexity'). Table 1.2 contains the final small selection 'SMEs, ethics and ... [= ISO 9001 or ISO 14001 or standardised management system or EFQM or MBNQA or system thinking or cybernetics or complexity theory]'.

36 documents concerning 'SMEs, ethics and ISO 9001 / ISO 14001' were selected from the sample www.scholar.google.ch. Of these 36

documents, only two examined all three elements 'SMEs, ethics and ISO 9001 / ISO 14001', two discussed 'SMEs' and 'ethics' comprehensively, eight speak about 'SMEs' and 'environment', two concern 'SMEs' and 'ISO 9001 / ISO 14001', and eight reflect on only one of the issues. The majority of them referenced literature reviews, while three based on surveys, and three on case studies.

The number of documents concerning 'SMEs, ethics and system thinking / cybernetics / chaos theory / complexity theory' is quite high; possibly this great number may be linked to the splitting of the expression into individual issues. A feedback of a researcher in 'complexity theory' (McMillan 2007) attests that there is little or no actual research concerning 'complexity and SMEs'.

Subject	Research	Survey	Conference
SMEs, ethics - ISO 9001	87	73	65
SMEs, ethics - ISO 14001	219	173	160
SMEs, ethics - Standardised mgmt. system	446	369	329
SMEs, ethics - Standardized mgmt. system	401	319	279
SMEs, ethics - EFQM – European TQM-Model	51	37	38
SMEs, ethics - MBNQA – US TQM- Model	6	6	5
SMEs, ethics - System thinking	2,470	1,740	1,760
SMEs, ethics – Cybernetics	158	105	125
SMEs, ethics - Chaos theory	368	253	286
SMEs, ethics - Complexity theory	1,680	1,230	1,220

Table 1.2: www.scholar.google.com – combinations of "SMEs, ethics and ..." – accessed 8 May 2007

An additional review of www.scholar.google.com end of 2013 (accessed 26 December 2013) showed that there are nearly no articles listed concerning the relations between SMEs, ethics / CSR and ISO 9001, quite a lot concerning the relations between SMEs, ethics / CSR and ISO 14001 / environmental management systems, and nearly no concerning

the relations between SMEs, ethics / CSR and sustainable management systems.

The results of the analysed research activities show that there are few research projects concerning SMEs and especially SMEs and ethics / morality and / or management systems and their interplay within the common environment as well as the influence of morality, management systems and environment on the sustainable performance of SMEs. The analysis justifies my research with its design and testing of the SME model and measurement tool.

## **1.4 Definition of research questions**

I tipped in this introduction into the design of my thesis the background of the research and the main subjects – the definition of SMEs and their position in society and economy; systems, models and management systems; and morality and SMEs. I also justified my research by examining world-wide research concerning SMEs, morality and (standardised) management systems as well as their interplay.

These introductive reflexions – and especially the large literature review (see Chapter 2) – allow the formulation of a number of research problems and questions to be answered. As a result of the literature review and the design of the SME model and its measurement tool corresponding hypotheses are deduced (see 4.2.3 / 4.3, p. 207ff). The research questions enclose issues which are suggested in this prologue and are discussed later – SMEs, morality, (standardised) management systems and their relation to and dynamic interplay within their common environment as well as influences on SMEs' sustainable performance. Specifically:

- 1. What is typical for SMEs? What are the differences between SMEs and large companies?
- 2. What are the specific issues of morality for and within SMEs?

- 3. How are the guiding elements of and within SMEs characterised? Do they establish a company's management system – at least informally?
- 4. What are the attributes of standardised management systems? What are the differences between the standards? Which of these systems are applied in SMEs, and with what success?
- 5. What are the moral elements of standardised management systems? Which are used in SMEs, and to what success?
- 6. What encourages the prosperous implementation of standardised management systems? What hinders it? Which are used in SMEs, with what success?
- 7. How far do SMEs combine implementation and continuous improvement of standardised management systems with morality / sustainability? What encourages and what hinders it?
- 8. What are the relations of SMEs to their environment? How do SMEs, morality / sustainability and (standardised) management systems act in their common environment?
- 9. Can a model describe the relations and the dynamic interplay of SMEs, morality / sustainability, (standardised) management systems and is able to explain comprehensively the complex attitudes and behaviours of SMEs? Which issue influences another issue and why? How can these influences be measured?

# 1.5 An outline of the thesis

After introducing the main elements and the justification of the thesis, research questions are defined (chapter 1). The reflection of the literature review provides a basis for the research and allows a first answering of research questions and enables gaps in the literature to be defined (chapter 2).

There is a wide public knowledge concerning the three individual topics ('SMEs' 'CSR / business ethics / sustainability' and 'standardised

management systems'). However, there is relatively little knowledge concerning the interactions of the three individual components and their interplay within the common environment; reflexions concerning system theory allow managing this complexity of and within SMEs. The combining of these inputs of literature allows a first answering of the research questions and defining gaps.

Chapter 3 develops a research methodology to investigate the interplay of the influences of morality, management systems and environment on SMEs' performance and to design a model and corresponding measurement tool demonstrating for the use of consultants and others in increasing sustainability.

The chapter looks for methods to answer the gaps and is the basis for designing the SME model and the method to plan, implement and analyse a longitudinal survey consisting of two interview rounds with 27 companies in two European countries (Germany and Switzerland). The long research period allows the use of abduction and action research as well as a parallel use of qualitative and quantitative methods.

In chapter 4, I discuss in Stage 1 the experiences and results of interview round 1; these allow designing the SME model using Soft System Methodology of Checkland and Howell (1998) and the measurement tool as well as defining hypotheses. The model focuses explicit on the influences of morality, management systems and environment on SMEs' sustainable performance. The hypotheses examine the intensity of the interplay between SMEs and the issues of their environment and the impacts of the use of management systems. Stage 2 analyses the results of interview round 2, compares them with round 1 and tests the SME model and measurement tool. Stage 3 finally confronts the results of the survey with other research and summaries the findings.

Chapter 5 explores the conclusions drawn by reflecting on and summarising the main results, responding to the research questions and hypotheses, illustrating impacts of the use of the SME model and the corresponding tool, defining gaps and further possibilities for research. This examination allows conclusions to be drawn, research questions and hypotheses to be answered, gaps to be identified and possible future research proposed.

Figure 1.1 shows an overview of the content of my research and the interplay of its chapters.

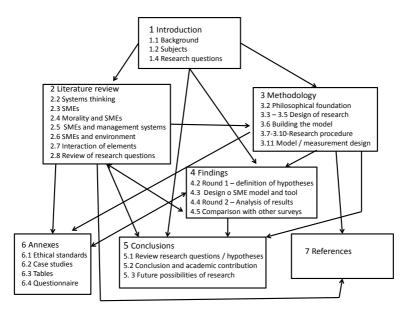


Figure 1.1: Content of research and interplay of chapters

# **1.6 Conclusion**

Since my youth SMEs had an impact on my attitudes and behaviour. I grew up in a rural landscape in Central Switzerland. There was only one large company producing and repairing aircraft. People bought food, cloth and artisan products as well as the services they needed in the neighbourhood from local enterprises. The first large supermarket to open its doors in this area was not before the eighties of the past century. Since then in my work I have been concerned with SMEs through my consulting, research, auditing of management systems and reflecting on ethical problems of economy. On this background I founded my own company aiming to develop the sustainable performance of SMEs.

Especially I am concerned with questions as to how SMEs can sustainably survive in a globalised world typified by growing market pressures, and how they are managed within this changing environment. This was the motivation for my research.

This experience raised many questions. I try to answer these questions in my thesis by analysing elements such as leadership; culture, and traditions; economic, social, and physical environment; size; industry; use of (standardised) management systems; moral attitudes and behaviours of companies and people.

The investigation enabled the formulation of specific research questions. The answering of these research questions allows filling a gap in the literature by developing a model enabling SMEs to improve their sustainability. This model explains the relation and dynamic interplay of management systems and morality within the environment of an SME. Elements of system thinking and an appropriate methodology sustain this development. The effectiveness of the model is examined by a corresponding measurement tool highlighting the performance of applying it to SMEs.

With my SME model and the corresponding measurement tool I aim to optimise the internal situation of SMEs and their position with respect to the ongoing challenges of economy, society and physical environment.

2

# LITERATURE REVIEW

## 2.1 Introduction – purpose and flow of the chapter

In reviewing literature my aim is:

- To build a model relating a) management systems used in SME's, b) their moral attitudes and behaviours, and c) the environment, in order to understand the interplay of these factors.
- To supplement the model by a measurement tool.
- To ascertain the gaps in the literature.

Keeping in mind these aims, the chapter will review SMEs, their use of management systems, their moral attitudes and behaviours, environmental influences, as well as their interplay of these factors in a common environment.

Previous research concerning SMEs discusses these individual topics mono-disciplinary and unconnectedly. There is relatively little public knowledge concerning the interactions of the components. My research fills this gap of separate examinations by positioning SMEs in an overall context and using a transdisciplinary approach and designing a SME model. A model cannot be designed and / or comprehended without a minimal understanding of system thinking and system modelling, because system thinking opens the view to complex interrelations.

That is why this chapter starts with an introduction to systems thinking. This knowledge is also used within the presentation and analysis of literature concerning the individual subjects SMEs, morality and SMEs as well as (standardised) management systems and SMEs, and management systems and morality; the review terminates with the interaction of SMEs with their environment of economy, society and physical environment and an examination of the research questions.

## 2.2 System thinking – a basic insight

An introduction to system thinking is required for the understanding of the dynamic relations of different interrelated issues.

'System' is a term with different levels of use. Cabrera, Colosi and Lobdell (2008) make a distinction between 'thinking about systems' (e.g. accounting systems, personnel systems, ecosystems, health systems, legal systems, IT-systems, planetary systems, management systems, etc.) and 'systems thinking'. More formally, Reynolds and Holwell (2010) express the distinction in terms of the relative emphases of ontological traditions (systems as representing real world entities) and epistemological traditions (systems as learning devices to inquire into real world entities).

The definitions of 'systems' are as diverse as their use.

Familiar characterizations are offered by the basic standard of Quality Management ISO 9000:2005 defining system as a

"set of interrelated or interacting elements" (8),

or by the American Society for Quality ASQ in their Quality Glossary (2007)

"a group of interdependent processes and people that together perform a common mission" (57).

These familiar definitions have a very different content. The ISO version speaks of elements, usually interpreted as a thing, or object described by a noun and the definition; it has no reference to purpose and is therefore underlying positivist<sup>9</sup>. The ASQ version is in terms of

<sup>&</sup>lt;sup>9</sup> Definition of positivism see Glossary

process described by a verb and depends on mission; this dependency on mission or purpose defines a perspective or view.

For the domain of systems thinking, Ulrich, W. and Reynolds (2010) observe among contemporary systems practitioners a wide acknowl-edgement:

"that 'systems' are essentially conceptual constructs rather than real-world entities. Systems concepts and other constructs help us describe and understand the complex realities of real-world situations, including natural, technical, social, psychological or any other aspects that might potentially or actually be relevant at any one time" (251).

Jackson (2000) enlists four core systems notions: First, all systems approaches are committed to holism and act as antidotes to the prevailing emphasis upon reductionism in many disciplines. Second, human beings inevitably organise their knowledge in 'cognitive systems'; cognitive systems are structured frameworks linking various elements of our knowledge into cohesive holes and expressing certain intellectual norms (as simplicity, regularity, conformity, comprehensiveness, unity, harmony, conformity, economy) that people have found useful in thinking about and acting in the world. Then, the systematising of predicting and controlling the real world suggests that the real world itself is orderly, and therefore a growing conformity between system-based theories and the real-world are needed. Finally, the diversity, range, effectiveness and efficiency of system approaches have to be in relation to real-world management.

## 2.2.1 History of system thinking

Systems approaches shape human history. Systems thinking in terms of promoting holistic views can be discovered in the ancient spiritual Eastern traditions, ancient Greek philosophy, as well as being prevalent through the oral traditions of many indigenous tribal spiritual traditions (Jackson 2000). The term 'systems' as recognised in contemporary usage was explicitly used first in eighteenth century European Enlightenment philosophy rooted in the works of Kant. Apart from Kant with his eagerness to push rational thought to the limit in order to free human beings from prejudice an illusion, other Western philosophers are characterised by systems thinking: Spinoza with his believe that the universe as whole consisted of a single substance, Hegel with his idea that separate things are only aspects of the whole 'The Absolute' whose appreciation can be approached through the 'dialectic' method, and Marx with his dialectic view of history.

A challenge for the dominant mechanistic Cartesian-Newtonian world-view was the evolution theory in Darwin's 'The Origin of Species' with the world as an evolving, ever-changing place. New mathematical models to solve equations

"relied on linear components or linear approximations if difficult non-linear equitations arose"

and

"Einstein's work on relativity and his progress on quantum theory brought together and advanced the structure of physics" (McMillan 2004: 40).

Cybernetics in the 1940s and 1950s recognized the importance of both negative and positive feedback loops and the existence of both kinds of feedback everywhere at all levels of living systems is acknowledged (e.g. von Bertalanffy 1949, Wiener 1948). The emergence of new fields of microbiology and biochemistry and the first understandings of hereditary mechanisms and electrodynamics have been of decisive importance; especially the research of the two Chilean biologists Varela and Maturana (2004, 1997, and 1988) with their concept of 'autopoiesis' of living systems had an immense influence the further development of system thinking. According to Jackson (2000, p. 302-303) Capra's ecological sustainability is characterised by interdependence of all elements in a network of relationships; ecological processes have cyclical nature, the waste of one species is food for the other; and within the ecosystem co-operation and partnership are essential as each element contributes to the sustenance of the community. With sociologists system thinking entered into organisational theory; outstanding were Parsons's equilibrium functions theory (e.g. Parsons and Smelser 1956) and Luhmann's theories concerning organisation and society (e.g. 1998, 1990). Luhmann's reflections are influenced by reflections of Maturana ('autopoiesis' – see Maturana 2004), and are still determinant in organisational system thinking in German speaking countries<sup>10</sup>.

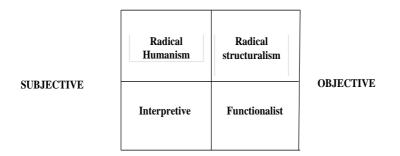
## 2.2.2 Development within the last decades

Since the nineties of the past century system thinking and the related research has intensively developed, especially for its employ in organisation and management. Jackson (2000) after reflecting on the social sciences defined four most common research approaches to management – functionalist, interpretive, emancipatory, and postmodern system thinking. Jackson, thereby, uses Burrell and Morgan's four paradigms for the analysis of social theory (1979). The four paradigms are constructed around different assumptions social scientists make about the nature of social science and about the nature of society. Objective assumptions characterise social reality as hard and external to the individual, and human behaviour is determined; according to subjective assumptions contrary social reality is more subjective and a product of individual or shared consciousness, as humans have a free will. The nature of society is either marked by regulation and therewith by means

<sup>&</sup>lt;sup>10</sup> Under others, I experienced this example: in 2010 and 2011, master students from the facility management discipline at the University of Applied Studies Zurich work with a reader concerning system thinking only referencing Luhmann.

of basically consensual behaviours or by radical change and for that reason signed through contradictions and structural conflicts.

Burrell and Morgan presented the combination of the four paradigms of social theory in a matrix (Figure 2.1) which was used by Jackson as the basis for his types of system ideas. The functionalist social theory with objective and regulative items corresponds to the functionalist, the interpretive theory with subjective and consensual issues to the interpretive, the radical structuralism with objective and terms of radical change to the emancipatory, and the radical humanism with subjective and contradictory elements to the postmodern system approach.



SOCIOLOGY OF RADICAL CHANGE

#### SOCIOLOGY OF REGULATION

Figure 2.1: Burrell and Morgan's four paradigms for the analysis of social theory

Jackson (2000) intensively discusses the four systems approaches by examining the different models of system ideas and their theoretical backgrounds; besides that he summarises the approaches according to a scheme allowing comparisons. I used Jackson's resumes to enlarge his basic table (Jackson 2000, p. 42). The expanded table (Table 2.1) is applied as one of the tools for the evaluation of different issues within my research (e.g. literature review in this chapter, design of SME model, analysis of findings).

Feature	Functionalist	Interpretive	Emancipa-	Post-
			tory	modern
Basic goal	Demonstrate law-like rela- tions among objects	Display unified culture	Unmask domination	Reclaim conflict
Method	Nomothetic science, positiv- ist	Hermeneutics, ethnography	Cultural and ideological critique	Deconstruc- tion genealo- gy
Норе	Efficiency, effectiveness, survival and adaptation	Recovery of integrative values	Reformation of social order	Claim a space for lost voices
Organiza- tion meta- phor	Machine, organ- ism, brain, flux and adaptation	Culture, politi- cal system	Psychic prison, in- struments of domination	Carnival
Problems addressed	Inefficiency, disorder	Meaningless- ness, illegiti- macy	Domination consent	Marginaliza- tion, conflict suppression
Narrative style	Scien- tific/technical, strategic	Romantic embracing	Therapeutic, directive	Ironic, am- bivalent
Time identi- ty	Modern	Premodern	Late modern	Postmodern
Organiza- tional bene- fits	Control, experi- ence	Commitment, quality of life	Participation, expanded knowledge	Diversity, creativity
Mood	Optimistic	Friendly	Suspicious	Playful
Social fear	Disorder	Depersonaliza- tion	Authority	Totalization, normalization
Assumption	Real-world is systemic	Real-world is not systemic	Real-world may be sys- temic (alienat- ing to op- pressed)	Real-world with margin- alized groups / individuals
Analysis	In system terms	Creative and not in system terms	Revealing disadvantage	Revealing marginaliza- tion
Models – aims	Gaining knowledge of the real-world	Representation of some possi- ble "human activity sys- tems"	Revealing sources of alienation and oppression, proposing alternatives	Diverse forms of pluralism to hear mar- ginalized voices
Feature	Functionalist	Interpretive	Emancipa- tory	Post- modern
Models – use	Best improve- ment of the real- world and for	Interrogation of perceptions of the real	Enlightening about alienat- ed situation	Diverse forms of pluralism integrate

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	ſ	11 4 4	11.1	(1.1.11)
	purposes of	world, structur-	and develop-	stakeholders
	design	ing about	ing ways to	with their
		feasible and	design alterna-	diversity –
		desirable	tives	possibly
		changes		granting
				"consent to
		0		act"
Methods	Quantitative	Quantitative	Quantitative	Quantitative
	analysis – sys-	analysis only to	analysis to	analysis only
	tems obey	clarify the	capture par-	to clarify the
	mathematical	implications of	ticular biases	process of
	laws	world views		deconstruc-
	<b>Q</b> ( )	<b>Q</b> ( )		tion
Process of	Systematic – to	Systemic,	Systemic – to	Local strate-
intervention	discover the best	never-ending -	improve the	gizing and
– method	way to achieve	alleviating	problem	subversion,
	goal	unease	situation	new
	Dici	D . C . I	A 12 / 1	knowledge
Process of	Basis of expert	Basis of stake-	Alienated	Reclaiming
intervention	knowledge	holder inter- vention	taking respon-	conflict,
– approach		vention	sibility	encouraging
				diversity and
TE C	Tff .:	Effectiveness,	E	creativity
Terms of	Efficiency and	,	Emancipation, ethics	Exception,
testing solu-	efficacy	elegance, ethics	ethics	emotion, ethics
tions				
Strength	Serving the	People's	Identifying	Prioritizing of
-	technical interest	perception,	contradictions	the local,
	in prediction and	power of	in systems	engaging in
	control of natu-	decision mak-		"local strug-
	ral and social	ers, values		gles"
	systems	explicitly		
		included		
Weaknesses	Difficult to use	Difficult to use	Partly theoret-	Lack of clear
	in social (subjec-	in conflictive	ical, danger of	methodical
	tive) and corre-	systems,	historical and	guidance
	sponding com-	possible supe-	cultural	
	plex systems	riority of	determination	
		knowledge		

*Table 2.1: Features of four research approaches (adapted from Jackson 2000)* 

In a second table (Table 2.2), I allocate the main models of system thinking, described by Jackson, to the four system approaches; I use these tables for the design of my system model and tool, the evaluation of issues within my research and learning approaches within their application.

Feature	Functionalist	Interpretive	Emancipatory	Postmodern
Feature Methodologies, schools, tools (with main authors)	Functionalist Classical cybernetics (Wiener) General sys- tems theory (von Ber- talanffy) Organizations- as-systems • Contingency theory • Socio- technical systems theo- ry Hard systems thinking • Operational research OR (Churchman) • System analysis • Systems engineering (Hall) System dy- namics Organizational cybernetics • Viable sys- tem model (Beer) Living systems theory Autopoiesis (Maturana, Varela, Luh- mann) Complexity theory	Interpretive Interactive management Social sys- tems design SSM (Churchman) Strategic assumption surfacing and testing SAST (Mason, Mitroff) Social sys- tems Science (Ackoff) Soft systems methodology SSM (Check- land) Soft systems thinking (Senge) Soft OR Soft System dynamics Soft cyber- netics	<ul> <li>Emancipatory</li> <li>Emancipation as liberation</li> <li>(basis: Kant, Hegel, Marx)</li> <li>Critical OR</li> <li>Critical OR</li> <li>Critical asystem approach (Habermas)</li> <li>Interpretive systemology</li> <li>Critical pedagogy (Freire)</li> <li>Moral Community (MacIntyre)</li> <li>Ecological sustainability (Capra)</li> <li>Emancipation through discursive rationality (basis: Haber- mas)</li> <li>Team syn- tegrity (Beer)</li> <li>Critical system heu- ristics CSH (Ulrich)</li> <li>Emancipation through the oblique use of system methods</li> </ul>	Postmodern Philosophy (basis: Nietzsche, Heidegger) PANDA (Taket, White) Postmodern system methods

*Table 2.2: Models, tools within the four research approaches (basing on Jackson 2000)* 

Jackson (2000) does not stall at the description of the four system approaches; he merely widens the view by reflecting contemporary

system thinking and praxis. Contemporary system thinking is seen as a meta-methodology understanding, respecting and using the uniqueness of functionalist, interpretive, emancipatory and postmodern theoretical rationales, and drawing upon them to improve real-world situations. This meta-methodology makes use of a variety of creativity enhancing methods and techniques to examine the problem situation. Within this research the contemporary approach supports coping "to the complexity and heterogeneity of the problem situation addressed" (p. 393).

As a tool to analyse the complexity of systems and the affected stakeholders, I combined Jackson's 'Grid of problem context' (2000, p. 359) with the reflexions of Reynolds and Holwell (2010, p. 11) for a deeper evaluation of different issues within my research (Table 2.3).

		Participant stakeho	olders	
		Unitary 'hard' systems based on machine metaphor	Pluralist 'soft' systems based on organismic metaphor	Coercive 'critical', emancipatory systems based on prison meta- phor
'Systems'	Simple	Simple unitary: e.g. systems engineering	Simple plural- ist: e.g. strategic assumption surfacing and testing	Simple coercive: e.g., critical systems heuristics
i.e. problem situation	Complex	Complex unitary: organisations-as- systems, e.g., systems dynam- ics, viable sys- tems model	Complex pluralist: e.g. soft sys- tems methodology	Complex coer- cive: e.g. con- temporary ap- proach with revised total system interven- tion

*Table 2.3: System of system methodology (adapted from Jackson 2000: p. 359 and Reynolds and Holwell 2010, p.11)* 

In a matrix, it classifies systems methods on two dimensions: one, the level of complexity of the problem situation (simple or complex), and the other, the degree of shared purpose amongst participant stakeholders (unitary, pluralist, or coercive relationships). Within the participants' dimension it uses metaphors and methodologies of Tables 2.1 and 2.2.

#### **2.2.3** System thinking – the appropriate paradigm for this research

Because I aim disrobing the dynamic and complex interplay of SMEs, morality / sustainability and management systems with their common environment, system thinking is the appropriate paradigm for this research.

The systems reflections of merely functionalist scientists such as the Chilean biologist Humberto Maturana (2004, 1997, and 1988) and others (e.g.: von Foerster 1991, von Bertalanffy 1968 and 1949, Wiener 1948) have influenced my system approach. The mentioned above examination of the other approaches and their representatives as well as with contemporary system thinking and its transdisciplinary orientation enlarged my view. Simply said, for me a system is characterised by the totality of the internal reciprocal relations of its elements and by its environment. A subsystem is a set of elements, which form a system itself, and is part of the whole system. Any entity which has no relation with any other element of the system is not part of that system but rather of the system environment. Some elements may be at the same time part of several systems (part of the system and systems of its environment); they have a systems-spanning character. Organised complexity applies if singular phenomena are not linked in a linear logical way (cause-effect feedback), but reciprocally related, circularly enclosed (effect-effect feedback). Systems are embedded in time, so their elements, their internal relations and their environment and the relevant relations may be in flux. For their functioning, feedback processes need minimal aptitudes for communication to handle at least basic information between the individual elements and systems; Maturana (2004) calls this skill 'languaging'. This sort of thinking applies directly to SMEs in today's environment.

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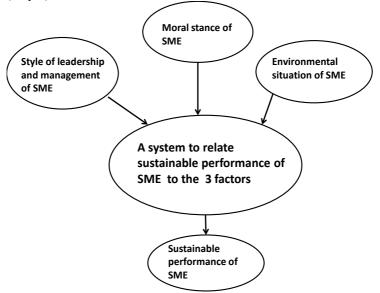
All the subsystems of a model are interrelated. Relations between them are specified by iterative feedback. Changes in one sub- or uppersystem may influence others – at least over long term. Each of these sub- and upper-systems has its own specific method of steering – in the terminology of systems theory: every system is an autopoietic (Maturana) or self-organising system. On the other hand the ensemble of all the systems develops its own form of self-organisation.

Maturana's concept of 'structural coupling' explains how one system may influence another. The concept demands communication between different systems allowing a mutual triggering. If one system or element tries coerce another there is a severe risk that not only the 'structure' of the coerced system or element may be changed step by step, but also its 'organisation' can be destroyed and with that its existence.

From a human point of view, systems arise with or without influence of human beings and with or without human intention. Examples for systems without human influence and intentions are the systems of the physical environment before the appearance of human beings. Examples of systems with human influence but without human intention are most of the complex social systems as society and the economic system in which SMEs operate. Finally, examples of systems with essentially human influence and intention are technical systems and simpler social systems as found in specific companies.

The levels of human influence and intention in systems cause different degrees of guiding possibilities and with those possible spaces of freedom by human individual actors.

The introduction into systems thinking – considering the functionalist, interpretive, emancipatory and postmodern as well as contemporary approaches – allows a more adequate explanation of the individual subjects SME, morality / sustainability, (standardised) management systems and their relations as well as of SMES and their environment; it also basis the design of the SME model and the measuring tool. Framing these ideas as a functionalist systems model with inputs to the model (the management system, the moral attitudes and behaviours and the environmental situation of the SME [including society, economy and physical environment]) produces an initial model as illustrated in Figure 4.4 below. These inputs allow the system (SME with its people and their knowledge, leadership and culture products and services) to find an optimal interplay to improve SME's sustainable performance (output).



*Figure 4.4: Conceptual SME model 2 of this research (details see 4.3.1, p. 210ff)* 

## 2.2.4 Measurement tool building – insight in a number of tools

As input to design the measuring tool of this research, I examine a number of methodologies and multifaceted tools helping to monitor and measure the status of a company:

ISO standards (details see 2.5.3, p. 105ff) are based on circular thinking and concentrate on specific issues (e.g. ISO 9001: on quality –

ISO 14001: on environment); these standards are quite often used by SMEs to assess their management by internal audits; this assessment is mostly approved by an external certification. The Total Quality Management TQM or excellence 'models' as EFQM (Europe) or MBQNA (US) evaluate business excellence comprehensively; the institutions offer particular tools for SMEs, but in comparison with the ISO standards these are rarely used by SMEs. CSR or business ethics standards measure moral performance; however, they are not often used by SMEs.

Relatively easy applicable methods include the 'Hierarchy model' of Tsiakals (2002), the 'SME matrix' of Fueglistaller and Fust (2006), the 'SE typology' of Frey (2009), the 'CSR matrix' of Basu and Palazzo (2005), the 'analysis of performance configurations' of Boiral and Amara (2009), the 'ESR territory' of Blundel, Spence and Zerbinati (2010), the 'tool to measure strategy deployment' of Perdigao (2013), the framework describing the organizational integration of CSR principles into daily business routines of Baumann et al. (2013), and the Common Good Matrix of the Austrian Common Good movement (2012).

Tsiakals (2002) uses Maslow's hierarchy of human needs (1954)<sup>11</sup> to develop a hierarchy of the development of a (quality) management system<sup>12</sup>:

a) Bottom level: The effective system helps to prevent defects.

b) Middle level: The efficient system minimises the use of resources.

c) Top level: The system allows competitive advantage and generates delighted customers and interested parties.

<sup>&</sup>lt;sup>11</sup> Maslow designed a hierarchy of human needs with four steps (bottom up): Survival – Safety and security – Acceptance and love – Self-actualisation and self-esteem. The first two are merely compliance, the second two merely value orientated.

<sup>&</sup>lt;sup>12</sup> ISO 9000 (ISO 2005) defines effectiveness as "extent to which planned activities are realized and planned results achieved" and efficiency as "relationship between the result achieved and the resources used" (9).

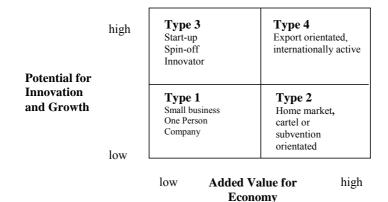
Fueglistaller and Fust (2006) designed a matrix with two parameters 'Innovation' and 'Tradition' (Figure 2.2).

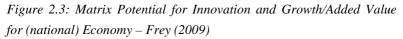
The application of the matrix draws on four lists measuring 'agility', 'knowledge', 'company culture' and 'external view of values and traditions'. The first two define the rate on the 'Innovation' parameter, and the second two the rate on the 'Tradition' parameter. The application of the matrix aims to support SMEs on their way to develop into top companies; the approach is accompanied by practical guidance.

high	High aptitude for innovation and customer orientation	Top SMEs! Trustful innovators – Innovative traditional SMEs
Innovation	Why do we still exist? No tradition – no innovation	Traditional SMEs- trustful employees- products: minimal change
10 w	low	high
	Tra	dition

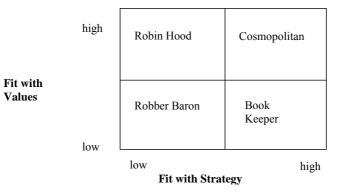
## Figure 2.2: Matrix Innovation/Tradition – Fueglistaller and Fust (2006)

Frey (2009) uses a matrix with two parameters 'Potential for innovation and growth' and 'Added value for (national) economy' to typify the position of small companies in market (Figure 2.3). The four sectors of the matrix are embedded in the dynamic company life cycle with its steps: 'foundation', 'growth', 'maturation' and 'revitalisation or downturn'. Nearly all companies start in Type 1 as a 'small business', but several mutate quickly into Type 3 'start-up'. Not every company achieves or wants to reach Type 4 'export orientated'; many concentrate on Type 2 'home market', and a significant number experience downturn by mischance.





Basu and Palazzo (2005) also proposed a matrix with two parameters 'Fit with Values' and 'Fit with Strategy'. With these parameters the companies' CSR maturity can be characterised (Figure 2.4).



*Figure 2.4: Matrix Fit with Values/Fit with Strategy – Basu and Palazzo* (2005)

The Robber Baron may be seen as epitomizing the *libertarian* ideology, driven purely to maximize profit. The Robin Hood is likely to be driven by a *communitarian* ideology of giving back to the communities through voluntary acts of philanthropy. The *contractarian* ideology of the Book Keeper might lead it to view CSR through the lens of stakeholder management. Finally, the *universal* ideology of the Cosmopolitan might lead it to collaborate in an economically unconditioned way with other social actors in addressing urgent social and environmental challenges.

The authors optimised their reflection by a figure explaining the sense making process of CSR (Basu and Palazzo 2008). They use cognitive (What firms think), linguistic (What firms say) and conative (How firms tend to behave) issues consisting of seven sub-elements which allow characterising CSR (Figure 2.5).

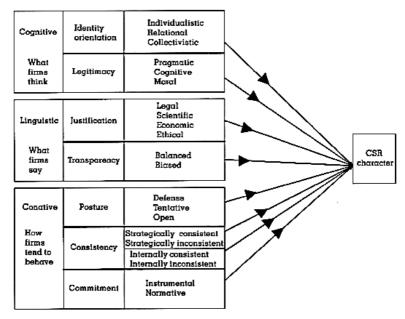
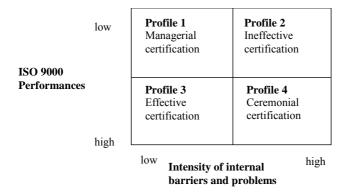


Figure 2.5: CSR: Dimensions of the Sensemaking Process – Basu and Palazzo (2008)

Boiral and Amara (2009) analysed performance configurations resulting from the implementation of an ISO 9000 system in 872 certified organisations in the province of Quebec, Canada. The configurations are based on the crossing of traditional performance criteria related to the implementation of ISO 9000 and organizational problems stemming from the implementation of the standard. This leads to the definition of four effectiveness profiles that reflect the paradoxes and degrees of success of ISO 9000 implementation (see Figure 2.6).



*Figure 2.6: Configurations of ISO 9000 effectiveness – Boiral and Amara (2009)* 

Definition of the four profiles:

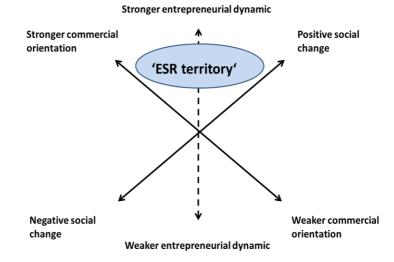
Profile 1: This certification is managerial because it raises few internal problems in terms of cumbersome paperwork, lack of resources, and internal mobilisation. The standard, therefore, is fairly well integrated into management practices. Nevertheless, this integration does not necessarily lead to performance improvements. Figure 2.6: Configurations of ISO 9000 effectiveness – Boiral and Amara (2009)

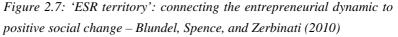
Profile 2, ineffective certification, is characterized by fairly weak performances and significant problems ensuing from the ISO 9000 implementation. The results are unsatisfactory and the standard faces considerable internal resistance.

Profile 3, effective certification, is characterized by good performances in traditional criteria of ISO 9000 effectiveness (quality improvements, commercial aspects, and so on) and no significant internal implementation problems. ISO 9000 not only obtains good commercial and operational results, but it also leads to greater commitment within the organization. Accordingly, organizations in this category bask in a win-win situation: the standard provides satisfying outcomes without encountering much internal resistance.

Profile 4, ceremonial certification: The implementation of the standard improves commercial and quality performances, but also generates resistance and significant implementation problems. These problems are expressed mainly by procedural bureaucracy and lack of individual commitment.

Blundel, Spence, and Zerbinati, S. (2010) designed a model of 'Entrepreneurial Social Responsibility ('ESR') (Figure 2.7) and define it "as the dynamic consideration of, and response to, issues beyond the narrow economic, technical and legal requirements of the firm to accomplish social and environmental benefits along with traditional economic gains" (125).

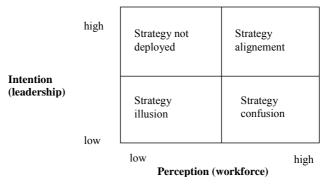




The model connects the entrepreneurial dynamic to positive social change. It positions the territory of ESR between 'stronger commercial orientation' and 'positive social change' – promoted by 'stronger entrepreneurial dynamic'. ESR supports an understanding of entrepreneurial decisions over time and in the context of social, legal, environmental, economic and institutional environments by widening the relevance of all phases in the entrepreneurial process, and going beyond start-up. It includes: recognising and creating opportunity; mobilising and enhancing resources; securing and extracting value; and exiting and redeploying value. The model presents an alternative to the strict commercial orientation by integrating dynamism into the complex bi-polarity of commercial and social issues of entrepreneurship.

Perdigao (2013) designs a 'Strategy deployment intention-perception matrix'. For him 'Strategy not deployed' (top-left) represents an organization in which efforts from leadership in deploying the strategy are evident, but the workforce's perception is poor. 'Strategy illusion' (bottom-left) reflects an organization not making efforts to properly deploy its strategy and its workforce not perceiving the strategy. 'Strategy confusion' (bottom-right) shows an organization which is not effectively deploying its strategy, yet its workforce's perception ranks high; this could mean each employee in the organisation may have his or her own understanding of a strategy not even formally existing. 'Strategy alignment' (top-right) finally is the category all organizations strive to be in: indicating a strong top-down strategy deployment approach and a workforce that clearly understanding the strategy.

The inputs of the four quadrants are taken form detailed questionnaires for leaders and employees with a rating of the fulfilments of the contents from zero to five.



*Figure 2.8: Strategy deployment intention-perception matrix – Perdigao* (2013)

Baumann et al. (2013) designed a framework describing how a business progressively advances the implementation of CSR, namely the organizational integration of CSR principles into daily business routines (see Table 2.4). The basis of the framework is Zadek's (2004) organizational learning model.

In the *denial* stage, companies behave not responsibly for the social and environmental impact of their business. Within *compliance*, the focus is on following legal rules. The *managerial* stage marks a first understanding for corporate social or environmental responsibility beyond legal requirements within management activities. A sign of a *strategic* behaviour is the experience that CSR orientation is giving a competitive edge and allowing a broader range of issues related to CSR. In the *civil* stage, companies are aiming to become proactive CSR drivers.

	Defensive	Compli- ance	Manage- rial	Strategic	Civil
Com- mitment	Denial of social or Environ- mental responsibil- ity; "no idea" about CSR	Commit- ment to comply with exist- ing laws and regula- tions	Commit- ment to implement CSR prac- tices	Commit- ment to use CSR for creating competitive advantage	Commit- ment to contribute to public goods and shape CSR agenda, irrespective of strategic

					value
Internal Struc- tures & Proce- dures	No internal implemen- tation of CSR struc- tures and procedures	Internal structures and proce- dures are designed to ensure legal compliance	CSR struc- tures and procedures provide orientation in daily business practices and address selected issue areas related to CSR	Integrated implemen- tation of CSR related structures and proce- dures that address a broad range of issue areas	CSR poli- cies are fully inte- grated in all aspects of the business operations and best practices are shared within industry peers
Exter- nal Col- labora- tion	No external collabora- tion or refusal to interact with stake- holders	Interaction with exter- nal stake- holders only takes place if legal issues are con- cerned	External stakehold- ers are integrated in some organisa- tional processes; selected CSR- related issues are approached with stake- holders	External stakehold- ers are comprehen- sively integrated when addressing CSR- related issues; focus on "joint problem solving"	External stakehold- ers are integrated irrespective of their strategic value to the firm; they are equal partners in decision making process

*Table 2.4: Stages and Dimensions of CSR – Baumann et al. (2013)* Since 2001 a group of Austrian activists (initiated by Christian Felber and his book "Gemeinwohl-Ökonomie" – newest edition 2012) has developed the Economy for the Common Good movement aiming an alternative to existing capitalist economy and building on 20 values that promote the needs of the entire population<sup>13</sup>. Economy for the Common Good supports companies and institutions in evaluating their way to economic, political, and social change with a matrix positively and negatively rating the activities (newest version 2013 – see Table 2.5).

<sup>&</sup>lt;sup>13</sup> Detailed information see: http://www.gemeinwohloekonomie.org/en/content/idea-economy-common-good

VALUE STAKE-HOLDER	Human dignity	Cooperation and Solidarity	Ecological Sustainability	Social Justice	Democratic Codetermina- tion and Transparency
A) Suppliers	A1: Ethical Supply Management Active examination of the risks of 90	A1: Ethical Supply Management Active examination of the risks of purchased goods and services, consideration of the social and ecological aspects of suppliers and service partners 30	ideration of the social and ecologica	I aspects of suppliers and service pa	attners
B) Investors	B1: Ethical Financial Management Consideration of social and ecolog <b>30</b>	B1: Ethical Financial Management Consideration of social and ecological aspects when choosing financial services, common good-oriented investments and financing 30	I services; common good-oriented i	nvestments and financing	
<ul> <li>C) Employees, including busi- ness owners</li> </ul>	affirmative action Employee- oriented organizational culture oriented organizational culture and payment policies, work- and payment policies, work- life balance, flexible work hours, equal opportunity and dversity 90	C2: Just distribution of labor – Reculdion of ore-trime, elimi- nating unpaid overfinme, audiction of total work hours, contribution to the reduction of unemployment 50	C3: Promotion of environmen- caling intendy behavior of employees active promotion of sustainable lifestyles of employees (mobility, nutrition), training and awareness. training and awareness organizational culture organizational culture	C4: Just income distribution – C4: Just income distribution a company, complance with minimum and maximum wages 60	Corporate democracy and transparency Comprehensive transparency within the transparency within the company, elector of marag- ets by employees, democratic ets by employees, democratic mental strangic sistues, transfer of property to em- ployees <b>90</b>
D) Customers / Producs/Ser- vices / Business Partners	D1: Ethical customer relations Ethical business relations with customers, customer orienta- tion and co-determination, thigh quality of service, high product transparency 50	D2. Cooperation with busi- messes in same field Transfer of know-how, personnel know-how, personnel finensation and intensa-tree loans to other business in the same field, participation in cooperative marketing activi- ties and crisis management <b>70</b>	D3: Ecological design of of ecological design of of ecologically superior prod- ucts/services; avareness ucts/services; avareness areing programmes, consid- eration of ecological aspects when choosing customer angog groups	D4: Socially oriented design of products and services Infor- products and services intor- disachantaged groups, support for value-oriented maket structures	D5: Raising social and ecolog- ical standards Exemplary ical standards Exemplary ment of higher standards with businesses in the same field, bushing
E)Social Envi- ronment: Region, electorate, future generations, civil society, fellow human beings, animals and plants	E1: Value and social impact of products and services Frod- ucts and services fulfil basic human needs or serve hu- markind, society or the environment 90	E2: Contribution to the local community Mutual support community Mutual support inner do cooperation through financial resources, services, provehous, logistics, time, know-how, knowledge, contacts, influence 40	E3: Reduction of environmen- tal impact –Reduction of environmental effects towards a sustainable level, resources, energy, dimate, emissions, waste etc.	E4: Investing profits for the Common Good Reducing or Commaning dividend payments to extern, pay-outs to em- ployees, increasing equity, social ecological investments 60	E5: Social transparency and codetermination. Common good and sustainability re- ports, participation in deci- sion-making by local stake- holders and NGO's <b>30</b>
Negative Criteria	interface of LD norms (inter- national labor standards) / human rights -200 human rights -200 human dignty and human power. GMO's) -200 nover. GMO's) -200 nover. GMO's) -200 human dignty -150	Hostle takever -200 Blocking patents -100 Dumping Prices -200	Massive environmental Massive environmental Gross vidation of environmen- tastandards – 200 Planned dossecence (short lifespan of products) –100	Unequal pay for women and men -200 bouts or moving jobs overseas despite having made sobsidiaries in tax havens -200 Equity yield rate > 10 % -200	Non-disclosure of subsidiar- lies -100 es -100 -150 -150 to no-disclosure of payments to no-disclosure of payments to nobbylist -200 Excessive income inequality within a business -100

*Table 2.5: Common Good Matrix 4.1 for Common Good Balance Sheet, generated in 2013 – Economy for the Common Good* 

# 2.3 Characteristics of SMEs – defining system boundaries

With the view into system thinking, I built a background for the understanding the interplay of elements of this research. Before discussing this interplay, I examine literature concerning the individual elements. I start with the primary element by discussing specific issues of SMEs – as owners, top-managers, employees, culture, relations, processes, technology, and knowledge.

In this section I establish the context of the research by drawing the system boundary (specifying SMEs basing on literature review); this boundary will provide the selection of organisations which become the subject of the research later in Chapter 3 Methodology.

SMEs differ immensely because of their specific owners, tradition / culture, leadership, staffs, market, size, neighbourhood, local community and so on. That is why interpretive or postmodern system thinking approaches would be most suited to evaluate and improve SMEs. However, as the results of this research show, functional methods are in front (e.g. systems engineering SE, operational research OR), and SMEs are in danger of following fads. Of course, defined procedures (e.g. an operation sequence) have functional characteristics.

An assortment of common elements of SMEs is deduced based on a large literature review and on my research and experiences observing internal and external issues. It is concentrated in 2.3.3 (p. 79) after discussing a selection of internal and external issues.

## 2.3.1 Internal issues – specifications

To detail internal issues of SMEs, I examine organisation, ownership, familyness, culture, flexibility / innovation, financing and as a specific element the starting up of a company.

## 2.3.1.1 Organisation

Because I found no specific data concerning the internal organisation of SME<sup>14</sup>, the following issues are based mainly on my personal consulting, teaching and auditing experiences with SMEs.

One could suppose that complexity within SMEs is reduced because of their size and the smaller number of people involved. That may suit SMEs with a small palette of mainly simple services or products, and a clearly-defined, hardly-changing market. A great number of tasks produces complexity and concentrates the focus of a small number of people within a SME. Therefore these tasks are intensively related to specific persons and their internal and external attitudes and behaviours triggering one another and the system 'SME'. The handling of complexity depends more on individuals and less on defined missions, strategies and functional descriptions, which are concentrated in structured management systems characterising larger companies with clearer distribution of tasks. If a SME is a largely independent subsidiary of a holding company, the influence of formal descriptions is certainly greater.

According to my observations and the findings of this research, SMEs risk under pressure reducing their complexity and concentrating on ostensible, would-be decisive aspects. On the other hand this concentration enables a greater flexibility because of a reduced need for formalisation of responsibilities and procedures. This flexibility can be an opportunity, if it is paired with corresponding resources (e.g. knowledge, material, energy, finance).

Leadership and decision-making in SMEs often comes from intuition and qualitative data. Communication and coordination within SMEs base more on personal, often amicable relations than formal procedures.

<sup>&</sup>lt;sup>14</sup> The reviewed research concentrates mainly on environmental issues as finance, market development or on familyness (e.g. Schweiz. Institut für Kleinund Mittelunternehmen – Swiss Institute for SMEs, University St. Gallen, with director Prof. U. Fueglistaller, being often quoted in this research).

Company traditions and common values foster an integrated and selforganising system.

Fueglistaller (2004d) observes interacting elements causing employee loyalty as a basis of long-term success of companies: the entrepreneur, employees as colleagues and employees themselves (selfreference, personality), customers, the enterprise as a whole, and the market. The influence of the superior is mainly found in microcompanies and processes, in the organisation and structure of the company, as well as in teams in small companies. More abstract values such as corporate image, strategies and culture come into their own; SMWs have a consistently stronger internal implementation of CSR-related practices, in contrast to an experienced bilateral relationship in medium and large companies (Baumann et al. 2013, Brink 2013, Capelossi 2007).

## 2.3.1.2 Ownership, familyness, owner-manager

In Switzerland, I observe two main forms of ownership of SMEs – family or partner owned and public as well as half public (e.g. foundations, co-operatives) companies. Micro and small companies are quite often privately owned. However the majority of micro, small and medium sized companies are limited companies<sup>15</sup>; being organised as limited company offers advantages in handling financial risks and taxes. According to the definition of my research (see 1.2.1, p. 30), autonomous subsidiaries are also regarded as SMEs, even if they belong to holdings.

Literature discusses family companies quite intensively: Family companies need the interplay of the strategies of the company and the family for a long-term success (Hauser and Wolter 2007, Laeis 2005, Fueglistaller 2004c, Mühlebach 2004, IfM 2002). If boards are dominat-

<sup>&</sup>lt;sup>15</sup>The Swiss and German legislations distinguish between two forms of limited companies – Aktiengesellschaft AG and GmbH (Gesellschaft mit beschränkter Haftung). According to Christen et al. (2013) in 2013 77 % of Swiss SMEs have been AGs, 10 % GmbHs, and 9 % were privately owned.

ed by the family, the separation of powers and control is often complicated. To maintain independence, to secure long-term survival, or to maintain or cumulate family assets is more important than increasing the market value (Bühler 2004). On average Swiss family companies are smaller than non-family companies (Frey et al. 2004). At the stock exchange Swiss family companies have a better performance in comparison to the total market and to other non-family companies (Bühler 2004).

A specific research called 'familyness' examines influences of the owner family on company performance (e.g. Mühlebach 2004). The complex grouping of external influences, family tradition, organisational structure and company philosophy may have positive or negative effects on success of the company (e.g. Mahmood 2008). The family members' common long-term responsibility allows optimal combination of the elements promising sustainable performance.

In my opinion, the literature tends to stress the argument of concentration on owner-manager. The SME survey of CERFE (2001) contains nearly 3000 companies owned by local public administrations (total sample of about 8000 companies); private companies with employed managers are not specially mentioned. A survey by the KMU-HSG Institute, University of St. Gallen, shows national differences in the number of family companies (Switzerland: 88,1%; Spain:71%; Germany: 68%). There is also a trend towards a division between board (members of owner-family) and management (employed) – mainly caused by the absence of an adequate successor within the family (Gerber 2005).

In many OECD countries, the number and importance of women entrepreneurs is rising (DAC-OECD 2011, OECD 2005, 2000). Enterprises owned by women now make up one-quarter to one third of the total business population worldwide. In several countries, notably the United States and Canada, the growth in the number of women-owned businesses is far outpacing the overall growth of new (small) businesses (Baucus and Cochran 2010, Volery et al. 2005, Statistics Canada 2001, Korten 2000).

I observed in my consultancy and research that particular effects (positive or negative) arise in SMEs because of succession or other changes at the top management level. The founder (or former top manager) has influenced the mission, strategies and culture of the company for a long time; the implementation of succession challenges the company as whole and especially the follower (member of the family or other new top manager). The question of succession is related to ageing, transfer responsibilities, and assessment of qualifications of possible successors. A succession plan mainly concerns the continuation of life's work, family relations and assets, as well as employees and their families, customers, suppliers, et cetera. It becomes increasingly difficult to find a successor, especially within the family, leading to an additional delay of the problem. In this context owners consider whether the company will give up its activities (sale or liquidation). In Great Britain, Germany, and Switzerland an increasing number of companies have to solve such problems in the near future (e.g. Christen et al. 2013, Liebermann 2003, Mohn 2003, Quarterly Survey of Small Business in Britain 2-1995).

# 2.3.1.3 SME and culture

'Culture' is a forming and significant element of companies, getting increasing attention in management theory (e.g. Kelly 2011). Perhaps the most widely-cited definition of culture is that of Schein (1985:9):

"a pattern of basic assumptions – invented, discovered or developed by a given group to cope with its problems of external adaptation and internal integration – that has worked well enough to be considered valid and, therefore, to be taught to new members as the correct way to perceive, think, and feel in relation to those problems". Schein distinguishes three levels of cultural occurrence: 1) artefacts / creations (mainly visible) - 2) espoused (collective, defined) values - 3) basic assumptions and beliefs (mainly not defined).

Some authors understand culture as a characteristic of the day-to-day milieu as experienced and practised by those who work within an organisation (Choueke and Armstrong 2000, Wallace et al. 1999). Culture consists of a mix of informal as well as more formal, defined issues (Latham 2013, Capelossi 2007, Wallace et al, 1999); these are influenced by the external environment – directly by legislation and regulations, market, and indirectly by expectations and values of society (Latham 2013, Capelossi 2007, Sadri and Lees 2001, Beer 1980).

Culture has outstanding importance within SMEs, because they are more characterised by tradition and informal issues than by defined structures, and their internal and external relations are decisive. However, apart from my research minimal data confirm this (Brink 2013, Capelossi 2007, Sneep 2007, Ritchie and Brindley 2005, Enderle 2004). I suppose with Sneep (2007), that individuals with their socialisations are vitally important for forming the culture of an SME – especially owners / top managers, long standing employees and people in key positions.

According to my knowledge, there is also no research concerning processes, technology, and knowledge management of and within SMEs.

# 2.3.1.4 Flexibility - innovation

SMEs have an advantage of more flexibility, short communication lines, networking, job creation, motivated management and labour, no bureaucracy and little filtering of proposals, innovation, and productivity because of their size and models of leadership (Georgellis et al. 2000). Enderle (2004) fosters these elements by the example of two SMEs (from Switzerland and Bangladesh) successfully acting as global players. Baucus and Cochran (2010) notice that the interplay of innovation and entrepreneurial activity is the best solution for dealing with climate change, poverty, and other world problems, as well as for growing and transforming the U.S. economy.

Based on survey data, some 30%-60% of SMEs in the OECD area are characterised as innovative and supporting economic growth (OECD 2010 a, b, c, 2005, 2000). They are less likely to conduct research and development (R&D) than larger firms, but favour other forms of innovation – creating or re-engineering products or services to meet new market demands, introducing new organisational approaches to enhance productivity, or developing new techniques to expand sales.

According to Georgellis et al. (2000), business performance of innovation depends on the will to take risk combined with capacities to innovate and plan ahead and is driven by the desire to grow. However, their analyses of 300 small firms in London showed that only a third of companies have a planning perspective of more than one year. Nearly 60% consider themselves as innovative in terms or new products in production and services, and nearly 40% in terms of product and service delivery processes. Exactly half are willing to take risks and exactly one third are growing in terms of sales revenue.

Volery's (2008) examination of the process of strategic management of innovation within eight Swiss SMEs from different industries illustrates that small firms do not necessarily prefer returns with small volumes. Considering the relationship between return and innovation management process, it can generally be assumed that sound innovation management process is associated with a favourable return.

# 2.3.1.5 Financing

Funding gaps for smaller firms are a major barrier to growth (OECD 2010 b, 2005, 2000). Wide variance in profitability, survival and growth of SMEs provokes particular financing problems compared to larger firms. Owners and managers of smaller firms often lack commercial

experience and/or a track record as entrepreneurs. Early stages of SMEs' activities are marked by uncertainty both in production and marketing.

It can be supposed that less than half of the SMEs ask for bank loans (Fueglistaller 2003b), but most get the bank loans they need (Schillig 2003, European Communities 2002). Large companies often support their small or medium suppliers. Nevertheless high-tech enterprises, start-up SMEs and SMEs working in risk industries have difficulties finding finance. Quite a lot of companies have problems with their financial rating (e.g. forced by Basel II and III); therefore financing of start-ups is often guaranteed by seed or love money – mostly from family members.

# 2.3.1.6 Starting up a company

SMEs gain weight, as larger firms downsize, concentrate on their key business and therefore increasingly outsource duties (OECD 2010 a, c, 2005, 2000). In addition, productivity growth, and consequently economic growth, is strongly influenced by the competition inherent in the birth and death, entry and exit of smaller firms. This process involves high job turnover rates, and churning in labour markets, which is an important part of the competitive process and structural change. Growing unemployment provoked alternatives as the German 'Ich AG' ('Me PLC') and other forms of start-ups. Less than half of small start-ups survive for more than five years, and only a fraction develop into the core group of high performance firms which drive industrial innovation and performance. In countries under development the situation is even worse; in Kenya e.g. only about a fifth of all start-ups survive the second year after the foundation (Tarus et al. 2013).

In Switzerland about 6% of the adult population try actively to start up a new company or are owner of company being less than four years old (Volery et al. 2005). This puts Switzerland in the upper middle field of European countries. About 10% of Swiss companies are owned by the same person for four years or more: this is the highest rating in Europe and world-wide and a sign of the high stability of Swiss companies. 84% start up a new business because they expect good business possibilities, 14% because they have no alternative in finding a job. The aspiration for starting up is quite high – four out of ten respondents (EOS Gallup Europe 2002); Statistics Canada (2006) mentions the lack of financial resources, administrative complexity, as well as the number of working hours as main barriers.

# 2.3.2 External issues – specifications

To get an insight into external issues, I analyse the importance and power of market of SMEs by literature review.

# 2.3.2.1 Importance of SMEs

Generally, large scale enterprises (LSE) evolve in the centre of economy on a supra-regional, national, continental or even global level, but are based in a specific country as public limited companies; exceptions are large local or regional public institutions such as hospitals, universities, administrations, and so forth. LSE manage their complexity by developing differentiated systems – for example, concept of leadership with differentiation of strategic and operational responsibilities, instrumental bureaucracy with permanent controlling, defined business culture, symbolic structure, and recognisable rituals (Baumann 2013, Latham 2013, Fueglistaller 2004b).

On the other hand SMEs are consigned to be peripheral to the economy. However, according to OECD (2010 a, c, 2005), UN (2004) and European Communities (2002), SMEs are considered to be one of the principal driving forces of economic development – and SMEs are driving not only in the industrialised North but also in countries under development of the South (e.g. Taurus et al. 2013, Jeppesen et al. 2012, Bowen et al. 2009). They are flexible and can adapt quickly to ever-changing market demand, they generate employment, help diversify economic activity and make a significant contribution to trade. A competitive SME sector is a precondition for sustainable development and responds to the demands of the globalisation. SMEs are drivers of competitiveness using networks which are indispensable elements for innovation. SMEs generate employment. Through job creation and self-employment opportunities, SMEs can successfully contribute to alleviation of poverty and exclusion of the unemployed population, especially in economically disadvantaged and/or rural and crisis affected areas (de Kok et al. 2013).

# 2.3.2.2 Power of market

Empirical evidence strongly suggests that economic growth is positively associated with an increased role of SMEs (OECD 2010 a, c, 2005, European Communities 2003a). The role of this engine can be best understood bearing in mind external impacts that SMEs have on the economy as a whole. SMEs serve as a vehicle for knowledge spillovers, which may become accessible and commercialised by large enterprises through technology transfer or acquisition. SMEs increase the amount of competition in the input market, particularly in terms of the competition for new ideas and human capital embodied in knowledge workers. SMEs increase diversity in the market, which can spill over to generate productivity increases in existing enterprises.

In comparison to large companies, I observed that SMEs are intensively confronted by market fluctuations, especially if they act in regional markets and have only restricted possibilities for expansion (e.g. building industry, holiday resorts). These fluctuations influence the climate within companies.

As new technologies and globalisation reduce the importance of economies of scale in many activities, the potential contribution of smaller firms is enhanced (OECD 2010 a, c, 2005, 2000). However, many of the traditional problems facing SMEs become more acute in a globalizing, technology-driven environment: for example, limited resources regarding capital, workforce, knowledge, negotiation power, lack of financing, difficulties in exploiting technology, constrained managerial capabilities, low productivity, and regulatory burdens. About one-fifth of manufacturing SMEs draw between 10 to 40% of their turnover from cross-border activities (OECD 2005, 2000). SMEs contribute between 25 to 35% of world exports of manufacturing and account for a small share of foreign direct investment. Relative to larger firms, SMEs can respond better to changing market conditions, evolving consumer preferences and shorter product life cycles by customising and differentiating products.

Globalisation facilitates and forces internationalisation of SMEs, because it decreases trade barriers and brings disadvantages in competition to companies only operating nationally (Lehmann 2003). SMEs need to find ways to tackle these challenges, because the challenges are likely to persist and even to increase in the future (European Communities 2003a). SMEs also profit from the increasing recognition of 'entrepreneurship' regarding the increasing scepticism against 'managerial behaviours' (Fueglistaller 2003a).

Medium-term developments show that, despite fluctuations over time, in SMEs – and in particular in micro and small enterprises – employment increased, whereas in LSE employment decreased (European Communities 2003a). This is remarkable as real turnover and value added growth have been smaller in SMEs than in LSEs. To a large extent this difference can be explained by the fact that SMEs are overrepresented in sectors with low productivity growth, like retail trade or farming.

SME co-operation is widespread and common in all sectors. Cooperation is associated more with culture, the personal orientation of the entrepreneur and the ability to overcome the fear of losing autonomy, rather than with country, sector or company size (Baumann 2013, Jeppesen et al. 2012, Fueglistaller 2004c, European Communities 2003a). Most co-operations between SMEs are market driven; SMEs have long-lasting partnerships with a limited number of regular partners and co-operation is linked to better performance. Start-up companies, however, have problems in finding confidential partners (Schillig 2003). By taking part in cross-border co-operation, SMEs contribute to the development of the border areas and facilitate to understand cross-cultural differences in the neighbouring countries.

# 2.3.3 Review of SME issues

Combining the large literature review concerning SMEs mentioned and the issues discussed above, I deduced the following specifications of SMEs describing them and their internal and external issues:

SMEs are companies with less than 250 employees – mainly with less than 10 employees. SMEs cover in most countries more than 90% of all companies and occupy more than half of the employees.

# 2.3.3.1 Internal issues of SMEs

SMEs are centred on the personality of the owner-manager / entrepreneur. The trend of individuals towards independence stimulates private ownership and entrepreneurial skills. Securing long-term survival or maintenance or cumulating of family assetks is more important than increasing market value. SMEs are characterised by multi-tasking, often combined with strength of innovation and great flexibility which can be used for adapting to opportunities which arise. The concentration of tasks produces complexity, which has to be managed by a small number of people. Procedures are often marked by informality, are less visible, less formal / articulated and bureaucratic in their core. Leadership and decisions often depend on qualitative and impulse driven attitudes and behaviours. Personal relationships are salient; communication and coordination depend merely on personal, often amicable relations. Culture is an outstanding element which generates specific forms of moral attitudes and behaviours. There is often a lack of personnel, financial and time resources – increasingly powered by a globalising, technologydriven environment. Progressively more SMEs' owners have difficulties finding a follower in top-management. SMEs regularly have problems with financial rating; the financing of start-ups is often guaranteed by seed or love money.

### 2.3.3.2 External elements

SMEs are the backbone of the market economy and one of the principal driving forces of economic development; they generate employment and contribute to alleviation of poverty. Increased employment is not equivalent to increased productivity, because SMEs are overrepresented in sectors with low productivity growth, like retail trade or farming. Small businesses are flexible and able to adapt quickly to changing market demand and supply situations. Globalisation decreases trade barriers and brings disadvantages in competition to only nationally acting SMEs; by diversifying their economic activity, they can make a significant contribution to exports and trade. SMEs are investing in networks of external relations; these networks become indispensable elements for innovation. Long-lasting and co-operative partnerships based on a limited number of regular partners provoke better performance. SMEs are vehicles for knowledge spillovers, particularly in terms of competition for new ideas and human capital embodied in knowledge workers; they contribute significantly to the regional and local development.

Applying the 'System of system methodology' (see Table 2.3, p. 54), the internal problem situation of an SME may be simple, but by including external and environmental issues, the situation may become quite complex. The degree of shared purpose amongst participant stakeholders is pluralist, and can be – depending on the environment – coercive. In relation to SMEs, I detected a number of gaps in research. Regarding internal issues, I found minimal data concerning the organisation and ownership of SMEs, SMEs and culture, as well as the use of processes, technology and knowledge management within SMEs; to be discussed are the influence of owner-managers and the differences between ownermanagers and employed managers, as well as the effects of the replacement of managers. Examining external issues, I find research concerning SMEs and market fluctuation is absent.

# 2.4 Morality of and within SMEs

In this section I discuss the definitions of ethics, morality, CSR and sustainability and as well as the employment of system approaches within the context of morality, SMEs and morality and the use of moral standards by SMEs.

Morality and ethics take an important place as guiding elements of and within companies. Generally, the first interest of any company is its economic survival, simply because the economic sustainability of an enterprise is the first precondition for pursuing any moral activities (European Communities 2003a). Traditional business views believe that apart from providing employment and creating wealth, companies will always look to shift to others the costs of damage they cause and will always fail to accept a share of the costs of social problems. As an alternative to these traditional sights, a new theoretical and political debate develops a positive relationship between social responsibility and the economic performance of companies. Companies involved in moral activities may obtain a number of business benefits from these activities. Additionally, research concerning influences of values on attitudes and behaviours demonstrates that values orientation has a positive impact on outcomes (e.g. Baumann 2013, Jeppesen et al. 2012, Luria 2008, Weawer and Treviňo 1999, Treviňo et al. 1998, McGregor 1960, Herzberg 1959, Maslow 1954).

An increasing number of organisations worldwide are intensifying their social and environmental awareness and advocacy efforts, but up to now there is no unifying definition of ethics and business (Sanders 2008). And in daily use and also in research, morality and ethics often are not differentiated.

For my research I reflect definitions of three internationally recognised researchers (Ulrich, P. 2008:31, Crane and Matten 2004:11): 'Morality' is concerned with norms, values, and beliefs embedded in social processes which define right and wrong for an individual or a community; 'morality' is part of the nature of human beings which builds up socially valid moral rights, duties and behavioural norms. 'Ethics' is concerned with the philosophical reflection of morality and the application of reason to elucidate specific rules and principles that determine right and wrong for any given situation; 'ethics' aims a universalistic and rational moral point of view. A 'value' is something that is important for an individual or group – often without defining whether it is morally or ethically 'good' or 'bad'.

I focus on 'moral' or 'morality' in connection with companies. Companies are communities which define ongoing rights, duties and behavioural norms, values and beliefs in their social processes. These issues are rarely defined and philosophically reflected in SMEs, so the broad use of 'ethics' may not be appropriate.

In past research concerning morality of companies concentrated on large firms; during the recent years, however, the analyses of SMEs and their morality increased especially in the United States and in Europe (Baumann 2013, Spence and Painter-Morland 2010). The examination of the world-wide SMEs' research shows that there is a parallel employ of the main issues, Corporate Social Responsibility CSR and Business Ethics BE – differing between countries and cultures (Fassin et al. 2014). CSR researches typically focus on impacts of corporations on stakeholders, and BE on ethical behaviours of companies and individu-

als. There is link between ethics and moral philosophy; CSR is more embedded in societal expectations of corporations (Blundel, Spence, and Zerbinati 2010).

Crane and Matten (2004: 8) define business ethics

"as the study of business situations, activities and decisions where issues of ethically right and wrong are addressed".

The term is not only used for commercial business, but for all organisations being involved in economy. For Crane and Matten (2007: 53) CSR

> "describes the activities of companies to live up to society's expectations, business ethics can be seen as the analytical tool ... to understand, conceptualise and legitimise the moral status of corporate policies, strategies and programmes".

CSR has become the mainstream expression for moral activities of companies. That is why supporting guidelines have been developed which have been brought together in a world-wide accepted ISO Standard ISO 26000 'Guidance on Social Responsibility', published end 2010 (details see 2.4.3, p. 97); as a member of the Swiss Mirror Committee, I had the chance to influence the design of ISO 26000. During an international ISO conference of November 2012 in Geneva with about 300 participants from hundred countries, I could discuss the future use and development of the standard and experience the influence of the different stakeholders (especially of consumers who had primarily motivated the preparation of the standard) (Bürgi 2013).

According to the tradition the International Standard Organisation aims providing every form of organisations, not only corporate; that is why the Standard only speaks of Social Responsibility<sup>16</sup>.

<sup>&</sup>lt;sup>16</sup> According to e-mails of the institution which coordinated the design of the Standard (SIS, Swedish Standards Institute -2011-02-02) and member of the German Mirror Committee (Kleinfeld, A. -2011-01-31)

# ISO 26000 defines SR as

"responsibility of an **organization** for the **impacts** of its decisions and activities on society and the **environment**, through transparent and **ethical behaviour** that

- contributes to sustainable development, including health and the welfare of society;
- takes into account the expectations of stakeholders;
- is in compliance with applicable law and consistent with international norms of behaviour; and
- is integrated throughout the **organization** and practiced in its relationships" (ISO 26000, 2010, p. 3).

In my opinion the definition in ISO 26000 is comprehensive and integrates human and physical environments as well as all stakeholders and internal elements of organisations. It thereby corresponds with the requirements of the SME model of my research. Therefore I use the internationally accepted ISO version as a basis of further reflections concerning 'SMEs and morality'. Because SMEs are intensively characterised by individuals (especially by the owner or top-manager), organisational issues have to be supplemented by attitudes and behaviours of individuals (e.g. as in the model 'honourable businessman', see Brink 2013).

There is a growing trend towards the integration of CSR and BE into an approach of sustainability and triple-bottom-line thinking (e.g. European Communities 2002).

'Triple-bottom-line' is a concept developed by Elkington (1999). It aims to balance a company's economic, environmental and social performance and refers to the integrative measurement of three elements.

Sustainability is related with the input to 'The Earth Summit in Rio de Janeiro of 1992' of the Bruntland Commission (World commission on environment and development) in 1987 (additional information see 2.6.3, p. 120). Since then sustainability has become a leading concept to specify the successful long-term performance basing on the balanced interplay of economic, social and ecological issues.

ISO 26000 (2010) defines sustainable development as

"development that meets the needs of the present without compromising the ability of future generations to meet their own needs" (4).

After intensive reflections within Globethics.net Workgroup 'SMEs, Ethics and Sustainability', the core group developed its own definitions (Training Concept – September 2013, p. 3):

Sustainability is

"A state of the planetary ecosystem, of which human beings and the man-made systems are a functional part, where nonliving and living nature, biological species, and humanity coexist in mutually beneficial interdependency and balance that can be sustained in a long-term",

and sustainable development:

"A development process that incorporates core ethical values and economic development based on economic vitality, justice, social cohesion, environmental protection and the sustainable management of natural resources, allowing the present generation to live a life in dignity and to meet their needs without compromising the ability of future generations to meet their needs and live their life in dignity".

In my opinion, sustainability can only putted into praxis, if human beings meet each other as subjects in reciprocal dignity and respect – allowing a common responsibility for all other creature, guaranteeing a common future of the Globe. By reflecting the ethic of humanisation within the liberation theology as option for the poor, Duchrow and Hinkelammert (2012) describe this attitude and behaviour by:

"I am, if you are. If you are not, I lose myself. If I kill you, I kill myself" (173).

and

"Do as God does, become a human being" (169).

The relationship between ethic, morality, social responsibility and sustainability and economic performance is often part of the (company) culture and not formalised. This is quite often a characteristic of family SMEs living traditional values and refusing any form of codification; and the practical morality of SMEs is often more sustainable than the intensive reflection about CSR in large companies (Baumann 2013, Brink 2013). "... bigger organisations can learn something from their smaller counterparts regarding the relationships between various ethical dimensions of organisational life" (Spence and Painter-Morland 2010, p. 336).

# 2.4.1 Morality and system approaches

By consequently applying functional systemic thinking, the vision of an ongoing interaction and communication of elements in selforganising systems suggests a paradigm of total determination (Maturana 2004). This theory is often combined with the idea of the stringent 'survival of the fittest' and the refusal of the possibility of spaces of freedom or influence capabilities and with that of morality. In company with other researchers (e.g. von Foerster 1991) Maturana developed a middle way:

> "Human beings are capable of describing a certain action as responsible... The experience of choice and decision, which we human beings make, does not at all contradict our structure

determinedness. Human ... may, however, by virtue of a perspective opening up in a meta-domain, make the experience that they have a choice" (Maturana 2004: 76).

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If we employ interpretive, emancipatory and postmodern system approaches, the problem of moral determination can be disregarded, because they integrate subjective and by that also moral issues. The interpretive approach provides for culture, integrative values and people's perception, the emancipatory approach for participation and common responsibility, and the postmodern approach for local issues and integration of marginalized groups and individuals.

# 2.4.2 Morality of and within SMEs

Research and models concerning the influences of values have been deduced from experiences with large companies, although moral attitudes and behaviours of SMEs differ significantly from those of large companies' practices. I have analysed a large number of articles and surveys concerning the interplay of SMEs and morality to identify specific characteristics of morality of and within SMEs (see below next pages).

According to some of these authors (especially Spence 2007), moral responsibility is for many SMEs just a new way to describe something they do already – investing in broader moral values whose benefits go beyond profit. In this context, moral responsibility is about building on existing good practice, maximising its impact and raising awareness among important internal and external audiences in a way that will help companies to become more competitive.

In this research, I apply a more pragmatic way to categorise the interplay of morality and SMEs. In addition to the general elements, I list a number of specific issues summarising the literature review concerning the moral attitudes and behaviours of SMEs: specifications as to size, region, and patents; motivating backgrounds such as personal interests, profit, and management systems; obstacles / barriers; and elements of internal and external activities; and attitudes towards the physical environment.

# 2.4.2.1 General characteristics – concentration on ownership

The vast majority of SMEs believe that they should pay significant attention to their social and environmental responsibilities (Baumann 2013, Jeppesen et al. 2012, Painter-Morland and Dobie 2010, Bader et al. 2007, DTI 2002). Many companies are engaged with at least part of the CSR umbrella, often not knowing this is what they are doing (Coutinho de Arruda et al. 2010, DTI 2002). CSR is not a strategic orientation of SMEs (Bader et al. 2007, Sneep 2007). In countries under development, the main underlying constraint to their growth is lack of corporate governance structure (Taurus et al. 2013, Jeppesen et al. 2012, Bowen et al. 2009, Mahmood 2008).

Because ownership, management and control are usually concentrated in the same hands, the entrepreneur plays a central and key role (European Communities 2002). That is why the personal preference of top management and owners is the most influential factor. From the point of view of the small business owner it is not `un-business-like' to acknowledge social issues, but in fact is quite a normal perspective for small firm owner-managers (Srinivasan 2010, Endo 2008, Bader et al. 2007, Perunicic and Alexandrova 2007, Sneep 2007, CERFE 2001, Spence rand Rutherfoord 2001). Baucus et al. (2010) discuss three surveys showing that entrepreneurs exhibit higher moral attitudes than managers.

# 2.4.2.2 Specifications

<u>Size:</u> According to European Communities (2002) SMEs social activities are positively related to enterprise size; very small companies have fewer activities than larger. Geographical region – urban / nonurban: Latin American SMEs are seriously concerned with the North-South inequalities, and regional social problems become more accentuated (Coutinho de Arruda et al. 2010). European Communities (2002) observe a North- South European partition; involvement ranges from 33 % of SMEs in France to 83 % in Finland. According to Baucus et al. (2010) small business owners in nonurban areas appear to have higher moral values than those in urban areas.

<u>Mission and strategy:</u> Enderle's (2004) balanced concept of the firm with the triple bottom line model asks for an approach basing on mission and strategy; his examples of world-wide acting companies emphasise this approach. In his literature review Inyang (2013) found a number of authors integrating CSR in company strategies of SMEs.

<u>Company culture and internal activities:</u> For CERFE (2001) CR is not only concentrated on the leader; implementing corporate citizenship has to do with the culture of the firm, with its 'social core'. All the people that work inside a firm or, in any case, on behalf of it are involved in pursuing its social objectives. The two case studies of Enderle (2004) highlight this importance of a common company culture. The survey of Baumann et al. (2013) with 14 Swiss SMEs showed that responsibility in general and engagement in CSR in particular was strongly integrated into the company culture, often implicitly in habits and routines rather than explicitly in job descriptions or formalized procedures.

<u>Supply chain management:</u> The SMEs within the analysis of Ciliberti et al. (2008) use a combined approach towards suppliers; they mix compliance with requirements and capacity building approaches. The results of Baumann et al. (2013) suggested a high awareness of global CSR issues and demonstrated a high level of perceived connectedness to raised problems in their supply chains.

<u>Industries:</u> No substantial differences between production and service have been ascertained (Spence and Rutherfoord 2001).

<u>Economic changes:</u> Because of their specific economic vulnerability the possibilities of SMEs for morality fluctuate through times of recession and boom (European Communities 2002).

<u>Use of intellectual capital and patents:</u> Enterprises practicing CR demonstrate a greater tendency to a more intensive use of their intellectual capital (CERFE 2001).

# 2.4.2.3 Motivating backgrounds

Drivers of initial and continuing SME engagement include personal interest and fulfilment, a desire to implement 'just good business practice', improved morale and motivation, giving something back to the local community and enhancing business reputation (Baumann et al. 2013, Inyang 2013, Jeppesen et al. 2012, Endo 2008, Bader et al. 2007, Sneep 2007, DTI 2002).

Baumann et al. (2013) and Spence (2003a) record that small business owner-managers are engaged in a wide range of social activities and their norms; morality, 'ways of living' cannot be divorced from attempts by others to affect their behaviour. Spence (2003b) enumerates three aspects which provide structures of social capital for the SME ownermanager: stabilising mutual expectations and enabling collective action (trust), forming a kind of insurance, and giving access to relevant information.

Laeis (2005) detects that owner-manager often blend entrepreneurial and private, or entrepreneurial and social involvement and are motivated by the responsibility for their family. Voluntary work is often given by the (female) partner (Laeis 2005, Spence 2003a).

CERFE (2001) observed that all the relationships, economic and non-economic, of a firm are essential for the practice of social responsibility. Enterprises practicing corporate citizenship tend to have closer relations with foreign countries. Furthermore, enterprises practising corporate citizenship tend to have slightly more foreign suppliers. Both case studies of Enderle (2004) take advantage of relations to partners and suppliers. The SMEs in Baumann et al. (2013) are aware of the problems within the supply chain.

Companies with profit-maximisation or subsistence priority can be triggered by legislation to act more morally against anti-social activities or encouraging recognition (Spence and Rutherfoord 2001). They recognise that moral behaviour can be profitable, and they may shift to enlightened self-interest; this observation is supported by surveys in America, Germany, South Africa and Vietnam (Jeppesen et al. 2012, Bacus et al. 2010, Bader et al. 2007).

Enterprises' orientation towards quality systems could be considered as an indicator of the level of the growing complexity of their social core (CERFE 2001). The fact that an enterprise devotes its resources to monitoring aspects of its activity that determine the quality of its product or service, means a greater awareness of the mechanisms and dynamics that regulate its internal and external conduct. The case study of Enderle's (2004) producing Swiss firm also uses the advantages of an (environmental) management system with its integrated controlling elements to support the moral balance of the firm.

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Werner (2006) detects an active Christian context providing Christian SME owner-managers with distinct conceptual and linguistic resources; these resources lead them to frame their practices in a highly distinctive way which can have far-reaching implications for their carrying out of business activities. However, Bader et al. (2007) observe that religion is minimal motivation for CSR of SMEs.

### 2.4.2.4 Barriers, obstacles

For Smekey (2003) barriers for external moral behaviours are lack of time and motivation, insufficient resources or capabilities, no knowledge for engagement in social responsibility or inability to see suitable opportunities, not being in touch with local needs and a perception that community involvement is not related to business. Inyang (2013) and Polášek (2010) present additionally in similar lists: cost of implementing, lack of awareness of benefits, no systematic incentives or frameworks, lack adequate support services, absence of public pressure, and fear of additional regulatory and bureaucratic burdens.

European Communities (2002) supports these views; the main reason suggested by SMEs for not getting involved is simply because they have never considered the possibility of engaging in such activities (24 % of responses), and 17 % of the total respondents argue that external social activities are 'not related to the enterprise's activities'. Bader et al. (2007) mention the lack of personal and financial resources as barriers. Similarly, for Baumann (2013) SMEs have internal characteristics favouring the implementation of CSR; however, they are weak in external communication and reporting because of lack of resources.

Another obstacle could be the way of building a consensus in discourse which may be in opposition to the charisma of the entrepreneur (CERFE 2001).

Studer et al. (2005) detected that in Hong Kong a lack of stakeholder demand was the main barrier that prevented SME respondents from undertaking voluntary environmental initiatives. Lai (2006) enumerates a lot of barriers for CSR in China leading to ignore workers' rights and labour standards and only acquire short-term economic benefits: Fierce competition, TNCs' race-to-the-bottom pricing strategy, the desire to make as much profit as possible without respecting the social and environmental aspects of society, to lose control and insufficient law enforcement, not enough advocacy and monitoring activities of NGOs, and a low awareness of CSR.

### 2.4.2.5 Elements of activities

SMEs tend to be focused on internal issues; many of their responsible business practices therefore concentrate on staffing issues, increasing employee skills and team building as well as on morale and motivation within the organization; much of their social, community and environmental initiatives are therefore driven by or, focused or designed to impact on employees, optimal interplay between occupation and family and guaranteeing workplace (Baucus et al. 2010, Coutinho de Arruda et al. 2010, Painter-Morland and Dobie 2010, Polášek 2010, Spence and Perrini 2010, Collins 2008, Bader et al. 2007, Perunicic and Alexandrova 2007, Sneep 2007, Laeis 2005, DTI 2002). Baucus et al. (2010) mention a survey showing that SME owners were less likely to abuse power, and were more likely to emphasize caring and independence dimensions of moral climate than other people.

SMEs rely on the stability and prosperity of the local communities in which they operate, since most of their clients and the majority of their employees come from the surrounding area (European Communities 2002). The enhanced possibilities of personal contacts can build trustful and open business partnerships, improve customer loyalty and optimise relations with the general community and public authorities (Jeppesen et al. 2012, Coutinho de Arruda et al. 2010, Painter-Morland and Dobie 2010, Polášek 2010, Spence and Perrini 2010, Collins 2008, Bader et al. 2007, Spence 2003a, European Communities 2002).

Local community, sporting and cultural activities profit of donations, sponsorships and honorary of SMEs (Coutinho de Arruda et al. 2010, Polášek 2010, Collins 2008, Bader et al. 2007, Sneep 2007, Laeis 2005, Spence 2003b, Smekey 2003, European Communities 2002, and CERFE 2001).

Spence (2003b) mentions networking within sectors which were wide ranging, including exchange of information, borrowing of equipment, recommendation and subcontracting, and networking across sectors, especially of neighbouring firms (e.g. common leisure).

Painter-Morland and Dobie (2010) identified in their survey concerning African SMES specific terms 'honesty', 'straight dealing', 'not cheating', 'proper accounting' and 'honest taxpaying'; Baucus et al. 2010 mention similar attitudes in the U.S. Hug et al. (2006) investigated a specific element of these issues – the role of 'trust' in Switzerland: All interviewed companies notice that 'trust' is essential in relations to suppliers; 'trust' as a part of communication becomes substantial within employees' behaviours and mouth-to-mouth marketing.

Some companies identify business benefits from moral activities. Three quarters of the companies are able to identify business benefits derived from their involvement in external socially responsible activities (European Communities 2002). In opposite Perunicic and Alexandrova (2007) observe that companies in general do not seem to find economic benefits behind the engagement in CSR.

CSR activities are not considered as part of marketing (Sneep 2007). Owner-managers generally do not want that their activities are known in the public (with the exceptions of banks and PR companies) (Bader et al. 2007, Laeis 2005).

Moral responsibility of SMEs towards the physical environment is characterised by a dichotomy: The firms seek for sustainability (Jeppesen et al. 2012, Polášek 2010, Spence and Perrini 2010, Perunicic and Alexandrova 2007, CERFE 2001), but often focus only on fulfilment of legal requirements because of restricted resources (workforce finance, time, education) (Jeppesen et al. 2012, Coutinho de Arruda et al. 2010, Polášek 2010, Spence and Perrini 2010, Williamson 2006, European Communities 2002, Friedman et al. 2000).

Other important reasons for SMEs to engage in environmentally responsible activities include market demands (basically through subcontracting relationships) or the strategic choice to obtain certain competitive advantages in comparison to competitors (Bader et al. 2007, European Communities 2002), the increasing prices for energy and raw materials (Bader et al. 2008) and the satisfaction of the requirements of Non-Governmental Organisations NGOs (European Communities 2003a).

#### 2.4.3 Ethical standards and SMEs

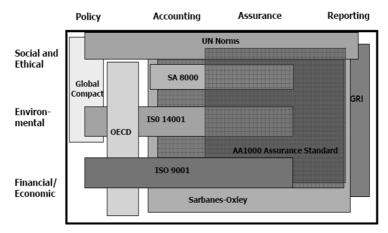
After listing the findings concerning SMEs and morality, I reflect the relation between SMEs and ethical standards. With Spence and Painter-Morland (2010), I notice a minimal use of ethical standards by SMEs. That is why my research concentrates on two ethical standards having an approach for SMEs – ISO 26000 'Guidance on Social Responsibility' and on SA 8000 'Social Accountability'.

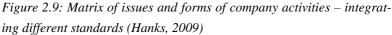
The development of ISO 26000 is an important stage of realising a common view of a great number of (often national) ethical standards which have been developed in recent decades (comparisons and details found in Castka and Balzarova 2007, Goel 2005, Tecanti et al. 2004, Sacconi et al. 2003, ZfW 2001).

In 2004, ISO launched a new standard (Casta and Balzarova 2007, ISO Central Secretariat 2004) to be developed by experts from more than 90 countries and 40 liaison organisations (ISO 2010). ISO 26000 is to be a guide, and is not certifiable. Therefore it is very large and comprehensive and is "intended to assist organizations in contributing to sustainable development "(1).

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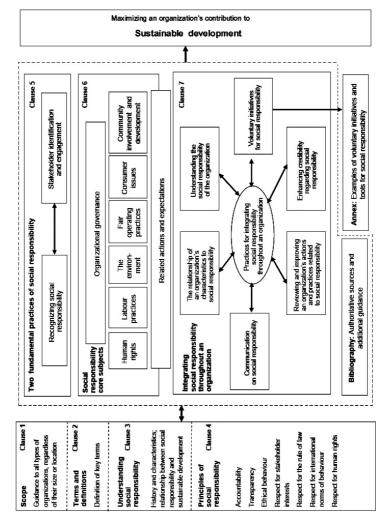
Hanks (2009) positions different standards<sup>17</sup> in a matrix with affected issues (Social and Ethical; Environmental; Financial / Economic), and matching forms of company activities (Policy; Accounting; Assurance; Reporting) (Figure 2.9). Some standards only affect one issue, others more issues; as well as some standards only concern one activity, others more. The positions of ISO 9001 for quality and ISO 14001 for environmental management systems will be discussed in 2.5.3, p. 105ff. ISO 26000 aims to cover all issues of the matrix being implemented in all forms of activities.

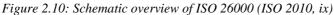




By contrast the next scheme, Figure 2.10, presents the contents of ISO 26000 and reflects the complex interrelationships between organisations and SR (ISO 2010). In Box 3, ISO 26000 gives special advices for the employ in small and medium-sized organizations (SMOs).

<sup>&</sup>lt;sup>17</sup> The mentioned standards are shortly presented in Annexes 6.1.





Some of them propose practical issues to implement SR. SMOs take advantage of flexibility and informality, if they provide appropriate levels of transparency. A regular review of the core subjects of the Standard (see Figure 2.10 within Clause 6) allows identification of the relevant issues of the organisation, especially those with greatest significance to sustainable development. The realisation of these issues needs planning and possibly assistance from appropriate government agencies and collective organisations. Where appropriate, collective actions with peer and sector organisations will save resources and enhance capacity for action.

ISO and national bodies propagate the standard; e.g. the Swiss Mirror Committee has edited information and offered since 2011 a number of seminars and projects especially for SMEs<sup>18</sup>.

ISO 26000 wants explicitly to be guidance, and as such it is not certifiable. Meanwhile there is a growing desire for a certification according the standard. Austrian Standards published in 2011 with ONR 192500 a certifiable version (Austrian Standards 2011)<sup>19</sup>. The ISO 26000 conference of November 2012 took no clear position concerning certification; some were strictly against, some intensively for (Bürgi 2013); however, there were intensive desires for methodologies for the evaluation of SR activities, for simplifying the standard and for trainings.

The SA 8000 standard is a voluntary global code on labour standards; it can be audited and employed for all sectors. It was developed in 1996 and sets standards for child labour, forced labour, health and safety, freedom of association and the right to collective bargaining, discrimination, disciplinary practices, working hours and compensation (actual version: SA 8000:2008 – SAI 2008a). By July 2013, 3,231 facilities from 72 countries had been certified; 2152 or 67% of them had fewer than 250 employees (SAI 2013); the annual growth since 2010 has been about 15 %. Most certified companies were situated in Italy (1068), followed by India (733), China (522), Romania (231), Bulgaria (94),

<sup>&</sup>lt;sup>18</sup> E.g. The Universities of Applied Science of Zurich and Lucerne are implementing a project with four SMEs using ISO 26000 issues and concentrating on stakeholders' integration (Christen Jakob and Winistörfer 2013).

<sup>&</sup>lt;sup>19</sup> Besides the Austrians also others countries and organisations offer certifications (e.g. Danmark, IQ-Net, Codethic).

Brazil (80), Vietnam (79) and Pakistan (62). As with the research of Ciliberti et al. (2008), I got to know from contacts with different companies, that SMEs that are part of a supply chain are mainly following SA 8000 to declare their employ of fundamental CSR requirements; websites of the leading Swiss chains of general stores (www.coop.ch/nachhaltig, www.migros.ch) inform that they cooperate with SA certified companies under development countries.

### 2.4.4 Review of morality issues

By summarising the literature review I typify a number of moral attitudes and behaviours of SMEs: as Social and environmental responsibility matters for many SMEs. Morality issues concentrate on employees and their families, as well as on local communities, business partners, and the physical environments. Morally motivating backgrounds include personal interests, responsibility towards the family, giving something back to the community and business reputation. Because ownership, management and control are mostly concentrated in the same hands, the personal preference of top management and owners is the most influential factor. Moral attitudes and behaviours can also be influenced by size, geographical region, economic situation, use of strategies, and company culture. The use of management systems may also be an influencing factor. Main barriers for moral behaviour are lack of time and motivation, insufficient resources or capabilities, missing knowledge for engagement in social responsibility or inability to see suitable opportunities, not being in touch with local needs and a perception that community involvement is not related to business.

# 2.5 SMEs and (standardised) management systems

After the reviews concerning SMEs, and morality and SMEs, I examine the literature related to the third element, (standardised) management systems. Reflecting on the distinction of Cabrera, Colosi and Lobdell (2008) between 'thinking about systems' and 'systems thinking', management systems relate to 'thinking about systems'. However, in my research, I try to examine management systems with methods of 'system thinking'.

ISO 9000:2005, the leading International Standard for quality management, defines management as "coordinated activities to direct and control an organization"(8), and management system as a tool that aims "to establish policy and objectives and to achieve those objectives" (8).

Because a significant proportion of SMEs have neither a formal policy<sup>20</sup>, nor any written objectives and specified procedures, I propose to define 'management systems' as company structures that may have emerged informally but having the aim to guarantee, and optimise for long-term objectives, the company's activities and its sustainable performance.

Applying this definition, management systems contain mainly steering issues. Also moralities have a steering – or better: a guiding – character; in SMEs, however, moralities often act informally. Steering is intensively related to a functionalist approach of system thinking, of addressing as well efficiency concrete issues, as well reflecting on systemic methods. Based on my previous reflections (see 2.3.3), I acknowledged a hermeneutical interpretation of SMEs, where organisation is evaluated and characterised by a postmodern approach.

To get a comprehensive illustration of management systems, I start this section with a short insight into management theories, followed by reflections relating to visions and strategies, an overview of issues concerning (standardised) management systems, and finally by an examination of the relations between management systems and morality.

<sup>&</sup>lt;sup>20</sup> This view is underlined by a survey of PostFinance of November 2011 with 500 SMEs in Switzerland (see Frey 2011): In 47% of micro, in 38% of small and in 23% of medium companies strategies were registered in managers' brains; only 19% of micros had a business plan and 14% a strategy paper.

#### 2.5.1 Insight into management theories

The design of management theories are grounded in different backgrounds from physics, sociology, philosophy and psychology. They allow an explanation of possible elements of managerial behaviours.

Dahlgaard and Dahlgaard (2006) observed within their literature review various approaches of management theorists. Most authors agree that the main functions of management processes involve planning, setting standards of performance, coordinating, communication, evaluating, influencing people, and processing information. Differences between theories relate to the time the definitions were developed; older definitions mainly focus on organisational goals (rather functionalist), while newer focus on the concept of strategies and the role of managers (trend to interpretive).

Merchant and Simons (1986) identified six different management approaches:

**1.** The *bureaucratic and mechanistic view* uses primarily formal mechanisms to standardise and influence behaviours, assess performance, and monitor undesirable deviations from the standard.

**2.** From a *cybernetic view*, every process is seen from an information processing view and considered as information-based activity. The core idea of the cybernetic view is a system's self-regulating ability based on feedback loops.

**3.** With the *agency view* an organization is regarded as a unity where agency relationships between a principal and agent are central elements.

**4.** The *human resource view* is inspired by literature related to the human resource field.

**5.** A central premise of the *contingency view* is that there is no universal 'single best' approach which is applicable to all organisations, or can applied in all circumstances.

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**6.** The *cultural view* accents that all ideas about organizations and related issues are socially constructed.

In his 'Four Levers of Control Model', Simons (1995) identifies four different types of balancing control mechanisms in an organisation in order to deliver the business strategy. Two of the four levers increase individual freedom (beliefs systems inspiring new opportunities and interactive control systems stimulating organisational innovative learning), and two restrict individual freedom (boundary systems defining limits of possible actions and diagnostic control systems specifying controllable goals). The right mix of control systems depends partly on environmental factors like the predictability and complexity of the market in which the organisation is operating.

Latham (2013) develops a framework for leading transformation to performance excellence (LTPE). The framework is organised into five interrelated categories: Forces and facilitators of change, Leadership approaches, Leadership behaviours, Individual leader characteristics, and Organisational culture. He discusses his framework with some current leadership theories including transformational (enhancing motivation, morale, and performance of followers by integration) and transactional (motivating followers through a system of rewards and punishments) leadership, servant (sharing power and comprehensive empowering of people) and spiritual (creating an intrinsically motivated, learning organization that maximises the triple bottom line – based on the values of altruistic love) leadership.

Management theories support the analysis of companies' attitudes and behaviours; according to my information, however, there is minimal research about their use in SMEs. I experience two main reactions of managers of SMEs attending seminars of management gurus; one group speaks about useless theories; the other, smaller group, is impressed and tries to implement ideas, often using immense resources with minimal success.

### 2.5.2 Mission, strategies, culture / traditions and SMEs

Management theories are goal-orientated; the employment of 'vision', 'mission' and 'strategies' become daily usage. Management literature, however, uses the terms extensively, but rarely characterises them. DeFeo (1998) speaks of confusion between vision and mission. The revised guidance of ISO for quality management 'Managing for the sustained success of an organization – A quality management approach (ISO 9004:2009)' explains 'mission' as "the description of why the organization exists" (3), while 'vision' is "a description of its desired state, i.e. what the organization wants to be and how it wants to be seen by its interested parties" (3).

Key strategies represent the fundamental choices to reach the vision. They should cover the main areas of business: customer relations, costs, internal processes (including suppliers and competitors), and culture (including values and / or traditions concerning society and sustainability). Modern approaches to strategy use systems models to consider more effectively the complexities of the world and strategies (Borawski 2007).

A mission statement clarifies the purpose for existence of a company. 'Mission statements' are uncharacteristic to SMEs (Frey 2011); however, companies using management standards such as ISO 9001 or ISO 14001 are forced to formulate their 'quality or environmental policy' which often contains elements of a mission or at least of strategies. Changed market demands and increasing market pressure force SMEs to formalise their procedures initially and subsequently to integrate these into a system of reflected vision or mission and strategies.

Kaplan and Norton (1996) use their 'Balanced Scorecard' BSC tool to cover the circular interplay of vision or mission, strategies, objectives,

action plans and control. A BSC is a multidimensional framework integrating financial data with other key performance indicators. It helps companies to translate their mission and strategies into measurable objectives that go beyond a narrow focus on financial figures. BSCs include measures with regard to financial performance, customers, internal business processes as well as learning and growth. They help enterprises to adopt a long-term perspective, to secure future competitiveness and to guide individuals, departments and the whole company towards continuous improvement and innovation. BSCs are used in all types of companies. I have big experience in successfully implementing BSCs in a large number of SMEs (e.g. Bürgi et al. 2001); as a consultant I propose BSC as a basic tool to implement management systems combined with the advice to integrate issues of values and culture. As a member of the revision committee of the guidelines for quality management of Swiss Tourism Association, I could bring in BSC as a recommended tool for the implementation of ISO 9001 (STV-FST 2012); and within the Globethics.net SME work group, we propose BSC as a methodology to define mission, vision, values and strategies allowing a comprehensive and sustainable evaluation of activities. However, the effects of the use of BSC in SMEs are not examined by research.

Using the reflections of Schein and others (see 2.3.1, p. 68) Pohl (2007: 102) typifies corporate culture as

"an organisation's unique body of knowledge that is nurtured over a long period of time resulting in commonly held assumptions, values, norms, paradigms and world views".

Management and staff identify increasingly with mission, strategies and values if corporate culture is combined with CSR and branding. The culture of successful SMEs is characterised by strategies connecting traditional values with innovative strengths (Latham 2013, Capelossi 2007, Fueglistaller and Fust 2006). According to my experience, small and micro companies have rarely formulated missions and strategies. They are characterised by informal elements grown from the companies' culture and traditions. Changed market demands and increasing market pressure forces SMEs to formalise their procedures and later to integrate them into a system of reflected vision or mission and strategies, often using tools like ISO 9001. However, there is insufficient documentation and research to ratify this observation.

#### 2.5.3 (Standardised) management systems and SMEs

After a short discussion of management theories and missions, visions and strategies, I focus my examination on (standardised) management systems.

As already mentioned, I define a management system as a more or less formal interplay of the internal and external elements of a company and their steering elements to set purposes and achieve them. Management systems follow functional approaches because of their history and their axiomatic purpose as well as effectiveness and efficiency orientation. Every company has its own specific management system. In a smaller company it may not be formalised, being the result of evolved leadership and culture. Larger companies may have sophisticated computer based systems using frameworks of standardised elements.

A management system, examined with methods of 'system thinking', normally consists of different subsystems, each addressing issues such as company planning, quality management, financial management, human resources, safety and security, or environmental management. The overlapping of most of these systems encourages companies to integrate them.

Most organisations define at least informal procedures to clarify commonly applied practices and responsibilities. A certain formalisation is forced by external requirements of investors (e.g. business plans), customers (e.g. contracts), suppliers (product/service requirements) and public administration (e.g. taxes, health and safety). With larger companies, differentiated formalisation can be expected. Shop floor procedures for standardising daily activities are optimised by a 'roof' containing their relations to companies' mission and strategies; their interplay allows achieving planned objectives.

# 2.5.3.1 Company designed management systems

As already mentioned, companies generally have their own grown management systems. Mostly they may have started with fragments of shop floor procedures and structure of responsibilities. These fragments are optimised and grow, quite often, into comprehensive systems.

There is minimal research on such developments. My research surveyed a number of SMEs with company designed managements systems; this allows me to speculate and hypothesise as to the most effective method of development. At the very least, the relatively small number of companies using standardised and certified management systems world-wide suggests that the great majority have at least initial states to their own systems.

### 2.5.3.2 Implementation of standardised management systems

Before discussing the application of standardised management systems by companies, 'standard' has to be defined. According to ISO/TC176 (2004), a standard is

"a document, established by consensus and approved by a recognized body that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results..." (363).

Management system standards, such as ISO 9001 (Quality management systems – Requirements) or ISO 14001 (Environmental management systems — Requirements with guidance for use), are familiar (West 2007b). While many standards are product related, management system standards are quite different. They provide requirements (ISO 9001 and ISO 14001) or guidance (ISO 9004 and ISO 14004) for the management system an organisation uses to attain particular types of results. The realisation of the requirements is checked by internal audits and an external certification body.

Since the middle of the 1980s standardised management systems have diffused world-wide. In December 2012 over 1.101.272 companies in 184 economies had been certified according to the quality standard ISO 9001 (an increase of 2% over the previous year and nearly 140% over 2000) and 285.844 in 167 economies according to the environmental standard ISO 14001 (an increase of 9% over the previous year) (ISO 2013). The top three countries for the total number of ISO 9001 certificates issued were China, Italy and Spain, while the top three for growth in the number of certifications for ISO 14001, followed by Japan and Italy; and the top three for growth were China, Spain and Italy.

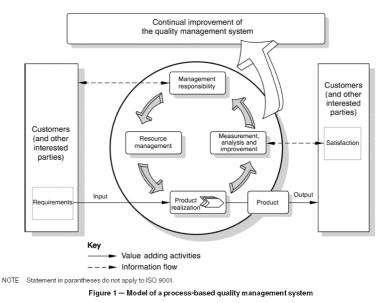
Besides the two main management system standards (ISO 9001 and ISO 14001), ISO and other organisations released a number of other standards as for health and safety (OHSAS 18001), food (ISO 22000), risk management (ISO 31000), automotive sector (ISO/TS 16949), medical devices (ISO 13485), and information security (ISO/IEC 27001).

There is minimal research concerning the reasons for the specific development of the number of certificates in regions and countries. Certificates are taken as evidence for quality and environmental correctness; this may explain the increasing number of certifications in developing economies. At the end of last century, certifications in the U.S. were increasing to get easier access to the European market accompanied by critics concerning the abuse of ISO 9001 as non-tariff trade barrier (Bürgi 1999). In Europe, certification was employed as a marketing tool, until quality of product and services became basic requirement for supplying. In Switzerland, public administrations required ISO certification to get contracts, therefore construction companies tended to implement only sophisticated management systems (see also Findings 4.4.5, p. 255f.).

Because a company and its internal and external relations are highly complex, its management system cannot follow linear procedures because it comprises a network of interrelated cyclic or linear processes and sub processes. This factor was reflected within the standards' revisions (ISO 9001:2000 and revision 2008; ISO 14001:1996 and revision 2004) giving an understanding of the business through an interrelated process approach<sup>21</sup>. Both standards are characterised by effectiveness and efficiency aimed at survival (ISO 9001: company – ISO 14001: company and physical environment) and accompanied by integrated ongoing adaptation by using the Deming circle (plan – do – study / check – action). These issues characterise the standards as functional. The standards, however, give the companies quite a lot of free space for their implementation (ISO 9001:2008 – 0.1; ISO 14001:2004 – 4.1 / 4.2); that is why also interpretative and postmodern methods may be employed.

The systemic process approach of the ISO 9000 family is visualised by a model of two cybernetic circles which are finally governed by the top management (ISO 9000 – Figure 2.11).

<sup>&</sup>lt;sup>21</sup> ISO 9001:2008 – 0.2: "An advantage of the process approach is the ongoing control that it provides over the linkage between the individual processes within the system of processes, as well as over their combination and interaction".



*Figure 2.11: ISO 9000: Model of process-based quality management system (ISO 9000:2005)* 

The two circles are:

External / internal circle: The communication of Management with Customers (according to ISO 9001) or Interested parties<sup>22</sup> (according to ISO 9004) and the commitment to legal obligations defines inputs for Product realisation. The Product (or Service) becomes the output to achieve Customers' or Interested parties' satisfaction. The exchange of information between Costumers and 'Measurement, analysis and improvement' produces inputs for the controlling within Management. The Management again exchanges the adapted information with Customers' or Interested parties' to optimise the definition of requirements ...

 $<sup>^{\</sup>rm 22}$  The term 'interested parties' used by ISO 9004 is equivalent to 'stakeholders' in business thinking.

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Internal circle: The Management defines policy and objectives providing Resource management. The resources allow Product (and Service) realisation. The results become input for 'Measurement, analysis and improvement' which becomes the input for 'Management responsibility' ...

ISO 14001 follows a spiral indicating continual sustainable improvement. The process starts with commitment to implement an environmental management system followed by the definition of the Environmental policy, Planning, Implementation and operation, Checking and corrective action, and Management review as shown in Figure 2.12.

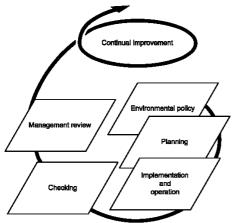


Figure 2.12: Basic model of ISO 14001 series (ISO 14001:2004)

'ISO/IEC Directives, Part 1 – Consolidated ISO Supplement – Procedures specific to ISO' of 2012 defines in 'Annex SL (normative) – Proposals for management system standards' a new structure for all ISO management systems integrating the risk analysis of the organisation's environment (ISO/IEC 2012). That is why new versions ISO 9000, 9001 and ISO 14001 are on the way to be published in 2015.

As noted earlier, while separate quality, environmental and health and safety management systems concentrate on specific parts, their conjoint implementation can interrelate and give reasonable comprehensiveness and allow to integration of a company's management system (e.g. Duffy 2007, Liebesman 2007, Shipley 2003, Petrick 2002). ISO 9001 covers everything in the organisation relating to quality, including products and services, processes, operations and by these provide customer satisfaction. ISO 14001 concentrates on the handling of products, wastes and emissions, and the effects of those outcomes on the physical environment; it achieves the confidence in the organisation's capability to satisfy the environment-related needs, expectations and requirements of the relevant interested parties. The health and safety models like OHASAS 18001 aim to prevent psychological and physical harm of management and staff caused by activities of companies.

Logically the subsystems may not be separated. Management for satisfactory environmental quality of products is part of quality management as well as of the management of the social and physical environmental. Likewise for occupational health and safety management, safety characteristics of products must be indicated as quality characteristics. The uses of the standards provoke moral attitudes and behaviour which is strengthened by their interplay.

In the United States ISO 9000 is used as a tool to achieve the requirements of The Sarbanes-Oxley (SOX), Act of 2002 – the U.S. government's response to the financial scandals at Enron, WorldCom, Tyco and other large companies under the purview of the Securities and Exchange Commission (SEC) (Liebesman 2008, Liebesman 2007, Hofmann 2005, Stimson 2005b, Arter and Russel 2003, H.R. 3763 2002). Using ISO 9001 as a tool for implementation of SOX, financial elements are integrated in a standardised quality management system.

According to Duffy (2007) a truly integrated management system has to satisfy three principles: customer focus, process improvement and total involvement – issues often summarised as characteristics of TQM. Zairi and Baidoun (2003) reflect on the basis of a large literature review fundamentals of a comprehensive TQM:

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1. 'Soft' quality factors such as leadership, employee involvement and quality policy development are long-term issues of a company. Their implementation must be supported by 'hard' quality factors to achieve the company goals. These 'hard' quality factors include: benchmarking, managing by processes, selfassessment, quality control tools, cost of quality process, documented quality management system, supplier management, and customer management.

**2.** The integration of marketing, design, purchasing, operations, and quality assurance is necessary for success in TQM. The concept of internal and external customers or suppliers forms the core of total quality.

**3.** A key part of any total quality strategy is the management of processes. The fundamental factors that are absolutely essential to a successful TQM implementation are: top management commitment, clear mission statement and focus on the customer needs. These are aligned with a sound company culture.

**4.** TQM is a strategy for change in an environment where the accepted paradigms are subject to constant challenge.

Both definitions concentrate on customers and suppliers as well as on internal issues to optimise company's activities. A really integrative and comprehensive TQM definition, in my opinion, has to explicitly integrate all sorts of stakeholders (as employees, customers, public, neighbours, finance, and physical environment) beneath the different internal issues (including moral / sustainable attitudes and behaviours).

TQM models like the European EFQM Excellence and the US American MBQNA (EFQM 2013, 2009, 2003, Baldrige National Quality Program 2013, 2006) as well as models for comprehensive risk management based on the Triple Bottom Line Model (e.g. Schiegg 2005) try to balance economic, social and ecological elements and aim to be allembracing. Likewise the ISO 9000 quality management standards series Guidelines (ISO 9004) broadened requirements of interested parties and finance and so target greater inclusivity (Russel 2004, Russel 2003, Seaver 2002); with the revision of 2009 this purpose was intensified and explicitly integrated moral elements as well as sustainability (ISO 2009, ISO 2007b, ISO 2005a). And an ISO census of October 2010 with nearly 12.000 companies from 122 using ISO 9001 and ISO 9004 showed an increasing integration of other management systems, especially ISO 14001 and OHS (ISO/TC 176/SC 2 2011).

The long-term value of any standardised management system is guaranteed by its rigorous implementation and continuous improvement. Explicitly QMS, EMS and OHS standards ask for such control because their use strictly aims to prevent harm of the physical environment and human lives. Independent assessment by a certification or registration body is a source of assurance that an organisation has a sound management system effectively addressing compliance, provided that the audit is performed by a knowledgeable and qualified person (Briggs 2005). Certification or registration of management systems may give confidence in the management system, but does not guarantee that products meet applicable product related standards (West 2007b). Society expects auditors to be free of conflicting interests. If an auditor's integrity is questionable, the auditing organisation will lose creditability in the eyes of its customers, its competitors and society (Arter and Russel 2003).

In the nineties, because the majority of the certification bodies or registrars were using clearly defined audit checklists interpreting the standards, many companies built their systems according to the requirements of the bodies or registrars, often by over-documenting their procedures and systems and leading to sub-optimal performance (Seaver 2002, Calibot 2001, Seddon 2000). Using ISO 9000 only as a checklist for certification has corrupted the whole core idea of the standards (Gor-

don 2002). Dearing (2007)<sup>23</sup>, Martinez and Martinez (2007), van der Wiele et al. (2005), Martinez and Martinez (2004), Micklewright (2004), Arthur and Russel (2003), Stratton (2002), Wade (2002), Tricker (2001), Wagenbach (2001), Bürgi (1999) and Brown et al. (1998) confirm this distressing development often mentioning additional issues such as reduced interest and knowledge of auditors and certification's fees. For years, the problems concerning the quality of third party auditing have been regularly discussed within the meetings of NK 140 for quality management of the Swiss Standard Association; however, there is no actual corresponding research.

The IAF International Accreditation Forum regulates and controls activities of the national accreditation boards (Bürgi 1999). To optimise third party auditing, ISO published in 2006 a particular standard for certification bodies or registrars ISO 17021, Conformity assessment — Requirements for bodies providing audit and certification of management systems (ISO 2006b). Already in 2002, a specific standard for the improvement of companies' internal audits was edited: ISO 19001 – Guidelines for quality and/or environmental management systems auditing (ISO 2002a); a first revised edition of the standard was edited in 2011 (ISO 2011). As a lead-auditor of management systems since 1996, I have experienced that the Swiss National Accreditation Board (SAS) is intensifying ongoing the controlling of certification bodies.

After these general reflections concerning management systems<sup>24</sup>, the use of these systems within SMEs is discussed.

<sup>&</sup>lt;sup>23</sup> Dearing presented his experiences in Quality Progress, February 2007 (Journal for all Members of ASQ American Society of Quality). He got six feedbacks mainly mentioning negative experiences with third party auditing (*Quality Progress*. April 2007: 8-12).
<sup>24</sup> Continuative literature concerning the development and use of different stand-

<sup>&</sup>lt;sup>24</sup> Continuative literature concerning the development and use of different standards and TQM models see: EFQM (2009, 2009a, 2003), ISO (2009a, 2005b, 2004a, 2004b, 2002b), Campbell (2008), Jaecklin (2008), Liebesman (2008), OHSAS (2008), Briggs (2007), EKAS (2007), Seghezzi et al. (2007), Watkins (2007), Werner (2007), West (2007, 2002), Surak (2007), Baldrige (2006), Gupta (2006), Medhurst and Richards (2006), Russel (2006, 2005, 2004a,

### 2.5.3.3 SMEs and standardised management systems

Because quite a lot of SMEs are suppliers of end-producers or public administrations, many of them have been forced by their customers (since the early nineties) to introduce standardised quality management systems according to ISO 9001. If SMEs have impacts on the physical environment, they often also implement standardised environmental management systems according to ISO 14001.

Because the ISO surveys to not distinguish between companies' sizes, there is no comprehensible data available concerning SMEs using the Standards. EFQM and MBQNA also introduced specific models and awards for SMEs, but the numbers of applicants do not allow illustrating a valid number of users. However, there is quite a lot of literature concerning the effects of the use of managements systems like ISO 9000 and ISO 14001. Most of it concentrates on external and financial effects; in discussing ISO 9000 it often refers to the use of ISO 9001:1994. Besides the research of the author (Bürgi 1995 and the results this research) relatively few surveys control internal effects<sup>25</sup>.

The literature review shows, that the effectiveness of implementation and use of standardised management systems is related to the motivation

<sup>2004</sup>b),Pivka and Zmulej (2004), Cianfrani (2002), Fleming (2002), Seaver (2002); Smith (2002), Wade (2002), Antilla and Vakkuri (2001), Callibot (2001), Monich (2001), Tricker (2001), Kolka (1998), Sayle (1997), Hunt (1997)

<sup>&</sup>lt;sup>25</sup> Examples of older literature not discussed within this research: Mroz, J.G. (2003). Test ISO 9000:2000 Understanding. *Quality Progress*. September 2003: 82-83.

Daniels, S. (1998). Are ISO/QS-9000 Certifications Worth the Time and Money? *Quality Progress*. October: 19-20.

Punter, L. (1998). *Client / Non-client survey: results*. London: BVQI (Holding) S.A.

SGS. (1996). *ISO 9000 - Does it work? A report by Manchester Business School 1995*. East Grinstead: SGS Yarsely International.

SGS. (1996). Beyond ISO 9000 - Evaluation and Improvement for the Public Sector: Research study conducted by Institut Supérieur de Commerce International à Dunkerque (ISCID). East Grinstead: SGS Certification Services.

of managers and staff and the specific development of companies in relation to their environment. The standards ask for a defined policy and related objectives which should be regularly reviewed and lead to continuous improvement. The implementation of the standards is often used as occasion for organisational systemisation and improvement – mainly provoking improved productivity.

I present results of surveys concerning users of ISO 9001:1994, of ISO 9001:2000 and of ISO 14001.

### ISO 9001:1994 – quality standard without process approach

The implementation of a system is often externally forced by customers, head offices and governments (Van der Wiele et al. 2005) – especially manufacturing companies (Dick et al. 2001). On the other hand service companies have a marked quality differential and gain competitive advantage (Dick et al. 2001). The specification and implementation of a management system is mainly related to tradition and existing culture of the company (Bürgi 1995).

The organisation has to define the reasons of its existence and its philosophical goals which everyone should understand (Monich 2001). However, in most of the ISO 9000 implementations objectives are, typically, completely absent (Wade 2002); and ISO 9000 is no more than a particularly inefficient application of traditional management thinking (Seddon 2000).

The integration of TQM elements supports employees' participation, motivation, and leadership (Martinez and Martinez 2004); certification could be a good first step toward TQM.

External benefits of the use of the standard are higher confidence of the customers, increased customer satisfaction (Casadesus and Karapetrovic 2005, Bürgi 1995), brand / image and market share (Van der Wiele et al. 2005), higher returns and lower variability of returns than in non-ISO 9000 firms (Pinar and Ozgur 2007), and reliability (Bürgi 1995).

As internal benefits are observed improvements in quality awareness and management control (Brown et al. 1998), occasion for structuring, systematisation and formalising and development of a system of a bureaucratic control (Wagenbach 2001), improved productivity because of optimised procedures and work instructions (Van der Wiele et al. 2005, Martinez and Martinez 2004, Pivka and Zmulej 2004. Brown et al. 1998, Bürgi 1995), optimised interdepartmental relations (Wagenbach 2001), and decentralisation and self-regulation of work (Bürgi 1995).

These issues are mentioned as disadvantages: Registration to ISO 9000 leads to sub-optimal performance (Seddon 2000). Bureaucracy increases at different levels (Bürgi 1995). The employee satisfaction worsened because of bureaucracy of the system (Martinez and Martinez 2004).

### ISO 9001:2000 – quality standard with process approach

The new version of the ISO 9000 standard seems to be a system nearer to TQM and a good opportunity for companies to attain better results (Martinez and Martinez 2007).

Some organisations are especially satisfied with the two most significant changes: the stronger focus on customer orientation and on the improvement approach (Martinez and Martinez 2007, Van der Wiele et al. 2005). Respondents of larger organisations perceive larger effects on issues related to 'quality philosophy' and 'operational effects' (Van der Wiele et al. 2005). Only few companies perceive a negative impact of this standard on their business (Casadesus and Karapetrovic 2005).

Reasons for not having converted to the 2000 version included missing management time, immense cost of maintenance, decreasing customers' requirements, and lack of perceived benefits (Van der Wiele et al. 2005).

Legislation and public requirements are drivers for quality (Longchamp 2008). Customers and top management determine the development of the management system by concentrating on process orientation and risk management. A successful quality management bases on skills and motivation of employees. The dimension of empowerment and contingent reward mainly support implementation, followed by charisma and intellectual stimulation (Jabnoun et al. 2005).

Pinar and Ozgur (2007) mention as external benefits of ISO firms generally higher returns and lower variability of returns than in non-ISO 9000 firms, and Martinez and Martinez (2007) intensified customer orientation. The survey of Levine and Toffel (2010) with nearly 1000 companies in California showed that firms with ISO 9000 had far lower organisational death rates than firms without; sales, employment and annual earnings per employee grew substantially more rapidly post certification.

Van der Wiele et al. (2005) observed as internal benefits a more realistic understanding and valuing the quality management systems, a change towards a management control instrument in relation to the overall business strategy, and a much more active involvement and leadership from management. Martinez and Martinez (2007) saw a decrease in unnecessary bureaucracy and a requirement for measurement of customer satisfaction. Some benefits of ISO 9001 adoption were much more pronounced in smaller firms than in larger firms (Levine and Toffel 2010).

Disadvantages resulted from sophisticated implementations of systems as 'theoretical' changes without integration of workers and training of employees (Martinez and Martinez 2007, Singh et al. 2006).

### ISO 14001 – environmental management systems

Improving the working conditions within the firm is the most important reason for investing in environmental issues, followed by the reasons of satisfying legislation, serving moral duty and serving order and cleanliness (Masurel 2007). Legislation and the regulators are more important drivers for general environmental improvements than customers (Briggs 2007, Gutowski et al. 2005, Hillary 1999). Market incentives from either the public or private sector are insufficient to attract SMEs (Briggs 2007).

Three quarters of the companies did not even have a strategic policy or concept (Obršálová et al. 2005); however, the strategy orientation leads the use from regulatory compliance to management systems (Briggs 2007). A successful implementation has to handle ISO 14001 and organisational culture as parts of an integrated management system (Balzarova et al. 2006).

The range of financial savings and payback periods for investments generated in SMEs adopting EMSs are as diverse as the sector itself (Hillary 1999). Half the environmental objectives and targets would have been achieved even without EMS (Briggs 2007, Zackrisson et al. 2005).

As external benefits have been observed attraction of new business and customers and satisfaction of customer requirements (Hillary 1999), positive outcomes in terms of improved environmental performance, assured legal compliance and energy and material efficiencies (Briggs 2006, Obršálová et al. 2005, Hillary 1999), improvement of suppliercustomer relations and achievement of competitive advantage on the market (Obršálová et al. 2005), and enhanced image as well as improved dialogue and relationships with stakeholders (Obršálová et al. 2005, Hillary 1999).

Internally companies benefited from numerous organisational improvements and efficiencies (Briggs 2006, Hillary 1999). They improved the ability to identify weaknesses (Balzarova et al. 2006, Zackrisson et al. 2005) and the awareness of environmental issues and ethics, increased responsibility and accountability basing on staff training employee morality (Briggs 2007, 2006). Communication channels, skills, knowledge and attitude are improved (Hillary 1999), and costs of material, fuel and energy as well as operational costs decreased (Briggs 2006, Obršálová et al. 2005). Business intelligence was optimised in order to promote further continuous updating on environmental issues (Zackrisson et al. 2005).

On the other hand, more resources were required than expected, in terms of costs, time and/or skills (Hillary 1999). Some firms have been misadvised by consultants and developed bureaucratic and ineffective systems (Hillary 1999). There was also dissatisfaction with the fact that benefits had not been materialised as expected (Briggs 2007, Hillary 1999).

Darnall (2006) observed differences in the implementation of EMS depending on ownership: Publicly traded facilities incurred the lowest EMS adoption costs, had the strongest internal competencies, and were influenced less frequently by external resources; government facilities had the weakest internal competencies, relied on external resources more frequently, and had the most costly EMS adoption process; and privately owned had moderate internal capabilities, external resource use, and EMS adoption cost.

There are also geographical differences: Europe based companies concentrate more on overall environmental strategies; while Japanese and Americans regard an EMS as a hurdle to achieve market entry (Gutowski et al. 2005).

Internal barriers to EMS adoption are more important than external (Hillary 1999). Internal barriers are the lack of human resources becoming increasingly important as the size of the company decreases (Hillary 1999), the misinformation about EMSs concerning their working and possible benefits can be gained from their implementation (Hillary 1999), the fear of additional paperwork and cost without improving productivity (Briggs 2007), and the evaluation of environment not as a core business issue (Hillary 1999).

As external barriers are mentioned the high cost associated with certification (Briggs 2007, Hillary 1999,). Customer indifference to SMEs environmental performance is a key reason why these enterprises consider environmental issues unimportant to business (Hillary 1999).

## OHS implementation

Sørensen (2007) examined the behaviours of SMEs in context with health and safety. His findings are based on a large literature review and a survey with a representative sample of Danish workplaces: privateowned small enterprises have fewer resources for OHS work and with that a higher risk of severe and fatal accidents. On the other hand SMEs tend to have better psychosocial working conditions for all types of ownership.

## Research published in 2013 and 2014

In 2013, the American Society for Quality organised together with the Portuguese Association for Quality (APQ) an international survey concerning quality management with 1.094 manufacturing and 897 services organizations from 22 countries (US, Canada, Mexico, Brazil, Russia, China, India, and different from Europe), representing 75 % of the global gross domestic product (GDP) (ASQ-APQ 2013 a, b).

Generally findings are the intensive relations between quality management, top-management and continuous improvement and trainings, as well as between quality and customers' relations and definition of activities and the culture of an organisation.

The size as well as the drastic difference between how manufacturing and service organizations govern, manage, and implement quality play a significant role. However, the disadvantage of the research is the fact, that the size of the companies is measured according to the annual revenue or budget in US dollars – without explicitly considering the buying power of the individual country.

Smaller organisations tend to implement less established quality practices than larger; also their compliance orientation, use of quality awards (as the TQM-Models), offering of quality trainings and the providing of succession planning for leaders are lower. Contrariwise they share more quality measures across the entire organization.

Manufacturing organizations are more likely to utilise mature quality practices than service companies. They use nearly twice as likely quality measures to drive higher performance by promoting challenging goals, as part of variable performance compensation, and to support predictive analytics and 1.5 times more likely ISO as a quality framework. On the other hand service organisations are 1.6 times more likely to view quality as a strategic asset and competitive differentiator.

Zhang et al. (2014) reanalysed data of 238 manufacturing plants from eight countries (Austria, Finland, Germany, Italy, Japan, Korea, Sweden, and United States) and three industries (automobile suppliers, electronics, and machinery) collected in 2005-2006. They examined the organisations according to their quality exploitation (traditional use of existing issues, rational profit orientation) and quality exploration (social innovation orientated, enlarging the use of existing issues) concerning these performance issues: customer focus, process management, teamwork and training. From the social perspective, organizations tend implementing the type of quality practices that will be viewed as legitimate to other firms in their industry or country. From a rational perspective, they implement the type of quality practices corresponding to their traditional strategic goals.

#### 2.5.3.4 SME and management systems – review

Above I defined a management system as a more or less formal interplay of the internal and external elements of a company and their steering elements to set up purposes and to achieve them. The analysis of literature review shows that standardised management systems provide functional approaches because of their history and their axiomatic purpose and effectiveness / efficiency orientation.

The application of management systems is influenced by internal and external issues. The attitudes of management as well as the motivation of employees are decisive for a successful implementation. A certain formalisation is forced by external requirements of investors, customers, suppliers and public administration. The application of standards has been intensively influenced by certification bodies or registrars – often leading to sophisticated and bureaucratic systems. However, the increasing awareness of the company to become self-responsible provides the implementation of tailored systems integrating culture and other specifications; this allows for additional application of interpretive and post-modern system approaches.

Because a comprehensive TQM provides process improvement by integrating internal issues such as leadership, employee involvement as well as all sorts of external stakeholders (as customers, public, neighbours, finance, and physical environment), and quality policy, a TQM exceeds a functional system approach and applies other forms.

Applying the 'System of system methodology' (see Table 2.3), the problem situation of SMEs and their use of management systems may be quite simple as well as quite complex; it depends on the range of the use of the system (e.g. simple shop floor procedures, sophisticated system, integration of different subsystems, TQM). The degree of shared purpose amongst participant stakeholders is pluralist, and can be – depending from the environment – coercive; internal participants are owners, top-managers, and employees, while external factors include customers, suppliers, financing, competitors, public administrations, certification bodies, neighbours, and the physical environment.

However, there are number of gaps in research concerning company designed management systems, number of certified SMEs, reasons for the implementation of standardised management systems in specific regions, problems with third party auditing, and internal effects of standardised management systems.

## 2.5.4 Management systems and morality

So far in this chapter – beneath an introduction in system thinking – characteristics of SMEs have been discussed as well as SMEs and morality, followed by a consideration of the development and use of standardised management systems. The relations of standardised management systems and morality are reflected in a final step, starting with reflexions concerning TQM and CSR, and followed by moral issues of and within standardised management systems.

Literature offers a palette of quality meanings which outline the market context such as: fulfilment of expectations, product and service excellence, grade (category or rank given to requirements), and fitness for purpose and management excellence (Sower and Fair 2005, Stimson 2005a, Petrick 2002). Management gurus like Crosby, Deming, Ishikawa, Taguchi, and Juran describe quality as important for the survival of the company and the satisfaction of customers, but also as something to benefit people, communities, society and the physical environment – terms which are nowadays mentioned as elements of CSR. These management philosophies influenced management systems as ISO 9000 and ISO 14001, as well as the excellence models (Singh et al. 2013, Borawski 2008, Leonard and McAdam 2003).

Because standardised management systems include implicitly and explicitly defined moral issues, it can be supposed that their use influences attitudes and behaviours of individuals and with that the company as a whole. The systems aim to support business and market activities, to give people (and their relatives) work, to safeguard people and to protect livelihoods and the physical environment – and thereby to guarantee the sustainability of life (Singh et al. 2013, Oppenheim and Przasnyski 1999).

In my opinion, these management systems exceed functionality by integrating moral issues. It can to be supposed that in a first phase of implementation, standards and their moral issues only act as external elements. The influence of moral issues will be successful in the long term, if they are more and more integrated and become part of management, leadership and culture. The purposeful use of audits and regular management reviews will support the process of integration towards a comprehensive management system combining issues of TQM, CSR, ethics / morality and sustainability.

Ghobadian et al. (2007) analyse the similarities and differences between TQM and CSR. For them, the two concepts share similar philosophical roots; with a substantial overlap between the elements of the two concepts. Both TQM and CSR ultimately result in the organisation of doing the right thing. Despite these similarities, however, implementation of TQM will not necessarily result in CSR. TQM is driven by a set of interrelated concepts that simultaneously feature management practice and moral values. By this, TQM encompasses concepts and practices that strive to work for the benefit of all stakeholders. But it is necessary to adjust the elements of TQM so that they consciously address facets of CSR.

Hazlett et al. (2007) plead that building a CSR system needs a strong foundation. Quality management and business excellence frameworks may support the embedding of CSR values and behaviours. CSR can be advanced more rapidly if it can be incorporated into existing standards and methodologies (particularly in relation to policy and strategy), rather than being viewed separately.

Within their reflections concerning ISO 26000, Castka and Balzarova (2007) compare different standards (ISO 9000, ISO 14001, SA 8000, AA 1000, and ISO 26000) by defining their general descriptions, key elements, and principles; they detect parallels between explicit CSR standards and commonly used management standards. Leonard (2008) gets similar results in his analysis from examining the effects of the standards on the application of the US SOX Act.

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Contemporary system thinking (Jackson 2000) is seen as a metamethodology understanding, respecting and using the uniqueness of functionalist, interpretive, emancipatory and postmodern theoretical rationales, and drawing upon them to improve real-world situations. That is why contemporary system thinking seems to me best-suited to reflect this interplay of ethics / morality, CSR, sustainability and TQM, because this interplay asks for an optimal mix of foundation, openness, and responsibility. The position of a company as having the capability to successfully manage this complexity can be described with the term 'edge of chaos' applied in chaos and complexity theory<sup>26</sup> (McMillan 2004).

Applying the 'System of system methodology' (see Table 2.3), the problem situation of management systems and morality may be quite simple as well as quite complex; it depends on point of view the situation is regarded (e.g. simple analysis of moral issues within a specific standard, multivariate issues of interplay between TQM, CSR, ethics and sustainability). The degree of shared purpose amongst participant stakeholders is unitary or pluralist, and can be – depending on the environment – coercive; management systems with only one or two participants are unitary (e.g. ISO 9001 with customer orientation, ISO 14001 optimising physical environment, OHSAS 18001 reducing harm of employees), pluralist are all management systems where shortcomings of stakeholders can be expected (e.g. ISO 14001 system with contradictory aims of stakeholders – workplace vs. environmental protection; maintaining workplace vs. outsourcing).

 $<sup>^{26}</sup>$  'Edge of chaos' is a position allowing optimal reaction on changing environment. A metaphor for the position is fluid water – being not volatile gas and steep ice.

## 2.5.4.1 Morality and ISO 9000

The quality management principles of ISO 9000 contain a number of moral elements which are explicitly mentioned in a specific document of ISO giving the standardised descriptions of the principles as they appear in ISO 9000 and ISO 9004 (ISO 2004c)<sup>27</sup>:

**Principle 1:** 'Customer focus' aims to ensure a balance between satisfying customers and other interested parties (such as owners, employees, suppliers, financiers, local communities and society as a whole).

**Principle 2:** 'Leadership' considers the needs of all interested parties (including customers, owners, employees, suppliers, financiers, local communities and society as a whole), while aiming: create and sustain shared values, fairness and ethical role models at all levels of the organisation; establish trust and eliminating fear; provide people with the required resources, training and freedom to act with responsibility and accountability; and inspire, encourage and recognise people's contributions.

**Principle 3:** 'Involvement of people' tries to lead people to: understand the importance of their contribution and role in the organisation; identify constraints to their performance, accept ownership of problems and their responsibility for solving them; evaluate their performance against their personal goals and objectives; actively seek opportunities to enhance their competence, knowledge and experience; freely share knowledge and experience; and openly discuss problems and issues.

**Principle 4:** 'Process approach' wants to establish clear responsibility and accountability for managing key activities, identify the interfaces of key activities within and between the functions

<sup>&</sup>lt;sup>27</sup> ISO 9000 – and with that the principles – is actually reviewed (revised edition: 2015). It seems that the ethical issues are intensified. 'Process approach' and 'System approach to management' will be merged.

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of the organisation, and evaluate risks, consequences and impacts of activities on customers, suppliers and other interested parties.

**Principle 5:** 'System approach to management' supports building confidence with interested parties as to the consistency, effectiveness and efficiency of the organisation and developing a better understanding of the roles and responsibilities necessary for achieving common objectives and thereby reducing crossfunctional barriers.

**Principle 6:** 'Continual improvement' provides people with training in the methods and tools of continual improvement, and recognises and acknowledges improvements.

**Principle 7:** 'Factual approach to decision making' supports making decisions and taking action based on factual analysis, balanced with experience and intuition.

**Principle 8:** 'Mutually beneficial supplier relationships' helps to establish relationships that balance short-term gains with long-term considerations (supported by clear and open communication), pooling of expertise and resources with partners, and sharing information and future plans.

This moral approach in ISO 9000 was assessed by Castka and Balzarova (2004) in a UK SME case study; business system frameworks, such as ISO 9001:2000, can serve as a vehicle for CSR integration into day-to-day operation of the business.

The Italian CSR standard Q-RES uses the same cybernetic circles as ISO 9001 to build a bridge between ISO 9001 and ethics / morality (Sacconi et al 2003).

The revised version of ISO 9004:2009 demonstrates already within its introduction a comprehensive ethic-orientated aim by defining the sustained success of an organization. It "is achieved by its ability to meet the needs and expectations of its customers and other interested parties, over the long term and in a balanced way" (v).

Possible needs and expectations of interested parties are summarised (see Table 2.4). All needs and expectations are related to ethics; 'society' mentions 'ethical behaviour' explicitly. The standard provides a variation of possible behaviours for handling the different interested parties, and the 'Quality management principles' discussed above have been enlarged.

Interested party	Needs and expectations
Customers	Quality, price and delivery performance of products
Owners / Shareholders	Sustained profitability
	Transparency
People in the organiza-	Good work environment
tion	Job security
	Recognition and reward
Suppliers and partners	Mutual benefits and continuity
Society	Environmental protection
	Ethical behaviour
	Compliancy with statutory and regulatory require-
	ments

*Table 2.6: ISO 9004:2009, Table 1 – Examples of interested parties and their needs and expectations* 

## 2.5.4.2 Morality and ISO 14001

Much of the literature concerning environmental ethics discusses the extensive care for the physical environment, responsible attitudes and behaviours towards the natural environment and all sorts of stakeholders, as well as world-wide empowerment toward a common sustainable future.

Environmental management systems according to ISO 14001 have explicitly specified their ethic issues (physical environment, and the health and safety of people). They aim to reduce or, if technically and economically possible, to avoid pollution and any harm to interested parties or stakeholders in- and outside of the company – in both the short and long terms.

### 2.5.4.3 Morality and occupational health and safety

All OHS standards demand explicitly that users reduce or, if technically and economically possible, avoid any harm to employees. By that they contain ethic issues.

## 2.5.4.4 Morality and excellence models

Established models of business excellence such as the MBNQA Criteria for Performance Excellence, the EFQM Excellence Model, the Australian Business Excellence Framework, and the Canadian Framework for Business Excellence incorporate social responsibility elements and advocate management practices compatible with the ideals of CSR (Ghobadian et al. 2007).

Both main models, MBNQA and EFQM, explicitly mention in their concepts the importance of CSR. In MBNQA CSR becomes especially visible in focus on the future, leadership, knowledge management, and human resources focus and in EFQM by the comprehensive orientation towards sustainability which is integrated in all issues (EFQM 2013).

### 2.5.4.5 Morality and auditing

According to ISO 19011 (revised edition 2011), Guidelines for quality and/or environmental management systems auditing, auditing depends on moral conduct (the foundation of professionalism which includes trust, integrity, confidentiality and discretion), fair presentation (obligation to report truthfully and accurately), due professional care (application of diligence and judgement in auditing), independence (basis for the impartiality and objectivity of the conclusions), and evidence-based approach (rational method for reaching reliable and reproducible audit conclusions in a systematic audit process). Additionally, the knowledge and skills as well the corresponding education, especially personal attributes are demanded from auditors, with emphasis on specific moral attributes including: to be fair, truthful, sincere, honest, discreet, and open-minded.

This list of audit principles as well as that of personal attributes of auditors aims explicitly to guarantee morality in auditing activities. The other issues underline this objective at least implicitly. Arter and Russell (2003) go so far as to say that the consequent use of ISO 19011 probably could have prevented the auditing disaster of Enron; the use of the ISO standards 9001 and ISO 190011 as tools to fulfil the requirements of the US SOX act supports this statement (Hofmann 2005).

However, I did not meet any research concerning attitudes and behaviours of auditors besides mine (Bürgi 1999).

## 2.5.4.6 Standardised management systems and ethical theories

The SME model of this research provides a method to evaluate the moral issues by integrating the philosophy of the standards into the measurement tool (see 4.3.4, p. 225ff): ISO 9001 concentrates on staff, company, customers, suppliers and market; ISO 9004 applies to society; ISO 14001 focuses on physical environment, staff and society; the OHS standards on staff; the comprehensive excellence models touch on all aspects; and TQM models focus on being comprehensive.

It is quite difficult to benchmark the systems according to generally known ethical theories (see inter alia: Rachels 2005, Crane and Matten 2004) as egoism, utilitarianism, ethics of duty, ethics of right, theories of justice, virtue ethics, feminist ethics, and discourse ethics, because these theories are closely related to people using them. I suppose with Jaccard (2010) that many owners and top-managers of SMEs are affected by virtues such as integrity, trust, compliance and honesty because of their high personal responsibility towards people and the survival of their business; on the background of these virtues, they may influence the

management system of their company. I examine these issues within the analysis of the data of this research.

#### 2.5.4.7 Standardised management systems and morality in SMEs

The discussion of the relations between standardised management systems and morality in SMEs is limited by narrow literature findings: Longchamp (2008) noted that only 27% of the interviewed Swiss quality managers state that CSR is part of the quality definition in companies. Enterprises' orientation towards quality systems could be considered as an indicator of the level of the growing complexity of their social core (CERFE 2001). Enderle's (2004) producing Swiss firm uses the advantages of an (environmental) management system with its integrated controlling elements to support the moral balance of the firm.

Because the environmental standard ISO 14001 explicitly encloses moral elements some effects are observable. Improved environmental performance, assured legal compliance and energy and material efficiencies are positive outcomes (Briggs 2006, Obršálová and Kožená 2005, Hillary 1999). Enhanced image, as well as improved dialogue and relationships with stakeholders are also observable positive effects (Obršálová and Kožená 2005, Hillary 1999).

### 2.5.4.8 Management systems and morality – review

In their concepts all management systems contain at least implicitly moral issues which enlarge the functionalist character of the systems. However, there is no research concerning the influence of management systems on moral attitudes and behaviours of SMEs, as well as on moral behaviours of auditors. On the other hand the influence of virtues of individuals on the implementation of management systems is not examined.

Characters and moralities of managers and staff are the basis of the performance of the SME, and carefully implemented and maintained management systems contribute to its sustainable realisation. The analysis of the interplay of management systems and morality basing on a systemic viewpoint contributes to understand the performance of an SME and leads to the design of the SME model of this research.

## 2.6 SMEs embedded in an environment

Section 2.2 discussed issues of system thinking, and 2.3 to 2.5 examined the main elements of this research: SMEs, morality, and (standardised) management system. The reflection is completed by analysing the position of the elements within their common environment; this section reflects the effects of environment on the performance of SMEs and underlines the need for applying system views to examine SMEs.

As presented in the Introduction, companies of all sizes and industries are decisive parts of the economic system in which they are intensively related with each other and to other elements (e.g. market system, customers or end-users, finance, insurances, suppliers and partners, competitors).

The environment of SMEs, morality and (standardised) management systems is specified by the characteristics of the elements as complexity, relations, geographical extent, historical and cultural background. Therefore the postmodern or contemporary approach would be suited to describe their interplay. A functional method would assume that logic flows can be defined within the environment.

Economy is not isolated; it is a subsystem of the human society; which again is embedded in the physical environment of the planet (e.g. Ulrich, P. 2008, Crane and Matten 2004, Korten 2000, Des Jardin 1997, Boff 1995). Figure 2.13 represents the mentioned systems as well as the specific system of the nation state which is discussed in 2.6.1.

## 2.6.1 SMEs as parts of the society

Owners, managers, and employees are within the 'company' and – having system spanning character – at the same time are elements of its environment. The effects of this condition are especially vital for SMEs: it is quite possible that workforce and often its suppliers live in the same geographical region (Baumann et al. 2013, Jeppesen et al. 2012, Sneep 2007, Werner 2006, Laeis 2005, Spence et al. 2003b, and DTI 2002). Relations with local media and administrations are rather intensive. Managers and employees are members of associations, are involved in decisions concerning regional infrastructure as well as other issues. These elements at least partly explain the often obvious social responsibility of SME owners and top-managers influenced by local and regional moral traditions.

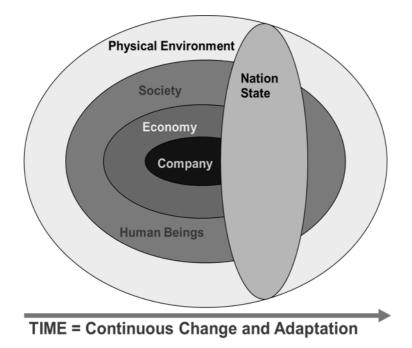


Figure 2.13: Jörg Bürgi: Embedding of companies in systems

As well as people, morality and (standardised) management systems have system spanning character. As discussed above (2.4.2, p. 87ff), the morality of an SME is deeply influenced by the owners and managers; they all have specific backgrounds (e.g. family, religion, experience, media, politics) which form the moralities they bring in the company. Management systems are formed within the company (2.5.3, p. 105ff); this forming is influenced by external ideas and experiences, especially if a SME applies the requirements of an international standard.

The Nineteenth century development of human society involved the constitution of nation states, which aim to guarantee a basis for common survival by defining a number of principles (e.g. liberty, solidarity, subsidiarity, security and safety, property). Because a nation state only covers a specific geographical territory, its direct influence is limited to this territory. These quantities are enlarged by bi- or multilateral contracting (e.g. European Union with common politics and legislation for all member states).

Companies are embedded in nation states. Their legal protection, boundaries and opportunities are traditionally defined by national legislation, which normally distinguishes between public or administrative and private companies.

SMEs are a fundamental pillar of the state, and have a direct impact through job creation, education, and by reducing poverty. They also indirectly impact in many ways including through taxation of their profits and wages (Jeppesen et al. 2012, Baucus and Cochran 2010, Coutinho de Arruda 2010, Painter-Morland and Dobie 2010, Spence and Perrini 2010, Endo 2008, European Communities 2003a). Thus, they have an intensive share in social welfare.

However, the influences of government and authorities are increasing, and the control of economic areas through legislation is escalating and quite often changing, which is in opposition to the world-wide demand to promote SMEs (Sneep 2007, OECD 2010a and 2005, and Fueglistaller 2003a). This development threatens SMEs which have limited or no possibilities to switch to states with lower requirements (Eisenhut et al. 2004, NatWest 2004, European Commission 2003, Schillig 2003, European Commission 2002, and Welter and Havnes 2000). Micro-companies, in particular, suffer because of government regulations and paperwork; surveys identify 'red tape' as number one problem of small businesses (e.g. NatWest 2004).

However there are not only administrational constraints for SMEs. Besides many states providing SMEs by specific programs (e.g. Executive Office of the President 2014, Federal Department of Economic Affairs, Education and Research 2013), a lot of international institutions support the development of SMEs. The European Union offers a number of programs: The "Small Business Act (SBA)" for Europe aims promoting entrepreneurship and access to markets (European Commission 2008). With the program Horizon 2020 (duration 2014-2020) the Commission wants to stimulate sustainable economic growth by increasing the level of innovation in SMEs, covering their different needs over the whole innovation cycle for all types of innovation, and thereby creating faster growing, internationally active SMEs (European Commission 2013). UNIDO is the specialized agency of the United Nations that promotes industrial development for poverty reduction, inclusive globalization and environmental sustainability; a successful program is the "Development Clusters Networks SMEs" of 2001 (UNIDO 2014).

### 2.6.2 SMEs within economy

SMEs traditionally live in areas containing current and potential customers, suppliers, and competitors, and often obtain financing through local banks (Jeppesen et al. 2012, Baucus and Cochran 2010, Coutinho de Arruda 2010, Painter-Morland and Dobie 2010, Spence and Perrini 2010, Endo 2008, Sneep 2007, Fueglistaller 2003b). The developing market challenges SMEs to enlarge their activities regionally, nationally and even globally; this development is related to the industries the SMEs are belonging to (e.g. Jeppesen et al. 2012, Mahmood 2008, Sneep 2007, Enderle 2004, Fueglistaller 2004b, OECD 2010a, b, 2005 and 2004, and Lehmann 2003). As my contacts show, even traditional locally or regionally operating industries (e.g. construction) have to enlarge their geographical spread because of market pressure by competitors accompanied by additional cost for logistics.

Expanding geographical radius demands additional methodologies guaranteeing product and service quality as an alternative to personal relations to customers and suppliers. Since the seventies of the past century national and a few subsequent international regulations concerning product and services requirements, as well as their production management and processes, have filled this gap (e.g. ISO 9000 for quality and ISO 14001 for environment management – details see 2.5.3, p. 105ff).

The World Bank WB, the International Monetary Fund IMF and the World Trade Organisation WTO aim the world-wide integration of markets – especially by providing countries on their way to reduce poverty (International Monetary Fund 2014, World Bank 2014, World Trade Organisation 2014).

IMF and WB also define the economic relations of the global financial capital towards the south (Ziegler 2013, Rainbowarrier 2008, Globalenvision 2007, Foodfirst 2005)<sup>28</sup>. The United States did never ratify the International Covenant on Economic, Social and Cultural Rights, and WTO and IMF are fighting against; they neglect the right for food. Managers of food producing companies, the leaders of the WTO and the

<sup>&</sup>lt;sup>28</sup> The reflections follow these authors – especially Jean Ziegler, former professor of sociology at the University of Geneva and the Sorbonne, Paris, and Member of Swiss Parliament for the Social Democrats from 1981 to 1999. Ziegler has also held several positions with the United Nations, especially as Special Rapporteur on the Right to Food from 2000 to 2008 and as a member of the Advisory Committee of the UN Human Rights Council (since 2008).

IMF are persuaded that hunger can be beaten by a total liberalised and privatised world market.

IMF is administering the external dept of 122 countries (especially of the Third World - 2010: 2100 Milliards). The interests only can be paid by exporting products or raw materials (37 of 54 African countries are pure agrarian states and forced to reduction of traditional farming and to focus on exportable products – e.g. cotton, peanuts, coffee, tea, and cacao). In moratoriums IMF offers structural adjustments – forcing the reduction of public health, education and social service. IMF also supports the opening of local markets for private transcontinental food companies – forcing local farmers are forced to sell their products for minimal prices.

Today, IMF and WB are the major cause of poverty in African countries. The World Bank is imposing a virtually identical set of policies on widely different countries, without regard for their unique histories, cultures, or patterns of land use. These policies focus on privatizing and individual titling to create markets in landscape, and in some countries include credit funds by which the poor acquire debts to purchase ground from 'willing sellers'. When communal grounds were parcelled up and individual titles were given out, the result has often been a disaster. The price for grounds in the South is thirty times lower than in the North. In 2010, in Africa 410000 square kilometres (comparable with the land area of Germany and Switzerland) of agrarian grounds were bought, leased or taken for free by American hedge funds, European banks or Saudi, South Korean, Singaporean or Chinese sovereign wealth funds.(examples South Sudan, Nigeria, Cameroun, Benin). Ground belongs quasi to nobody; however the peasants used it for centuries on custom and praxis. An interested fund demands the state administration to register the desired grounds in the cadastral register; and then it belongs to this fond. And foreign investors have often to pay minimal or even negative taxes.

The growing demand for bio gasoline reduces the traditional agricultural crop ground – and with that the livelihood of thousands of peasants. The world-wide food exchange balloons the price and with that poverty (the price often decides whether the cereals are used for food or bio gasoline).

Besides the negative impacts of international mining companies (destruction of landscape, intoxication of physical environment accompanied by grave diseases, minimal financial benefits for countries), excess goods from the North (e.g. food, cloth) and rag trading destroy prices of local producers (farmers, production, trading).

The dept crisis of the first decade of this century forced the (Northern) states to refinance their banks and large companies and thereby provoked higher taxes for individuals and SMEs as well as reduced financial resources of countries for education, health and social service and programs providing SMEs in the North and in the South.

## 2.6.3 SMEs and physical environment

The impacts of human beings on the physical environment (resource use and pollution) are increasing dramatically (e.g. UNEP 2009, Mrasek 2007: Comments to the UN Climate Change Report). In 1987, the Bruntland Commission (World commission on environment and development) proposed as an input to 'The Earth Summit in Rio de Janeiro of 1992' the concept of sustainability. The concept looks for approaches to sustain the provision of goods and services that society derives from natural systems in ways that

"meet the needs of the present without compromising the ability of future generations to meet their own needs" (Bruntland 1987:8).

Sustainable development is characterized by economic growth based on social justice and sustainability in the use of natural resources. Elkington (1999) enlarged Bruntland's definition in his 'Triple Bottom Line' concept, which aims to balance a company's economic, environmental and social performance and refers to the integrative measurement of three performance elements.

Companies have varying quotas in the process of harming and destroying the physical environment, depending on their specific activities. Not only mining, chemical, heavy or large industries have their harmful effects, but also service industries like tour operators and forwarders because of their oil consumption, carbon dioxide output, consumption of other resources and generation of wastes; my experience as auditor for ISO 14001 shows that even touristic companies such as skiing regions have a remarkable impact on the physical environment because of adaption of landscape, snow groomers and artificial snowing<sup>29</sup>.

The impact of SMEs on the physical environment can only be estimated, but if we take into account their great number, it may be enormous, and they may be responsible for a significant share of the total environmental burden. Although no generally accepted figures on the actual environmental burden are available, SMEs may contribute up to 70% of all industrial pollution (Bernardini 2007). While little is known about the actual total impact of SMEs, even less is known about the burdens of individual SMEs. The environmental impact of SMEs is also not known at national or regional levels; the impact is often quoted by industry, but not by size. An evaluation of ISO 14001 auditing could procure an impression.

The behaviours of SMEs are examined within various research (e.g. Hillary 1999). To sum it up: if a SME is forced to change by legislation or is confronted with severe environmental aspects, it implements corresponding activities (use of materials, energy, recycling, waste management etc.). Environment friendly efforts of companies are supported by international institutions (i.e. environmental management systems ac-

<sup>&</sup>lt;sup>29</sup> An outstanding example for these influences is the activities concerning the Olympic skiing areas of Sochi 2014.

cording to ISO 14001 or EMAS) and national legislation. The effects of environmental management systems on SMEs are examined in 2.5.3, p. 92ff.

# **2.7** Interaction of SMEs with morality and (standardised) management systems within their environment

As discussed above, the dynamic relations between SMEs, morality / sustainability and (standardised) management systems within their environment cannot be described by a functionalist system approach because of the high complexity which cannot be planed, nevertheless at most be imagined. Therefore postmodern or contemporary approaches suit more; especially they are comprehensive and include moralities, traditions and local specifications. That is why this section takes the chance to reflect influence capabilities of SMEs and their effects on performance.

I follow Enderle (2004:52-55)<sup>30</sup> to define possible 'spaces of freedom'. Enderle assumes that an organisation has

"a 'space of freedom' which involves more than one possible course of action, can be bigger or smaller, can change over time, and is limited by constraints".

Corresponding to the space of freedom he postulates an equal amount of ethical responsibility,

"according to the fundamental principle of ethics that 'ought implies can"".

For Enderle

"global competition is not a fate, but man-made and caused by human decisions... constraints are set up to a large extent, by human actors and therefore can be changed, which inevitably in-

<sup>&</sup>lt;sup>30</sup> Georges Enderle is former president of the International Society of Business, Economics and Ethics (ISBEE; 2001-2004). Before joining the University of Notre Dame, Indiana U.S., in 1992, he was doing research and teaching in the field of business ethics in Europe over ten years and was co-founder of the European Business Ethics Network (EBEN).

volves an ethical dimension... Culture and ethics, too, play indispensable roles, not only in shaping those economic and legal constraints and forming new constraints (such as global codes of conducts), but also in using the existing spaces of freedom of business organisations. Such spaces do exist and are becoming even bigger, as liberalization, privatisation and deregulation gain momentum in a globalizing world. Hence using those spaces in an ethically responsible manner is becoming more important".

Enderle does not concentrate his 'spaces of freedom' on economy; he uses them for companies' activities in a globalizing world with all its subsystems: economy, society, physical environment.

Reflecting on the three elements SMEs, morality / sustainability and (standardised) management systems within their environment, I observe a large scale of spaces of freedom or influence capabilities providing performance.

<u>SMEs</u>: SMEs, their culture, traditions and morality are often referred to the personality of the owner-manager or entrepreneur. Ownership, visions, management, and control are concentrated in the same hands. Their size dictates a reduced need for formalisation of procedures, and enables SMEs greater flexibility, especially if it is paired with corresponding resources. Personal relations build common values and employee loyalty; they support the development of a self-organising company system, with regard to long-term success. However, spaces of freedom or influence capabilities are often restricted by lack of resources (i.e. personnel, knowledge, material, energy, finance, and time) and growing (global) competition; the implementation of a tailored management system may reduce these shortage and allow additional freedom.

<u>Society:</u> The integration of SMEs in the local and regional community allows the use of local and regional resources. This integration influences (moral) attitudes and behaviours based on corresponding social responsibilities.

Nation state: The influence of government and authorities is increasing, and the control of economic areas by legislation is escalating; this is a growing problem as it restricts the spaces of freedom or influence capabilities of SMEs. However, supporting programs of states may optimise the position of small businesses. <u>Economy:</u> SMEs are the primary engine of economic development and drivers of competitiveness. Their size and styles of leadership provide advantages of more flexibility, innovation, networking, employment, job creation and productivity. Globalisation forces and facilitates internationalisation of SMEs – especially if they support their activities by networks and the employ of (standardised) management systems. The return on values and moralities may be benefiting within an increasingly challenging market, and as competition grows due to world-wide economic pressure and crisis.

<u>Physical environment:</u> Proceeding deletion and rising requirements of public (customers, media, politics, et cetera) restrict increasingly companies' spaces of freedom. A SME, however, has the chance to optimise its position by the consequent use of its resources, flexibility and innovative knowledge as well as an adequate environmental management system; the consequent reflection of values improves its authenticity.

This check of the spaces of freedom' or influence capabilities of SMEs, morality and (standardised) management systems within their common environment can be enlarged by their optimal interplay and by that provide sustainable performance.

Some authors specify the view of a dynamic and sustainable interplay of SMEs within their environment supporting optimal performance of SMEs.

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Korten (2000) designs a utopia of future economies by describing six vital characteristics of economies sustaining life. His considerations show characteristics of system approaches (interpretive, emancipatory and especially postmodern) and can be used to reflect on SMEs.

1. Life is based on reciprocal relations. That is why the performance of freedom has to honour the demands of others. Economies therefore have to take on self-organising systems respecting the demands of individuals, families, local communities and nations.

2. Effectiveness and comprehensiveness base on the idea not to use and hoard more than what is really needed. Economies therefore have to satisfy material, social and spiritual demands by economic use, fair division and ongoing recycling of existing energy and resources.

3. Because life depends on local and all-inclusive communities living together, it is able to survive. Economies therefore have to build on local communities carefully handling the direct environment and being principally self-reliant.

4. Because life depends on cooperation, it is able to balance the demands of all components. Economies therefore have to reward cooperation supporting the productive capacities of the community.

5. Beings need permeable borders because individuals live in and by relations. Economies therefore should be able to communicate and collaborate with one another for the benefit of all. In this process smaller economies should have the well-founded chance for sustainable survival.

6. Life exchanges information and knowledge; this allows innovative improvement of living conditions. Therefore economies should be able to strengthen cultural, social and economic creativity and diversity by the free exchange of information. Enderle (2004) proposes seven recommendations for successful SMEs on the background of his detailed analyses of two SMEs. They again are typified by system approaches:

1. Concentration on exceptional and sustainable products

2. Trust in people (employees and customers)

3. Consideration of the local context in order to become competitive at the global level

4. Ongoing process of learning and implementation with openness and perseverance

5. Using the space of freedom in the fullest possible extent and expanding it by networking with like-minded partners

6. Respecting the 'triple bottom line' of economic, social, and environmental responsibilities and balancing these responsibilities in order to maximize the sustainability

7. Assessing the business in order to control the space of real freedoms that people enjoy.

Bernardini (2007) observed three SMEs during the common implementation process of their environmental management systems. An open culture improved the results of a cooperative approach. The companies optimised their organisational learning through an exchange of experiences; this benchmarking sustained the organisations during the planning phase and the entire system life. For Watkins (2007) the sustainability of an enterprise is achieved in results – in the shape of values and satisfaction provided to customers, return offered to investors, and enhancement of prosperity, welfare and well-being of employees and society<sup>31</sup>.

The reflections concerning Korten's utopia, Enderle's recommendations and Bernardini's and Watkins's observations allow drawing the conclusion the optimal performance and survival of SMEs is guaranteed by the optimal integration of morality / sustainability and management

<sup>&</sup>lt;sup>31</sup> The results of my research confirm these observations (see chapter 4.4).

system as well as their dynamic interplay within their common environment.

## 2.8 Review of research questions

After an introduction into system thinking, I performed a literature review concerning the main issues of the research – SMEs, morality / sustainability and (standardised) management systems. The review shows that the individual issues are measured mainly by surveys or case studies, and a number of gaps could be identified concerning these individual issues. Furthermore, there is minimal research examining the complexity and interplay of different influences within their common environment.

My assessment of the research questions (see 1 Introduction 1.4, p. 35) indicates how the literature review already allows for sufficient answers, and reflects on whether the questions need to be adapted. The answering of the research questions allows detecting gaps which have to be filled by my research; these gaps ground the used methodology (see chapter 3).

# **2.8.1** Is there a typical management organisation for SMEs? The differences between SMEs and large companies

SMEs are centred on the personality of the owner-manager or entrepreneur. Securing long-term survival or maintenance or cumulating of family assets is more important than increasing market value. SMEs are characterised by multi-tasking, often combined with strength of innovation and a greater flexibility which can be used for opportunity. Procedures are often marked by informality, are less visible, less formal or articulated. Personal relationships are salient; communication and coordination depend merely on personal, often amicable relations. There is often a lack of personnel, financial and time resources. SMEs are the backbone of the market economy and one of the principal driving forces of economic development; they generate employment and contribute to the alleviation of poverty. SMEs are vehicles for knowledge spillovers, particularly in terms of competition for new ideas and human capital embodied in knowledgeable workers, and they contribute significantly to regional and local development. Because SMEs are ongoing integrated into the global market, they are increasingly at the mercy of external pressures.

In relation to SMEs, I detected a number of gaps in research. Regarding internal issues, I found minimal data concerning the organisation and ownership of SMEs, SMEs and culture, and employ of processes, technical equipment and knowledge management within SMEs; yet to be discussed are the influence of owner-managers and the differences between owner-managers and employed managers, as well as the effects of the replacement of managers. As I was focussed on external issues, I did not notice or examine any research concerning SMEs and market fluctuations.

#### 2.8.2 Morality issues specific to SMEs

Moral activities concentrate on employees and their families, local communities, business partners, and physical environment. Because ownership, management and control are usually concentrated in the same hands, the personal preference of top management and owners is the most influential factor.

The literature review, however, shows that surveys merely concentrate on owner-managers – recording a gap concerning other managers and especially staff. Another gap is the minimal knowledge about the employ of ethical standards.

# 2.8.3 How do we characterise the ethical guidelines of SMEs and how do they motivate the company's management system – at least informally?

The guiding of SMEs depends primarily on the morality, motivation, experiences, knowledge, and resources of its owner (family), topmanager, or both. Documentation mainly concentrates on procedures and records. Visions and derived strategies are often not formalised and sometimes vague. SMEs having a standardised management system are forced to develop a policy and corresponding activities which may lead to formulated visions and strategies.

#### 2.8.4 What are the attributes of standardised management systems?

This interrogation presupposes that they are differences between ethical standards, and leads to reflect on which of them apply in SMEs, and with what success?

Standardised management systems demand analysis of concerned issues, a policy for their management and corresponding planning, resources, activities and measuring, a documentation of requirements, procedures and records, and a regular review aimed at continuous improvement.

The standards mainly concentrate on specific issues such as increasing moral attitudes and behaviours, optimising quality and customer relations, avoiding or at least reducing harm on beings and physical environment.

SMEs often use the implementation of standards as opportunity for organisational systemisation and improvement – mainly provoking improved productivity. But the implementation is often fragmentary.

There are number of gaps in research concerning company designed management systems, number of certified SMEs, reasons for the implementation of standardised management systems in specific regions, problems with third party auditing, and internal effects of standardised management systems.

# **2.8.5** On the lack of studies regarding moral aspects of standardised management systems in relation to SMEs

Standardised management systems are important for the survival of a company and the satisfaction of customers, but also to benefit people, communities, society and the physical environment – terms which now-adays are mentioned as elements of CSR, business ethics or sustainability.

There are parallels between the explicit CSR standards and more commonly used management standards like ISO 9000 and ISO 14001. All the occupational health and safety standards demand explicitly the reduction or, if technically and economically possible, avoidance of harm against employees. Established models of business excellence incorporate a social responsibility element and advocate management practices compatible with the ideals of CSR, business ethics or sustainability.

The implementation of (standardised) management systems is often fragmentary; there is no effective continuity between analysis, policy, planning, activities and measuring. Regarding poor implementation it can be assumed that the influence of moral issues of the standards is not rigorous.

However, according to my knowledge, there is no research concerning the influence of management systems on morality / sustainability of SMEs, behaviours of auditors, or influence of virtues on management systems. 2.8.5.1 What encourages the prosperous implementation of standardised management systems? What hinders it? Which are used in SMEs, with what success?

Companies often have been forced by customers, industry or authorities to implement standardised management systems; the aim of these users was merely to follow requirements rather than utilise the standards as comprehensive tools.

SMEs are often sceptical about the benefits, cost savings and customer rewards associated with standardised management systems. However, many SMEs – especially from service industry – apply the standards successfully optimising internal issues as well as their external relations to customers and other stakeholders.

2.8.5.2 How far do SMEs combine implementation and continuous improvement of standardised management systems with morality / sustainability? What encourages and what hinders it?

Environmental and OHS management standards explicitly include moral issues by principle to avoid or minimise harm; and quality management standards at least implicitly support moral attitudes and behaviours. But there are minimal findings concerning the interplay of standardised management systems and morality within the large amount of literature reviewed.

2.8.5.3 What are the relations of SMEs to their environment? How do SMEs, morality / sustainability and (standardised) management systems act in their common environment?

Owners, managers and employees are within the 'company' and – having system spanning character – at the same time are elements of its environment. The effects of this condition are especially vital for SMEs and at least partly explain the often obvious social responsibility of SME owners and top-managers influenced by local and regional moral traditions.

As well as people, morality and (standardised) management systems have system spanning character. The morality / sustainability of a SME is deeply influenced by the owners and managers; they all have as specific backgrounds which form their moralities and they bring into the company. Management systems are formed within the company; this forming is influenced by external ideas and experiences, especially if a SME applies the requirements of an international standard.

SMEs are a fundamental pillar of the states by direct impact through job creation, education and reducing poverty as well as an indirect impact through taxation of their profits and wages, et cetera. Thus, they have an intensive stake in social welfare. However, the influences of government and authorities are increasing and the control of economic areas by legislation is escalating and quite often changing which is in opposition to the world-wide demand to promote SMEs. Because SMEs are ongoing integrated into the global market, they are increasingly at the mercy of external pressures.

The developing market challenges SMEs to enlarge their activities regionally, nationally and even globally; this development is related to the industries the SMEs belong to.

Expanding geographical radius demands additional methodologies guaranteeing product and service quality as an alternative to personal relations to customers and suppliers. International regulations concerning product and services requirements as well as their production management and processes are increasingly used to fill this gap.

While little is known about the actual total impact of SMEs on the physical environment, even less is known about the burdens of individual SMEs. However, if a SME is forced to change due to legislation, or is confronted with severe environmental aspects, it implements corresponding activities. Environment friendly efforts of companies are supported by international institutions and national legislation.

2.8.5.4 Which model describes the relations and the dynamic interplay of SMEs, morality / sustainability, (standardised) management systems and is able to explain comprehensively the complex attitudes and behav-

iours of SMEs? Which issue influences another issue and why? How can these influences be measured?

Literature analyses the influence of individual elements, but presents minimal comprehensive description. Existing tools measuring management performance concentrate mainly on one element. A central aim of my research is to fill this gap.

The review of the research questions shows that literature review answers the great majority of them (at least partly). I try to deepen the answers with the results of my thesis aiming a more comprehensive view by analysing the interplay of the elements towards an optimised sustainable performance of SMEs, and knowing that substantial gaps remain, which I discuss in the final chapter (5 Conclusions, p. 285ff).

# 2.9 Conclusions

In this Chapter 2 'Literature review', I provided the theoretical background of this research by reflecting on approaches of system thinking, and analysing public knowledge concerning SMEs, morality / sustainability, and (standardised) management models within the environments of economy, society and physical environment.

Reviewing literature concerning system thinking in Section 2.2, I show that this approach is the appropriate underpinning paradigm guaranteeing the successfully realisation of this research. The different approaches of system thinking offer an understanding of the functioning of SMEs, morality / sustainability and (standardised) management system, as well as an understanding of these issues in their common environment. System methodology provides the design of the SME model and the tool measuring the performance of SMEs (see 3.6, p. 174f, and 4.3, p. 209ff).

Section 2.3 describes the general characteristics of SMEs and detects gaps in research. These provide the comprehensive formulation of the

questionnaire and allow choosing suitable companies for the longitudinal survey.

Section 2.4 examines CSR standards and morality issues of SMEs and illustrates how they affect performance.

Section 2.5 explains management systems used within SMEs and describes how they influence performance of the companies. It also discusses the moral issues of management systems and the interplay between management systems and morality.

Section 2.6 reflects the environment of SMEs and effects of the different environmental issues on the performance of SMEs and the impacts of SMEs on their environment.

In Section 2.7 I summarise the interplay of the elements SMEs, morality / sustainability and management systems within their common environment by reflecting the influence capabilities of SMEs and the effects of the elements on performance. This examination allows drawing the conclusion that the optimal performance and survival of SMEs is guaranteed by the optimal integration of morality / sustainability and management system as well as their dynamic interplay within their common environment and by that presenting a first construction of the SME model.

The confrontation with the research questions finally shows in Section 2.8 a number of gaps in literature which I will try to fill by this thesis basing on a defined methodology. As main gaps I identified: minimal data concerning organisation, ownership and functioning of and within SMEs, minimal data about company designed management systems, internal effects of standardised management systems and third party auditing, missing research concerning the influence of management systems on morality of SMEs and of virtues on management systems, little knowledge about the actual total impact of SMEs on the physical environment as well as burdens of individual SMEs, and finally minimal comprehensive description concerning the dynamic interplay of SMEs, morality / sustainability and (standardised) management systems within their common environment.

That is why Chapter 2 illustrates the importance of designing a comprehensive SME model showing this interplay, which has been linked to a corresponding measurement tool (Chapter 4). These provide the results of the survey (Chapter 4), and the drawing of final conclusions through answering of the research questions, examining the hypotheses, and defining needs for additional research (Chapter 5). All these activities are supported by 'Methodology' (Chapter 3).

3

# METHODOLOGY

#### **3.1 Introduction**

Purpose of the chapter methodology is to determine what methodology and methods I need to answer the research questions.

I introduced the research questions in Chapter 1 (see 1.4, p. 39). In Chapter 2 I investigated the extant literature to review published work relevant to these questions. The literature review answers much of the research questions at least to some extent; however, a large number of gaps remained:

Examining internal issues of SMEs, I found minimal data concerning organisation and ownership, SMEs and culture, and implementation of processes, technology and knowledge management; yet to be discussed are the weighting of the influences of owner-managers and the differences between that of owner-managers and employed managers, as well as the effects of the replacement of managers. Focussed on external issues, I did not notice or examine any research concerning market fluctuations on SMEs.

Another gap is the minimal knowledge about the conscious use of ethical standards within SMEs. Additional knowledge is needed concerning the influence of (standardised) management systems on the definition of policy and corresponding activities.

There are number of gaps in research concerning company designed management systems, number of certified SMEs, reasons for the implementation of standardised management systems in specific regions, problems with third party auditing, and internal effects of standardised management systems.

In my extensive research I have not been able to find any research concerning the influence of management systems on morality / sustainability of SMEs, behaviours of auditors, or the influence of virtues on management systems. And additional research may deepen the knowledge concerning the implementation of standardised management systems. There are also minimal findings concerning the interplay of SMEs, standardised management systems and morality / sustainability within their common environment. And finally, the literature does analyse the influence of individual elements, but presents no comprehensive description or model of their interplay and there is no measurement tool concerned with this.

Broad additional knowledge is needed to fill the gaps concerning the interplay of SMEs, morality per se and morality / sustainability within their environment and to answer the research questions as compressively as possible. This chapter concentrates on possible methods to be used to research these areas and their justification.

# 3.2 The philosophical foundation

In this section I describe the main issues of philosophy of methodology in order to define an appropriate methodology to answer the research questions which is based on the methodological literature. A philosophy of methodology is a defining principle of how to gather, analyse and use data. Hereby I mainly revert to Stainton (2006), supplemented by issues of Kumar (2005).

Philosophy of methodology distinguishes between ontology and epistemology, between positivism and a subjective stance (as constructionism or nominalism), between determinism and voluntarism (definitions: see Glossary). I concentrate on ontology and epistemology in relation to positivism and constructionism. As main methodologies I describe induction, deduction and abduction; and finally I present different forms of practical use of methodologies.

# **3.2.1** Ontology and epistemology in relation to positivism and constructionism

Ontology covers the kinds of things and their being-in-the-world. It asks about their consistence and their interrelations. From a positivist point of view, ontology regards the things and their world as objective and out of human meaning-making. The physical or social world is seen as an ordered system; that is why it can be examined systematically, independent of human role. On the other side, constructionist ontology regards the things and the world as constructed with human eyes, signs and symbols.

Epistemology is interested in the nature of knowledge. It discusses the validity of the acquisition of knowledge. From a positivist view, knowledge is achieved through gathering facts about the world in a systematic and objective manner to build and refine universal 'laws of nature' (usually through experimental method and testing of hypotheses). Because human perception and understanding are fallible, today few scientists claim a strict positivist epistemology (except representatives of natural science). According to constructionism there are relations between knowledge and the selections / interpretations of scientists as well as between knowledge and power; and individual's understandings are constructed and evolve from experience of the natural world and interactions with others, and there is no way to get direct knowledge about the real world. Table 3.1 gives an overview on specifications of positivism and constructionism in relation to epistemology.

Positivism	Constructionism	
Regards the world as <i>objectively</i> 'out	Claims that the <i>only</i> world we can study	
there', real and completely separate	is a world of meanings, represented in	
from human-mean-making.	the signs and symbols that people use to	
	think and communicate.	
Asserts there is only one true, objec- tive knowledge, which transcends time and cultural location.	Accepts that there are multiple knowl- edges, and that knowledge is highly contingent on time and cultural loca- tion.	
Views knowledge as based on facts	Views knowledge as constructed	
that are 'out-there-in-the-world' waiting to be discovered.	through people's meaning-making.	
Asks of knowledge 'is it true?'	Asks of knowledge 'what does it do?',	
	'how can it be used – by whom, and to what ends?', 'whose interest does it serve?', 'what does it make possible?'	

Table 3.1: Comparison between epistemology of positivism and constructionism (according to Stainton 2005, p. 81)

A specific approach of constructionism is presented by some system theory orientated authors (e.g., Maturana 2004, 1988, Luhmann 1990); they see researchers as observers; researchers are mainly external to the observed topic and therefore having a blind spot because of their own background. In the Radical Constructivism of Ernst Von Glasersfeld there is no separation between observer and observed topic; the observer creates the perception (e.g. 2007, 1995). Every research and its outcomes are, at the very least, constructed from the background of the individual researcher and the background and culture of the specific science/s. As a result, research activities need a clear systematic design which allows for examination by other researchers. This allows elimination or at least understanding of the background of the blind spot, and a satisfying degree of impartiality in observation and theory development can be achieved.

#### 3.2.2 Determinism vs. voluntarism

As soon as morality is in discussion (as in this research), it has to be reflected whether humans as well as their attitudes and behaviours are determined (regarded as external to the human will) or voluntaristic (human will as fundamental or dominant factor). Obviously human beings are determined to behaviour patterns but within that there many opportunities for voluntaristic action.

The deterministic hypothesis is provided by contemporary brain research and the voluntaristic by philosophers in the tradition of enlightenment (e.g. Smith 2011, Nichols 2008, Bommer 2007, and Geyer 2004). In company with other researchers (e.g. von Foerster 1991) Maturana developed a middle way:

"Human beings are capable of describing a certain action as responsible... The experience of choice and decision, which we human beings make, does not at all contradict our structuredeterminedness. Human ... may, however, by virtue of a perspective opening up in a meta-domain, make the experience that they have a choice" (Maturana 2004: 76).

Assessing positivism and constructionism I tend to link positivism with determinism and constructionism with voluntarism, because positivism is characterised by objectivity and constructionism by human meanings and their social background. The social background, however, is characterised by issues indicating practical determinism; economic and political constraints ('Sachzwänge') minimise autonomy of decision. The Marxian critical theory may help to transcend the dilemma by emancipating human beings of these constraints (Hinkelammert 2011).

#### 3.2.3 Induction, deduction and abduction

Induction is a method with the aim drawing conclusions from observations in order to establish regularities from multiple observations and find generalisations (general laws of cause and effect). It follows four main stages: observation, analysis, inference (from analysis of regularity, infer generalizations – 'laws of nature'), confirmation (test through other observations). The theory is derived from observations made. Induction is the typical method of natural science; the historical parent of induction is Francis Bacon (Stainton 2006).

Deduction is theory-driven. It is explicitly based on preconceptions or hypotheses drawn from theories (historical parents: Euclid and Aristotle – contemporary representative: Popper [1959]). It also follows four main steps: theory (preconceptions), hypotheses deduced from the theory, observation, confirmation or falsification.

Both, deduction and induction are used to explain the world. By that they deal with complexity by reductionism. Positivist research gets knowledge by explanation. Explanation seeks for an abstract and pure statement of cause and effect to get a simple, general law. As such positivism smoothes out complexity and is highly reductionist. Constructionist research aims to get knowledge by a process of interpretation; its goal is not explanation but explication.

Explication deals with complexity through abduction. Abduction is the "process of forming an explanatory hypothesis" (Peirce 1955, p. 67). Abduction constructs new theory by a process of identifying naturally occurring surprises or deliberately creating theories. Its method is syllogism. Strictly speaking syllogism is a deductive argument: if A then B; A is true; therefore B is true. This argument becomes an abductive argument in the case if A is not necessarily true<sup>32</sup>.

An observer uses abduction to formulate a model, deduction to derive hypotheses from that model which are used to test the model (looking for refutation of the model in a Popperian way) and then if the model

<sup>&</sup>lt;sup>32</sup> Example of such a syllogism: The lawn is wet. But if it rained last night, then it would be unsurprising that the lawn is wet. Therefore, by abductive reasoning, the possibility that it rained last night is reasonable.

stands up over time for many observers and many tests it is justified by induction.

Stainton (2005) presents the issues discussed above in a summary (Table 3.2). However, all three methods could be used as a positivist or as a constructivist. The difference between the two positions are the different meanings an observer, attaches to the model (theory); either it is the way the world is, or it is the way the observer has constructed the world.

Logic of enquiry	Paradigm	Ontology	Epistemology	Research aim	Data gathering	Method
Inductive	Positivism	The world exists 'out there': separate of human meaning- making, it consists of discrete and observable social events and phenomena that are lawfully related.	Knowledge is objective and can be tested against a benchmark of truth.	To explain the world in terms of 'laws of nature'.	to develop theories	Observe the world, dentify systematic regularities, induce universal laws and increase confidence in term by further obser- vation
Deductive	Positivism	The world exists 'out there'; separate of human meaning- making, it consists of discrete and observable social events and phenomena that are lawfully related.	Knowledge is objective and can be tested against a benchmark of truth.	To explain the world in terms of 'laws of nature'.	to test theo- ries	Develop theories, derive and theories thypoth- eses in ways to allow them to be falsified
Abductive	Construc- tivism	The world as we 'know' is constructed through human meaning-making. It is world of representations, signs and symbols.	Knowledge is constructed, multiple and a means to exer- cise and/or resist power.	To explicate the social world – to get insight and understanding how it operates.	to develop hypotheses	Observe or create anomalies or surprises – examine the 'residue of the unexplained'

*Table 3.2: Overview on definitions and applications of philosophies of methodology (according to Stainton 2005, p. 89)* 

#### 3.2.4 Practical application of methodology

Checkland and Holwell (1998) specify the relationships between the concepts of methodology, theory and practice by using these elements: a 'framework of ideas' (F) in which knowledge about the situation being researched is expressed (e.g. current theory of a particular discipline); a methodology (M) in which the framework is embodied (marshalling various methods, tools and techniques appropriate to the framework; using them to investigate the situation of interest); a situation of interest or 'area of concern' (A) (e.g. particular problem in a discipline or real-world problem situation).

Analysing the relationship between F, M, and A, Jackson (2000) derives four types of research:

'Scholarship' is essentially self-contained within a discipline. F is a current appreciation of the nature of the discipline and the knowledge contained, M presents the good practice in the discipline, and A details a particular area of concern in the discipline.

Mode 1: 'positivist hypothesis testing', hypotheses that attempt to describe the behaviour of a part of the real-world are derived from the F of the relevant science. M describes particular experiments and observations that need to be made and how they should be carried out in order that the hypotheses can be tested in the real-world; experiments are carried out and observations made in the A to test the hypotheses.

'Mode 2' complements 'Mode 1'. Knowledge is produced to satisfy the demands of particular users. Research is organised around a particular A and is generated in negotiation with those who find the outcomes useful. Because the research revolves around a real-world A, it is unlikely that any single discipline will be able to provide a suitable F. A 'transdisciplinary' M is needed allowing more flexibility and transferable problem solving capability.

Kurt Lewin tested in late forties of the past century complex social and psychological processes in action, during their process of implementation; hereby he constituted the basis of 'Action research' (Lewin 1946). Action research involves the process of actively participating in an organization change situation whilst conducting research. The action researcher constructs an F from an A (Mode 2); hypotheses can be deduced from this F which then can be further tested by the researcher or other researchers (Mode1). Furthermore, process and results depend on the emphasis of the action researcher and are therefore either more F (= positivist) or A (= interpretative, involved in process) orientated.

Contemporary system thinking predominantly aims at an intervention in some real-world 'area of concern' (A). The emphasis is therefore on the relationship between A and M, and on a methodology serving practice. However a firmer theoretical anchoring and by that a more powerful F are needed for a full understanding and an improved systems methodology.

#### 3.2.5 Assessment of the research philosophy

My research discusses the dynamic interplay of SMEs, morality and (standardised) management systems within their common environment and their effect on sustainable performance of SMEs. This general aim was formulated in research questions which have been answered at least partly by literature; however a quite large number of gaps are open which have to be processed with an appropriate research methodology.

An unpretentious assessment of the gaps shows two trends: Quite a lot of the gaps ask for nomothetic measures gained by a relatively large sample of SMEs or additional literature review enlarging the general outlook, and a similar number for a more idiographic approach with relatively detailed case studies. To come up with these unequal requirements a frame work of qualitative and quantitative research is needed. This first assessment has to be controlled by further reflections of methodology (see 3.3, p. 165) and practical use.

Because I did not find in literature a theory or model to explain the dynamic interplay of SMEs, morality and (standardised) management systems within their common environment as well as their effects on sustainable performance, the methodology of abduction is appropriate, because it allows developing theory and adequate hypotheses to be tested and it corresponds to a middle way between determinism and voluntarism. Abduction also matches with 'action research' and contemporary system thinking, both methodologies regarding research as an ongoing process. For the building of a suited model 'soft systems methodology SSM' of Checkland and Holwell (1998) will be applied (justification see 3.6, p. 174ff).

# **3.3 Design of the research**

In the previous section I defined abduction and a mix of nomothetic measures and idiographic approaches as suited to answer the research questions and to build a model.

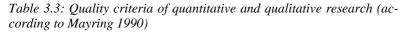
I had several reasons for deciding to work with 'adaption' as research methodology and a mix of quantitative and qualitative methods.

Research is characterised by two main streams of methods (Atteslander 2003, Seipel and Riecker 2003, Mayring 1996): quantitative and qualitative research methodologies. Nomothetic measures comply with quantitative research and idiographic approaches with qualitative. Both streams are based on theoretical reflections which have to be examined by empirical procedures, and both use theories to explain general correspondences.

Quantitative research refers to the systematic empirical investigation of phenomena via statistical techniques. The process of measurement is central to quantitative research because it provides the fundamental connection between empirical observation and mathematical expression of quantitative relationships. Qualitative research is the examination, analysis and interpretation of observations for the purpose of discovering underlying meanings and patterns of relationships, including classifications of types of phenomena and entities.

Decisive elements of any research are its quality criteria, which are used to guarantee its trustworthiness. Table 3.3 illustrates possible quality criteria for both streams.

Quantitative research	Qualitative research	
Objectivity: Would another researcher detect the same results?	Documentation of procedure: Is another researcher able to reproduce the procedure?	
Validity: Does the measurement tool quantify what it ought to?	Assurance of interpretations: Are the arguments justified? Are alternative interpretations reflected?	
Reliability: Are the results repeatable?	Use of rules: How far the research follows systematic procedures?	
	Nearness to subject: How far the daily life of person is reflected?	
	Validation by communication: Are the collected data discussed with people?	
	Triangulation: How the knowledge about the subject is enlarged by other methods?	



In research praxis both streams are often combined. The data is collected and can be analysed separately or after being combined. The qualitative way is frequently used to define a basis for a larger quantitative research. Table 3.4 shows a model used to compare the sequences of quantitative and qualitative research.

Common sequence	Quantitative research	Qualitative research
Explication and specifi- cation of problem	Justification of research, hypotheses	Justification of research or open research ques- tion
Explication of theoreti- cal background	Actual state of research, theoretical background	Inherent understanding
Empirical basis	Description of sample, material	Description of individual case
Methodological proce- dure	Description of data collection, edition and analysis Justification of procedure	Description of data collection, edition and analysis Justification of proce- dure
Results	Presentation, summary, analysis, reference to hypotheses	Presentation, summary, analysis, reference to (open) research ques- tions
Conclusions	Quality criteria, rele- vance of results	Quality criteria, possible generalisation of results

*Table 3.4: Common model of comparability in sequences (according to Mayring 2000)* 

Both methodical streams have their specific research approaches. I examine every of the shortly presented methods, whether it can be used for answering my research questions.

## 3.3.1 Quantitative research

According to Gay (1996) the following methods are appropriate to quantitative research:

<u>Survey research:</u> Classical social science concentrates on surveys. The Oxford English Dictionary (2007 – electronic version) defines survey as:

"A systematic collection and analysis of data relating to the attitudes, living conditions, opinions, etc., of a population, usu. taken from a representative sample of the latter". A survey basing on a questionnaire is an appropriate method to get comprehensive information to answer the majority of research questions<sup>33</sup>.

<u>Descriptive research</u> involves collecting data in order to test hypotheses or answer questions concerning the current status of the subjects of the study. It determines and reports the way things are.

Survey data allows the use of methods of descriptive research.

<u>Correlational research</u> attempts to determine whether and to what degree a relationship exists between two or more quantifiable variables. However, it can never establish a cause-effect relationship. The relationship is expressed by a negative or positive correlation coefficient, which is a number between -1.00 and 1.00.

Because a questionnaire includes different elements and can be used for different SMEs, there are quantifiable variables that can be correlated and this method is appropriate for my research<sup>34</sup>.

<u>Causal-comparative research</u> establishes a cause-effect relationship between two variables, and establishes a relationship, but the independent cause variable cannot be manipulated, an example of such a variable might be 'gender'.

<sup>&</sup>lt;sup>33</sup> E.g. organisation and ownership, differences between owner-managers and employed managers, replacement of managers, employ of ethical standards, employ of processes, technology and knowledge management, market fluctuations, influence of (standardised) management systems on the definition of policy and corresponding activities, company designed management systems, problems with third party auditing, internal effects of standardised management systems, influence of management systems on morality of SMEs, behaviours of auditors, or influence of virtues on management systems, implementation of standardised management systems, interplay of SMEs, standardised management systems and morality within their common environment.

<sup>&</sup>lt;sup>34</sup> E.g. organisation and ownership, employ of ethical standards, employ of processes, technology and knowledge management, market fluctuations, influence of (standardised) management systems on the definition of policy and corresponding activities, company designed management systems, internal effects of standardised management systems, influence of management systems on morality of SMEs, interplay of SMEs, standardised management systems and morality within their common environment.

In a SME there are independent variables which cannot be manipulated (e.g. industry, size, country, year of foundation, gender and age of interviewees). Therefore methods of causal-comparative research are appropriate to be used in my research.

Experimental research establishes the cause-effect relationship and does the comparison, but the independent cause variable is manipulated. The cause, the independent variable makes the difference. The effect, the dependent variable is dependent on the independent variable.

Because I want to observe companies during a longer period, methods of field experiments are applicable in my research (Andersen et al. 2004, Carpenter et al. 2004). The major difference between a field experiment and laboratory experiment is that in field experiments there is a limited scope to control the variables, while laboratory experiments have adequate scope to rigorously control the variables. The randomisation and manipulation of independent variable is difficult in field experiments.

#### 3.3.2 Qualitative research

According to CMU (2011) the following methods are appropriate to qualitative research:

<u>A biography</u> is a detailed description or account of someone's life. It is more than a list of basic facts (education, work, relationships, and death). Biography also portrays the subject's experience of those events. The method of a biography can be applied in my research to the history of individual companies.

<u>A case study</u> is an intensive analysis of an individual unit (e.g. a person, group, or event) stressing developmental factors in relation to context. Case studies may be descriptive or explanatory. Case studies try to generalise from a case to theory (Meredith 1998). Relating to the number of cases, the lower number will allow the researcher to obtain more information (Voss et al. 2002); however, a multiple case study increases reliability and external validity (Yin 1994).

Case studies allow the recording of the history and the specific attitudes and behaviours of a company and to answer a great number of research questions<sup>35</sup>.

<u>Ethnography</u> is a method aimed at learning and understanding cultural phenomena which reflect the knowledge and system of meanings guiding the life of a cultural group.

Ethnographical issues are helpful to answer specific questions in my research<sup>36</sup>.

<u>Grounded theory</u> is a systematic methodology involving the generation of theory from data (Strauss and Corbin 1994). Rather than beginning with a hypothesis, the first step is data collection, through a variety of methods. From the data collected, the key points are marked with a series of codes, which are extracted from the text. Content analysis bears resemblance to grounded theory; however it concentrates on specific texts (Krippendorff 2004, Moystin 1985).

The analyses of data help to answer research questions and to formulate hypotheses. Because detailed individual opinions of interviewees (from transcripts) are not of primary interest in my research, content analysis is of less interest.

<u>Phenomenology</u> is used to describe a body of knowledge that relates empirical observations of phenomena to each other.

<sup>&</sup>lt;sup>35</sup> E.g. SMEs and culture, employ of ethical standards, differences between owner-managers and employed managers, replacement of managers, knowledge management, market fluctuations, influence of (standardised) management systems on the definition of policy and corresponding activities, company designed management systems, problems with third party auditing, influence of management systems on morality of SMEs, behaviours of auditors, or influence of virtues on management systems, implementation of standardised management systems, interplay of SMEs, standardised management systems and morality within their common environment.

<sup>&</sup>lt;sup>36</sup> E.g. SMEs and culture, differences between owner-managers and employed managers, influence of (standardised) management systems on the definition of policy and corresponding activities.

Methods of phenomenology help understand specific elements within or external to SMEs<sup>37</sup>.

Symbolic interaction, also known as interactionism, is a sociological theory that places emphasis on micro-scale social interaction to provide subjective meaning in human behaviour, the social process and pragmatism.

Several of my research questions concern subjective meanings; therefore methods of symbolic interaction are helpful to understand interactions within and external to companies<sup>38</sup>.

<u>Hermeneutics</u> is the study of the theory and practice of interpretation (of written texts, especially texts in the areas of literature, religion and law).

Within my literature review different texts have been interpreted (e.g. standards, statements of authors, company documents), that is why hermeneutics are important to answer some research questions.

<u>Participatory action research</u> is a recognized form of experimental research that focuses on the effects of the researcher's direct actions of practice within a participatory community with the goal of improving the performance quality of the community or an area of concern.

A significant answering of questions needs a longer period of observation. SMEs wait feedbacks during this period; these will probably influence their attitudes and behaviours. The research may, therefore, contain issues of participatory research.

In this section I illustrated that a number of nomothetic (quantitative) measures and idiographic (qualitative) approaches are suited to answer the research questions. These methods are used in the next sections to build specifications of the methodology.

<sup>&</sup>lt;sup>37</sup> e.g. employ of ethical standards, differences between owner-managers and employed managers, replacement of managers, knowledge management, influence of management systems on morality of SMEs

<sup>&</sup>lt;sup>38</sup> e.g. interplay of SMEs, standardised management systems and morality within their common environment

# 3.4 Quantitative research approach

In the previous section I presented a number of quantitative methods which help to answer the research questions: survey and field experiment, as well as descriptive, correlational and causal-comparative research methods.

Because a survey based on a questionnaire produces selected data, it is the most suitable tool for answering the research questions. These data can be used for different sorts of analysis (e.g. description, correlation, causal comparison).

Since the beginning of my research activities in the eighties of the past century, I have used quantitative methods in the execution of quantitative analyses of job advertisements and in the carrying out of different surveys based on structured oral interviews with large numbers of interviewees (between 100 and 1000). Therefore, for this research concerning SMEs, I also aimed at collecting quantitative data based on a survey.

Since I want to observe companies over a longer period, methods of field experiments are applicable in my research. The longer period consists of at least two phases of survey; this allows observing changes in attitudes and behaviours of companies. However, the longer period suffers from the problem of the companies being ready for the second phase.

The design of a questionnaire depends on the purpose of the survey and the planned size of the sample. The purpose of the survey is to answer as many research questions as possible. Therefore the questionnaire should be quite differentiated and consist of a great number of questions basing on the literature review and my personal experiences with companies; the required sample size of the questionnaire means that it could be difficult to find an adequate number of SMEs ready to participate. However, sufficient sample size is needed to get a representative sample which guarantees a satisfactory validity. To suit purpose and size a possible compromise is a mix of a quite large questionnaire and a smaller number of companies and interviewed persons – with the risk that validity is reduced.

The reliability of a questionnaire is optimal, if each question is phrased so that all respondents interpret it the same way and if the answers are clearly defined (Surveyspro 2012). The later can be realised by a set of pre-formulated answers (e.g. dichotomies or multiple choice answers) but introducing the problem that not all possible issues are taken into account or that the interviewees choose an answer only because it is offered. This dilemma can be solved with open questions with no pre-formulated answers obtained by oral interviews. However this gives rise to another problem: the answers have to be coded for a quantitative analysis. The validity and reliability of these codes is improved if they are controlled by somebody external to the research team.

For an optimal answering of my multiple research questions I choose a mix of a large questionnaire with minimal pre-formulated questions and a quite representative sample of SMEs of different industries, size, countries and management systems; and in order to obtain a comprehensive view of each SME the sample should contain different interviewees from different hierarchical levels, departments and genders.

# 3.5 Qualitative research approach

After reflecting on quantitative methods I discuss possible qualitative approaches to answer the research questions.

According to my literature review and my personal experiences, case studies are optimally suited to research where companies are the subject of the research. All other qualitative methods mentioned above can be applied for the analysis by using the cases. Biography and participatory action research help to understand the history and development; hermeneutics are used for interpretation of company texts (e.g. brochures, websites); ethnography, phenomenology and symbolic interaction sustain the interpretation of internal and external attitudes and behaviours (e.g. tradition, culture, communication); and grounded theory supports the design of hypotheses.

The majority of qualitative data are gained by using the questionnaire mentioned in the previous section. Cultural, communicational and behavioural issues have to be seriously integrated by formulating the questions. The answers have to be seriously recorded to sustain the individuality of the interviewee.

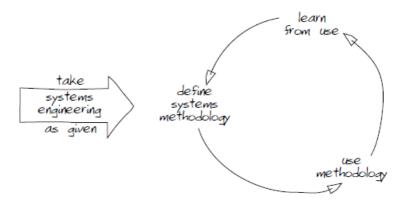
Other qualitative information are taken from company documents (as brochures, websites, prospectus, advertisements), observations during the company visit (e.g. overall picture, installations, behaviours of people) and as far as possible from external feedbacks (e.g. customers, neighbours, media).

The analysis of data has to be as multifaceted as possible (by applying as much of the methods examined above as possible). A systematic pattern of presentation makes the different cases comparable.

## 3.6 Building of the model

After assessing quantitative and qualitative methods to collect and analyse data for answering the research questions a methodology is required to construct a model from the data quantitative and qualitative data collected.

Because I did not find in literature a suitable theory or model to explain the dynamic interplay of the four elements and their effects on performance of SMEs, the methodology of abduction is appropriate, because it allows developing theory and adequate hypotheses to be tested and it corresponds to a middle way between determinism and voluntarism. Abduction also matches with 'action research' and contemporary system thinking, both methodologies regarding research as an ongoing process. For the building of desired model I apply 'soft systems methodology SSM' of Checkland and Holwell (1998). For Checkland "systems thinking is simply the body of ideas which takes that thought seriously and tries to develop nonreductionist, more holistic ways of thinking about complexity" (Checkland 1998, p. 193). He designed a model of strategy for system research at the University of Lancaster. The system is technical and characterised by a closed loop in which elements create the system itself (see Figure 3.1).



*Figure 3.1: Strategy for system research at Lancaster (original drawing of Checkland)* 

That is why Checkland redefined the model to something new, which he called 'soft system methodology'. The practical use of the new system showed its advantages with working information systems (Figure 3.2).

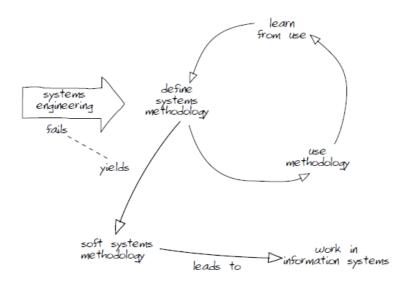


Figure 3.2: The outcome of system research at Lancaster (original drawing of Checkland)

In technical systems the formulation of objectives is part of the game. In human situations, however, it is quite difficult, because objectives are multi overlapping. This insight provoked some fundamental rethinking; systems have to be adaptive wholes "which can adapt and survive within a changing environment which is delivering shocks to it" (Checkland 1998, p. 199). That is why hard systems engineering cannot work in management situations; systems for real world companies have to be built similar to systems of physical environment as ongoing learning systems. SSM is a broad methodology to manage real world situations; it explores many different perceptions of the world by using a structured debate (Figure 3.3).

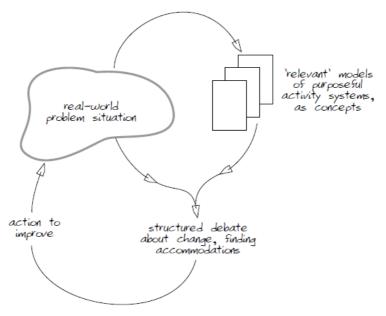


Figure 3.3: Soft system methodology as a learning system (original drawing of Checkland)

The classic SSM inquiry has seven steps – starting in the real world, reflecting in system thinking about the real world, and returning back to the real world.

The first step starts in the real world and reflects situations considered problematical. In step two the problem situation has to be expressed in all its richness (structures, processes, climate, people, issues expressed by people, and conflicts); if possible this richness has to be visualised in a picture form.

The third step moves from the real world into the world of systems; it is most challenging part of the methodology, because it looks for root definitions of relevant purposeful activity perspectives expressed in step two. For every perspective the structured model process has to be applied.

The model process follows the mnemonic CATWOE. For the perspectives following questions have to be answered – keeping in mind that diverse answers are possible depending on the point of view of the elements of the systems (hierarchical level, department):

- Customers: who (or what) benefits?
- Actors: who facilitates the activity for customers?
- Transformation: what is transformed from 'start' (input) to 'finish' (output)?
- Weltanschauung (world view): what gives the activity some meaning?
- Owner: to whom the system is answerable and/or could cause it not to exist?
- Environment: what influences but does not control the system?

Reflecting developments in system thinking, Williams (2005) proposes to change the mnemonic to BATWOVE by replacing C by B and V. B stands for Beneficiaries and V for Victims; both can include ideas as well as people.

In step four the conceptual model is designed by using the root definition. Hereby these system properties have to be considered: an ongoing purpose; a means of assessing performance; a decision taking process; components that are also systems (i.e. sub-systems); components that interact; an environment (with which the system may or may not interact); a boundary between the system and the environment (that may be closed or open); resources; and continuity.

The SSM model building is an ongoing process about cycles of learning rather than finding a maximal solution first time. The optimising of the model uses different owners, perspectives, Weltanschauungen to detect additional issues or contradictions.

The fifth step leads by into the real world by comparing the model with the real world by assessing questions as: Does the model represent the real world and help to understand it? Can its performance be identified and measured? Step six asks for changes by applying the model. A review by using the issues of CATWOE / BATWOVE allows systematically designing of desirable and culturally feasible alternatives; this process is accompanied by analyses of social and political issues.

With step seven, finally, the methodology finds its feedback loop by implementing action to improve the problem situation in the real world and eventually starting a new cycle.

The methodology of abduction allows developing a theory and adequate hypotheses to be tested. The description of the development of the 'soft systems methodology SSM' of Checkland and Holwell (1998) suits to abduction and its implementation with the seven steps shows that SSM is appropriate for designing a model explaining the dynamic interplay of SMEs, morality and (standardised) management systems within their common environment as well as their effects on sustainable performance of SMEs. The steps help to systematically design the model bearing in mind that the model has to be optimised during the process of development and practical use in real world.

To get a broader validation, the SME model designed according to SSM could be scrutinised by applying the issues of 'Critical System Heuristics' (CSH) of Ulrich, W. and Reynolds (2010) building on 12 boundary questions divided into involved and affected participants. CSH is a philosophical framework to support reflective practice. The boundary questions aim lightening a situation by paraphrasing what we understand, and thereby the questions help to get a more holistic view. The analysis incorporates sources of motivation, control, knowledge, and legitimacy. The better understanding of the situation supports ways for improving by integrating people with different perspectives; by that CSH aspires an emancipatory focus.

## 3.7 Research procedure

After assessing quantitative and qualitative methods to collect and analyse data for answering the research questions and describing the SSM methodology of Checkland to construct a suitable model, I define the research procedure by answering the question how to synthesise the project requirements with the methodological approaches.

The analysis of the interplay of the elements SMEs, morality / sustainability, management systems and the environment providing effects on SMEs as well as of changes of attitudes and behaviours asks for an extended period of research involving an ongoing adaption of the procedure and design of hypotheses.

To support the development of the research procedure, in parallel I consequently revised the research status by ongoing literature review, membership in (research) associations, and participation in international conferences. The large number of examined literature is extensive, and significantly larger than that being quoted and listed in the references. The membership in the American Association for Quality ASQ (senior member), the Deutsches Netzwerk für Wirtschaftsethik dnwe (German Branch of EBEN European Business Ethics Network), International Society for Business, Economy and Ethics ISBEE, and the Schweizerische Normenvereinigung SNV (Swiss Standards Association – expert member for quality, environmental and social management standards), allowed me to examine recently developed knowledge. In conferences I discussed my research development by presenting papers.

In the last sections I reflected the framework given by action research and SSM. For getting corresponding information data gathering instruments are required; that is why I plan these steps of research procedure using the issues of action research (foreseen as list of contents of Chapter 4): 4.1 Introduction

4.2 Stage 1 – A: Pre-test and round 1 of interviews, definition of hypothesis

4.2.1 Data collection, results and analysis

4.2.2 Feedback to companies

4.2.3 Definition of hypotheses

4.3 Stage 1 – B: Design of the SME model and measuring tool

4.3.1 Application of Soft System Methodology SSM

4.3.2 Review by Critical System Heuristics CSH

4.3.3 SME-model – interplay of the elements

4.3.4 Measuring tool

4.3.5 Review of research hypotheses

4.4 Stage 2: Round 2 of interviews and analysis of results

4.4.1 Round 2 of interviews

4.4.2 Analysis of aggregated data - Rounds 1 and 2

4.4.3 SME - results

4.4.4 Morality - results

4.4.5 Management system - results

4.4.6 Environment - results

4.4.7 Exploring interrelationships acc. to the SME model

4.4.8 Key findings of the longitudinal survey

4.4.9 SME model and measurement tool

4.4.10 Critical review of results

4.5. Stage 3: Comparison with other surveys

4.5.1 Comparison with results of other surveys

4.5.2 Comprehensive view

4.5.3 Review of the findings

The effective measuring of changes within companies demands a longitudinal observation based on at least two survey rounds with a time interval of at least two years for interviews applying a comprehensive questionnaire, and a longer period for other forms of information (e.g. public brochures, company websites, and internal documents like mission statements and procedures); however, the longer period of being integrated in a research project bears the problem that companies hesitate to collaborate (e.g. uncertainties of possible changes in ownership, activities or management; disposition of interviewees).

I prepare two forms to present the data after the visits to the companies: case studies and tables with quantitative data.

The case studies are presented as tabled summaries containing the feedbacks of interviewees. The tables enclose all the questions of the questionnaire. All given answers are listed with keywords; if different persons give the same or nearly the same answer, the number of these answers is mentioned (e.g. environmental duties: systematic separation of wastes (3)). After listing the answers I review the lists by giving comments to most of the answers; these comments are the background for the discussion with the companies.

This systematic presentation of feedbacks is possible, because the psychological situation of the interviewed persons is an element of lower interest, and therefore the answers are not registered in their full length.

Using the experiences of round 1 of interviews and the company model I design a specific table as a basis for a comprehensive evaluation of individual companies – combining the questions of the questionnaire with the specifications of the SME measurement tool (see Table 3.5). It allows characterising a company according to the general matrix of the tool (see 4.3.3, p. 220ff) and differences or developments between the two rounds can be mentioned and analysed.

	Round1	Round2	Changes	Comments
SME - general data			Ŭ	
Ownership				
Leadership, decisions				
making				
People				
Patterns of organisa-				
tion				
Culture/traditions				
Values: ideal boss,				
ideal employee				
Communication				
Finance: Turnover,				
cash flow, profit				
Resources: people,				
finance, time				
Environment				
Society: Public – spon-				
soring				
Society: Legislation				
Society: Associations				
Economy: Innovation,				
agility, PR				
Economy: Market				
position, geographical				
range				
Economy: Customers,				
competitors				
Economy: Suppliers,				
partners				
Economy: Financing				
Physical Environment:				
Sustainability				
Morality Morality: Mativation				
Morality: Motivation				
Morality: Specifications				
Morality: Sustainability, codification				
Management system				
MgmtSystem: Mis-				
sion/strategies, state- ment				
MgmtSystem: Range,				
formality				
ioimaiity		I		

MgmtSystem: Q: definition, -methods, -praxis		
MgmtSystem: Con- trolling, risk mgmt.		
MgmtSystem: Knowledge mgmt.		
MgmtSystem: Com- prehensiveness		

*Table 3.5: Table as a basis for the evaluation of the individual company* – *following the specifications of the SME measurement tool* 

## 3.8 Design of the questionnaire

Because a survey based on a questionnaire produces selected data, it is the most suited quantitative tool answering the research questions. The resulting data can be used for different sorts of analysis.

The design of a questionnaire depends on the purpose of the survey and the planned size of the sample. For an optimal answering of my multiple research questions I choose a mix of a large questionnaire with minimal pre-formulated questions and a sample of SMEs of different industries, size, countries and management systems; and to get a comprehensive view the sample should contain different interviewees from different hierarchical levels, departments and genders.

The majority of qualitative data are gained by using the questionnaire. Cultural, communicational and behavioural issues have to be seriously integrated by formulating the questions. The analysis of data has to be as manifold as possible (using the methods mentioned above). A systematic pattern of presentation makes the different cases comparable.

The basis for the design of the questionnaire are my experiences from consulting and certification, the general literature review, the gaps in literature review, the analysis of research concerning SMEs, morality and (standardised) management systems, and an investigation regarding possible issues concerning the elements. The questionnaire has to integrate elements concerning SMEs, morality / sustainability, (standardised) management systems and their environment (questionnaire see Annexes 6.4, p. 473ff); by that it copes with the requirement of the methodology (optimal mix of quantitative and qualitative issues).

The questionnaire contains open and half-open questions allowing individually framed answers concerning visions, strategies and objectives, experiences, changes in attitudes and behaviours, company culture, morality, and (standardised) management systems. One closed question was taken from a survey of the Institute of Business Ethics, University St. Gallen, so as to permit a comparison of the sample with the attitudes of large companies (Ulrich, P. et al. 1998).

Additional issues are questions concerning personal data as position within company, age, gender, education and religion serving as independent variables. These questions have to be completed with company data as industry, size, market position, ownership, financial situation and year of foundation (by a specific questionnaire for owners or topmanagers).

Because I aimed to examine the development of the participating SMEs during several years, the design of the questionnaire started in a very early stage in which I not yet integrated the application of system theory and especially SSM. That is why the questionnaire contains issues which not are perfectly linked to the SME model and the measuring tool (e.g. questions concerning ideal boss and employee, private problems). However, I did not modify the questionnaire for round 2, because I wanted to get the possibility to identify and compare detailed changes concerning organisation, visions and strategies, morality / sustainability and management systems over the two rounds of interviews.

## 3.9 Interview procedure and design

The interviewees may represent a mix of management and staff (all hierarchical levels and departments).

All survey partners get oral and written information (see Annexes 6.5, p. 482f) about the procedure and the handling of data. Before the meetings within the companies I have a look at websites. I start the meetings with a tour through offices and workshops and ask for details of activities.

The interviews take place face-to-face in a solitary room allowing interviewees to bring in their arguments frankly. They are informed before the interview about the handling of their data (e.g. personal remarks were made anonymous before their integration into a company's report).

Before leaving the company I discuss with the owner / top-manager vague situation and ask for additional information (e.g. brochures, monitoring cards, media reports).

The handling of individual interview data demands reasonable care. During the survey the interview answers of the companies and individuals are recorded on a laptop and for security on an external data medium. All the names of companies and individuals are coded; the codes stored in a separate file. Paper documents are stored securely. Interviewed people are informed in this regard. After the analysis of the entire interview, data and paper documents are deleted. Only the result files are stored. Within the final presentation no company names are mentioned.

All the answers are registered into an Excel-file, not in full sentences but in keywords. If an answer is not clear enough or too general (e.g. question: "How would you describe the style of leadership within the company?" – answer: "Good".), a more defined description is asked. Because I am always the only interviewer, it is a valid assumption that keywords are mostly used with the same meaning; on this basis the results are more comparable.

Before round 2, the interview method has to be reviewed basing on the experiences of round 1 (e.g. questions not clear enough, weighting of lists with statements [see 'Questionnaire', Annexes 6.4]).

For the quantitative analysis the keywords are classified and grouped in codes. The validity of these codes is optimised by the examination of sociologist<sup>39</sup>; if a code is not understandable or clear enough the examining person elucidates it together with me. For the application in a statistical calculation the codes are transferred into values; SPSS (Statistical Package for the Social Sciences – PSAW Statistics 18) is used as the technical basis for the calculation.

The interview design contains the interview procedure in companies, registration and coding of data as well as the statistical method for quantitative calculation. By that it constitutes results for the analysis of findings.

## 3.10 The way to research partners

In a next step I present the way to research partners after discussing the research methods and their transfer into praxis.

First, I aspired a systematic collection and analysis of information concerning the effects of the use management systems within about 15 SMEs of three European countries (Switzerland and Germany – two countries using the same language, but differing in politics, culture, economy and social systems; and Great Britain – the country having a stringent tradition in SMEs research, and in which 'The Open University' is located).

To motivate companies for two interview rounds, I contacted ten SMEs using the standard series ISO 9000ff (quality) and ISO 14001ff (environment) which had been certified by Bureau Veritas (certification body I was working for). I explained the aim of the research in an article

<sup>&</sup>lt;sup>39</sup> Silja Bürgi, BA in sociology, Dr in law.

for "Management und Qualität", the main Swiss journal for quality management, to advise a wider public (Bürgi 2002). However, I got minimal feedback from the contacts and the article. Only one company using several standardised management systems (quality, safety, and environment) was ready for interviews (an institution for handicapped adult persons with sheltered workshops).

I used this company for the pre-test. Six persons were interviewed, representing different departments and hierarchical levels. Because the top-manager was not available, another manager answered general company questions.

The pre-test showed that several questions were not clear enough, and therefore some amendment of content and methodology was need-ed<sup>40</sup>. Because there was little interest of the top-manager for a second round of interviews, and an additional meeting with the interviewee was needed for updating the first round, the company was not integrated in the final sample.

In 2002, a new activity as manager of an adult education institution of a church in Canton<sup>41</sup> Nidwalden, Switzerland, brought me back to the region in which I grew up. Personal relations and contacts as a member of the local business community gave my opportunities to get in touch with many SMEs; in total I communicated with 53 companies. Finally, twenty companies became part of the sample (one of them was split between the two interview rounds resulting in a final number of 21). The main reasons for refusals were no time, no interest, internal changes or intensive external pressure (an external interviewer could intensify the uncertainty of staff), and participation in other research projects.

 $<sup>^{40}</sup>$  Main changes in comparison to final questionnaire (s. Annexes 6.4): Questions have been enlarged or additional issues have been added (e.g. not only contents of visions, but also their implementation in praxis – tradition and culture – leadership). The flow of list B was logical (which could influence the interviewees) and not stochastic.

<sup>&</sup>lt;sup>41</sup> Canton: Świtzerland is composed of 26 Cantons – relatively independent political units, comparable to Counties in UK.

To get a control sample from Germany, I had the chance to meet a minister of religion responsible for consulting companies during a conference of Deutsches Netzwerk für Wirtschaftsethik dnwe. She submitted a list of eleven companies from Southern Germany. Six of them were ready for collaboration. The German sample encloses two problems: All of them were in contact with a minister; their moral background could have been more intensively influenced by Christian faith than in Swiss companies. Three of them (nursing homes) belonged to a Christian holding, a possible contradiction to the desired autonomy of a SME; all three, however, had their autonomous past and organisational development; they shared only the industry and the Christian motivation.

It was not possible to get a second control sample from Great Britain. My contacts with researchers, small business consulting services and local chambers of commerce were ineffective (even from Milton Keynes, the city where The Open University is located). A contact with a mayor of small town in Middle England during the 2004 Conference of the UK Systems Society was encouraging: she hoped to motivate companies with which she already collaborated, but in the end none responded. A contact at the EBEN Conference 2004 with a researcher from Milan, Italy, resulted in the same experience; he also thought that he would easily find research partners in his region, but this was without success.

Because of the difficulty to find research partners in countries other than Switzerland and Germany, my originally aimed country mixture could not be attained, but the originally planned number of companies (15) was well exceeded (27).

Finally I had 20 Swiss and 6 German SMEs being ready for cooperation. They belonged to different industries (quarry, construction, chemistry, electric components, sanitary, furniture, garage, trade, tourism, finance, and health care) and to different sizes (micro, small, and medium).

## **3.10.1** Specifications of the two countries – Switzerland and Germany

Fueglistaller (2011) lists for 2008 the position of SMEs within the two countries by specifying the percentage of companies and of employees working in these companies (see Table 3.6). In Switzerland 2005, 99% of all manufacturing firms were SMEs (small: 96%), and more than 80% of all apprentices have been trained in SMEs (OECD 2005).

Country (data of 2008 in %)	> 10	10-49	50-249	0-249
Switzerland – number of companies	89.3	8.8	1.6	99.7
Germany – number of companies	83.1	14.1	2.3	99.5
Switzerland – number of employees	29.9	21.8	19.3	71.0
Germany – number of employees	19.3	21.8	19.3	60.5

Table 3.6: Number of companies and employees in Swiss and German SMEs 2008 (according to Fueglistaller 2011)

There are some differences between the countries regarding percentages. In Switzerland the number of micro companies and their employees is higher, and the number of small companies is lower. In Germany 10% more people work in large companies than in Switzerland.

### 3.10.1.1 Switzerland – Central Switzerland / Nidwalden

It would be out of proportion to describe Switzerland in detail – especially because nearly all of the analysed 21 companies were situated in the Canton Nidwalden (one company had its domicile in Canton Lucerne, but the owner was an inhabitant of Nidwalden). For a short insight I use issues from "The Swiss Portal" (www.ch.ch):

Switzerland has a population of about 8 million, living on land area of 41.285 square kilometres (half of it uninhabitable [mountains]). For-

eigners account for around 20% of the resident population. Switzerland has four unevenly distributed languages and a wealth of dialects.

The geography of Switzerland is notable for its great diversity. Switzerland's three main geographical regions are the Jura, Plateau and the Alps; the climate varies greatly from one region to another. Switzerland's topography implies that the central plateau is densely populated.

Switzerland's economy is based on a highly qualified labour force performing highly skilled work. The main areas include micro technology, hi-tech, biotechnology and pharmaceuticals, as well as banking, insurance and tourism. The service sector employs the greatest number of people. The age of unlimited economic growth in Switzerland is over. Fear of unemployment has been one of the main concerns of the Swiss for several years.

Switzerland developed slowly over many centuries, as more and more regions came together to form a loose confederation whose members gave each other mutual support. It was only in 1848 that Switzerland became a more centralised federal state (consisting of 26 relatively independent Cantons). This favoured its economic development and ended any possibility that Switzerland might break up.

For the short introduction concerning Nidwalden I use official texts (see www.nw.ch; Nidwalden Contact 2005).

The small Canton Nidwalden (276 square kilometres) mainly consists of one valley, situated in the Centre of Switzerland; its' natural boarders are the Lake of Lucerne to the North, and the Alps to the South.

Before the Second World War the Canton was economically poor. The decision to build a Cantonal hydroelectric power plant allowed industrial development. It became favoured due to the installation of an air force base and associated repair plants which became the basis of a large aircraft industry. The construction of the motorway from Hamburg to Southern Italy brought international integration and a direct railway connection from Lucerne into the national public traffic network. These developments were accompanied by a tax policy favouring national and international companies.

Nowadays, Nidwalden has 40'000 inhabitants (about 80% Catholics, and 10% foreigners). The income per capita is higher than the Swiss average (2005 – Switzerland: CHF 54'031 – Nidwalden: CHF 73'286). Its rate of unemployment is extremely low (2008: 1.6%). It remains in the top Swiss Cantons for taxation of corporate and private bodies (the tax is about half the Swiss average). The mountainous landscape still guarantees a high quality of life.

#### 3.10.1.2 Germany – Bavaria and Baden-Württemberg

Because the control sample consists of only six companies, a detailed presentation of Germany with its 16 Bundesländer (Federal Lands)<sup>42</sup> would be excessive.

The companies of the control sample are situated in the two Southern Federal Lands:

- Baden-Württemberg (35'751 square kilometres): Landkreis (administrative district) Alb-Donau four companies
- Bavaria (70'552 square kilometres):
  - Landkreis Wunsiedel in the North one company (health care)
  - Landkreis Donau-Ries in the Middle West one company (health care)

Baden-Württemberg<sup>43</sup> is one of the economically most powerful, competitive and innovative regions of Europe – especially in the field of industrial high technology. Its rate of unemployment is relatively low (2008: 4.0%).

<sup>&</sup>lt;sup>42</sup> More details see: http://www.deutschland-auf-einen-blick.de/statistik/index. php

php <sup>43</sup> http://de.wikipedia.org/wiki/Baden-Württemberg; http://de.wikipedia.org/ wiki/Alb-Donau-Kreis; http://www.insm-regionalranking.de/ki\_217.html

The Landkreis Alb-Donau is situated in East of the Federal Land and surrounds the city of Ulm. The name of the Landkreis describes its geography: the North being part of the Swabian Mountains, and the South being divided by the upper Danube. In 2007, more than 190'000 people lived on 1'357 square kilometres within Alb-Donau.

Bavaria<sup>44</sup> is a very economical powerful and rich Federal Land which developed in recent decades from an agriculturally-based region to a technology-orientated region with the lowest rate of unemployment in Germany (2008: 3.6%).

The Landkreis Wunsiedel is situated in North-East Bavaria, bordering the Czech Republic. It is part of the tourist area Fichtelgebirge and in 2006 had about 80'000 inhabitants living on 606 square kilometres. The rate of unemployment is relatively high (9.7%), and is one of the reasons for its ongoing and increasing decline in population.

The Landkreis Donau-Ries is situated in Middle Bavaria (Northern Swabia), bordering Baden-Württemberg. The region is famous for its specific geography: a nearly circular dip with a diameter of about 22 kilometres (created by a meteorite impact). Donau-Ries has about 130'000 inhabitants living on 1'275 square kilometres. It has the lowest rate of unemployment in Bavaria; more than half of the employees are working in production industries, but the region is also famous for tour-ism and calmness (no motorways).

## 3.11 Model and measurement design

After assessing quantitative and qualitative methods to collect and analyse data for answering the research questions and describing the SSM methodology to construct a suitable model, the research procedure was designed by answering the question how to synthesise the project

<sup>&</sup>lt;sup>44</sup> http://de.wikipedia.org/wiki/Bayern; http://www.landkreiswunsiedel.de/stdscripts/dp; http://www.donau-ries.de/cms/

requirements with the methodological approaches. I complete this process of the design of the research procedure by describing the way to the design of the SME model and measurement tool.

The questionnaire delivers a lot of data concerning the elements SMEs, morality and management systems and their common environment as well as their effects on sustainable performance of SMEs. The interplay of the elements can scarcely be explained by this conglomerate of data. The experience with the data analysis after round 1 of interviews asks for a model to elucidate this interplay and its effects; this model is designed by applying SSM (see above 3.6, p. 174ff). To integrate and measure the data a specific measurement tool is designed; it consists of a general matrix allowing a general evaluation of the interplay of the elements and their effects in an individual company and specific tables generating particular results (details see 4.3.4, p. 223ff).

## 3.12 Summary and Conclusions

I started into this chapter by summarising the gaps in the research questions. The aim of the chapter was designing a methodology to fill these gaps.

Since the starting period, I have adjusted the general research hypothesis by using abduction as methodology. The iterative process concentrated on splitting the hypothesis in more differentiated sub-hypotheses. Similarly, I adapted the research questions.

By reflecting on the philosophical foundation I concentrated on the description of ontology and epistemology in relation to positivism and constructionism. As main methodologies I explored induction, deduction and abduction; and finally I presented different forms of practical use of methodologies.

I especially focused on abduction because it is able to explain complexity and to design hypotheses to be tested in iteration. Abduction also matches with 'action research' and contemporary system thinking, both methodologies regarding research as an ongoing process. The use of an abductive action research methodology allows to become at least partly an active participant within my research by using an iterative structure of finding out real-world problems of SMEs, building a model making these problems perspicuously, then discussing / debating the model with real-world findings; these steps permit defining and taking action within companies.

In 'System Approaches to Management' Jackson (2000) presents different methodologies, within them the 'Soft Systems Methodology SSM' of Peter Checkland seemed me to be most qualified to build a SME model. The description of the development of the SSM of Checkland and Holwell (1998) suits to abduction and its implementation with the seven steps shows that SSM is appropriate for designing a model explaining the dynamic interplay of SMEs, morality and (standardised) management systems and their common environment as well as their effects on the sustainable performance of SMEs. The steps help to systematically design the model bearing in mind that the model has to be optimised during the process of development and practical use in real world. Checkland and Poulter (2006) examine the application of SSM with different case studies; these practical illustrations of 'Learning for Action' underline the appropriate structure of the methodology. The cycle can be used multiply and allows me plan the implementation of my research in two phases.

The assessment of the gaps in literature review showed two trends: Some required nomothetic measures which would necessitate a relatively large sample of SMEs or additional literature review, and a similar number for a more idiographic approach with case studies. To overcome these unequal requirements a framework of qualitative and quantitative research was designed.

In order to study SME's I found from a review of the methodological literature and the methods that a questionnaire and interviews are the

appropriate methods to use. Using the methodological literature I am able defining the suited sample and the questions.

The chapter is supplemented by reflections how to use the designed methodologies in praxis and the way to find research partners.

The chosen palette of methodologies is applied in the next chapter 4 'Findings' as the basis of proceeding. Abduction will help do design the research hypothesis, the questionnaire and the case studies to prepare the needed data for analysis, and SSM to build the SME model.

## 4

## FINDINGS

#### 4.1 Introduction

In this chapter I present, discuss and finally analyse the findings of the longitudinal survey of this research. Hereby I follow the methodology of abduction (chapter 3) and examine the considerations reflected within literature review (chapter 2). My research proceeding became increasingly differentiated by ongoing reading and reflecting; the development of my 'framework of ideas' (F) and 'methodology' (M) was in a running progress. That is why the chapter follows the narration of this research which leads to defining hypotheses and building of the SME model. The analysis of the findings allows drawing conclusions (Chapter 5) by answering the research questions, examining the hypotheses and defining fields of future research.

The outstanding issue of this research is the comprehensive view of SMEs. It profits of the SME model based on the interplay of SME, morality / sustainability, and management systems within their environment and on its examination using a longitudinal survey with a detailed questionnaire and two rounds of interviews. Another important distinguishing topic is the integration of staffs of all hierarchical levels and different departments.

The SME model is built with the findings of the interview round 1 by using SSM; an outcome of the model building is the corresponding measurement tool. Both are reflected after the analysis of the findings of the round 2. The results of the survey allow furthermore formulating hypotheses.

However, the methodology of the longitudinal survey embodies the main weakness of this research; the willingness to participate was reduced because of the needs of the companies (the time and effort required). An additional element has to be considered in the analysis: the period of round 1 (2003 to 2004) was characterised by a rather economic depression, and the period of round 2 (2005 to 2007) by an increasing boom; these issues influenced the interviewees (e.g. motivation, resources of time) and the companies (e.g. innovation, finance for investments).

The chapter follows three stages: 1. Getting into the research and building the SME model, 2. Round 2 of interviews and analysis, and 3. comparison with results of other surveys and generalisation.

The interplay of the three stages embodies the methodology of abduction and by that hypotheses can be deduced and tested. This proceeding allows drawing conclusions (chapter 5).

# **4.2** Stage 1 – A: Pre-test and round 1 of interviews, definition of hypotheses

In Stage 1 I discuss the first round of data collecting and its analysing. The findings allow building the SME model by applying SSM and designing the corresponding measuring tool.

As mentioned above (3.10, p. 187ff) a certification customer of Bureau Veritas was available at pre-test partnership (an institution for handicapped adult persons with sheltered workshops). Because there was little interest of the top-manager for a second round, and an additional meeting with the interviewee was needed for updating the first round, the company was not integrated in the final sample. The pre-test showed that several questions were not clear enough, and therefore some amendment of content and methodology was need- $ed^{45}$ .

#### 4.2.1 Data collection, results and analysis

In chapter 3 (Methodologies -3.10, p. 187ff), I described my quite labyrinthine way to find companies. Finally I had 20 Swiss and 6 German SMEs being ready for cooperation. I interviewed the Swiss sample between summer 2003 and summer 2004, the German in October 2004.

Results of all issues of the questionnaire have been arranged in tables. The presentation of the results of the round 1 of interviews is limited, because the results of both rounds are presented and discussed and compared in detail in Stage 2 of this chapter.

Overviews concerning specifications of the sample during the two rounds see Table 4.4.

#### 4.2.1.1 Economic Issues

The market position of the companies was relatively strong (often regional market leader or in second position); some were niche players. Especially companies with standardised management systems had a good position.

The large majority were limited companies <sup>46</sup> – mainly owned by the general manager (and in some cases by family members) or partners. The four health care companies were foundations, one company was a co-operative (bank) and one small one was private (tourism).

The companies were mainly privately financed (ltd, owner, family, partner). Nearly a third was also supported by banks (a few very intensively).

<sup>&</sup>lt;sup>45</sup> See examples in 3.8, pp. 184-5.

<sup>&</sup>lt;sup>46</sup> The Swiss law distinguishes between AG (=Aktiengesellschaft) and GmbH (Gesellschaft mit beschränkter Haftung). Both can be regarded as limited.

More than the half of the companies had a mix of PR activities (personal relations, events, info letters, advertisements, sponsoring). Two had specific PR divisions which also worked for customers. Construction companies often used public invitations of tenders.

Most companies were members of associations – mainly of their industries and of the region. Some of the owners were also members of the associations' board.

More than three quarters of the companies had a division or profitcentre organisation (some with combinations – matrix, function, and team). Half of the micro companies had a team organisation.

Only half of the companies had a steadily increasing turnover. Only a quarter of them were market leaders. It is of interest that none of the micro, medium, ISO 14001 and QMS companies had a decreasing turnover.

Less than the half of the companies had an increasing or good cash flow. Half of the micro companies had a decreasing cash flow. Medium sized, ISO 14001 and QMS companies had no decreasing or minimal cash flow.

More than half of the micro companies had a decreasing profit. On the other side medium, ISO 14001 and QMS companies had no decreasing profit. More than a quarter of the Swiss sample optimised their profits on the background of the tax law. Nearly all companies used their profits for innovation (products, process, maintenance, and training). Few used their profits for financial reserves.

The great majority had good relations to their partners / suppliers (intensive communication, friendship, co-operation, contracts, and sustainability); only two were dependent (getting parts under specific sales conditions).

Related to the mix of industries there was also a mix of types of customers (private, companies, public). There were often personal relations to customers providing business (individuals or other SMEs). A majority had many and a big minority few competitors. Two thirds had some exchange or quite good relations to their competitors. A fifth had to fight for its customers. The medium, ISO 14001 and QMS companies mentioned no fights.

#### 4.2.1.2 Environmental issues

Half of the companies had to manage immense or many environmental issues, the others some or minimal (waste disposal, consulting).

Only the medium and companies with ISO 14001 measured their immissions and emissions.

Only staff of medium and companies with ISO 14001 mentioned additional activities besides training, purchasing, looking for alternative matters and products, separation, recycling and disposal of wastes.

#### 4.2.1.3 Social issues

All companies showed social responsibility. Two thirds of the companies had external (sponsoring, political mandates, board of associations) and internal (individual support of employees, optimising work conditions, education of apprentices, work for handicapped people) social activities, one third concentrated on inside behaviours. The part of external and internal activities was greater with small, medium, ISO 14001 and QMS companies.

The staff of nearly all companies spoke of different social activities (intensive, comprehensive, employee orientation, family feeling, and training of behaviours). Only few mentioned low or minimal activities.

#### 4.2.1.4 Management and management systems

A third of the companies had a methodology to define their mission and strategies; hereby the relations to customers were important. Some people exactly knew what their company wanted, but quite often staff had no clear idea about the contents of mission and strategies. Decision making was mainly management orientated. Leadership provoked a mix of answers. Most frequent were participation (mentioned in half of the companies) and a paternal (owner) orientated model (nearly one third).

Half of the companies had full systematic control, a third only a financial and some control within the management. Half of the micro companies kept its control within the family, or the team or the partners. Three quarters of the companies had some risk management procedures (nearly half of the sample used a systematic procedure).

Nearly half of the companies had a list of defined objectives, most of the others single objectives (as customer orientation, turnover, quality). Few micro companies had no defined objective. However, only the staff of a quarter had clear ideas about objectives.

Only few companies had general descriptions of culture (e.g. system, orientation, openness, and common style). The majority mentioned external and internal elements of culture. Most frequently mentioned were special events (for example parties, excursions). Important for micro companies were issues of family, relations, and participation or team.

Most companies had a mix of access to information. This mix depended often on the hierarchical position of people and the style of communication. Companies got external information mainly from associations and training courses, and internal information from meetings. The rating of communication issues (see questionnaire, Annexes 6.4, p. 473) showed that superiors often haven a more positive evaluation of their relations to subordinates than contrariwise.

An 'ideal boss' had to have knowledge, to be an example, a motivator or colleague and partner. An 'ideal employee' was characterised by experience and knowledge, confidence, loyalty and fairness was well as communicative and joyful behaviours. The education in the companies was generally quite high. Half of the companies employed a mix of people having no professional education, apprentices and specialists – a quarter also people with university education. Nearly the other half had staff with professional education and specialisation, few had only specialists. All companies with ISO 14001 had staff or managers with university education.

The definition of quality was based on a customer orientation perspective and delivery of good products or services, secondary were contextual factors (e.g. quality of life); practical influence of a focus on quality in three quarters of the companies resulted in the aim to deliver excellent work.

The main reason to implement a management system was the internal aim to optimise the company; secondary reasons were the external pressures. All companies with ISO 14001 and the majority those with QMS were led by internal issues; however, it does not astonish me that companies only having an OHS mentioned legislation first.

Quite a lot of people mentioned – especially those working in service companies – that they have been involved in the implementation of the system. In a few cases there had only been some training or information received. However, a quarter of those interviewed had little or no knowledge of the existence of their management system.

There was a mix of answers concerning duties related to management system – depending to the different duties staff had. It was interesting that some people – even within companies with ISO 14001 and QMS – had no impression that they had any duties in relation to the system.

In about half of the companies the introduction of additional systems was on the way (already some elements introduced) or planned (EFQM, Q for tourism, ISO 9001, optimisation of customer satisfaction, time management). Some companies planed an optimisation of their existing QMS.

#### 4.2.1.5 Moral issues

More than a quarter of the companies had at least some elements of industry ethics. Some mentioned general influences coming from legislation, insurances, price agreements or the holding they belonged to.

The majority of top-managers or owners saw elements of an ethics code within their company. Nearly a quarter had a systematic way to control it (all these companies had a QMS).

As mentioned problems world politics were in front for staff of half of the companies, followed by economy, growing egoism and lack of communication, decreasing social welfare, increasing number of laws and regulations, new taxes and environmental problems.

'To be an example' was the most selected issue out of list of seventeen, followed by 'enough time for relations and leisure'. In a third of companies there were no differences between the values of owners / topmanagers and staff; this parallelism was higher in small companies. In two thirds of the companies people had problems to find enough time for their private relations and leisure.

For most interviewees family and experience were the important value drivers. Many also mentioned religion and some school education.

There was a balance between people who practise their religion and / or philosophy of life and those who did not. It is interesting that people whose religion was combined with an individual philosophy of live had more intensive praxis.

Only a minority of interviewees said that their religion or philosophy of life influences their activities within the company. On the other hand nearly half of the people thought that their religion or philosophy of life influences their activities within their private life.

The great majority of people had no party preference and was not politically active; if they were they mainly behaved according to specific problems. About a third of the interviewed had a personal party preference; early half of them elected the Christian parties, followed by liberals, rights, socialists and greens.

Because phrasing of ethical management models was very difficult (according to Ulrich P. 1998 – see questionnaire, Annex 6.4, p. 473)<sup>47</sup>, only about half of the interviewees made a rating. The majority followed the reformist model, followed by the idealist. Companies with QMS seemed to be more idealistic.

#### 4.2.1.6 Review

The interviews brought a collection of information concerning structure, culture, leadership, management, management systems, relations to physical environment and morality. The results follow the questionnaire which was designed as a palette of issues concerning SMEs, morality / sustainability, physical environment and management systems.

Only few companies looked for a balance of economic, social and environmental values. One half of the companies were ranking the economic aspects first or as important. The other half regarded economic success as decisive for survival. Nearly all companies saw the social aspects as focal, important or sustainable. The majority called economic aspects as sustainable or important.

The staff of nearly all companies saw their main problems in connection with economy (economy, EU, comprehensive, enough work). Internal problems concentrated on communication, management of finance and time management.

The staff of two third of the companies validated the future of their company as good, a quarter as decreasing, bad or unsure. The future was regarded as decreasing, bad or unsure mainly by people of service companies.

After shortly presenting the main results of interview round 1 I formulate a first analysis of these data. The aims of this analysis are to give

<sup>&</sup>lt;sup>47</sup> University of St. Gallen: written interviews with 112 leaders of great German and Swiss companies in 1995.

primary interpretations which will be deepened in Stage 2 and to give inputs for the further development of my research.

The results of the individual companies were concentrated in lists allowing first quantitative results. These were the main results:

The market position of the companies was relatively high; some were niche players. Especially companies with standardised management systems had a good market position. More than three quarters of the companies had a division or profit-centre organisation. The great majority had good relations to their partners / suppliers. Two thirds had some exchange or quite good relations to their competitors.

Half of the companies had to manage issues of physical environment. All companies showed social responsibility.

#### 4.2.2 Feedback to companies

Every company got lists based on anonymous data with its results and comments. About half of the Swiss companies took the opportunity to discuss the results in a meeting. With nearly all German companies I had a written feedback exchange.

I made different experiences with these feedback meetings. The majority of owners or top-managers were quite happy to hear that their appraisal of the company complied with that of their people. About a quarter had difficulties to realise that the information they regularly gave to their staff did not arrive in the manner they aspired; there was a divergence in the perception of communication. As a consequence one company collaborated with a consultant to optimise this problem.

The feedback to companies allowed reviewing and improving case studies, e.g. by complementing the lists or the comments.

Another consequence of the feedbacks to companies could have been to review of the questionnaire. I decided to abstain because since the start of the research I had aimed to compare the results of the two rounds. I only added the special questionnaire for the owners / topmanagers two matrixes – one asking for a moral positioning of the companies (according to Basu and Palazzo 2005), the other for a general positioning (according to the measurement tool, see 4.3.4, p. 223ff); the use of these matrixes would help to compare the results with the evaluation by the owner / top-manager.

#### 4.2.3 Definition of hypotheses

The examination of the research questions basing on literature review and results of interview round 1 allows deriving hypotheses.

<u>Hypothesis 1:</u> Influence of original intentions of management standards

The original intentions of the standards (optimising quality, avoiding harm to people and physical environment) influence their implementation and use. Motives of SMEs for the implementation of standards have often been external requirements or needs to optimise shop floor procedures guaranteeing product or service quality as well as to avoid harm. For this reason a number of companies had difficulties implementing a comprehensive management system. The hypothesis relates to research questions 4, 5, 6 and 7 concerning the implementation of management systems and their integrated moralities in SMEs.

1. The implementation and use of a standardised management system is influenced by its original intention (e.g. ISO 9000: [shop floor] processes to guarantee product quality; ISO 14001: system to avoid harm and to guarantee sustainability). Therefore it may hinder a comprehensive implementation of the system.

The literature review intensively demonstrated that many SMEs using the quality management series ISO 9000 still act according to the spirit of the version of 1994; their activities concentrate on optimising shop floor procedures. A number of companies use the revised version of 2000 which widened their views towards TQM. Literature shows that many SMEs using ISO 14001 see improving the working conditions within the firm as the most important reason for investing in environmental issues.

These issues have been confirmed by round 1 of interviews; however the companies applied the version of ISO 9001:2000.

<u>Hypothesis 2:</u> Long term effects of the interplay of SMEs, morality / sustainability and (standardised) management systems within their common environment

The main focus of the SME model is highlighting the interplay between its elements within their common environment. On this background a hypothesis has to explain the long term effects of this interplay. The thesis relates to the research questions 8 and 9 concerning the environment of the elements and their interplay.

2. The more SMEs implement and use the dynamic interplay of management systems and moral elements in relation to their environment the more intensive are the effects – especially in the field of integrating missions, strategies, leadership and processes – as a basis for a long term survival.

Literature review as well as the results of round 1 illustrated that there is some dynamic interplay of the elements and their issues as well as to attitudes and behaviours of owners, top-managers, and employees. Case studies of different SMEs illustrate that the ideal correspondence of the elements rarely is attained in real world; however, a lot of companies have realised a partial overlapping and interplay.

<u>Hypothesis 3:</u> Relations between long term use of standardised management systems and personal backgrounds of individuals

A number of SMEs developed their original, elementary management systems towards a comprehensive TQM system. Since SMEs have been mainly influenced by the personality of the owner or top-manager, the design of the management system relates to their focus. The hypothesis relates to different research questions, mainly on 1, 2 and 3 concerning the characteristics of SMEs, their morality and leadership; however there is also an intensive relation to question 9 examining the SME model.

3. The more SMEs implement and use management systems in relation to their environment the more intensive they integrate vision, strategies, leadership and processes as well as morality and alter to companies with a long term survival. However, the main drivers of moral elements are the original attitudes and behaviours of the principal and collaborators.

As already explained in the comment to hypothesis 2, an intensive overlapping of three elements 'people and their moralities', 'mission, strategies and traditions – embedded in company culture' and 'management systems' supports their dynamic interplay towards their long-term survival in a changing environment. The literature review demonstrated that particularly moral attitudes and behaviours of SMEs are essentially influenced by the individual milieu of top-managers and employees, even if there is a certain overlapping of the elements. This detection was confirmed by round 1 of interviews.

# **4.3 Stage 1 – B: Design of the SME model and measuring tool**

After discussing the proceeding and results of interview round 1 and defining the hypotheses, I go about designing the SME model and the corresponding measurement tool by using issues of system thinking as highlighted in literature review (chapter 2) and methodology (chapter 3).

The structure of the questionnaire brought an apposition of results which would allow improving individual issues of or within companies. With my SME model, I fill this gap created by separate examinations by positioning SMEs in an overall context and use a transdisciplinary approach; the model explains the dynamic interplay of SMEs, morality and (standardised) management systems within their environment – supporting the sustainable performance of companies. The aspect of 'time' provides for continuous change and is a challenge for ongoing adaptations. This model bases the development of an analysis and measurement tool which identifies options for continuous improvement. The model and its theoretical background give an additional rationale for the research hypotheses, integrating aspects of the fields of reflection. The hypotheses examine the intensity of the interplay between SMEs, the issues of their environment and the impacts of the use of management systems. The model and the tool help to analyse the findings of the longitudinal survey.

A central aim of this research is to design a system representing the real world entities of the dynamic interplay of SMEs, morality / sustainability and (standardised) management systems within their environment. This system may allow learning devices to inquire into real world entities. This system is visualised by an adequate model abstracting the real-world; this model is the basis of an evaluation tool.

#### 4.3.1 Application of Soft System Methodology SSM

As explained in Methodologies (3.6, p. 174ff), I consider, reflecting on the development of my research, the 'Soft Systems Methodology SSM' of Checkland and Holwell (1998) as the most suitable for the design of the SME model. In a second step, I adjust the model by applying parts of 'Critical System Heuristics (CSH)' of Ulrich, W. and Reynolds (2010).

To design the SME-model, I follow the seven steps of SSM – starting in the real world (i), reflecting in system thinking about the real world (ii), and returning back to the real world (iii).

#### i. Starting in the real world

Step 1: Situations considered problematical:

- The economic and social importance of SMEs has not been explored to the same extent as large companies; however SMEs are the pillar of economy and social responsibility, having an immense influence on physical environment.
- Research concerning SMEs concentrates on separate science (e.g. economy, ethics and morality, organisation, and management systems).
- Users of standardised management systems often only concentrate on shop floor processes and activities, and on reliability, not on managerial issues.
- Standardised management systems enclose at least implicitly moral issues. However, there is minimal systematic knowledge about the influences of these moral issues on attitudes and behaviours of the users of the systems.
- There is a wide public knowledge concerning the three individual topics ('SMEs', 'morality / sustainability' and 'standardised management systems') but relatively little knowledge concerning the interactions of the three individual components within their common environment.

Step 2: Problem situation expressed:

The specific situations of SMEs with their benefits and constraints as well as the SMEs' handling of morality and management systems within their common environment are described in details in literature review and to some extent in the results of interview round 1 (Figure 4.1 - Problem situation).

• To fill this gap of little knowledge concerning the interaction of the different elements of SMEs, it would be helpful to have some transdisciplinary research enclosing the dynamic interplay between SMEs, (standardised) management systems and morality / sustainability by considering their common environment as well as their influence on the performance of SMEs.

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• A measuring tool should support the use of the output of such research to define possibilities of improvement.

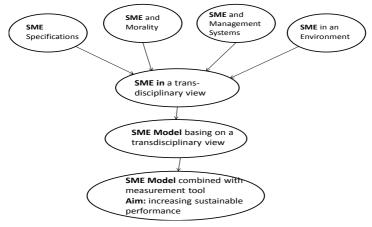


Figure 4.1: Problem situation: Defining a SME model and measuring tool with the aim of increasing SME's sustainable performance

#### ii. System thinking about the real world

<u>Step 3:</u> Root definitions of relevant purposeful activity systems (by applying mnemonic CATWOE – relevant terms in **boldface**):

- Possible **Customers** of the system 'SMEs with morality / sustainability and management system in a common environment' are primarily SMEs (with managers, employees, owners) and their different stakeholders (as customers, neighbours, local community, competitors) as well as the public and academia.
- Facilitating Actors of the system are primarily again SMEs with their innovative tenor and flexibility (with managers, employees, owners). They are squired by their stakeholders (e.g. customers, suppliers, competitors, designers of morality and [standardised] management systems, legislative bodies, neighbours, local communities, public, physical environment, and academia). Several parts of the main sub-system SME are spanning elements; this is

because they are at same time elements of the environment (e.g. morality / sustainability, standardised management systems).

- The **Transformation process** relates to SMEs which go into challenges of changing requirements of a variety of stakeholders within a common environment. They start with their actual situation to be optimised and move ongoing in future guaranteeing a sustainable survival incorporating the needs of stakeholders.
- The Weltanschauung (world-views) or moralities of individuals (managers and staff) and companies may intensively differ; they depend on personal histories of people and organisations, as well as on regional, national or continental philosophical or religious trends. An individual company aims to have a common world-view being reliant on the morality of the owner, top-manager, and as far as possible staff; it may be available in an ethical code. Companies of the same industry, region or moral background (e.g. religion) may have similar word-views.
- **Owners** of the system are the author of this research and all coauthors and possible users (e.g. companies [especially those participating in the research], public, and academia).
- Environmental influences can come from all sorts of stakeholders of SMEs (owners, knowledge, employees, customers, suppliers / partners, financiers, and competitors) as well as philosophical streams, owners of standardised management systems, public administration, politics, legislation, and physical environment.

The relations between the different issues of the mnemonic CAT-WOE as well as their influences on the transdisciplinary SME model are shown in Figure 4.2.

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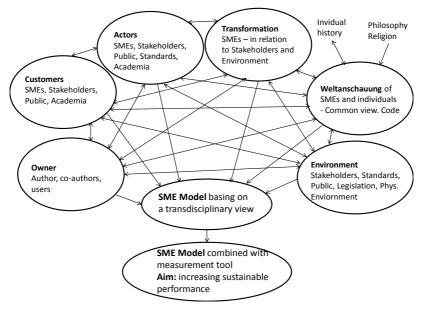


Figure 4.2: Rich picture of CATWOE issues influencing the design of SME model

The output of the model is a measurement tool aiming increased sustainable performance of the SME. The summarising of the analysis applying the mnemonic CATWOE and its rich picture leads to this root definition (see figure 4.3):

A system to improve the sustainability of SME's by active consideration by the staff of the SME – in conjunction with external actors (e.g. consultants, customers, suppliers) and its environmental circumstances and influences (e.g. moral views, standards, laws, economy, local community, physical environment) – the management system, the moral standards underpinning the SME's values and operation

The inputs of the system are the knowledge of staff concerning leadership, management system, morality / sustainability and environment, then recommendations and requirements of external actors as consultants, customers and suppliers, and thirdly influences of the environment as moral views, standards, laws, local community and physical environment. The learning process within the system consists of the examination of different inputs, followed by selection, optimisation and integration of relevant issues. This process leads to the output of the model which is an improved operational functioning of the SME and by that increased sustainable performance.

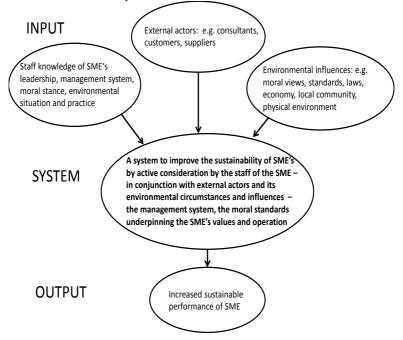
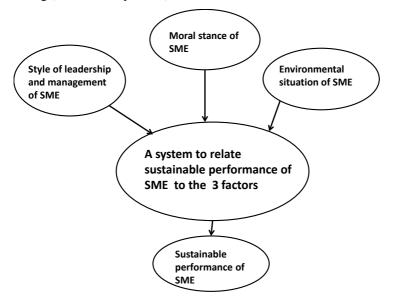


Figure 4.3: Root definition of SME model – conceptual model 1

<u>Step 4:</u> The conceptual model of the relevant systems named in the root definition: In consideration of the root definition, I designed a large-scale model which I applied afterwards for positioning SMEs in a global system (see Figure 2.12). Because this first model was too much macro level oriented, I designed a conceptual model that I believe corresponds to the conditions of complexity and heterogeneity of the problem situation of an 'SME' on a meso and micro level – without excluding the macro level.

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The inputs of the model (Figure 4.4) are the three elements management system, morality and the environment. They relate to the sustainable performance of the SME. The output is the optimised sustainable performance of the SME basing on the ongoing interplay of optimised knowledge, service and product, and stakeholder satisfaction.

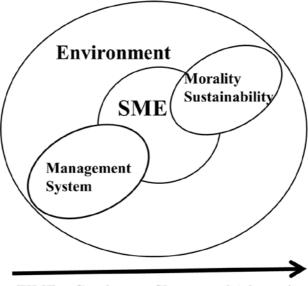


#### Figure 4.4: Conceptual SME model 2 of this research.

The model determines how to work and advise when external actors and effects determine some of the internal processes of the first model above. The two conceptual models are clearly intimately related, the second determining the interaction processes and being the core of the first.

Additionally to the conceptual model I designed a Venn diagram (Figure 4.5) with the four elements 'SME', 'morality / sustainability', 'management system' and 'environment'. It concentrates on their interplay and especially on the overlapping and system spanning character of 'morality / sustainability' and 'management'. The challenges of ongoing changes are expressed by 'TIME = continuous change and adaption'.

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TIME = Continuous Change and Adaptation

Figure 4.5: SME model – Venn diagram of this research

The root definition contains a number of other elements which are part of SMEs' discussion and the complex SMEs' environment. To integrate all of them would make the model confusing; and this research concentrates on the four elements 'SME', 'morality / sustainability', 'management system' and 'environment'. In the discussion of the environment other elements are examined (society, economy, and physical environment – each with its specifications).

## iii. Back to the real world

<u>Step 5:</u> Comparison of models and real world: The model permits a transsubject research and monitoring (e.g. by a consultant or trainer) by illustrating the elements and their interplay and by that allows answers on the mentioned real world problems.

<u>Step 6:</u> Changes – systemically desirable, culturally and politically feasible: The application of the model permits one to recognise the functioning of an individual company within its environment. Real world

problems can be solved appropriately, with relevance to the specific situation of the company as far it is feasible (regarding specific benefits and constraints within the company and of society, economy and physical environment).

<u>Step 7:</u> Action to improve the problem situation: The measuring tool supports the outcomes of the SME model and helps the user (internal – in possible cooperation with external actors) to define and implement issues of improvement. Feedbacks of users facilitate the optimisation of the model and the measurement tool.

## 4.3.2 Review by Critical System Heuristics CSH

To get a broader validation, I scrutinise the SME model designed according to SSM by applying the issues of CSH (see chapter 3.6, p. 176ff). 'Critical System Heuristics' (CSH) of Ulrich, W. and Reynolds (2010) builds on 12 boundary questions divided into involved (i) and affected participants (ii). I answer these questions using my SME model (terms of the boundary questions in **boldface**).

## i. The involved

Sources of motivation

- 1. **Intended beneficiaries of the system (S)** are companies, different stakeholders, consultants, trainers and the academia.
- The purpose of S is to get an insight in the dynamic interplay of SME, (standardised) management system, and morality / sustainability within their common environment, and to recognise the functioning of an individual company as well as to detect possibilities of its improvement.
- 3. **The measure of success** is an improved rating of a company within the measuring tool of the model.

Sources of control

- 4. In control of the conditions of success are owners and management of the company and as many stakeholders as possible.
- 5. **Conditions of success under the control** are the level of the performance of the 'utopia' (details see 4.3.3, p. 222) of the interplay of the four elements.
- 6. Conditions of success outside the control of the decision makers are possible feedbacks of different stakeholders.

Sources of knowledge

- 7. **Relevant knowledge and skills are provided** by owners, managers and staffs as well as by consultants, trainers, other stakeholders, and the academia.
- 8. **Relevant for new knowledge** are the experiences and reflections of owners, managers and staffs of SMEs as well as consultants and trainers, different stakeholders and the academia.
- Regarded as assurances for the successful implementation are owners, managers and staffs of SMEs as well as consultants and trainers, different stakeholders (under others certification bodies of standardised management systems).
- ii. The affected

Sources of legitimacy

- 10. The interest of those negatively affected, but not involved with S is represented by the critical view of academia, facilitators and a number of stakeholders (e.g. pressure groups for social and environmental issues, trade unions and media).
- 11. The opportunities for the interests of those negatively affected to have expression and freedom from the world view of the S is the possibility to publish or incriminate attitudes or behaviours of an individual SME and to choose another partner.
- 12. The space available for reconciling different worldviews regarding S among those involved and affected depends on the

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intensity of relationships people have to their company. The space of owners and managers will be quite small, that of staff, consultants and suppliers wider, and that of people being not part of the company is not constrained. If a SME uses standardised management systems its space is restricted by the world view requirements of the standard.

The examination by CSH validates the SME model of this research designed by using SSM. The application of CSH shows that the model answers to the twelve questions; the model comes up to the sources of influence, satisfies the requirements for the involved and affected persons, and enlarges the issues of SSM.

## 4.3.3 SME-model – interplay of the elements

After the design of the SME model by applying SSM and controlling by CSH, I educe a 'utopia'<sup>48</sup> basing on the interplay of the elements SMEs model; this 'utopia' describes an all-inclusive implementation of the model.

For applying SSM, 'Literature review' and the results of interview round 1 were my starting points in the real world. I defined CSR / business ethics as an approach of sustainability and triple-bottom-line thinking integrating human and physical environments as well as all stakeholders and internal elements of organisations. For me, TQM is really integrative and comprehensive if it explicitly integrates beneath internal issues all sorts of stakeholders as employees, customers, suppliers, public, neighbours, finance, and physical environment.

Contemporary system thinking (according to Jackson 2000) seemed to me suited best to reflect this interplay of CSR / business ethics and

<sup>&</sup>lt;sup>48</sup> According to Hinkelammert (2011) a 'utopia' is a state of perfection which can never be totally achieved (e.g. Kingdom of God, Communism); however its visions can be partly implemented and lived in an ongoing process with highs and lows of success.

TQM because this interplay asks for an optimal mix of foundation, openness, and responsibility; this relationship thereby corresponds with the requirements of the SME model developed in 4.3.1, p. 210ff, which covers the dynamic interplay of SMEs, morality and (standardised) management systems within their environment and aims the sustainable performance of the SME.

Simply said, important issues of the SME model which integrate CSR / business ethics and TQM aiming the sustainable performance are:

- Attitudes and behaviours of owners, top-managers, and employees – based on an ongoing interplay of their moralities with a view to common values;
- Mission, strategies, traditions based on common values and on consideration of internal and external stakeholders, embedded in company culture;
- Management systems tools supporting long-term survival and containing moral issues;
- 4. Intensive relations to the different elements of the environment and openness for change.

## a. SME model – utopia

The interplay of these guiding elements asks for a 'utopia' which has to be reflected before I examine everyday reality, or in the term of SSM go 'back to the real world'. Ideally the elements cover one another: people within a SME develop and share the same (moral) values embedded in and supported by a living culture. These values are commonly translated into a corresponding vision and related strategies. The use of appropriate managed systems, containing iterative methodologies for controlling and continuous improving, supports a sustainable translation into action (moral behaviours in business and towards all sorts of stakeholders).

The literature review and results of interview round 1 let suppose that the translation of this correspondence has an optimal chance within a seriously managed and future orientated SME owned by a family, business partners or a co-operative, typified by the principle of subsidiary decision making. This sort of SME is based on a proven common culture. This culture is characterised by transparency, integration, participation and empowerment of people, a holistic vision with comprehensive strategies and (moral) responsibility towards the customers, suppliers, employees, neighbours, society and physical environment. As a result, such a culture guarantees the sustainability of life. The consideration of 'time' is important; continuous and various changes challenge the elements of the model in that they imply their dynamic interplay.

## b. SME model in detail

The ideal developing of a SME focuses on the interplay of TQM and CSR / business ethics and is typified by integration, participation, circularity and (moral) responsibility towards all sorts of stakeholders. Therefore my SME model uses issues of humans working within a company, living the company's culture and implementing comprehensive and integrative management tools. The model pays attention to moral elements of the management tools: ISO 9000 concentrates on staff, company, and economy (relations to customers, suppliers/partners), and only on society; ISO 14001 focuses on physical environment, staff and society; the OHS standards concentrate on staff; and the comprehensive 'TQM excellence models' examine all aspects.

In short, the interplay of the issues within the SME model is based on their systemic issues as structural coupling and on the system spanning characteristics of morality / sustainability and management systems. As already mentioned in 4.3.1, the presentation of the model would become too complex if all other issues and possible multifaceted effect–effect feedbacks were integrated (e.g. company's history, culture, size, processes and procedures, products and services, industry, customers, suppliers, competitors, methods of PR – society, economy, physical environment), however the issues were asked within the interviews and are analysed.

The model reflects interrelationships of the four components: SMEs, morality / sustainability, management systems, and their environment. The companies' practices may differ considerably, producing different forms of overlap and interplay. That is why the individual overlapping of a SME has to be monitored and as far as possible measured; the results may be converted into opportunities for continuous improvement of the company providing sustainable performance. A specially designed tool supports this aim by defining criteria for the assessment of successful companies following the four components. By designing and using the measurement tool we are going 'back to the real world' – using the SSM term.

## 4.3.4 Measuring tool

The measuring tool of the SME model aims to test compliance with and effects of the SME model and detect possibilities for continuous improvement. It has to integrate the interplay of TQM and CSR / business ethics; this interplay is typified by integration, participation, circularity, and subsidiary decision making as well as responsibility towards all sorts of stakeholders and issues of humans working within a company. It is characterised by living the company's culture and implementing management tools as well as by integrating the challenges of the environment for a long-term survival.

Literature review (see 2.2.4, p. 57ff) presents different tools to measure effects of SMEs. The examination of these tools is used to optimise the SME measuring tool by highlighting possible issues or detecting gaps.

The aim of the measuring tool of this research is the wide-ranging monitoring of an individual company's ability to realise the SME model.

The individual overlapping and dynamic interplay of the four elements are examined.

The analysis starts with a simple matrix with four quadrants – using the basic idea of business engineering 'from the universal to the delicate and complex'; in a second step the matrix is enlarged by tables for a differentiated use. The successful monitoring of the long-term change of the four elements and the development of the ongoing adaptations of an individual SME can be attained by setting different periods of measurement (as employed in this research).

The quadrants of the basic matrix describe ideal types. The objective position of a company can only be defined by using the differentiated tables. This position is influenced by internal and external issues and may change.

## 4.3.4.1 Basic matrix

## Theoretical backgrounds

Theoretical backgrounds are recapitulated before designing the universal matrix of the SME model measuring tool.

CSR / business ethics follows, in my opinion, an approach of sustainability and triple-bottom-line thinking integrating human and physical environments as well as all stakeholders and internal elements of organisations. TQM is really integrative and comprehensive if it explicitly integrates beneath internal issues all sorts of stakeholders as employees, customers, suppliers, public, neighbours, finance, and physical environment. Contemporary system thinking seems to me suited best to reflect this interplay of CSR / business ethics and TQM, because this interplay asks for an optimal mix of foundation, openness, and responsibility.

The organisational approaches of Merchant and Simons (see above 2.5.1, p. 101ff) can be combined within a company system model based on system thinking: Besides cybernetic, contingency and cultural issues

there may also be human resource, agency and bureaucratic / mechanic elements influencing companies and their subsystems.

The findings of Treviňo (Treviňo et al.1998) support the idea that effective management systems depend on compliance orientation (e.g. by following legal requirements and using standardised management systems) and on optimal integration of all concerned people (owners, managers and staff, external stakeholders). It can be expected that a long term success of a company is guaranteed by the circular integration of all concerned.

Korten's characteristics and Enderle's recommendations (see 2.7, p. 141ff) concentrate on optimal conditions of SMEs in economies practising moral issues; they aim sustainable circular interplay of different elements (e.g. human beings, companies, communities, nations, and economies within their common environment).

The measuring tools described in 2 Literature review (see 2.2.4, p. 57ff) contain issues which have to be taken into account to realise a comprehensive measurement tool for SMEs: ISO 9000 basis on purpose orientation, circular thinking, customer orientation, integration of employees and interested parties. TQM models are characterised by consideration, interplay and integration of different internal and external elements. CSR or business ethics standards evaluate values and moral performance of companies and individuals. Tsiakals and West evaluate the ongoing development of management systems. Fueglistaller and Fust focus on the interplay of innovation and tradition. Frey examines the ongoing development of SMEs during their life cycle, interplay of innovation and added value. Basu and Palazzo describe the interplay of values and strategy as well as characteristics of CSR. Boiral and Amara measure the effectiveness of the implementation of a management system. Blundel, Spence, and Zerbinati design a model of the interplay of entrepreneurial dynamic and positive social change in consideration of the relevance of all phases of the entrepreneurial process. Perdigao

shows a simple matrix to measure strategy implementation. Baumann, Wickert, Spence and Scherrer define a matrix of stages and dimensions of CSR. And the Economy for Common Good presents an internationally used matrix to rate ethical behaviours of companies.

Basic matrix (see Figure 4.6)

The reflection of the backgrounds asks for a tool which is comprehensive and at same time dynamic – finally aiming an integrated and sustainable management system. The four quadrants of the basic matrix show different levels of comprehensiveness; the dynamics are detected by different times of measurement.

The two parameters 'Fit with Effectiveness' and 'Fit with Strategy' present the main elements of the elements of the SME model to be examined. They illustrate possible degrees of performance of overlapping and dynamic interplay of SME, morality and management system within their environment providing sustainable performance of SMEs.

'Effectiveness' is the "extent to which planned activities are realized and planned results achieved" (ISO 2005:9); it represents the potency and extent of the implementation of an activity. 'Strategy' is "the starting point and the context in which all other planning begins" (Borawski 2007:31) and it stands for the range of severeness of long term orientation and / or sustainability.

Therefore the parameter 'Fit with Effectiveness' describes the characteristics of the performance of the elements as well as of their interplay. The implementation and optimisation of activities of a company may concentrate on daily activities (mainly in optimising activities on shop floor level and/or individual or chains of processes) or on the company as a whole (in relation to its visions and model of leadership). The more a company reaches a holistic effectiveness the more the elements are overlapping and interplaying.

The distinction between the properties of separate activities / procedures and comprehensive systems is additionally important; it demonstrates their relationship with the second parameter 'Fit with Strategy' which expresses the (principally long-term) emphasis of company's (moral / sustainable) attitudes and behaviours. The specific position of a company on the parameter shows the specification, importance and implementation of its values, visions and strategies and the degree of overlapping and interplaying of the elements.

	high	Shop floor / Process optimisation	Embedded circularity Integration
Fit with Effectiveness	low	No concepts Be at market's mercy	Eternal pressure Image Legislation
	10 %	low	high

Fit with Strategy

high

*Figure 4.6: SME model measurement tool: Basic matrix* Characteristics of the four quadrants

No concepts – Be at market's mercy

Some companies may not have defined or at least implied visions relating to their activities. They only react on the continual (mainly shorttime) changes of the market's requirements and customers' demands as well as public requirements. That is why they behave neither strategically nor effectively. These companies have no long term concepts of leadership and use no or only minimal components of management systems.

These companies may be characterised by moral attitudes and behaviours because of the personal backgrounds and virtues of managers and staff, but these elements have not become part of a vision and have no planned influence on specified activities.

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#### Shop floor / Process optimisation

Other companies concentrate on the shop floor or process level and try to achieve the optimum in these domains. They are either forced by the market and their customers, by legislation, or by financiers. They mainly optimise quality and process time or efficiency; these sorts of improvement correspond to the traditional application of quality assurance and the use of earlier versions of ISO 9001, which intended the improvement of individual issues of the production chain, or had the simple purpose of reducing costs.

Again, these companies may be characterised by moral attitudes and behaviours because of the personal backgrounds of managers and staff; these elements become not part of a vision, but may have some planned influence on activities.

#### External pressure – Image

Quite a lot of companies are forced by legislation, customers or holdings (if being a subsidiary) to implement a (standardised) management system or specific form of leadership. Others may use a management system to cultivate their external image and / or to improve their marketing activities.

External pressure and image optimisation may have some (short term) impacts on business performance. But the management systems of such companies remain often ineffective and not effectively implemented. Internal and external controls are frequently artificial and not capable of detecting the companies' reality; by that they are not able to offer a basis for continuous improvement.

Also these companies may be characterised by moral attitudes and behaviours because of the personal backgrounds of managers and staff. These may coexist with moral elements and codifications being forced by the requirements or the wish for image optimisation. Codified moral elements may have some planned influence on activities.

## Embedded circularity – Integration

Companies typified by embedded circularity and integration, finally, are guided by strategy and effectiveness. They use all the possibilities of their management systems with participation, double loop feedbacks and subsidiary decisions making as well as moral / sustainable approaches. They also fully integrate values, processes, customers, people, suppliers, public, physical environment and other interested parties.

Their behaviours depend on defined or at least implied visions and common values which are continuously controlled and adapted. They are characterised by circular thinking (starting with aims, visions, building and implementing strategies, integrating the demands of all sorts of stakeholders and earning money). In short they are following CSR / business ethics and TQM approaches and principles of the triple bottom line model regarding social, ecological and economic demands.

Their attitudes and behaviours are typified and accompanied by an integrated system of continuous analysis and control to base a continuous optimisation of the whole company and effective innovation. The companies are also characterised by a comprehensive, circular and sustainable risk management integrating opportunities and threats.

Values of management and staff are continuously discussed to become an integrated component of the company culture and system and by that to support its long term, sustainable optimisation.

An intensive range of overlapping and dynamic interplay of the four elements is realised in these companies: A SME is able to integrate morality, management system as well as its environment and to react on changes by reflecting its morality and adapting its management system – and as a result – to provide its sustainable performance.

## a. Specifications

For their differentiation the issues of the four quadrants of the basic matrix are specified in tables (Tables 4.1 to 4.3) by reflecting and coding

the overlapping and interplaying elements to be examined: SME, morality / sustainability, management system and environment. The specifications are deduced from the definitions of the basic matrix and the SME model with the elements and literature review concerning SMEs as well as the results of interview round 1, their use of morality and (standardised) management systems. They portray ideal types and allow to rate the different elements according to the four quadrants.

The issues of the specifications describe individual company's characteristics and activities and allow measurement as a basis of continuous improvement. Every issue is validated according to the four quadrants of the basic matrix: No concepts / Be at market's mercy; Shop floor / Process optimisation; External pressure / Image; Embedded circularity / Integration.

To achieve reliability, characteristics of specific expressions within the specification tables are defined:

- Individualistic: Attitudes and behaviours of an individual (manager, employee) – in particular in context of moral issues
- Unconscious: There may be activities, but people do not know or
- reflect them.
- Recommendation management: Activities to optimise public image – often with minimal internal effects
- Circularity: Use of cybernetic circles for defining values, visions, strategies, processes, decision making – basis of stakeholder integration, double loop feedbacks and continuous improvement (within a comprehensive management system)
- Integration: different elements of the SME model, people and stakeholders (including agents of the physical environment) being in sustainable communication

Characterisation of issues

- Element 'SME':
  - Ownership (e.g. family, partner, public management of change)
  - Leadership and decisions making (e.g. hierarchical, patriarchal, partnership, team orientation)
  - o People (e.g. position, integration)
  - Patterns of organisation (e.g. hierarchical, functional, matrix, team)
  - Culture and traditions (history, specifications as behaviours, events)
  - Values (e.g. moral concepts, virtues, specifications, issues of ideal boss and ideal employee)
  - Communication (specifications e.g. hierarchical, partner, team – periodicity, contents)
  - Finance (turnover, cash flow, profit)
  - o Resources (people, finance, time, equipment)
- Element 'Morality':
  - Motivation (of individuals, company, cultural background)
  - Values (e.g. moral concepts, virtues, specifications, issues of ideal boss and ideal employee) – see SMEs
  - Specifications (e.g. type of activity individual, strategic)
  - Sustainability and codification (degree of sustainability, degree of codification – effects)
- Element 'Management system':
  - Mission and strategies/statements (range, use, circularity, integration – managing of objectives)
  - Range and formality (system development characteristics: e.g. shop floor, procedures, elements, used standards)

- Quality (definition, methods for implementation, praxis and improvement)
- Controlling and risk management (methodology [managing of objectives and measures], comprehensiveness [reflection and balancing of strength, weaknesses, opportunities, threats])
- o Knowledge management (e.g. strategy, activities, range)
- Comprehensiveness (vision/strategy, morality, integration of people and stakeholders, management systems, other components [as finance and security] and circularity of processes)
- Element 'Environment':
  - o Society:
    - Public activities (e.g. membership in local authority or parliament) and sponsoring (e.g. sports, handicapped),
    - Legislation (handling of requirements, laws)
    - Associations (e.g. membership, board)
  - o Economy:
    - Innovation / agility and public relations (e.g. methodology, range)
    - Market position / competitors / geographical radius (specification, range, effects)
    - Customers (specification, relations)
    - Suppliers and partners (specification, relations)
    - Financing (specification, relations)
  - Physical environment: e.g. environmental aspects and activities, degree of sustainability

	Ownership	Leadership - decisions making	People	Patterns of organisa- tion	Culture / traditions	Values	Communi- cation	Finance: Turnover – cash flow - profit	Resources: people, finance, time, equip.
No concept / Be at markets mercy	Grown – danger of short time changes	Grown – short time – manager decisive	Grown – often unde- fined	Grown – often unde- fined – manager decisive	Grown – often unde- fined – unconscious	Grown – individualis- tic – often unconscious	No concept – often informal – individualis- tic	Varying – otten mini- mal control	Varying – often pres- sures
Shop floor / Process optimisa- tion	Grown – danger of short time changes	Grown – basic defini- tions	Training – basic inte- gration	Grown – basic defini- tions	Grown – not conscious or partly de- fined	Grown – individualis- tic – basic definitions	Basic defini- tions – individualis- tic	Process efficiency controlled – some in- vestment	Process efficiency controlled
External pressure / Image	Grown – danger of short time changes	Grown – formal defi- nitions – often un- used	Grown – formal defi- nitions – often un- used	Grown – formal defi- nitions – often un- used	Grown – partly de- fined	Grown – basic defini- tions (im- age)	Basic defini- tions – often not revised – individual- istic	Varying – often mini- mal control	Control defined – varying – often pres- sures
Circularity / Integration	Planned changes - integration	Defined – circularity / integration	Defined – circularity / integration	Defined – circularity / integration	Reflected – circularity / integration	Defined – reflected – circularity / integration	Defined – circularity / integration	Controlled - investment	Risk man- agement – circularity / integration

Table 4.1: Differentiated matrix – SME specifications

	Morality: Motivation	Morality: Specifica- tions	Morality: Sustain- ability – codification	Mgmt-S.: Mission / strategies – statement	Mgmt-S.: Range - formality	Mgmt-S.: Q: definition, - methods - praxis	Mgmt-S.: Controlling, risk mgmt.	Mgmt-S.: Knowledge mgmt.	Mgmt-S.: Compre- hensive- ness
No concept / Be at markets mercy	Individualis- tic	Individualis- tic (employ- ees, spon- soring)	None or not planned	None – just survive	None or minimal procedures	Existing procedures adapted – training – individualis- tic	None – minimal in finance	None or minimal	Minimal
Shop floor / Process optimisa- tion	Individualis- tic – partly depending on mgmt system	Individualis- tic – de- pending on mgmt sys- tem (Q, Env., OHS)	Partly – depends on Mgmt sys- tem	Often none – survive	Processes defined – partly Mgmt system	Partly inte- gration, minimal circularity – training	None – minimal in finance – process control	Training for specific jobs	Process, shop floor orientated
External pressure / Image	Recommen- dation mgmt - individual- istic	Recommen- dation mgmt - individual- istic	Recommen- dation mgmt – partly official definition	Existing – often mini- mal use	Mgmt sys- tem officially implement- ed – often minimal use	Implement- ed – often not im- proved - individualis- tic	Recommen- dation mgmt	None or artificial	Recommen- dation mgmt
Circularity / Integration	Planned – circularity / integration – partly indi- vidualistic	Planned - triple bottom line	Triple bot- tom line on long-term – defined	Planned – circularity / integration – sustainable	Compre- hensive - sustain-able	Planned – circularity / integration – sustainable	Planned – circularity / integration – sustainable	Planned – circularity / integration – sustainable	Planned – circularity / integration – sustainable

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Table 4.2: Differentiated matrix – Morality – Management system

	Society: Public - sponsoring	Society: Legislation	Society: Associa- tions	Economy: Innovation / agility / PR	Economy: Market position / geo. Range	Economy: Customers	Economy: Suppliers / partners	Economy: Financing	Physical E.: Sustain- ability
No concept / Be at markets mercy	Grown – individualis- tic – varying	Inevitable observance	Grown – individualis- tic – varying	Minimal – varying	Me too – often short- time – vary- ing	Varying	Varying	Partly de- fined – often problems	Grown - often unde- fined
Shop floor / Process optimisa- tion	Grown – individualis- tic – varying	Purposeful use	Grown – individualis- tic – varying	Minimal – process innovation – varying	Me too – some-times short-term – varying	Adapted to production / service – often partner	Selected and validat- ed – often partner	Partly de- fined – often problems	Partly – depends on Mgmt sys- tem
External pressure / Image	Recommen- dation mgmt – individual- istic – vary- ing	Inevitable observance	Recommen- dation mgmt	Minimal – varying	Me too – some-times short-term - varying	Defined – no strict use	Selected and validat- ed – no strict use / varying	Partly de- fined – often problems	Recommen- dation mgmt
Circularity / Integration	Transparen- cy - circulari- ty / integra- tion	Reflected / purposeful use – inte- gration	Planned - circularity / integration	Planned - circularity / integration	Planned – circularity / integration	Planned – circularity / integration	Planned – circularity / integration	Integral, circular risk manage- ment	Planned – circularity / integration

Table 4.3: Differentiated matrix – Environment

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## 4.3.5 Review of research hypotheses

Before entering in Stage 2 and analysing the findings of the survey, the hypotheses are briefly controlled reflecting the design of the SME model.

 The implementation and use of a standardised management system is influenced by its original intention (e.g. ISO 9000: [shop floor] processes to guarantee product quality; ISO 14001: system to avoid harm and to guarantee sustainability). Therefore it may hinder a comprehensive implementation of the system.

The literature review intensively demonstrates that many SMEs using the quality management series ISO 9000 still act according to the spirit of the version of 1994; their activities concentrate on optimising shop floor procedures. A number of companies use the revised version of 2000 which widened their views towards TQM.

Literature shows that many SMEs using ISO 14001 see improving the working conditions within the firm as the most important reason for investing in environmental issues.

These issues have been confirmed by round 1 of interviews; however the companies applied the version of ISO 9001:2000.

Reflecting the SME measurement tool, hypothesis 1 corresponds with 'Shop floor / Process optimisation'. The analysis of results has to discuss this issue.

 The more SMEs implement and use the dynamic interplay of management systems and moral elements in relation to their environment the more intensive are the effects – especially in the field of integrating missions, strategies, leadership and processes – as a basis for a long term survival. The reflections concerning the design of the SME model (see 4.3.3) relate to the dynamic interplay of the elements and their issues as well as to attitudes and behaviours of owners, top-managers, and employees.

Ideally the guiding elements are overlapping one another. The total correspondence of the elements promises a maximum of effectiveness, efficiency and sustainability of a company, if the issues of CSR / business ethics and TQM are consequently integrated (with dynamic circularity).

Case studies of different SMEs illustrate that the ideal correspondence of the elements rarely is attained in real world; however, a lot of companies have realised a partial overlapping and interplay. The analysis of the results of the survey has intensively to argue with this topic.

3. The more SMEs implement and use management systems in relation to their environment the more intensive they integrate vision, strategies, leadership and processes as well as morality and alter to companies with a long term survival. However, the main drivers of moral elements are the original attitudes and behaviours of the principal and collaborators.

As already explained in the comment to hypothesis 2, an intensive overlapping of three elements 'people and their moralities', 'mission, strategies and traditions – embedded in company culture' and 'management systems' supports their dynamic interplay towards their long-term survival in a changing environment.

The literature review demonstrates that particularly moral attitudes and behaviours of SMEs are essentially influenced by the individual milieu of top-managers and employees, even if there is a certain overlapping of the elements. The analysis of the results of the survey especially has to reflect this component.

# 4.4 Stage 2: Round 2 of interviews and analysis of results

Chapter 4 Findings follows the history of this research. In Stage 1 I discussed the interview round 1 with experiences and first results. They supported the formulation of hypotheses as well as the design of the SME model and the corresponding measurement tool.

Stage 2 concentrates on round 2 of interviews and the differentiated analysis of the results allowing a comparison with other research and formulation a summary. Stage 2 starts with a review of the interview and analyses' methods, followed by a short description of the experiences with round 2 and the results.

The original questionnaire corresponds not to the structure of the SME model and the measurement tool; however, it was not changed because I have always aimed close comparisons between the results of the two rounds to show developments of performance of SMEs. The design of a table (see 3 Methodology, Table 3.5, p. 184) links the questionnaire with the SME model and the measuring tool and facilitates the evaluation of the cases studies according to the general matrix of the tool.

The interview method was adapted basing on the experiences with the handling of the three lists with statements which the interviewed had to weight (see 'Questionnaire', Annexes 6.4, p. 473): In round 2, the interviewed persons got their lists some days in advance. With this adapted procedure the interview time was shortened. The comparison with round 1 showed that this change of method did not influence the data (similar results). The form for owners or top-managers was enlarged by a matrix to measure SMEs behaviour.

## 4.4.1 Round 2 of interviews

The Swiss sample was interviewed between autumn 2005 and summer 2006, the German between October 2006 and January 2007. A

middle sized Swiss company with ISO 9001 and 14001 certification changed ownership between the two rounds; the new top-manager was not ready for round 2, therefore the company was only used for the analysis of round 1. A small sized Swiss company was split into two companies; the company was handled as two separate companies, and both attended round 2.

After the interviews every company received a written analysis of the two rounds with questions and comments. Again, about half of the Swiss and nearly all of the German companies took the opportunity to discuss the results. These discussions showed that some companies changed between the two rounds because of the survey results; these effects provide the partial character of field experiments.

Differences or developments between the two rounds are listed and analysed.

The qualitative data (e.g. individual comments of interviewees, feedbacks of top-managers, company documents) are used for the formulation of the 27 case studies – as far as possible combined with quantitative findings. Afterwards the case studies are compared as a basis for summaries.

The case studies of the companies follow Table 3.5 (p. 184) and concentrate on the elements SME specifications, morality / sustainability, management system and environment (details see Annexes 6.2, p. 437ff). The companies are individually evaluated according to measurement tool by using the differentiated tables.

## 4.4.1.1 Evaluation of companies with standardised system

Companies using one or more standardised systems have shown since the first round of interviews an increasing trend towards circularity and comprehensive people integration and co-responsibility. This process has mostly been accompanied by an optimisation / simplification of their documentation. Companies which introduced their system between the two rounds focused mainly on optimising their procedures. If there was a trend towards circularity and integration, it is often concentrated on managers.

Companies using ISO 14001 were forced to circularity by the standard; because of their intensive internal and external requirements they aimed to over document their procedures.

Three companies explicitly complained about the behaviours of certification bodies (not enough industry knowledge, uninterested, short visits with no results).

The companies mentioned external and internal reasons for the implementation of their systems. The external reason 'customer requirements' was reduced, because of changing behaviours of public customers (instead collaboration with certified partners they prefered increasingly low-price suppliers); on the other hand the adaptation to the needs of the industry increased. Most companies mentioned as internal reason definition and optimisation of competences and processes; other reasons were documentation of existing elements, reorganisation of company, optimising of efficiency, permanent improvement, and providing increasing integration.

Interesting was the development of the company which has been devided in two sections: At the time of the first round of interviews – when the company was still one – there was very little knowledge concerning the system. The second showed two different developments: The part actually managed by the former top-manager was characterised by process optimisation with little circulation; strategy was defined but not related to processes. The other part managed by the former deputy and co-owner concentrated on simple rules, used the review as reflexion and empowerment of staff, and was on a good way to integration.

#### 4.4.1.2 Evaluation of companies with no re-certification of their system

Three medium sized Swiss companies followed a standardised system during the first round, but did it not hold on afterwards.

Two of them were constructing companies. One used ISO 9001 and ISO 14001 and the other ISO 9001. Both had been part of a holding, and their systems had been over documented and badly implemented (topdown and only down to the level of supervisors). That is why they did not aim a re-certification. But they still followed and constantly improved the existing procedures and regulations of responsibilities. Because of the integrating behaviours of the owners company wide communication was guaranteed. Because of external pressure (by public institutions) both reflected a re-certification. One of them started with the implementation of a Balanced Scorecard to integrate vision, strategy and measures; this BSC was thought as a basis for a new implementation of the standard. The other planed a re-certification for 2007 to get a basis for the future (succession by a member of the owner family); it had some interplay between strategy and procedures.

The third (a service company in health care) followed an Industry EFQM model which was never fully implemented. The new topmanager did not want to reanimate the system. He prefered besides the use of existing procedures a communication orientated way to an integration of strategy and daily activities. Especially staffs of a lover hierarchical level felt uncertain.

## 4.4.1.3 Evaluation of companies without standardised systems

The situation of companies without standardises systems was quite variable – mainly depending on the market they were working in.

The two garages and the supporter of consumer electronics had to follow the standards of their suppliers. They also had their own system of OHS; and the quality of their activities based on professional knowledge. Besides that they were intensively depending on the behaviours of consumers. In the period of the first round the consumers had been chary, in that of the second round disposed to purchase. That is why their strategies were not sophisticated, they just wanted to sell and support their products. They were quite small and their internal communication and integration of people were quite high.

The situation of two constructing companies was similar. Both are very much depending on markets' demands. Besides OHS they had minimally defined procedures, the quality of their activities based on professional knowledge, and their strategies concentrated on company's survival. The decision making was owner concentrated.

The bank, the printing plant, the advertising agency, and the bus tour operator showed intensifing levels of integration. All four had their clear strategies and activity aligned procedures. Quality based on professional knowledge and individual responsibility. One of them was disapointed because of the feedback of round 1 and collaborated with a consultant; this activity resulted in a better integration of people as round 2 affirmed.

The furnishing company also had a clear strategy, and its quality based merely on professional knowledge. But the integration of people was quite low; decisions were management concentrated, and the communication between the departments was moderate.

Two German service companies (health care) were on the way to implement a standardised system. During the first round both applied for ISO 9001; meanwhile the new top-manager of the one was looking for a specific industry standard, and the other still aimed ISO 9001. Both were on a good way to define their procedures and followed a strategy. They also showed trends towards circularity and integration, the one with the new top-manger became more hierarchical.

Besides the two health care companies the majority perceived no reason for a certification or they had qualms against certification (no market demands, too expensive, certified suppliers deliver bad products).

## 4.4.2 Analysis of aggregated data - Rounds 1 and 2

After describing the the behaviours of the individual companies between the rounds of interviews and in round 2, I concentrate on the presentation and analyses of the quantitative data – using the results of both rounds.

During the two rounds, 212 people of all hierarchical levels were interviewed. 114 of them participated in both rounds. This number formed a sample allowing relatively reliable quantitative conclusions.

A synopsis of the case studies and the quantitative data allowed me to provide a general overview (Table 4.4). Table 4.4 lists the number of companies and participants as well as the corresponding percentages of the different sub-samples. This allows comparison of the frequencies of the different variables.

	Interview 1 2003 / 2004		Interview 1 2005 / 2006	
Total: 27 companies / 212 interviewees	26 / 171 / 1	00 %	26 / 155 / 1	00 %
VALUE	Number of companies	Number of interviewed	Number of companies	Number of interviewed
Country: Switzerland	20 / 76.9%	132 / 77.9%	20 / 76.9%	115 / 74.2%
Country: Germany	6 / 23.1%	38 / 22.2%	6 / 23.1%	40 / 25.8%
Size: Micro	7 / 26.9%	17 / 9.9%	7 / 26.9%	14 / 10.8%
Size: Small	10/38.5%	92 / 53.8%	11/42.3%	65 / 41.9%
Size: Medium	9 / 34.6%	62 / 36.5%	8 / 30.8%	76 / 49.0%
Industry: Service	14 / 53.8%	78 / 45.6%	14 / 53.8%	80 / 51.6%
Industry: Production	12/46.2%	93 / 54.4%	12 / 46.2%	75 / 48.4%
Market-position: Niche	11/42.3%	56/31.7%	12 / 46.2%	46 / 41.2%
Market-position: Leader	15 / 57.9%	115 / 67.3%	14 / 53.8%	92 / 58.7%
Ownership: Private	1/3.7%	5 / 2.9%	1/3.7%	5/3.2%
Ownership: Limited	20 / 76.9%	127 / 74.3%	20 / 76.9%	110 / 71.0%
Ownership: Foundation / Co-operative	5 / 19.2%	39 / 22.8%	5 / 19.2%	40 / 25.8%
Management system: Quality – ISO 9001 / QQ	12 / 46.2%	90 / 52.6%	11 / 42.3%	60 / 38.7%
Management system: Integration (BSC, EFQM)	5 / 19.2%	22 / 12.9%	5 / 19.2%	14 / 9.0%
Management system: Environment–ISO 14001	5 / 19.2%	33 / 19.3%	5 / 19.2%	16 / 10.6%

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ISO 9001 – Certification Before 2000	7 / 26.9%	66 / 38.6%	8 / 30.8%	52 / 34.4%
ISO 9001 – Certification After 2000	5 / 19.2%	33 / 19.3%	5 / 19.2%	29 / 19.2%
Sex: Male		115 / 67.3%		99 / 65.5%
Sex: Female		55 / 32.2%		56/36.1%
Task: Apprentice		6 / 3.5%		4 / 2.6%
Task: Staffs		72 / 42.4%		63 / 40.6%
Task: Manager		64 / 37.8%		59 / 38.1%
Task: Top manager / Partner		28 / 16.5%		29 / 18.7%

Table 4.4: Survey – overview on companies and sub-samples – basing on case studies and quantitative data

## 4.4.2.1 Comments concerning the sub-samples

<u>Switzerland:</u> The samples of number of companies and interviewed persons are comparable. In the period between the two rounds one company was split in two, and another refused to participate in round 2; this explains the unchanged number of companies. The reduced number of interviewees in interview round 2 is related to the reason that one medium producing company was sold and got a new top manager who was not ready for interview during round 2, and that the management of a small producing company was not motivating its staff for round 2; that is why only one of the managing partners of this company participated in round 2.

<u>Size:</u> Because of their sizes, more people from small and medium sized companies have been interviewed, therefore their samples are larger. The number of small companies was reduced because one company became medium between the two rounds.

<u>Industry:</u> The samples of number of companies and interviewed people correspond, especially in round 2. Because two production companies did not or only minimally participate in round 2, the number of interviewees in production decreased.

<u>Market position:</u> The samples of number of companies and interviewed people correspond, especially in round 2. One leading company with a large number of interviewed persons refused to participate in round 2.

<u>Ownership</u>: Most companies are limited companies; this is related to legal advantages compared to private ownership (responsibilities, taxes). The four foundations and the co-operative belong to the service industry.

<u>Management systems:</u> The lower number of interviewed persons in round 2 is caused by a selection problem of the statistical program.

Sex: A larger proportion of females worked in service companies.

<u>Task:</u> Distribution of interviewed persons of the four hierarchical levels is relatively significant.

## 4.4.2.2 Results and analyses in detail

After the overview of samples and subsamples, I examine the findings according to the elements of the SME model – SME, morality / sustainability, (standardised) management systems, and environment and compare them with results of other research. The presentation of the elements follows the list within Table 3.5.

I concentrate on generic results and results differing from these. Tables containing all results see Annex 6.3. Tables 6.1 to 6.5 are summaries of the case studies, 6.6 and 6.7 concern correlations, and all others relate to a specific issue. The group of numbers before a slash concerns results of round 1, the group after the slash results of round 2 (e.g.: 38 (22.4%)/36(23.2%)).

## 4.4.3 SME - results

The importance of issues concerning 'SME' is indicated by the finding that 69 (of 234) variables with correlations to others are company orientated (company 47; company problems 11; strategy 7; culture 4), and 29 communication orientated (communication 24; information 5).

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## 4.4.3.1 Ownership (Table 4.4)

Most companies were limited companies. The four foundations and the co-operative belonged to the service industry, and the majority of the interviewed persons in these had been females.

The majority of companies planned possible changes in ownership; a minority was in danger of short time reactions.

#### 4.4.3.2 Leadership and decision making (Table 6.8, Table 6.9)

While in the majority of companies (15) leadership and decisions making concentrated on owners / top-managers, people were quite integrated. People saw their arguments as welcome and they were quite integrated in decisions – especially in foundations. Few experienced that decisions were taken lone by management. Round 2 showed different trends; half of the companies were characterised by increased or optimised (or both increased and optimised) integration and corresponsibility of people, and a minority trended to reduced staff integration, especially in companies which had been certified after 2000.

About a quarter saw leadership as a part of their strategy; this view increased in round 2.

About 70% described leadership as co-operative and motivating, more than a quarter as competent and clear. However, about a third characterised leadership as improvable and autocratic or hierarchic; quite often there were different styles within the same company.

Standardised management systems helped to clarify responsibilities.

#### 4.4.3.3 People (Table 6.12)

Companies concentrated on full-time jobs. In round 2, one company was part-time orientated.

The average education was relatively high. Both countries profited from their dual system of apprenticeship (3 days in company, 1 to 2 days in school for duration of 3 to 4 years; this is in addition to a basic school education of 9 years). About half of the companies only hired people with a know-how equivalent to that gained during an apprenticeship. In most companies there was a basic integration, combined with job training. Between the two rounds, the number of people participating in training etc. increased, and that of participating in higher education decreased; that may be related to the fact that a great number were interviewed twice.

## 4.4.3.4 Patterns of organisation (Table 6.10)

Most companies had a mix of organisational patterns. Half of the companies had mainly functional structures, often in parallel with patriarchal forms. Team orientation was quite often used, especially in micro and German companies. Medium sized companies had mainly clear structures. The round table priniciple was only mentioned by a service company characterised by minimal procedures.

## 4.4.3.5 Culture and traditions (Table 6.11)

There was a wide range of cultures and traditions – from minimal common activities to intensive familiarity (even in medium companies). Companies with standardised management systems had very high values for optimal internal conditions (relations, motivation, and team spirit).

## 4.4.3.6 Values (Table 6.13 and Table 6.14)

## 4.4.3.7 Communication (Table 6.15, and Table 6.16)

There was a wide range of information patterns – depending on culture, traditions and pattern of organisation. Communication was mainly concentrated on shop floor level or procedures.

About half of interviewed persons experienced information as systemic, face-to-face and as something that has to be developed by oneself. Only a minority asked for optimisation. Many top managers requested external information (source: associations, seminars, literature).

The rating of arithmetic means of relations according to list A of the questionnaire (Annexes 6.4) was much higher for integrative relations

and behaviours (good atmosphere, ideas are welcome, discussions or cooperative decisions, time for personal relations) than non-integrative (looking for own advantage, people have to work, decisions only made by management).

Staff had quite a number of the lowest values of the top down approach and highest of the peers approach. However, top managers had a large number of lowest values of the peers and highest of the top down approach; the arithmetic means concerning top managers are underlined by relatively high correlations.

Regarding other sub-samples, micro companies had a large number of lowest values (integrative and non-integrative), and foundations or co-operative quite a large number of highest values (integrative and nonintegrative).

## 4.4.3.8 Finance (Table 6.17, 6.18, 6.19, 6.20)

The two rounds of interviews showed converse turnover behaviours of service (decreasing) and production (increasing) companies; this may relate to changed economic situation, as in round 2 the financial basis of production companies was optimised. However, turnovers of companies with environmental management systems or a certification before 2000 increased in both rounds. Cash flows tended to increase between the two rounds. Profits were mainly used for investments and training, and secondly for accumulation of reserves and dividends; this accumulation increased in the second round in medium and production companies. The correlation between financing and size as well as between finance and ownership was very high (> 0.61); private financing increased between the two rounds, and some small and medium companies made investments which increased their bank financing.

## 4.4.3.9 Resources (Tables 6.20 and 6.21)

The problem 'missing resources' (time, infrastructure, suppliers) increased between the two rounds due to the economic boom. <u>People:</u> There was a broad trend for optimal internal conditions for people and for co-operative, motivating leadership. Two third mentioned the integration of staffs as the main social activity. People were important for implementing quality activities and management systems; this issue increased between the two rounds. Between the two rounds, however, there was some decreasing of staff satisfaction which may be related to the increasing pressure of time because of the economic boom.

<u>Finance</u>: Most companies looked for a good balance between funds from company or family and from banks. Financing as a company problem decreased. Between the two rounds private financing increased (especially in companies with certification before 2000). Some tried not to require finance from banks, and a few totally depended on banks. Parallel to round 2, some small and medium companies made intensive investments because of expansion or innovation which increased the proportion of bank financing. More than half the companies had intensive financial control.

<u>Time:</u> Pressure of time increased from round 1 to round 2 and influenced staffs' integration negatively.

## 4.4.3.10 Future of company (Table 6.22)

The general evaluation concerning the positive future of company increased between the two rounds from 64.7% to 74.2%; especially the view of top managers from 15 (of 28) to 25 (of 29). The trend in micro companies was inconsistent.

### 4.4.4 Morality – results

38 variables (of 234) with correlations to others were morality orientated (morality 11; social responsibility 9; specific values 13; private problems 5). They are an indicator for the importance and complexity of 'morality' within the analysed companies.

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## 4.4.4.1 Motivation (Tables 6.23 and 6.24)

The case studies showed that the great majority of all companies had a social motivation. About half of companies had a tendency to integrate morality into strategy. Moral attitudes and behaviours concentrated on improvement of internal issues. About a third of interviewed persons mentioned external activities (local community, sponsoring, relations to customers).

Moral activities were positively related to country, size and ownership, but negatively to industry. Companies in the German sample intensively related to morality. Four (of 6) were service companies and three of them foundations for people in need of care; this finding is related to the selection of the German companies by a pastor.

In round 1 about a third of interviewees said that they had no or minimal influence on social issues, in round 2 the number decreased to a quarter. Two companies had changes or problems within their moral behaviours (reduction of sponsoring, gap between management and staffs).

## 4.4.4.2 Specifications (Table 6.25)

For the rating of values according to list B of the questionnaire (Annexes 6.4, p. 425), interviewees could distribute a total of 25 points on 17 values; the possible rating of individual value was between 0 and 5. The values are listed in Table 4.5.

# Descriptions of values A) To be an example, to implement ideals and to keep commitments B) To be integrated in decisions

- C) To be strictly compliant with standards and laws
- D) Fun is the most important element of my life
- E) To produce a good impression, image
- F) To have enough time for private relations, family, leisure
- G) To put justice, community, solidarity, participation and tolerance in front
- H) To be behave responsible even if there is resistance within the company
- I) To avoid all cost which are not directly productive, to maximise profit
- J) To aim mental, psychic and physical health
- K) To have the possibility for lifelong learning, to be enabled and challenged
- L) To be loyal to have primarily an engagement for tasks and the company

- M) To be open to others, to respect one another feedback (positive and negative)
- N) To think in long terms, to value and integrate consequences
- O) To have alternatives in work and private life
- P) To have enough time for planning and reflecting
- Q) To be flexible, spontaneous

Table 4.5: Longitudinal survey with SMEs – list of descriptions of values

Some values contain more internal and external issues of a company and some examine both areas.

Both areas: 'example, true', 'justice, community', 'open to others', 'flexible, spontaneous', 'mental, psychic and physical health', 'good impression, image', 'alternatives', 'long terms', 'planning and reflecting'

<u>More internal issues:</u> 'integrated in decisions', 'lifelong learning', 'responsible - even if there is resistance within the company', 'loyal - to have primarily an engagement for tasks and the company', 'strictly compliant', 'maximise profit'

More external issues: 'private relations', 'fun'

Comparing the arithmetic means, the analysed companies were characterised by a mix of values guaranteeing private and company survival. Figure 4.7 gives an overview on the ranking of the different values and shows the differences between the users of different management systems<sup>49</sup> in round 2. The peaks of valuation deflected minimally: The most impressive peaks were A 'being an example', F 'private relations', G 'justice, solidarity' and M 'openness, respect'. Incorporating the medium peaks J 'health', K 'life long learning' and Q 'flexibility', affirmed the optimal mix of values guaranteeing private and company survival. The minimal rate for I 'maximise profit' was not surprising, reflecting the triple bottom line values (two thirds of all

<sup>&</sup>lt;sup>49</sup> Legend: All Comp = all companies; Standard = companies using a standardized management system; ISO 14001 = companies using ISO 14001; No Recert = companies which did not recertify their management system; No Standard = companies without standardized management system

companies weight 'social' as important); this weighting was underlined in most cases by the company's praxis (see case studies: Annexes 6.2, p. 323ff).

Choosing value specifications was mainly correlated to tasks of interviewed persons. Exceptions were 'openness' (positive to ownership, negative to industry) and 'lifelong learning' (positive to country, size and ownership); the fact, that the four health care companies belong to foundations, and that three of them were in Germany, explains these exceptions.

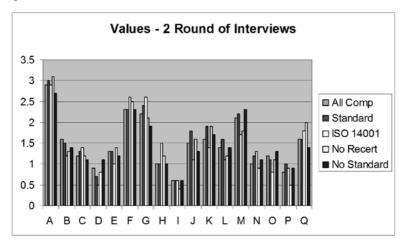


Figure 4.7: Longitudinal survey with SMEs – list of descriptions of values – evaluation of companies using different sorts of management systems

The ranking of the values showed these specifications for subsamples:

'an example', 'justice', 'responsibility' and 'long terms' were more important for top managers than for staffs; on the other hand staffs had higher values for 'integration', 'image', 'alternatives' and 'fun'. These differences show disparate emphasises of leaders and collaborators.

'Enough time' was especially relevant for micro companies, and 'strictly compliant' irrelevant; this may relate to restricted resources of

micros. 'Open to others', 'integrated' and 'lifelong learning' were emphasised by foundations and co-operation showing specific issues of cultures.

#### 4.4.4.3 Values – backgrounds (Table 6.26)

The interviewed based their moral attitudes on different issues. For nearly two thirds experience was fundamental, for more than half family, school, youth were essential; but also important were religion, education or job, and personal development or character building.

#### 4.4.4.4 Personal/private problems (Table 6.27)

The analysis of the numerated personal / private problems showed two main trends – problems related to society and economy and to more private problems. Nearly a third mentioned individualisation and egoism, a quarter politics (European integration, globalisation, bureaucracy) and restrictions in living conditions. A minority stated increasing problems within economy (dependence and monopoly) and with availability of private time.

#### 4.4.4.5 Religion / philosophy of life (Table 6.28 and Table 6.29)

The majority of interviewed persons identified their religion or philosophy of life. The great majority of the Swiss sample was Catholic. In Germany there was a balance between Catholics and Protestants. Minorities were Muslim, Orthodox and people with no specific religion (but having a philosophy of life). The influence of religion and philosophy of life was very important for company and private life.

Religion as a background is positively related to country; the German sample was selected by a pastor and contained three health care companies with a Christian background.

#### 4.4.4.6 Politics: party preference / attitudes – distribution (Table 6.30)

Quite a lot had a party preference which increased at round 2. Also the number of people with no preference but theme orientated attitudes increased.

#### 4.4.4.7 Rating of statements (Table 6.31)

The survey of Ulrich P. et al. (1998) concentrated on top managers of largest companies in Germany and Switzerland (Germany: 550 – Switzerland: 224). The aim of including validation of Ulrich's statements into my research was to detect differences between large businesses and SMEs. The most corresponding statement had to be rated with 4, then downwards 3, 2, 1; the arithmetic mean was calculated for every statement.

The interviewed persons of my research had an intensive trend towards conventionalism. In comparison to the managers of the large companies, the top managers of the SMEs tended less against economism and more against reformism. This finding underlines the different moral trends of SMEs and large companies; the morality of SMEs trends towards solid relations, responsibility towards people and (local) community and long-term survival of companies.

#### 4.4.4.8 Sustainability and codification

The analysis the results of triple bottom line (Table 6.14, p. 447) and codification (Table 6.13, p. 447) shows that two thirds of companies had defined values, especially the small and early certified companies. Also two thirds regarded finance as fundamental for survival, but at the same time two thirds of companies with standardised systems assessed social elements as very important (companies without systems: about half); and all companies with environmental systems considered social and environmental elements as decisive.

'Moral code' had positive correlations to country, but also a number of negative correlations (size, industry, market position, and year of certification). Five (of 6) German companies followed industry codes; this may explain the positive relation to country. The negative correlations can be clarified by that fact that especially small companies followed industry codes; a substantial number of small companies were niche players without certification.

#### 4.4.5 Management system - results

51 variables (of 234) correlated to 'Management systems' (management systems 39; quality 6; environment 6), underlining the significance of the issue.

# 4.4.5.1 Mission and strategies, statements, objectives (Table 6.32 and Table 6.33)

About three quarters had a mission and related strategies (with different degrees of formalisation and integration). More than half of the companies considered moral elements and quality leadership as part of their mission, followed by customer orientation and common survival.

Concerning strategies and objectives, there was a mix of external (customer satisfaction, market position, offering jobs) and internal issues (future orientation / innovative, internal conditions / staffs orientation, achievement of objectives / profit, flexibility / independence, management system, effectiveness).

Some of the issues increased between the two rounds (flexibility / independence, staffs orientation, effectiveness), others decreased (customer satisfaction, achievement of objectives / profit, offering jobs) and some did not change (future orientation / innovative, internal conditions, market position, management system).

Leading issues were customer satisfaction and optimising quality and management systems, innovation, and effectiveness. Less important were offering jobs or education, and flexibility or independence.

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#### 4.4.5.2 Range and formality (Tables 6.34 to 6.39)

The analysis of correlations showed intensive relations between use of standardised management systems and market leaders, integration, production, quality, physical environment as well as some moral issues.

The external pressure for the implementation of standardised systems was quite intensive in production; service companies showed a trend toward a mix of external and internal influencing issues.

The two rounds of interviews showed an intensive increase of turnovers of companies with environmental management systems or a certification before 2000. Also, the acceptance and handling of the systems increased between the two rounds. However, seven companies were concerned with the fragmentary use of their management system.

Company systems (without a standard) increased and have been mainly mentioned by people of micro companies. The number of persons mentioning integrative systems as BSC or EFQM, industry standards or ISO 14001 decreased; the decreasing of ISO 14001 is surely related to the fact that in round 2 there were fewer companies using the standard (3 instead of 5). The mentioning of OHS decreased intensively; they seemed to become part of company behaviour.

The analysis of answers concerning experiences with the implementation of management systems shows that the percentage of sensitised people increased from half to two thirds. The problems with the implementation (stress, opposition) decreased and the knowledge concerning systems increased; exceptions were people of micro companies – probably related to newly implemented systems. The possibilities of influence on management systems increased – especially in connection with system optimisation (procedures, meetings, knowledge as well as internal and external behaviours and effectiveness). There was quite an intensive increase in planning of integrated and industry systems. The knowledge of staff concerning planned systems increased minimally. Integrative issues are increasingly implemented (strategy, objectives, integrated processes).

For a further analysis, I parallelised the variable 'year of certification' with trend to certification; there were high correlations between 'year of certification' and market position (0.59), management systems with BSC or EFQM (0.59). These correlations brought me to examine the influence of different variables on the (dependent) variable 'year of certification' by a linear regression<sup>50</sup>. The corrected R-square of influences on 'year of certification' was 0.499, which means that the variables explain 'year of certification' by 50%.

In round 1 market position, ownership, and size have influenced 'year of certification'; in round 2 the major influences were moral issues (influence of family / school and examples). Country's influence was probably negative, because only a third of the German firms had been certified. The negative influence of industry relates to the fact that mainly production companies have been certified.

#### 4.4.5.3 Standardised management systems – in detail

Some leading companies applied integrative systems as TQM and BSC; this finding was affirmed by the positive correlation of 'Management system – Integration (TQM, BSC)' to size, market position, ownership and year of certification. However, two cases showed that the implementation of EFQM was superficial and top-manager orientated.

Companies being certified according to ISO 9001 were characterised by a concentration on owner or top manager, an intensified integration of people, and interplay of the elements of the SME model. 'Manage-

<sup>&</sup>lt;sup>50</sup> The general purpose of a linear regression is to learn more about the relationship between several independent or predictor variables and a dependent or criterion variable. R-square indicates the variance of the dependent variable; a corrected R-square moves between 0 and 1; it can be transferred into percentages (e.g.:  $0.15 \rightarrow 15$  %). Standardised B-coefficients move between – 1.0 and + 1.0 and indicate the intensity and type of influence.

ment system – ISO 9001' was positively correlated to industry, market position and year of certification; leading production companies trended to the use of the standard.

Companies being certified according to ISO 14001 showed a variety of issues – concentration on owner or top manager; integration of people, mix of partnership, collegiality, respect and trust; and an intensive interplay of the model's elements. However, a minority was still control and technology orientated, and nearly a quarter of people mentioned their minimal influence on the management system. 'Management system – ISO 14001' was positively correlated to size, industry, market position and year of certification, but negative to ownership; leading production companies tended to the use of the standard, and all foundations, the co-operation and the single private company were offering services and were not applying the standard.

#### 4.4.5.4 Quality (Table 6.40)

Nearly two thirds of interviewees defined quality with customer orientation, and nearly half with professional or communicative behaviours. Nearly three quarters based their influencing quality on behaviours, equipment and material, and one quarter on staff integration and motivation. Top managers showed similar patterns as all other interviewees.

#### 4.4.5.5 Risk management – company data (Table 6.41)

The great majority of companies controlled their financial activities. Besides micro companies nearly all had at least a partial risk management. Quite few had a comprehensive risk management of all activities and a defined methodology to plan their future; service and integrative companies had a trend to comprehensiveness.

#### 4.4.5.6 Knowledge management (Table 6.12)

All profited of the dual system of professional education of Germany and Switzerland<sup>51</sup>; people regularly assisted trainings and seminaries. However, only a minority had a strategic knowledge management; an increasing number provided staff integration and support with education.

#### 4.4.5.7 Comprehensiveness

There was an increasing tendency for integration, while the management systems concentrated merely on shop floor and process level. Only a third had planned, integrated and circular systems aimed at sustainability.

#### 4.4.6 Environment – Results

#### 4.4.6.1 Society (Table 6.42)

With the exception of offering workplace, there were few public activities as events for customers and local communities, yet some sponsoring occurred. Three top managers were active in politics. Sponsoring (e.g. of sports) was partly reduced between the two rounds of interviews because of a lack of customer reactions from sponsored associations.

All followed legislation, but quite a lot suffered from the increasing number of requirements; nearly all tried to integrate public requirements in their targets. Few interviewees mentioned that politics limited economic activities; the number decreased in round 2. There was an intensive correlation between external requirements and country (0.68); external requirements depend mainly on specific situations of countries (legislation, industry culture).

<sup>&</sup>lt;sup>51</sup> Companies in Germany and Switzerland profit from the dual education system; apprentices work in company three days, and they stay in professional school for two other days.

Some managers mentioned activities in associations (e.g. membership, member of committee). A majority integrated these activities into strategies.

#### 4.4.6.2 Economy (Tables 6.43 to 6.47, Table 6.20)

More than half of the companies were innovative in products and processes; innovations were part of strategy and objectives – often combined with marketing. A few companies merely reacted to market changes.

Within PR most companies applied a mix of advertisements, expositions, personal contacts, events, mailing, and customer calls; personal contacts and customer calls have intensively decreased at round 2.

All companies have been market orientated. About half were market leaders or in second position; for them market planning was an integrated element. Micro and service companies were mainly acting in niches. Small companies were found in both positions.

Nearly two thirds of the companies were exposed to competition – mainly small ones. The relation to competitors depended on industry. Between the two rounds of interviews the relations became less stressed.

Market orientation implied fulfilment of customer requirements. About two thirds of companies planned their customer relations. The majority of companies were regionally active; because of their products, nearly half of the production companies had national and international customers. Depending on industry the geographical radius was enlarged because of market pressures. More than a third had private customers, and about half a mix of private and company customers. A fifth concentrated their activities on company customers; the majority of them were companies with an environmental management system.

Generally the relations to suppliers had the form of long term partnership. Only a minority regarded prices as decisive.

Most companies looked for a good balance between funds from company or family and from banks. Financing as a company problem decreased. Between the two rounds private financing increased (especially in companies with certification before 2000). Some tried not to require financing from banks, and a few depended totally on banks. More than half of the companies had intensive financial control as part of their risk management.

#### 4.4.6.3 Physical environment (Tables 6.48 and 6.49)

All companies felt responsible for the physical environment and fulfilled at least the legal requirements. Some had only minimal or even no issues concerning physical environment. The serious handling of material was self-evident; however, the aim of economisation of energy and water was only mentioned by a quarter. Quite a lot tried to do more than required (not only companies with ISO 14001) and some intensified their activities between the two rounds; nearly half integrated environmental activities into strategies. Three quarters of interviewees could influence the optimisation of the physical environment through daily activities; this influence increased between the two rounds. Interestingly nearly a quarter of people working in companies with ISO 14001 mentioned only minimal possibilities of influence.

#### 4.4.7 Exploring interrelationships according to the SME model

After reviewing the findings to the individual elements and the environment of the SME model, the comprehensive view and its effects on performance has to be analysed.

The findings above show issues of the interplay of the elements within the environment. The main correlations of variables – as mentioned in sub-chapters 4.4.3, 4.4.4, and 4.4.5 – rely on the elements of the SME model designed in 4.3. This corresponds with the main highlights in most companies; they address company (owner, staff, future, technology / infrastructure), morality (behaviours within company, public responsibilty) and environment (customers, local

community, children labour, physical environment). Certified companies – especially those applying ISO 14001 – showed a trend towards integration of people. Nearly a quarter of the companies, however, were concerned with the fragementary use of their management system, had problems with leadership and integration of staff and suffered from increased pressure because of competition.

#### 4.4.7.1 'SME' and 'morality'

Two thirds of companies had defined values; most small and early certified had defined values.

More than half of the companies considered moral elements and quality leadership as part of their mission. They also included customer orientation and common survival in their mission.

#### 4.4.7.2 'SME' and '(standardised) management system'

All companies had a sort of management system; half applied a standard. Standardised management systems helped to clarify responsibilities and – especially those applying ISO 14001 – showed a trend towards integration of people; companies using standards also had very high values for optimal internal conditions.

#### 4.4.7.3 'SME' and 'enviroment'

Companies mentioned quite few public activities. All have been customer orientated. The relations to competitors distressed between the two rounds because of the economic boom. There was a general openness towards the requirements of the physical environment.

#### 4.4.7.4 'Morality' and '(standardised) mangement system'

Nearly all early certified companies had defined values. Two thirds of companies with standardised systems assessed social elements as very important (companies without systems: about half); and all companies with environmental systems considered social and environmental elements as decisive. More than half of the companies considered moral elements and quality leadership as part of their mission, followed by customer orientation and common survival.

#### 4.4.7.5 'Morality' and 'environment'

There was a high sensibility towards the challenges of the environment. People mentioned a large diversity of problems and fears concerning society, politics, economy, and physical environment; a great number also spoke about their concerning activities. The companies' moral responsibility towards society, however, was relatively small (offering of jobs, events for the community, some activities in associations and politics, little sponsorship), and towards the physical environment a matter of course.

#### 4.4.7.6 '(Standardised) management system' and 'environment'

In round 1 there was an intensive correlation between market position and 'year of certification'; the use of standards was, at times, often a requirement of customers or a market instrument. In round 2 the effects of the standards were internal or customer orientated. Companies applying ISO 14001 had a high sensitisation towards the physical environment.

#### 4.4.7.7 Owners/top-managers

The outstanding highlight of the case studies was the concentration on owner and top-manager (all: 15 of 26 - ISO 9001: 8 of 12 - ISO14001: 3 of 5). The owners and top-managers influenced moral activities, tried 'to be an example', and were responsible for external relations; their leadership reduced their time for values which did not directly refer to their duties. Between the two rounds of interviews changes occurred in leadership which were mainly related to the owner or top manager (change from patronal behaviour to partnership: 4 of 26 - trend to patriarchal / hierarchical behaviours and / or stringent procedures / centralisation: 8 of 26); four companies got new owners (2) or topmanagers (2), influencing intensively the application of the management system.

Regarding at the case studies, there were no apparent differences between attitudes and behaviours of owners and top-managers.

There is an intensive convergence between this and other researches concerning the position of the owners and top-managers within SMEs. Their (moral) backgrounds coined all attitudes and behaviours of the company.

#### 4.4.7.8 Interplay of all elements

The analysis of the case studies shows different levels of integration and interplay of the elements. Three (of 5) companies with ISO 14001 had an intensive integration of all elements, followed by companies with ISO 9001 (6 of 12) and companies without standard (6 of 14); this finding indicates that integration is not bound on standardised systems. Some users of standards also had systems which were comprehensive but not integrated or even sophisticated; on the other hand there were companies with no standard but with high moral attitudes and behaviours. The finding, that standards are not needed, is underlined by the finding that about three quarters had a mission and related strategies containing different degrees of formalisation and integration.

The interplay of the elements provide performance: Decisive are customer orientation and common survival, high sensibility towards the challenges of the environment, general openness towards the requirements of the physical environment. Standardised management systems help to clarify responsibilities and – especially those applying ISO 14001 – show a trend towards integration of people.

#### 4.4.8 Key findings of the longitudinal survey

The findings demonstrate that attitudes and behaviours of and with SMEs are directly related to the personalities of owner or top-managers and people, and with that to their moralities. On the other hand, SMEs are embedded in an ongoing, changing and challenging environment which forces them into permanent adaption. (Standardised) Management systems support the integration of morality, leadership, people, and all sorts of stakeholders. The effects of the interplay of these issues provide sustainable performance of SMEs.

I deepen these universal statements by examining a number of key findings as time of interviews, country, size, nature of enterprise, adoption of management system,

#### 4.4.8.1 Time (depression and growth)

Especially productive SMEs and service companies working under competing market conditions were challenged by economic depression and growth. Both times were stressing; during depression managers were looking for new orders and staffs were afraid of their personal future; during growth managers were forced to get enough resources (workforce, finance, material).

The four service care companies were less influenced by time; however, reduced financial resources forced them to optimise their procedures and led them towards functionalist systems with objectives and controls.

#### 4.4.8.2 Country (Switzerland and Germany)

There were differences in the selection of companies of the two countries. I found the Swiss partners by the use of professional and personal relations as well as internet platforms; there is mix of different productive and service companies. The German SMEs were procured by a pastor; that is why at least all owners or top-managers had a religious or moral background; and three of the six companies were care companies belonging to a Christian holding.

With this background, the findings concerning the German companies are more moral orientated; on the other hand, they are characterised by a national culture with a trend toward more administrative requirements and to the use of industry codes. Only a third of German companies applied standards in comparison to half of the Swiss. The distribution of the nature of companies was the same; only a third of German companies were in production compared to half of the Swiss companies. In addition, the German sample contained no micro company.

#### 4.4.8.3 Size of SME (micro, small and medium)

Micro companies trended toward team orientation, and to acting in market niches, and to designing management systems of their own. There were minimal differences between small and medium companies; these trended more intensively to defined procedures and responsibilities.

#### 4.4.8.4 Nature of enterprise (production or service)

The production companies were more in leading market positions, and as a consequence applying more standards aiming clear procedures. Two construction companies without standard were an exception; they were totally delivered to market's mercy. Service companies trended to more team orientation; this may be related to the composition of the sample (e.g. health care, co-operation bank, micro companies).

#### 4.4.8.5 Adoption of standardised management system

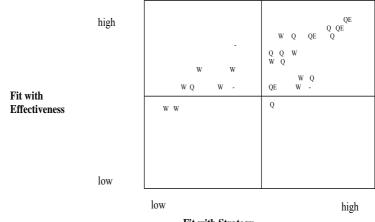
The companies applied a large palette of standardised management systems. The use of the standards helped clarifying responsibilities and showed a trend towards integration of people (especially those applying ISO 14001); companies using standards also had very high values for optimal internal conditions. On the other hand there were two companies which minimally applied their system and one which obtained it only for image within the market. All the key findings characterise a specific issue of the survey and therefore support a clearer discussion about the research questions and hypotheses in 5 Conclusions and the effects on performance.

#### 4.4.9 SME model and measurement tool

After discussing the findings concerning the elements and the comprehensive view of the SME model, the corresponding measurement tool has to be tested and discussed – especially concerning its ability to measure SMEs' performance.

To apply and test the measurement tool, I validated every company using evaluation Table 3.5, following the specifications (see Tables 4.1, 4.2, 4.3). In a second step, the results were positioned in the basic matrix.

The summary in Figure 4.8 shows the distribution of the validation of the 26 SMEs of the author's survey after round 2. Because there were minimal changes of companies' positions in the basic matrix, the presentation concentrates on round 2.



Fit with Strategy

Legend:

Q : companies with standardised quality system

QE: companies with standardised system for quality and environment

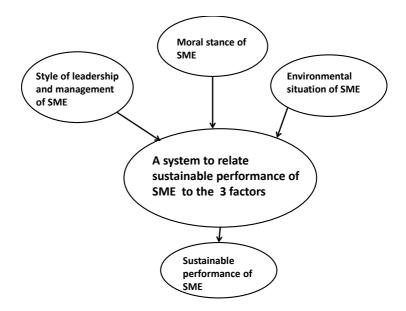
- : companies with no re-certification of their standardised system w : companies without standardised systems

Figure 4.8 : Validation of the SMEs within the survey of the author – round 2

Nearly all companies optimised their integration in different issues. It supports the assumption that primarily motivated companies have been ready to assist a longitudinal survey with time intensive interviews. Generally, the analysis shows (as in 4.4.7, p.261ff) that SMEs do not need a standardised management system to implement an increasingly circular system with intensive integration of people (basic results see Table 6.50).

The result shows that the tool is able to measure changes in performance, especially if the differentiated tables are applied.

The SME model has been designed by applying SSM of Checkland and Holwell (1998) and examined by CSH of Ulrich, W. and Reynolds (2010). The inputs of the model (Figure 4.4) are the three elements management system, morality and the environment. They relate to the sustainable performance of the SME. The output is the optimised sustainable performance of the SME basing on the ongoing interplay of optimised knowledge, service and product, and stakeholder satisfaction.



#### Figure 4.9: Conceptual SME model 2 of this research.

The model has been successfully tested by the practical use with the results of my survey. It illustrates specifications of the elements, their interplay and reciprocal influencing of effects as well as the ability to show changes in performance; the issue of time opens the view for possible challenges in improvements within companies, morality and management systems within their common environment.

The general matrix of the measurement tool allows companies a catchy portrait of their actual situation and supports fields of improvement. I could it verify during the feedbacks with companies and as a consultant with customers.

I designed the specific tables according to the questionnaire and presented the results (according to the Table 3.5). That is why they are quite complex and have to be redefined following to the definition of the basic matrix (4.3.4); this allows optimising the questionnaire.

#### 4.4.10 Critical review of results

The findings demonstrate that attitudes and behaviours of and with SMEs are directly related to the personalities of owner or top-managers and people, and with that to their moralities. On the other hand, SMEs are embedded in an ongoing, changing and challenging environment which forces them into permanent adaption. (Standardised) Management systems support the integration of morality, leadership, people, and all sorts of stakeholders.

Because of their readiness for a long term analysis it can be presumed that the observed companies mainly belonged to a higher quality level of management. Some companies mentioned a direct influence of the feedbacks of interview round 1 on their development. Another problem for the validity of data may be that in most companies the individuals have been selected by the owner or top-manager. Some managers noted explicitly that it was difficult to motivate people.

The validation of the results of my research is limited by the selection of companies because its basis is not on a random sample. In fact, the selection of companies depended on my personal and professional contacts and on relations of a German colleague. Furthermore, the longitudinal survey with two rounds of intensive interviews demanded quite intensive willingness for cooperation.

The sample of 27 companies is relatively small, although comparable surveys analyse similar numbers of companies (Baumann et al. 2013, Friedman et al. 2000, Laeis 2005, Martinez and Martinez 2007, Martinez and Martinez 2004, Sneep 2007, Spence and Rutherfoord 2001, Spence et al. 2003, Wagenbach 2001, Werner 2007, Williamson 2006). While these surveys concentrate mainly on owners or top managers, my research also includes a large number of people from several hierarchical levels and departments.

Samples of 1000 persons serve for forecasting behaviours of constituents. In my research 212 people were interviewed during the two rounds of interviews; 114 of them participated in both rounds. This number forms a sample allowing relatively reliable quantitative conclusions. The sub-samples (see Table 4.4) with 100 and more participants are quite reliable. The lesser the number becomes the more findings are reduced on trends.

#### 4.5 Stage 3: Comparison with other surveys

In Stage 3 the results of my survey are compared with those of others and a summary of findings is presented in a table.

#### 4.5.1 Comparison with results of other surveys

Compliances and differences of the results of the survey are discussed and examined to test their relevance and to discuss their possible generalisation by literature review and other surveys.

#### 4.5.1.1 SMEs

My survey showed a mix of organisational patterns for most companies (with an emphasis on team orientation). People were quite integrated in leadership and decisions making. The range of cultures and traditions was wide; many companies with standardised management systems had very high values for optimal internal conditions.

Information patterns were depending on culture, traditions and pattern of organisation. Communication was mainly concentrated on shop floor level or procedures. About half of interviewed persons experienced information as systemic, face-to-face or as something that had to be developed by oneself; the rating of integrative relations and behaviours was very high.

The education of the average was high; about half of the companies hire only people with a know-how which includes apprenticeship experience. Most companies offer internal or external training.

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Cash flows tended to increase between the two rounds. Profits were mainly used for investments and trainings, and secondly for accumulation of reserves or dividends. Most companies looked for a good balance between money from company or family and from banks. Financing as a company problem decreased. Pressure of time increased from round 1 to round 2.

There was a broad trend for optimal internal conditions for people and for co-operative, motivating leadership. Two-thirds mentioned the integration of staffs as the main social activity. Between the two rounds there was some decreasing of staffs' satisfaction.

The positive evaluation of the future of the company was increasing between the two rounds.

In comparison to other research, the advantages of my research are the integration of staffs' arguments to emphasize the substance of the issues as well as the two periods of interviews.

There is a long range convergence comparing the internal issues (see 2.3.1, p. 68ff). Looking at the external issues (see 2.3.2, p. 76ff), there are topics which have only been touched upon by my research as 'SMEs driving forces of the economic development' and 'integration in globalisation' (only one company had an intensive cross-border activity).

Concerning the detected gaps in research questions, my findings are able to fill some of them. The results give information concerning the organisation and ownership of SMEs, SMEs and culture, and employ of processes, technology and knowledge management within SMEs. The case studies showed minimal differences between behaviours of ownermanagers and employed managers; both groups have been very much motivated towards the survival of the companies. Four cases showed effects of the replacement of managers; all four tried to change the companies according to their visions, and in two cases they were supported by the owners. Watching external issues, this research provides some input concerning market fluctuations; the production companies profited from the economic boom.

According to the Table 2.1, the evaluation of 'SME' shows a mix of approaches suited to the contemporary system thinking of Jackson (2000); there are functionalist issues in organisation (e.g. hierarchical procedures), and also interpretative and postmodern (e.g. team orientation, matrix procedures). Using Table 2.3, the classification 'complex pluralist' suits most because the range of the analysed companies is very wide, and only a minority of micros can be classified as simple.

#### 4.5.1.2 Morality

Service companies trend to social issues, productive to environmental. Especially companies with certification have a value orientation. Two thirds of companies (especially small and early certified) had defined values. About half had a tendency to integrate morality into strategy. Also two thirds regarded finance as basis for survival, but at the same time again two thirds of companies with standardised systems assessed social elements as very important (companies without systems: about half); and all companies with environmental systems considered social and environmental elements as decisive.

Moral attitudes and behaviours concentrated on improvement of internal issues. About a third of those interviewed also mentioned external activities. The analysis of the mentioned personal or private problems showed issues related to society and economy and issues based on privacy.

Small companies followed industry codes and had defined values.

Companies in the German sample were intensively related to morality, four (of 6) were service companies. Nearly all German companies followed industry codes; this may be related to the industrial tradition of the country.

The rating of 17 values was mainly related to tasks of interviewed persons. The companies were characterised by a mix of values guaran-

teeing private and company survival. The most impressive peaks were 'being an example', 'private relations', 'justice, solidarity' and 'openness, respect'. The minimal rate for 'maximise profit' was not surprising, reflecting the triple bottom line values (two thirds of all companies weight 'social' as important); this weighting was underlined in most cases by the company's praxis.

There is a general convergence between this research and others (see 2.4.2, p. 87ff). Morality is very much influenced by people and their backgrounds. The specific characteristic of my research is the mix of interviews showing differences in values of top-managers and staffs; the research also shows a trend to defined values – especially for small and German companies.

The examination of 'morality' according to system thinking shows a clear trend towards the interpretive and postmodern approaches; morality in SMEs is an ongoing complex pluralist process triggered by internal and external issues.

The examination of 'SME' and 'morality' leads to third element '(standardised) management system' characterised by a partial integration of the other two.

#### 4.5.1.3. Management systems

About three quarters of the companies had a mission and related strategies More than half considered moral elements and quality leadership as part of their mission, followed by customer orientation and common survival.

Companies with standardised management systems had a value orientation, especially very high values for optimal internal conditions. The external pressure for the implementation of systems was quite intensive in production. The acceptance and handling of the systems increased between the two rounds.

Leading production companies tended to the use ISO 9001. Half of the companies showed an intensive interplay of the elements of the SME model and an integration of people, a third an intensive orientation towards physical environment. Within a minority the management system was still control and technology orientated.

Companies using ISO 14001 generally had a high rating of highlight issues. All had their people integrated, and customer orientation and effectiveness are their main issues. A majority had an intensive interplay of the elements. Technically leading production companies tended to the use of the standard ISO 14001.

Nearly two thirds of participants interviewed defined quality as customer orientation, followed by professional and communicative behaviours (nearly half). For nearly three quarters quality was based on behaviour, equipment and material and for one quarter by staffs integration and motivation.

Beside micro companies, nearly all had at least a partial risk management; service and integrative companies (e.g. using EFQM or BSC) had a trend to comprehensiveness. All profited from the dual system of professional education of Germany and Switzerland; however, only a minority had a strategic knowledge management.

There was an increasing tendency for integration; however, the management systems concentrated on shop floor and process levels. Only a third had planned, integrated and circular systems focussed on comprehensiveness and sustainable performance.

There is a quite intensive convergence between this and other researches. My survey cannot answer all the gaps mentioned in 2.5.3 (p. 105ff); there are still no data concerning the number of certified SMEs and reasons for the implementation of standardised management systems in specific regions. However, there is information concerning company designed management systems, and internal effects of standardised management systems; especially the examination of the round 2 of interviews showed an intensive trend towards a more comprehensive use of the standards and an increasing value orientation. Problems with third party auditing were not explicitly discussed; companies mainly used the audits for getting the needed certificates, long lasting effects of advice from auditors were rarely mentioned.

According to 2.5.4 (p. 124ff) all management systems contain in their concepts at least implicitly moral issues which enlarge the functionalist character of the systems. This research shows that management systems challenged the user and triggered their attitudes towards a more morally reflected behaviour (e.g. internal and external relations, use of materials). On the other hand the range of implementation of management systems depended intensively on the attitudes of owners or topmanagers and their moral backgrounds as well as on motivation of staffs (especially development of visions and strategies or the implementation of ISO 14001).

The range of applicable system thinking approaches in 'management systems' reaches from functionalist (clearly defined procedures) to interpretive and postmodern (integrative systems with ongoing moral reflections). There are simple systems in micro or functionalist organised companies; the majority, however, is characterised by complex pluralism.

#### 4.5.1.4 Environment - Society

There were quite few public activities (events for customers or local communities, and some sponsoring, activities in politics, associations). Quite a lot suffered from the increasing number of public requirements. Public activities were often integrated in strategies.

There is an intensive convergence with other research (see 2.6.1, p. 134f). Other surveys, however, describe a larger palette of activities in local communities. Managers and staffs are integrated in associations and politics. The increasing problems with authorities are confirmed.

#### Economy

More than half of the companies were innovative in products and processes; innovations were part of strategy and objectives – combined

with public relations. A few companies were merely reacting on market changes.

All companies have been market orientated. About half were leaders or in second position. The relation to competitors depended on industry. The majority was regionally active; nearly half of the production companies had national and international customers because of their products. Depending on industry the geographical radius was enlarged because of the market pressure.

More than a third had private customers, and about half a mix of private and company customers. A fifth concentrated their activities on company customers; the majority of them were companies with an environmental management system. About two thirds planed their customer relations. Most companies lived in partnership with their suppliers.

The results are comparable with other research (see 2.6.2, p. 136f). A characteristic of this research is the high number of companies in leading market positions; other research contains minimal information concerning market position.

#### 4.5.1.5 Environment – Physical Environment

All companies felt responsible towards physical environment and fulfilled the basic legal requirements. Some had only minimal or even no issues concerning physical environment. Overall, however, many companies tried to do more than required by public administration or customers. Nearly half integrated environmental activities into strategy. Three quarters of interviewed participants could influence the optimisation of the physical environment by their daily activities.

This research is in large convergence with other surveys (see 2.6.3, p. 139f). A specification of this research is discussing data of persons of different hierarchical levels. Other research intensively mentions internal and external barriers hindering the implementation of environmental systems; in mine, environmental questions have been discussed as a

matter of course, and environmental systems have been applied if the company needed it.

After examining SMEs and their environment, several system approaches can be applied. Functionalist issues work by following defined procedures, attaining objectives and fulfilling legal or other requirements; interpretive or postmodern approaches are suited to comprehensive activities within the environment (by using various inputs of the environment and influencing it).

The comparing activities are closed with the highlight of my research – the comprehensive view basing on the SME model.

#### 4.5.2 Comprehensive view

Nearly half of the companies had an intensive echange and interplay of management systems, morality and environment. A third had an interplay, but no systematic integration or formalised system. Nearly a quarter were characterised by an intensive motivation and integration of employees. And again nearly a quarter intensified their mission towards physical environment.

Companies were characterised by a concentration on top-manger and an intensive trend for integration of people combined with a family culture. Standardised (especially environmental) systems demonstrated generally more effects towards effectiveness as well as embedded circularity and integration than companies without standard.

The economic situation changed between the two rounds; a depression characterised the period of round 1, and a boom during the time of round 2. All elements of the SME model have been concerned with changes between round 1 and round 2. Some of the strategic issues increased between the two rounds (flexibility / independence, staff orientation, effectiveness), others decreased (customer satisfaction, achievement of objectives / profit, offering jobs) and some did not change (future orientation / innovative, internal conditions, market position, management system). The integration and co-responsibility of people were increased or optimised in half of the companies. Leadership showed two patterns: a quarter displayed a trend toward patriarchal or hierarchical behaviours, stringent procedures, or centralisation and more than a third changed from patronal attitudes to partnership. A fifth has been hindered in their development by time pressure, and some became more sensitive towards physical environment, and expanded or made acquisitions. Profound changes occurred in six companies (different adaptions, additional certifications, TQM orientation, and use of supplier standards). Production companies and service companies with market orientation (e.g. garage, shop, tourism, and bank) were challenged by the economic growth; however, the findings indicated that the lack of resources did not hinder the increase of integration.

The case studies showed specific changes within individual companies. Two companies mentioned a direct influence of the feedback from the first interview round on their development; one of them was so disillusioned after feedback 1 that the owners employed a coach to assist in the development of internal communication and integration of staff.

Two constructing companies without a standardised system remained completely at their market's mercy. A tourism and a production company had procedures which were only moderately used, with little relation to their strategies. A construction company used its management system only for optimisation of its image.

The functionalist system approach does not fulfil the requirements of the comprehensive view of the SME model. The interpretative and postmodern thinking suits more. Companies which do not or only partly integrate the elements of the model trend toward functionalism (process and objective orientation). Using the 'system of system methodology' (Table 2.3), an integrated, comprehensive SME is in a complex pluralist system or in complex coercive if it is confronted with a competitive environment.

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The outstanding issue of this research is the comprehensive view of SMEs. It profits from the SME model basing on the interplay of SME, morality / sustainability, and management systems within their environment, and from the examination by a longitudinal survey with a detailed questionnaire and two rounds of interviews. Another important distinguishing topic is the integration of staffs of all hierarchical levels and different departments. However, the methodology of the longitudinal survey embodies the main weakness of this research; the willingness to participate was reduced because of the needs of time and effort of the companies. These issues are unique in comparison with other research.

#### 4.5.3 Review of the findings

The analysis of the results of the longitudinal survey of my research show that these results correspond with those of other researches. An outstanding difference of this research is its comprehensive approach based on the SME model demonstrating effects on sustainable performance, the longitudinal survey with two rounds of interviews, and the integration of people from all hierarchical levels and different departments into the survey.

The findings demonstrate that attitudes and behaviours of and with SMEs are directly related to the personalities of owner or top-managers and people, and with that to their moralities. On the other hand, SMEs are embedded in an ongoing, changing and challenging environment which forces them into permanent adaption. (Standardised) Management systems support the integration of morality / sustainability, leadership, people, and all sorts of stakeholders.

#### 4.6 Presentation in generalised table

I conclude this chapter with a list of characteristics (Table 4.6) as specific output of the analysis of literature review and findings.

Charac-	Large	Medium	Small com-	Micro
teristic	Companies	Companies	panies	companies
Ownership	Public limited – mainly quoted at the stock exchange	Public limited – some quoted	Limited or private (family)	Limited or private (family)
Finance management	Shares – exter- nal (mainly banks)	Shares – exter- nal (mainly banks) – pri- vate (owner) – often risky	Shares – exter- nal (mainly banks) – pri- vate (owner) – often risky	Shares – exter- nal (mainly banks) – pri- vate (owner) – often risky
Leadership	Board – em- ployed manag- ers – hierar- chical division (vision, strate- gy, operation)	Board –owner or employed manager – mainly profes- sional	Board – mainly owner – some employed managers – mainly opera- tional – intui- tive or struc- tured	Board – mainly owner – mainly operational – intuitive, sometimes structured
Patterns of self- organisation	Hierarchical – some autonomy of departments	Hierarchical – some autonomy of departments	Patriarchal and / or team orientation	Patriarchal and / or team orientation
Visions / strategies	Long-term – but: depending on quarterly statements	Mainly long- term	Mainly long- term, but often not formulated	Often long- term, but often not formulated
Culture, traditions	Defined – often superficial	Cooperative – common events	Cooperative – common events	Cooperative – common events
Market – customers	Mainly long- term - depart- mental and / or regional rela- tions	Mainly long- term – personal relations	Sometimes short-term (few influence) – personal rela- tions (also of staff)	Often short- term (few influence) – personal rela- tions (also of staff)
Suppliers	Supply chain - departmental	Mainly region- al – personal relations	Regional – personal rela- tions	Regional – personal rela- tions
Competitors	Mainly world wide – often intensive fight	Mainly region- al – differs by industry	Mainly region- al – differs by industry	Mainly region- al – differs by industry
Process management / production	Supply chain – departmental – continuously optimised	Continuously optimised – some flexibility	Continuously optimised – spontaneous, flexible	Continuously optimised – spontaneous, flexible
Use of resources	Multi-national – supply chain – departmental – continuously optimised	Continuously optimised – regarding local and internal elements	Continuously optimised – regarding local and internal elements	Continuously optimised – regarding local and internal elements

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Integration of people	Defined – part of resources	Defined – part of resources or partnership	Partnership with owner / manager – empowerment	Partnership with owner / manager – empowerment
Relation to local neigh- bours	Second-rate – not bound	Frank – often partnership	Frank – often partnership	Frank – often partnership
Relation to the public (including legislation)	Reputation – selective	Reputation - targeted use	Reputation - targeted use	Reputation - targeted use
Ethical / Moral atti- tudes	Different – often defined	Different – owner / manag- er orientated – some defined	Different – owner / manag- er orientated – some defined	Different – owner / manag- er orientated – some defined
Social re- sponsibility	Different – reputation	Different – owner / manag- er orientated – respect for staff	Different – owner / manag- er orientated – respect for staff	Different – owner / manag- er orientated – respect for staff
Environmen- tal responsi- bility	Different – reputation – depending on environmental risks	Different – reputation – depending on environmental risks	Different – depending on environmental risks	Different – depending on environmental risks
Knowledge management / innovation	Strategically defined – mainly quite intensive – technical knowledge in staffs	Often defined – often quite intensive – some technical staffs	Often not defined – often short-term – mixture of general and professional knowledge	Often not defined – often short-term – mixture of general and professional knowledge
Use of management systems / models	Mainly existing – different degree of implementation	Mainly existing – different degree of implementation	Often existing – different degree of implementation	Rarely existing – different degree of implementation

*Table 4.6: Characteristics of large, medium, small and micro companies* – *based on the research of the author* 

### 4.5 Conclusion

In chapter 4 I presented and analysed the findings of the longitudinal survey of this research – following the methodology of abduction (chapter 3) and discussing the inputs of literature review (chapter 2). The chapter followed the narration of the research which leaded to defining hypotheses and building of the SME model.

The chapter followed three stages: 1. Getting into the research and building the SME model, 2. Round of interviews and analysis of round 1 and 2, and 3. Comparison with results of other surveys and generalisation.

In Stage 1 I discussed the use of the questionnaire in pre-test und round 1 of interviews with analysis of its results as well as the experiences with the feedback to companies. These and literature review allowed designing the hypotheses and SME model by using 'soft systems methodology SSM'; an outcome of the model building is the corresponding measurement tool with the general matrix and the tables with specifications.

Stage 2 started with the review of interview methods and the experiences of round 2 and companies' feedbacks. An important part was the analysis and comparison of the results of both rounds – discussion of individual companies and aggregated data. It closed with the reflection concerning the experiences with use of the SME model and measurement tool with its differentiated tables.

The methodology of the longitudinal survey embodies the main weakness of this research; the willingness to participate was reduced because of the needs of the companies (the time and effort required – including interviewees of different hierarchical levels). An additional element was considered in the analysis: the period of round 1 (2003 to 2004) was characterised by a rather economic depression, and the period of round 2 (2005 to 2007) by an increasing boom; these issues influenced the interviewees (e.g. motivation, resources of time) and the companies (e.g. innovation, finance for investments).

Stage 3, finally, compared my findings with other research. As a summary of findings I formulated a generalised table comparing companies of different size according to different issues.

The large literature review illustrates that authors mainly concentrate on specific issues as SMEs, SMEs and morality, SMEs and standardised management systems; and analyses concentrate mainly on top managers. A comprehensive approach and model is missing. The SME model of my research fills the gap by explaining the influencing effects on and of SMEs and their performance – basing on the dynamic interplay of morality / sustainability and (standardised) management systems and their common environment.

The measuring tool of this research (see section 4.3.4, p. 223ff) allows a simple evaluation by using its basic matrix which can be deepened by the application of the differentiated tables containing all the elements of the SME model (SME, morality / sustainability, management system, environment).

I could fill the gaps of the research questions as far as the sometimes undersized data allowed. Only gaps concerning the reasons for the regionally different growing of standardised management systems and the number of certificates hold by SMEs remain; however, these data do not concern the subject of my thesis.

The design of the SME model and measurement tool has been successfully tested by analysing the findings of this research and comparing with other research. The outcomes of Chapter 4 provide to draw conclusions (see Chapter 5), to answer every research question, and examine the hypotheses.

5

## CONCLUSIONS

In this research I have investigated the specific position and relation of SMEs within society, the economy and the physical environment. By using a systemic approach I have focussed on different influencing elements on and within these companies – especially on the influence of (standardised) management systems on attitudes and behaviours of companies, management and staff. As a particular aspect, the importance of moral effects of these elements was examined. These reflections allowed – by using SSM of Checkland and Holwell (1998) – the design of an SME model for a better understanding of the SME world and a tool for measuring SME performance. I tested the model and the tool using a longitudinal survey with 27 companies located in Switzerland and Germany.

In this final chapter, I reflect on the research questions and hypotheses, examine the usability of the SME model and its measurement tool, detect gaps, and outline further possibilities for research and activities.

# 5.1 Reflection and review of the research questions and hypotheses

The reflection of the main findings as well as the literature review in chapter 2, the development of the SME model and the corresponding measuring tool and the analysis of the findings in chapter 4 allow examination of the research questions and hypotheses.

#### 5.1.1 Reflection on the research questions

## 5.1.1.1 What is typical for SMEs? Which are differences between SMEs and large companies?

The literature review enumerates characteristics of SMEs, often differing from large companies. SMEs are centred on the personality of the owner-manager or entrepreneur. Securing long-term survival or maintenance or cumulating of family assets is more important than increasing market value. SMEs are characterised by multi-tasking, often combined with strength of innovation and a greater flexibility which can be used for opportunity. Procedures are often marked by informality, and are usually less visible, less formal or articulated, and less bureaucratic at the core. Personal relationships are salient; communication and coordination depend mainly on personal and often amicable relations. There is often a lack of personnel, and financial and time resources.

SMEs are the backbone of the market economy and one of the principal driving forces of economic development; they generate employment and contribute to alleviation of poverty. SMEs are vehicles for knowledge spillovers, particularly in terms of competition for new ideas and human capital embodied in knowledge workers, and they contribute significantly to the regional and local development. Because SMEs are ongoing integrated into the global market, they are increasingly at the mercy of external pressures.

Through my research some gaps are filled by information concerning the organisation and ownership of SMEs, SMEs and culture, and use of processes, technology and knowledge management within SMEs. Taking account of external issues, this research provides some inputs concerning market fluctuations; during a depression companies were stressed by a lack of orders, during growth by a lack of resources. The manufacturing companies profited from the economic boom, and the geographical range depended on market demands. The survey showed a mix of organisational patterns embedded in a wide range of cultures and traditions; patterns often had an emphasis on team orientation, and the integration of people in leadership and decision making. Information patterns were dependant on culture, traditions, and pattern of organisation; communication was mainly concentrated on shop floor level or procedures. Between the two rounds of interviews changes in leadership occurred which were mainly related to the owner or top manager; four companies had new owners or top-managers who were intensively influencing the application of the management system.

Cash flows tended to increase between the two rounds. Most companies looked for a good balance between funds from company or family and from banks; financing as a company problem decreased.

There is a long range convergence comparing the internal issues with other research (see 4.5.1, p. 271f). Looking at the external issues, there are topics which have only been touched briefly by my research, because only one company had an intensive cross-border activity.

#### 5.1.1.2 Which are specific issues of morality for and within SMEs?

Literature shows that moral activities concentrate on employees and their families, local communities, business partners, and the physical environment. Because ownership, management and control are usually concentrated in the same hands, the personal preference of top management and owners is the most influential factor.

In contrast to other surveys, my research also includes employed managers and staff and offers some information concerning the use of ethical standards. The industries differed concerning the weighting given to issues of morality; service companies tended more weight to social issues and manufacturing companies more weight to environmental issues. A majority of companies had defined values, and about half had a tendency to integrate morality / sustainability into strategy. Small companies followed industry codes. Two thirds of companies with standardised systems regarded social elements as very important, and all companies with environmental systems considered social and environmental elements as decisive. However, moral attitudes and behaviours concentrated on internal issues, and only a third mentioned external activities.

The rating of 17 values was mainly related to tasks of interviewed persons (see 4.4.4, p. 249f). The companies were characterised by a mix of values guaranteeing private and company survival. The most impressive highlights were 'being an example', 'private relations', 'justice, solidarity' and 'openness, respect'. The minimal rate for 'maximise profit' was not surprising, reflecting the triple bottom line values.

There were minimal differences between behaviours of ownermanagers and employed managers; both influenced moral attitudes and behaviours. Managers and staff feel responsible for the improvement of quality, customer satisfaction and optimal internal situations; they differ within the weighting values (managers prefer to long term or company, and staff short or private effects of values).

#### 5.1.1.3 How are the guiding elements of and within SMEs characterised? Do they establish a company's management system – at least informally?

According to literature, the guiding of SMEs depends primarily on the morality, motivation, experiences, knowledge and resources of its owner (family) or top-manager. Especially in micro and small companies, planning, decision-making and corresponding activities depend on a few people meeting regularly. Documentation mainly concentrates on procedures and records. Visions and derived strategies are often not formalised and sometimes vague. SMEs having a standardised management system are forced to develop a policy and corresponding activities which may lead to formulated visions and strategies.

My research validates such views. The findings show that successful guiding of an SME is mainly related to people and not to management

systems, but the use of (standardised) management systems intensifies the effects of leadership being supported by defined procedures, clear responsibilities, objectives and measures which are regularly controlled.

There is an intensive convergence between this and other research concerning the position of the owners and top-managers within SMEs. The outstanding highlight of my case studies was also the concentration on owner or top-manager as this people influenced moral activities, tried 'to be an example', and were responsible for external relations. Between the two rounds of interviews changes in leadership occurred which were mainly related to the owner or top manager; four companies received new owners or top-managers influencing intensively the application of the management system.

On the other hand, the range of implementation of management systems depended intensively on the motivation of staff. The case studies showed minimal differences between behaviours of owner-managers and employed managers; both groups were very much motivated towards the survival of the companies. Managers and staff felt responsible for the improvement of quality, customer satisfaction, and optimal internal situations. Differences can be found within the weighting of values; managers tended towards long term or company interests while staff had shorter of private value associations.

# 5.1.1.4 Which are attributes of standardised management systems? Which are differences between the standards? Which of these systems are applied in SMEs, and with what success?

As literature shows, standardised management systems demand analysis of significant issues, a policy for their management (and corresponding planning, resources, activities and measuring), a documentation of requirements, procedures and records, and a regular review aimed at continuous improvement. The standards mainly concentrate on specific issues such as increasing moral attitudes and behaviours, optimising quality and customer relations, avoiding (or at least reducing) harm to life and physical environment, and improving sustainable performance. TQM and risk management models aim to integrate the different issues. The actual version of ISO 9001 (ISO 9001:2008) is nearer to TQM; especially as customer relations are intensified; the future version (edition planned for 2015) will additionally ask for an intensive reflection of the context of the organisation and by that for a risk management. It can be expected that relatively few SMEs use TQM standards like EFQM or MBNQA, although results of SME award winners demonstrate their successful implementation improving performance. In an increasing number of nation states companies are at least forced to introduce a (financial) risk management system (e.g. US SOX, German KonTraG); these activities are supported by financial trustees and the successful implementation of standardised management systems.

SMEs often use the implementation of standards as opportunity for organisational systemisation and improvement – mainly provoking improved productivity. However the implementation is often fragmentary, especially if it was forced by customers, regulatory authorities or hold-ing companies.

My research underlines these views. The implementation of a standardised system improves organisational systemisation and increases productivity. However, there is often no effective circularity between analysis, policy, planning, activities and measuring. On the other hand, the results from round 2 of interviews showed that the aim of continuous improvement may lead to increasing circularity, integration of different issues and optimised performance.

The implementation of the quality management standard ISO 9001 within SMEs was sometimes externally forced by customers, head offices and governments, and sometimes this implementation provoked increased bureaucracy.

SMEs often implement an environmental management standard if their impact on the physical environment is significant; companies with an environmental system had their people integrated, and customer orientation and effectiveness are their main issues. A majority had an intensive interplay of the elements of the SME model. Leading, technically-orientated production companies tended to use the standard ISO 14001.

Legal requirements in Switzerland and Germany force companies to avoid harm. Therefore all the SMEs made an effort integrating occupational health and safety; some followed an industry standard, others developed their own system. The opportunity for successful implementation increases, if reduced numbers of accidents are rewarded by insurers (e.g. in Switzerland).

There are minimal data concerning the use of moral standards by SMEs; however my research shows that SMEs quite often follow internal codes and industry requirements.

## 5.1.1.5 Which are the moral elements of standardised management systems? Which are used in SMEs, and to what success?

The reflections in chapter 2 showed that quality management is important for the survival of a company and the satisfaction of customers, but also to benefit people, communities, society and the physical environment – terms which nowadays are mentioned as elements of CSR.

TQM and CSR / business ethics share similar philosophical roots, and have a substantial overlap between elements of the two concepts. Both, TQM and CSR / business ethics ultimately result in the realisation of 'doing the right thing right'. CSR / business ethics can be advanced more rapidly, if it can be incorporated into existing standards and methodologies (particularly in relation to policy and strategy), rather than being viewed as a separate phenomenon.

There are parallels between the explicit CSR standards and commonly used management standards like ISO 9000 and ISO 14001. The eight quality management principles of ISO 9000 contain a number of moral elements; and the revision of 2009 intensified the ethic elements within ISO 9004 and combined them with sustainability. The environmental management systems according to ISO 14001 and EMAS specify their moral issues (physical environment and health and safety of people); they aim to reduce or, if technically and economically possible, to avoid pollution and any harm against interested parties or stakeholders in- and outside the company – in the short and long term.

All occupational health and safety standards demand explicitly to reduce or, if technically and economically possible, to avoid any harm against employees. Established models of business excellence incorporate a social responsibility element and advocate management practices compatible with the ideals of CSR / business ethics.

The controlling of management systems is an important issue to identify moral / sustainable effects; therefore the auditing itself has to follow moral attitudes. The lists of audit principles as well as personal attributes of auditors within ISO 19011 aim explicitly to guarantee morality in auditing activities; the other elements of the auditing standard support this objective at least implicitly.

The literature review illustrated that SMEs often implement standards as a motive for organisational systemisation and improvement – mainly provoking improved performance. However the implementation is often sophisticated; there is no effective circularity between analysis, policy, planning, activities and measuring. Regarding the poor implementation, it can be assumed that the influence of moral issues of the standards is not rigorous; except for users of health and safety and environmental standards. In numerous cases moral attitudes and behaviours of SMEs depend mainly on the individual backgrounds of management and staff and on the evolved company culture and values.

My research presents similar results. (Standardised) Management systems are used for structuring companies' processes and improving performance. Quite a lot of companies defined codes and strategies which include moral / sustainable issues or use industry codes including moral elements. Quality is regarded as a value guaranteeing customer and supplier relations and thereby as a basis for long term success; however, quality performance depends intensively on the attitudes and behaviour of people.

At least implicitly, all management systems contain moral / sustainable issues in their concepts (see 2.5.4, p. 124ff). This research shows that management systems challenged the user and triggered their attitudes towards a more morally reflected behaviour. Companies using environmental and safety systems are guided to behave morally because moral issues are part of the standards.

At the time of round 2, an increasing number of companies showed an intensifying trend towards circularity facilitating the integration of morality / sustainability into strategy and daily life.

About three quarters of the companies had a mission and related strategies More than half considered moral issues and quality leadership as part of their mission, followed by customer orientation and common survival.

Companies with standardised management systems had a value orientation, especially for optimal internal conditions. Half of the ISO 9001 companies showed an intensive interplay of the elements of the SME model and corresponding effects on performance as well as an integration of people, a third an intensive orientation towards physical environment. All companies using ISO 14001 had their people integrated, and customer orientation and effectiveness were their main issues. A majority had an intensive interplay of all elements.of the model.

# 5.1.1.6 What encourages the prosperous implementation of standardised management systems? What hinders it? Which are used in SMEs, with what success?

As literature shows, companies often have been forced by customers, industry or authorities to implement standardised management systems; the external pressure for the implementation of systems was especially intensive in production. The aim of these users was merely to follow requirements rather than utilise the standards as comprehensive tools providing performance. These and other influences as owner and leadership, company culture, industry, economic and political situation challenged the substantial importance of the standards.

SMEs use specific standards for quality, environmental and occupational health and safety improvement. They are often sceptical about the benefits, cost savings and customer rewards associated with standardised management systems (intensive need of resources like time, skills, finance and more paperwork – without improving productivity and motivation of employees). In relation to environmental systems, SMEs are largely ill-informed about managing and possible benefits and do not regard the environment as their core business; market incentives from either the public or private sector are insufficient to provoke implementation. However, many SMEs – especially from service industry – apply the standards successfully optimising internal issues as well as their external relations to customers and other stakeholders.

My survey shows scepticism of some companies against implementation of standards. People fear complicated procedures and bureaucracy; three certified companies did not renew their certificates because of the superficial implementation of the systems. One construction company had implemented its standardised management system at time of round 1; at round 2 it only was using the shop floor procedures, and all issues of circularity and people integration disappeared. Others having nearly no structures at the time of round 1 were defining processes and partly following industry standards (e.g. of car or electronic manufacturers). Companies, which successfully implemented the standards, used them as a tool for continuous improvement, integration, ongoing circularity and optimising performance; and staff's acceptance and handling of the systems increased between the two rounds. 5.1.1.7 How far do SMEs combine implementation and continuous improvement of standardised management systems with morality / sustainability? What encourages and what hinders it?

According to literature, environmental and OHS management standards explicitly include moral issues by principle to avoid or minimise harm; quality management standards at least implicitly support moral attitudes and behaviours. However, there are minimal findings concerning the interplay of standardised management systems and morality within the large literature review. Except for the large literature concerning the use of environment management standards, the number of research findings is too limited to answer the question concerning the improvement of morality.

The use of environmental management standards provokes positive outcomes in terms of improved environmental performance, assured legal compliance and energy and material efficiencies. Staff's training improves awareness of environmental issues and morality, increases responsibility and accountability. Sørensen's (2007) showed that private-owned SMEs have fewer resources for OHS work and with that a higher risk of severe and fatal accidents. One of the SMEs analysed by Enderle (2004) uses a quality management standard which has had positive effects on moral attitudes and behaviour.

The survey of my research aimed to enlarge the basis of information. Already at the time of round 1 some companies had mission statements as part of their standardised management systems which included moral issues (e.g. concerning staff and their families, local community, physical environment). This trend was intensified during round 2, and was accompanied by an increasing integration of people; this may be partly related to the reflecting on the feedbacks after round 1. However, one production company in particular had an impressive mission statement; it was designed by a highly motivated moral owner during round 1 (including processes for TQM and BSC), although he was not able to convince his managers and staff to implement and use the mission statement

successfully. Consequently, the survey showed that the integration of morality into management systems is intensively dependent on the personal involvement and deployment of managers and staff.

5.1.1.8 What is the relation of SMEs to their environment? How do SMEs, morality/ sustainability and (standardised) management systems act in their common environment?

According to the reflection in chapter 2, owners, managers and employees are within the 'company' and – having system spanning character – at the same time elements of its environment. The effects of this condition are especially vital for SMEs and at least partly explain the often obvious social responsibility of SME owners and top-managers who can be influenced by local and regional moral traditions.

As well as people, morality / sustainability and (standardised) management systems have a system spanning character (see Venn diagram, Figure 4.5). The morality / sustainability of an SME is deeply influenced by the owners and managers; they all have experiences which form their morality and they bring this into the company. Management systems are formed within the company; this forming is influenced by external ideas and experiences, especially if a SME applies the requirements of an international standard.

SMEs are a fundamental pillar of a state by their direct impact through job creation, education and reducing poverty as well as an indirect impact through taxation of their profits and wages, etc. Thus, they have an intensive share in social welfare. However, the influences of government and authorities are increasing, and the control of economic areas by legislation is escalating and quite often changing – in opposition to the world-wide demand to promote SMEs.

The developing market challenges SMEs to enlarge their activities regionally, nationally and even globally; this development is related to the industries the SMEs are belonging to. Because SMEs are ongoing integrated into the global market, they are increasingly at the mercy of external pressures.

Expanding geographical radius demands additional methodologies guaranteeing product and service quality as an alternative to personal relations to local customers and suppliers. International regulations concerning product and services requirements as well as their production management and processes increasingly have filled this gap.

While little is known about the actual total impact of SMEs on the physical environment, even less is known about the burdens of individual SMEs. However, if a SME is forced to change by legislation or is confronted with severe environmental aspects, it implements correspondingly activities. Environment friendly efforts of companies are supported by international institutions and national legislation.

In my research, there was a high sensibility towards the challenges of the enviroment. People mentioned a large diversity of problems and fears concerning society, politics, economy and physical environment; a great number also spoke about their related activities. The companies' moral responsibility towards society, however, was relatively small (offering jobs, events for the community, some activities in associations and politics, few sponsoring), and towards the physical enviroment a matter of course. In round 1 the use of standards was often a requirement of customers or a market instrument, while in round 2 the effects of the standards were internal or customer orientated; companies applying ISO 14001 had a high sensitisation towards the physical environment.

My survey is characterised by a high number of companies being in leading market position; other research contain minimal information concerning market position. More than half of the companies were innovative in products and processes; innovations were part of strategy and objectives; a few companies were merely reacting to market changes. All companies have been market orientated. The majority were regionally active; the geographical radius was enlarged because of the market pressure. About two thirds planed their customer relations. Most companies lived a partnership with their suppliers. The relations to competitors became less stressed between the two rounds because of the economic boom.

All companies analysed fellt responsible towards physical environment and fulfilled at least the legal requirements; environmental questions have been discussed as a matter of course. Nearly half integrated environmental activities into strategy.

5.1.1.9 Which model describes the relations and the dynamic interplay of SMEs, morality / sustainability, (standardised) management systems and is able to explain comprehensively the complex attitudes and behaviours of SMEs? Which issue influences another issue and why? How can these influences be measured?

SMEs are relatively multifaceted systems consisting of managers and staff using information, equipment and materials to produce services and products. They are embedded in a complex environment, composed of economic issues, society, and physical environment. SMEs are influenced by these environmental issues; and they can only organise themselves, develop and survive by optimally dealing with their environment, thereby discovering and using its 'spaces of freedom' or influence capabilities.

The literature review revealed little research examining the complexity and interplay of different influences. Therefore it made sense to design a comprehensive SME model describing influences of morality and management system and common environment on sustainable performance of SMEs.

I developed a SME model applying these influences and designed a corresponding measurement tool; both were tested using data from the 27 companies.

I designed the model by applying the 'Soft Systems Methodology SMM' of Checkland and Holwell (1998); in a second step I adjusted the

model by using parts of 'Critical System Heuristics CSH' of Ulrich, W. and Reynolds (2010). The model is characterised by the dynamic influences interplay of morality, (standardised) management system and common environment on the sustainable performance of SMEs (see Figure 4.4). A Venn diagram (see Figure 4.5) underlines the system spanning character of the elements.

Contemporary system thinking (Jackson 2000) seems best suited to reflect the interplay considering issues of CSR (business ethics, morality / sustainability) and TQM (management system), because this interplay calls for an optimal mix of foundation, openness, responsibility, and effectiveness.

Simply said, important issues of the SME model which integrate CSR / business ethics and TQM are:

- Attitudes and behaviours of owners, top-managers, and employees – based on an ongoing interplay of their moralities with a view to common values;
- Mission, strategies, traditions based on common values and on consideration of internal and external stakeholders, embedded in company culture;
- Management systems tools supporting long-term survival and containing moral issues;
- 4. Intensive relations to the different elements of the environment and openness for change.

The measuring tool consists of a basic matrix and the specifications using differentiated tables. The basic matrix describes different states of SMEs; the two parameters 'Fit with Effectiveness' and 'Fit with Strategy' present the main issues of the elements of the SME model to be examined and illustrate possible degrees of performance of overlapping and dynamic interplay. For every quadrant, measurable specifications in large tables have been designed – No concepts / Be at markets mercy; Shop floor / Process optimisation; External pressure / Image; Embedded circularity / Integration. The application of the differentiated tables provides a comprehensive measuring of an SME by considering a large palette of variables.

Outstanding topic from this research is the comprehensive view of SMEs. It benefits from the SME model based on the dynamic interplay and the combined effects on performance of morality / sustainability and management systems and the environment as well as the examination using a longitudinal survey with a detailed questionnaire and two rounds of interviews. Another important distinguishing feature is the integration of staff across all hierarchical levels and different departments.

The findings of my survey show that there was an increasing tendency for integration; however, the management systems concentrated on shop floor and process level. Only a third had planned and integrated circular systems aimed at comprehensiveness and sustainability.

The results demonstrate that attitudes and behaviours of and with SMEs are strongly related to the personalities of owners / top managers and people, and hence their moralities. On the other hand SMEs are embedded in a continually changing environment which forces permanent adaptation. (Standardised) management systems support the integration of morality / sustainability, leadership, people and various stake-holders; management systems demonstrate generally more influence towards effectiveness and sustainable performance as well as embedded circularity and integration.

The application of a functional system approach is difficult to imagine within a dynamic interplay of the elements and their effects; interpretative or postmodern approaches are more appropriate. However, standardised management systems are objective and control orientated; they demand at least a certain degree of functionalism within companies with an profound integration of morality / sustainability and an openness to the challenges of a changing environment. That is why the contemporary system thinking according to Jackson (2000) is suited to answer "to the complexity and heterogeneity of the problem situation addressed" (p. 393) which is characteristic of the dynamic interplay and its sustainable effects according to the SME model. Contemporary system thinking uses the uniqueness of functionalist, interpretive, emancipatory and postmodern theoretical rationales, and draws upon them to improve real-world situations.

The nine research questions have been satisfyingly answered; and nearly all gaps from literature review have been filled. The assessment of the questions allows examination of the research hypotheses.

#### 5.1.2 Reflections of research hypotheses

5.1.2.1 The implementation and use of a standardised management system is influenced by its original intention (e.g. ISO 9000: [shop floor] processes to guarantee product quality; ISO 14001: system to avoid harm and to guarantee sustainability). Therefore it may hinder a comprehensive implementation of the system.

The literature review demonstrates intensively that many SMEs using the quality management series ISO 9000 still act according to the spirit of the version of 1994; their activities concentrate on optimising shop floor procedures, and the commitment of top management often focuses on daily activities having minimal resources for long-term planning. Frequently, companies apply the two cybernetic circles of the version 2000 sophisticated or even not; however, the use of the revised version of 2000 enlarged the view of a number of companies towards TQM. Many SMEs using ISO 14001 see improving the working conditions within the firm as the most important reason for investing in environmental issues, followed by the reasons of satisfying legislation, serving moral duty and serving order and cleanliness. However, many companies do not even have a strategic policy or concept.

The findings of my research also show that companies primarily concentrate on the optimisation of shop floor effects and the interrelated processes and procedures. However, surely half of all certified companies were on the way to a comprehensive and circular use of their systems with integrated controlling allowing an ongoing optimisation.

Hypothesis 1 is not verified by this research. This may relate to the specific mixture of the sample (companies being ready for two rounds of interviews with number of interviewees) and the later date of interviews in comparison with other research.

5.1.2.2 The more SMEs implement and use the dynamic interplay of management systems and moral elements in relation to their environment the more intensive are the effects – especially in the field of integrating missions, strategies, leadership and processes – as a basis for a long term survival.

The reflections concerning the design of the SME model of this research depend on the dynamic interplay of the elements providing sustainable performance, attitudes and behaviours of owners, top-managers, employees, mission, strategies, and traditions. People within a SME develop and share the same values embedded in and supported by a living culture. These values are commonly translated into a corresponding vision and related strategies. The use of appropriate managed systems containing iterative methodologies for controlling and continuous improving supports a sustainable translation into action (moral behaviours in business and towards stakeholders) and as a consequence provides performance.

TQM is a comprehensive model to integrate the elements. TQM shares with CSR / business ethics similar philosophical roots. There is a substantial overlap between the elements of the two concepts and the ultimate expected outcome shows significant similarities. Ideally the guiding elements are covering one another, and the grouping of CSR / business ethics and TQM allows the conclusion that the total correspondence of the elements promises (by a dynamic and circular integration) a maximum of effectiveness, efficiency and sustainability of a company.

Publications of different SME case studies and the case studies of my sample illustrate that the ideal correspondence of the elements is rarely attained in reality; on the other hand, a remarkable number of companies within my survey had partly realised an overlapping and interplay (see Figure 4.8).

To examine hypothesis 2, I calculated all relevant variables of the survey concerning the correlations between management systems as well as moral elements and mission, strategies and leadership. There are no significant correlations for explicit moral values. However, I found significant positive correlations for values containing moral issues:

- 1. Company systems and strategies correlate significantly positive to 'optimal internal conditions' and 'flexible, independent';
- Culture, ISO 9001 and strategies to 'job security' and 'customer satisfaction';
- 3. Integrative culture, integrative systems and strategy to 'optimal internal conditions'.

Additionally, many findings of this research support the hypothesis. The two rounds of interviews show that half of the companies successfully used their management systems (according to standards or in-house developed) and were on the way to continuous improvement by becoming more efficient, as well as more effective, by integrating missions, strategies, leadership and processes; the results show that at least some companies established a basis for long term sustainable performance by this behaviour. However, there were other companies experiencing reduced success because of concentrating on shop floor improvements or by being at the market's mercy.

The optimising effects of moral attitudes and behaviours are also affirmed. In some companies (especially in SMEs with environmental management systems) morality / sustainability became increasingly part of missions and strategies, and activities were submitted (as well as other managerial issues) to ongoing control aiming for continuous improvement. However, personal moral attitudes and behaviour of management and staff were the decisive factors for developing moral activities and the integration of moral issues into missions and strategies.

These reflections allow the conclusion that hypothesis 2 is verified.

5.1.2.3 The more SMEs implement and use management systems in relation to their environment the more intensive they integrate vision, strategies, leadership and processes as well as morality and alter to companies with a long term survival. However, the main drivers of moral elements are the original attitudes and behaviours of the principal and collaborators.

As already explained in the comment to hypothesis 2, an intensive overlapping of the elements 'people and their moralities', 'mission, strategies and traditions – embedded in company culture' and 'management systems' supports their dynamic interplay towards their long-term sustainable performance in a changing environment. Literature review demonstrates that even if there is certain overlapping, moral attitude and behaviours of SMEs are mainly influenced by the individual milieu of top-managers and employees.

For my research, the same arguments can be formulated as in hypothesis 1 and 2. In some companies (especially in SMEs with environmental management systems) morality / sustainability became increasingly part of missions and strategies, and activities were submitted with all other managerial issues to an ongoing controlling aiming continuous improvement. Certainly half of all certified companies were on the way to a comprehensive and circular use of their systems with integrated controlling allowing for an ongoing optimisation. However, personal moral attitudes and behaviour of management and staff were the decisive factors for moral activities and the integration of moral issues into missions and strategies.

These reflections allow the conclusion that hypothesis 3 is also valid.

#### **5.2 Conclusions and contribution**

The combination of the examination of the main findings of literature and my research allowed examining research questions and hypotheses. In this section I discuss the contribution of the SME model and the measurement tool to academia, practitioners and public.

By that I revert to the reflections in chapters 3 and 4 designing the SME model. I regarded the 'Soft Systems Methodology SSM' of Checkland and Holwell (1998) as the most suited for the design of the conceptual SME model (see Figure 4.4). The model can be used by academia, consultants / trainers / coaches, and appropriate persons in an SME or even in public discussion. I fill a substantial gap in existing research by reflecting and integrating different issues influencing the sustainable performance of SMEs.

The inputs of the model (Figure 4.4) are the three elements management system, morality and the environment. They relate to the sustainable performance of the SME. The output is the optimised sustainable performance of the SME basing on the ongoing interplay of optimised knowledge, service and product, and stakeholder satisfaction.

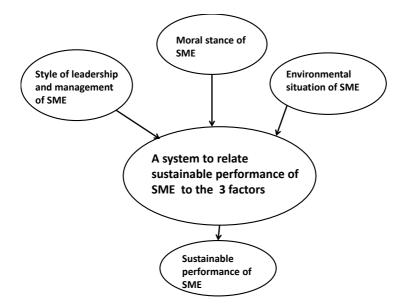


Figure 4.10: Conceptual SME model 2 of this research.

A test of the model has been carried out by the practical use with the results of my survey (see 4.4.9, p. 267ff). The model illustrates specifications of the elements, their interplay and reciprocal influencing of effects as well as the ability to show changes in performance; the issue of time opens the view for possible challenges in improvements of companies, morality / sustainability and management systems within their common environment.

The general matrix of the measurement tool allows companies a portrait of their actual situation and supports areas of improvement. I have verified this during my feedback with companies and as a consultant with different SMEs.

The relevance of th SME model and the measurement tool is especially highlighed by my research. The weight of a survey depends intensively on the validation of its data. In comparison with other research the number of analysed companies (27) in my survey was high; and the integration of people of all hierarchical levels provided a somewhat presentative sample of interviewees (212). There was also a relatively equal distribution of sizes and industries as well as companies applying and not applying standards.

The elements of the SME model are important for companies' performance (SME, management system, morality / sustainability and environment). The examination of all variables with significant correlations confirmed this statement by showing four clusters of variables: company (company, company problems, strategy, and culture), communication (communication and information), morality (morality, social responsibility, specific values, and private problems) and management (management systems, quality, and environment). The review of the main highlights of the case studies showed a comparable pattern; company (forms of leadership, management of resources), morality (relations to customers and physical environment) were prominent. Outstanding were the concentration on top-manger and a strong tendency for integration of people combined with a family culture.

All elements of the SME model have been influenced by changes. The positive evaluation of the future of the companies improved between the two rounds. The integration and co-responsibility of people increased or was optimised in half of the companies. Leadership showed two patterns: a quarter of the companies tended to more patriarchal or hierarchical behaviour and stringent procedures or centralisation, while nearly a third changed from patronal attitudes to partnership. Minorities were hindered in their development by time pressures, and reacted by becoming more sensitive towards physical environment and expanding and making acquisitions.

Especially productive SMEs and service companies working under competing market conditions were challenged by periods of economic depression and growth. Both times were stressing; during economic depression managers were looking for new orders and staff were afraid for their personal future; during periods of growth managers were forced to get enough resources (workforce, finance, material). The four servicecare companies were less influenced by time; however, reduced financial resources forced them to optimise their procedures and lead them towards functionalist systems with objectives and controls.

Nearly half of the companies showed an intensive interplay of SME, management systems, morality / sustainability, and environment; the majority of these were production companies. A third of all had interplay, but no systematic integration or formalised system. Nearly a quarter were characterised by intensive motivation and integration of employees; the majority of these were German companies. Nearly a quarter of the companies intensified their mission towards the physical environment. On the other hand, nearly a quarter of the all companies made fragmentary use of their management system, had problems with leadership and integration of staff, and suffered from increased pressure from competition.

#### 5.2.1 Academia

The large literature review illustrated that authors mainly concentrate on specific issues, and that a comprehensive approach and model are missing. The SME model of my research fills this gap. Reflection on the research questions and the hypotheses intensified the idea that a comprehensive model was needed to explain the complexity of SMEs. As mentioned in the finding back to the real world (iii – 5.) of the SSM (4.3.1, p. 210ff), the model allows a transsubject research and allows answers on comprehensive real world problems of SMEs. These can be analysed by a research containing the issues of the model.

In my thesis I successfully tested the transsubject character of the SME model through the use of the measurement tool. The specifications allowed positioning the companies within the basic matrix. To use and test the measurement tool, I validated the comprehensive real world

problems of every company with the evaluation table (see Table 3.5) following the specifications (see Tables 4.1, 4.2, 4.3). In a second step the results were positioned in the basic matrix.

I had the chance to publish an article presenting my research with the SME measuring tool and findings in the volume of Spence and Painter-Morland (2010) concerning a global view of SMEs and ethics.

Within the framework of the SME activities of Globethics.net (see 5.2, p. 305ff) I presented the main results of my research during the dnwe (German Network of Business Ethics) annual conferences of 2012 in Heilbronn and of 2013 in Berlin. For the annual conference of EBEN (European Business Ethics Network) of June 2014 I prepared together with a senior lecturer of the Catholic University of Eastern Africa (Nairobi, Kenya) a common paper concerning the situation of SMEs in the Europe and Africa; this collaboration was initiated during the three-days training concerning SMEs and sustainability I offered at this University in December 2013.

Since January 2014 I have been in contact with Euresearch, the Swiss organisation providing Horizion 2020, to develop a project (if possible in partnership with universities) supporting managerial sustainability orientated innovations in SMEs – hereby especially concentrating on experiences with practical implementation of systems by applying action research (Euresearch 2014).

End of April 2014 I had the chance to follow a seminar at the Middlesex University in London concerning 'Comparative Perspectives on CSR Among SMEs'. It was the second in series of seminars organised by 'Small Business Social Responsibility (SBSR)', generously funded by UK's Economic and Social Research Council (ESRC). The seminars cover a range of relevant topics, including SMEs within supply chains, social entrepreneurship and finance. Based on the seminar series, a Research Handbook on Small Business Social Responsibility will be published by Edward Elgar in 2015<sup>52</sup>. I decided to follow the seminars and to bring in the results of my planned research with Horizon 2020.

#### 5.2.2 Practitioners

As mentioned in the finding back to the real world (iii - 6. and 7.) of the SSM (4.3.1, p. 210f), the application of the model permits to recognise the functioning of an individual company; and real world problems can be solved appropriate to the specific situation of the company and by that the performance of the SME can be improved. Alike the measuring tool supports the outcomes of the SME model and helps the user to define and implement issues of improvement.

The findings of this research showed that issues of the SME model cover the complexity of companies. The measuring tool allows a simple evaluation through the use of its basic matrix which can be supported by the application of the differentiated tables containing the complexity of SMEs. The results become more significant if not only managers, but also staffs, are integrated in the investigation.

In my research, I applied the basic matrix within feedback meetings with company managements. Actually, I use the matrix in my consulting with SMEs, discussing possibilities for continuous improvement; additionally I offer together with an economist series of workshops for SME managers aiming the long-term successful implementation of comprehensive, integrated and sustainable management systems. Within the framework of the SME activities of Globethics.net (see 5.2.3); the matrix became part of number of tools supporting the training and coaching of SMEs.

<sup>&</sup>lt;sup>52</sup> Details see http://www.sbsr-global.net

#### 5.2.3 Public

The public discussion of the SME model helps to get a common insight into the complexity of SMEs – not only concentrating on economic and legal issues of SMEs, but also on their issues related to society and physical environment as well as their guiding issues as morality / sustainability and management systems. The comprehensive approach of the SME model directs one from the use of a constricted functionalist system approach to an outsized application of a contemporary system thinking seen as a meta-methodology understanding, respecting and using the uniqueness of functionalist, interpretive, emancipatory and postmodern theoretical rationales, and drawing upon them to improve real-world situations (Jackson 2000).

A practical public profit of the SME model is an expanded application of the basic matrix; a simple electronic questionnaire on a public platform allows benchmarking the situations and performance of SMEs. Since March 2014 I have started implementing the project with partners.

The Global Ethics Forum GEF of 2011 in Geneva listed a number of recommendations concerning SMEs and Ethics to be discussed in future meetings (Global Ethic Forum 2011). For the next Forum, end of June 2012, I got the chance to prepare an interview round with managers of SMEs discussing these questions:

- 1. Which are the impacts of your company on society and environment (positive & negative)?
- 2. How can you influence and manage these impacts?
- 3. Which are your experiences with ethical behaviours internally in your company and externally as part of your relationships and interaction with other stakeholders?
- 4. Tell us specific cases when you have made challenging ethical business decisions and how did they influence the business outcomes?

- 5. What are the basic core ethical principles that you apply in your decision making concerning management, operations and governance of your company as well as relationships with your stakeholders?
- 6. Which are the backgrounds of your ethical attitudes? How did you come up with the formulation of the above ethical principles?
- 7. What provides and what hinders ethical attitudes and behaviours?
- 8. Which are limits of your ethical behaviours?
- 9. Which are your plans for future? How do you plan to further apply business ethics as part of the development of your company?
- 10. Which recommendations should be given to the Global Ethics Forum – how better to respond to company's needs concerning business ethics and CSR, what questions should be discussed further, and what topics should be addressed in next GEF?

The interview round gained an immense echo: A new GEF workgroup on SMEs and CSR was established as an outcome of the GEF 2012 case session (Global Ethics Forum 2012).

The work group started its activities just after the GEF within a core group which I had the chance to moderate. Until end of 2012 a great number of materials were collected (training models, case studies, and papers) – in intensive collaboration with about 60 interested members. In early 2013 the core group decided to concentrate on trainings concerning 'SMEs, Ethics and Sustainability'. Besides the definition of several versions of a Training Concept possible contents have been discussed and defined. The discussions of GEF 2013 in June showed that activities may focus in a first phase on trainings of SME owners and leaders as well as on young entrepreneurs. That is why I had the chance performing two pilot trainings in autumn 2013 (Switzerland and Kenya); a third pilot was operated by other members of the core group in early 2014 in India (in connection with the GEF 2014 of January in Bangalore). Since then the core group has been preparing the further activities of the project – becoming part of the Globethics Leadership Centre being launched in autumn 2014.

#### **5.3 Future possibilities for research**

The discussing of main findings, research questions and hypotheses as well as the applicability of the SME model and the measurement tool asks for describing gaps within my research.

Literature review (chapter 2) showed these gaps in research:

Examining internal issues of SMEs, I found minimal data concerning organisation and ownership, SMEs and culture, and implementation of processes, technology and knowledge management; yet to be discussed are the weighting of the influences of owner-managers and the differences between that of owner-managers and employed managers, as well as the effects of the replacement of managers. Focussed on external issues, I did not notice or examine any research concerning market fluctuations on SMEs.

Another gap was the minimal knowledge about the conscious use of ethical standards within SMEs. Additional knowledge is needed concerning the influence of (standardised) management systems on the definition of policy and corresponding activities.

There are number of gaps in research concerning company designed management systems, number of certified SMEs, reasons for the implementation of standardised management systems in specific regions, problems with third party auditing, and internal effects of standardised management systems.

In my extensive research I have not been able to find any research concerning the influence of management systems on morality / sustainability of SMEs, behaviours of auditors, or the influence of virtues on management systems. And additional research may deepen the knowledge concerning the implementation of standardised management systems. There are also minimal findings concerning the interplay of SMEs, standardised management systems and morality / sustainability within their common environment. And finally, the literature does analyse the influence of individual elements, but presents no comprehensive description or model of their interplay and there is no measurement tool concerned with this.

I could fill – at least partly – nearly all of the gaps detected in the literature (see answering research questions 5.1.1, p. 286ff) – except some questions concerning the certification of standards.

The outstanding issue of this research is the comprehensive view of SMEs. It profits from the SME model based on the influences of morality, and management systems and environment on SMEs and their sustainable performance, and the examination through the use of a longitudinal survey with a detailed questionnaire and two rounds of interviews. Another important distinguishing topic was the integration of staff across all hierarchical levels and different departments. However, the methodology of the longitudinal survey embodies the main weakness of this research; the willingness to participate was reduced because of the needs of time and effort of the companies, which possibly provoked one-sidedness and thereby constrained validity of findings.

There is minimal research beside this concerning different issues of SMEs, morality / sustainability and management systems as well as their dynamic interplay in a common environment, but quite lot discussing SMEs, morality and standardised management systems.

Therefore the unique methodologies and experiences of this research as well as its SME model and measurement tool should be used for further research. Into the a longitudinal research concerning the implementation of integrated, comprehensive and sustainable management systems, a greater number of SMEs from different countries need to be included as well as large companies (as control sample). This will allow more valid conclusions – especially if people of different hierarchical levels and departments are taken in account.

For a further research and practical use of the specifications, the questionnaire has to be reviewed and directly related to the tables. On the other hand, the use of the evaluation table and the specifications is time-consuming, especially if a larger community of people is involved; however, the results become significant and allow more quantitative conclusions. For future successful use, the specifications have to be aggregated with a simpler questionnaire.

An expanded application of the basic matrix provides the use of the SME model; a simple electronic questionnaire on an internet platform allows describing the situations and performance of SMEs as well as a benchmarking. Actually I am starting the project with partners.

Other focus of research could be the analysis of reports of certification audits using the basic matrix getting information concerning the comprehensiveness of the application of standardised management systems; a possible problem would be the accessibility of data (data protection).

#### **5.4 Conclusions**

As pointed out in the introductory chapter of this research, most economies are characterised by a large number of SMEs that represent over 98% of companies, employ about two thirds of the workforce, and generate a large share of new jobs. Given the current global economic position, the roles of SMEs are increasingly important and hopefully. My research may contribute to the understanding of the way they operate and thereby, in a small way, to their continued success.

I discussed the specific positions and relations of SMEs within the overall context of business, economy, society and physical environment. By applying system thinking approaches, I concentrated on the triggering elements of and within these companies, especially on the influence of their morality / sustainability, management systems and environment. Parallel to the accumulation of knowledge my inherent understanding has been continually improved with the aim of designing a model which allows describing the theoretical background of the dynamic interplay of SMEs, morality / sustainability and (standardised) management models within their environments. The aim was to design a comprehensive, SME-orientated model by specifying every subsystem. The discussion of these influencing elements demonstrated that a comprehensive SME model and a corresponding measurement tool are needed to detect issues for effective continuous improvement and sustainable performance of SMEs.

The model – designed by applying SSM of Checkland and Holwell (1998) – demonstrates the influences of the dynamic interplay of moral, management system and environmental issues on the sustainable performance of SMEs. The specific measurement tool checks the model and measures the effective performance a company. I examined both within the results of a longitudinal survey with 27 companies and over two hundred interviewees from two countries.

The model and the measurement tool can be applied as a comprehensive analysis system for companies thereby serving as a basis for widespread continuous improvement of performance containing vision, strategies, and activities as well as financial control – built on sustainable philosophies: CSR / business ethics and TQM and applying approaches of system thinking.

The literature review and the longitudinal survey illustrate that the effects of the standardised management systems often concentrate on optimisation of (shop floor) processes. Additionally my survey shows that quite a lot of companies are on the way to a circular integration of people and processes. This impact is in many cases not linked to the system used, but based on moral attitudes and behaviour of owners or top-managers and employees.

Exceptions are SMEs using an environmental management system; they tend to be more effective than companies without the environmental standard, and are also characterised by more embedded circularity, integration and a successful dynamic interplay of the elements morality / sustainability, standardised management system and environment. This may be related to the moral issues and the basic spiral circular conception within the environmental management standard ISO 14001.

On reflection I believe that the process of my research and the findings could have been improved, if I had designed a clear concept of the research procedure at an early stage – consequently using more effectively the approach of system thinking. An early building of an SME model describing possible influences on the performance of SMEs would have been the basis of a measurement tool; and I could have derived a questionnaire using the specifications of model and tool. The combination of these issues would have been a tool for an easier process of finding participating companies. Finally, this approach would have helped to a more effective finalising of the research project.

By applying system thinking approaches in the design of the model and the measurement tool, I believe that I have filled the gap of a so-far missing transsubject research concerning SMEs, morality / sustainability, and (standardised) management systems within their changing environment.

### 6

### ANNEXES

#### 6.1 Ethical standards – short descriptions

The <u>UN Global Compact</u> (2008) is a multi-stakeholder voluntary initiative that UN Secretary-General Kofi Annan spearheaded in 1999. The GC principles are based on the Universal Declaration of Human Rights, the ILO Declaration on Fundamental Principles and Rights at Work, the Rio Principles of Environment and Development, and the UN Convention Against Corruption.

In 2003, the <u>UN Norms</u> (United Nations Norms on the Responsibilities of Transnational Corporations and Other Business Enterprises with Regard to Human Rights) were put together by an expert body of the UN Sub-Commission on the Promotion and Protection of Human Rights and set out in a single, succinct statement, and were a coherent and comprehensive list of the human rights obligations of companies (UN 2004). They do not create new legal obligations, but simply explain how existing obligations under international law are relevant to companies and their global operations.

The <u>ILO Declaration on Fundamental Principles and Rights at</u> <u>Work</u> (IOE 2006) establishes four 'core' labour standards – freedom of association and the effective recognition of the right to collective bargaining, the elimination of forced or compulsory labour, the abolition of child labour, and the elimination of discrimination in respect of employment and occupation.

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The key component of the <u>OECD Norms</u> (edited by the OECD DAC Network on Development Evaluation, OECD 2010) is to develop internationally agreed norms and standards to strengthen evaluation policy and practice. Shared standards contribute to harmonised approaches in line with the commitments of the Paris Declaration on Aid Effectiveness. The body of norms and standards is based on experience, and evolves over time to fit the changing aid environment. The principles serve as an international reference point, guiding efforts to improve development results through high quality evaluation.

The <u>Global Reporting Initiative GRI</u> (Global Reporting Initiative 2004) is a multi-stakeholder process and institution that has set out to develop and promote a globally applicable framework for reporting on sustainability issues (aspects of an organization's economic, environmental and social performance). In 2004 a specific guide was developed for SMEs.

The <u>AccountAbility AA 1000 Assurance Standard</u> (AccountAbility 2003) addresses all assurance aspects of an organization's disclosure and performance. It integrates stakeholder engagement into a cycle of planning, auditing, accounting, reporting and assurance.

The <u>Sarbanes-Oxley (SOX)</u>, Act of 2002 (H.R. 3763 2002), is the U.S. government's response to the financial scandals at Enron, WorldCom, Tyco and other large companies under the purview of the Securities and Exchange Commission (SEC).

#### 6.2 Case Studies

The case studies follow the structure designed in 3 Methodologies (Table 3.5).

Size: The numbers in brackets show number of employees at round 1 and round 2 (e.g. small (45) / medium (55); if only one number is mentioned, the size has not changed.

The evaluation of 'Morality: Specifications' basis on the list 'B – Rating of values' of the questionnaire (see 6.4, p. 473). The interviewed persons had 25 points to rate 17 values from 0 to 5. Only values with an arithmetic mean of 1.8 and higher are mentioned.

#### Abbreviations:

- Market Position (MP)
- Management (Mgmt.)
- Values: ideal boss (B), employee (E)
- Finance: Turnover (T), cash flow (CF), profit (P)
- Resources: people (P), finance (F), time (T)
- Economy: Innovation (I), agility (A), Public Relations (PR)
- Economy: Market position (MP), geographical range (GR)

#### Case 1

Country: Switzerland Size: small (45) → medium (55) No. of interviewed: 9/9 Industry: Production: building construction/plaster/rebuilding Foundation/history: Founded in 1932 by an Italian ancestor of the wife of owner – 1995 part of a holding – 2002 takeover by the actual owner – fractional takeover of previous 2 competitors

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – 100 % actual owner	Ltd – 100 % actual owner	None	
Leadership, decisions making	Some partner- ship Owner – partly in contact with managers	Some partner- ship Owner – increasing integration of managers	Increasing integration of managers	Owner is estimated – some managers not
People	Mainly spe- cialists – new staff from competitor	Increasing number of young special- ists	Good image intensifies attractiveness	Good image
Patterns of organisation	Divisions – diversification Central admin- istration and logistics – Function orientated	Division – specialised staff Central admin- istration and logistics – Function orientated	Growth asks for specialised staff	Final coor- dination own- er-centred
Culture/ traditions	CI – events – personal relations – regular info- meetings	CI – events – personal relations – regular info- meetings	CI, personal relations and integration of supervisors intensified	People feel well
Values: ideal boss, employ- ee	B: example, co-operative, honest E: loyal, interested	B: successful, recognised, self-assurance E: loyal, motivated, understanding	B: increased external orien- tation E: increased co-respon- sibility	Result of growing – tendency to people integra- tion
Communica- tion	Good personal relations Job info flow	Job oriented relations intensified	Decisions by managers increased	Result of growing and boom
Finance: Turnover, cash flow, profit	T: increasing CF: stagnation P: use for investments	T: doubled CF: stagnation P: use for investments	Building construction: CF decreasing	Danger of overcapacity in collapse

Resources: people, fi- nance, time	P: enough F: mainly own T: not enough leisure time	P: enough F: mainly own T: boom	Boom reduces capacities	
Society: Public, spon- soring	Regional parliament – sponsoring – employees and their families	Regional parliament – sponsoring – employees and their families	Social re- sponsibility for employees very important	Employees recognise and sustain social activities
Society: Legislation	Environment, social, industry	Environment, social, industry	Environmental requirements difficult to translate	
Society: Associations	Industry – regional presi- dent	Industry – regional presi- dent	None	
Economy: Innovation, agility, PR	I: processes, material A: employees PR: adver- tisements	I: processes, material A: employees PR: adver- tisements, customers	I: increasing efficiency PR: controlling by customer feedbacks	
Economy: Market posi- tion, geo- graphical range	MP: 1 <sup>st</sup> polyva- lence, 1 <sup>st</sup> facades, 2 <sup>nd</sup> size GR: region	MP: 1 <sup>st</sup> polyva- lence, 1 <sup>st</sup> fa- cades, 2 <sup>nd</sup> size GR: region	Very good image – by young employ- ees preferred	
Economy: Customers – competitors	Mainly private – few public Personal relations Increasing competition	Mainly private Personal relations Increasing competitions (nationwide)	Public reduced – regular feedbacks Increasing competitions (nationwide)	Increased pressure by nationwide companies
Economy: Suppliers, partners	2 or 3 for material – quality as measure	2 or 3 for material – quality as measure	None	
Economy: Fi- nancing	Merely private	Merely private	None	
Physical Envi- ronment: Sus- tainability	Recycling of material, use of petrol, poisons – material externally defined	Recycling of material, use of petrol, poisons – material externally defined	High envi- ronmental conscience of employees	Definition of materials often depending on price – little influence on customers
Morality: Motivation	Personality of owner and people – some issues in strategy	Personality of owner and people – some issues in strategy	Higher identi- fication of people	

	Dalama	Dalaman		,
Morality: Specifications	Balance of external and internal values – family/lei- sure (3.0), to be an example (2.9), flexible (2.1), justice (2.0)	Balance of external and internal values – to be an ex- ample (3.4), family / leisure (2.6), flexible (2.6), justice (2.4)	To be an example became more important	Not enough time for fami- ly/leisure
Morality: Sus- tainability, codification	1 <sup>st</sup> social responsibility – ecology and economy are important Nationwide contracts Matrix of success	1 <sup>st</sup> financial success – followed by social re- sponsibility Nationwide contracts Matrix of success	Financial success be- came more im- portant Integration in management training	Increasing economic pressure
Mgmt System: Mission/ strategies, statement	Remain 1 <sup>st</sup> in polyvalence Customer, employee satisfaction	Remain 1 <sup>st</sup> in polyvalence Qualitative optimisation Customer satisfaction Employee motivation	Integration of young employ- ees	Clear system is missing – some steps towards BSC
Mgmt System: Range, for- mality	ISO 9001 – ISO 14001 – as part of holding – superficial - OHS	Clear shop floor proce- dures – no re- certification – OHS	Procedures known – methodology for planning	No formalised link between shop floor activities and long-term mgmt.
Mgmt System: Q: definition, - methods - praxis	Customer orientation – consciousness of employees decisive	Customer orientation – individual behaviours, organisation, use of materi- als	Application of procedures and individual behaviours intensified	
Mgmt System: Controlling, risk mgmt.	Use of fi- nancial data – matrix of market success	Data insuf- ficient – activi- ties towards BSC	Need for larger palette of data	Not enough resources for consequent use
Mgmt System: Knowledge mgmt.	Planned inte- gration of new employees	Trainings for specialists and supervisors	Intensified support of young collabo- rators	Commitment of owner
Mgmt System: Comprehen- siveness	Matrix of market success and shop floor procedures	Revision of existing ele- ments	Increased integration of employees and managers	Concentration on owner – increasing integration of people

## **Highlights:**

• Concentration on owner – increasing integration of people

#### Weaknesses:

- No clear system for strategy design some steps towards BSC
- No formalised link between shop floor activities and long-term management
- Not enough resources for consequent use of measuring data

#### **Problems:**

• Increased pressure by large nationwide companies – increased competition

## Specific changes between the two rounds of interviews:

- Increased size related to market position and economic boom
- Increasing integration of managers
- Increased co-responsibility of employees
- Social responsibility for employees very important
- High environmental conscience of employees
- Financial success became more important

## Specific developments after the 2nd round:

- Additional growth
- BSC not implemented because of lack of managerial resources

- Based on individual attitudes and behaviours of management and employees
- Commitment towards employees and their families as well as public
- Some relation to strategies, but minimal integration in management system

Country: Switzerland Size: medium (50) No. of interviewed: 12/12 Industry: Production: building construction/plaster/rebuilding Foundation/history: founded in 1953 by the father of the owner together with others – later: father only owner – part of a holding

- since 2003 takeover by owner

	Round 1	Round 2	Changes	Com-ments
Ownership	Ltd – 100 % actual owner	Ltd – 100 % actual owner	None	
Leadership, decisions making	Partnership Partly owner – partly man- agement	Partnership Partly owner – partly man- agement	None	Owner is very much estimat- ed by employ- ees
People	Mainly spe- cialists – new staff from competitor	Mainly spe- cialists – some hired for short- time	Boom asks for additional people from Germany	Short-term people often unquail-fied
Patterns of organisation	Divisions, function orientated – central admin- istration and logistics	Divisions, function orientated – central admin- istra-tion and logistics	None	
Culture/ traditions	Intensive relations – events	Intensive relations – events – prob- lems with integration of Germans	Problems of integration of short-term employees	
Values: ideal boss, employ- ee	B: available – open for problems E: confidential – responsible	B: professional knowledge – communicative E: confidential –responsible – innovative	Professional issues in- creased	
Communica- tion	Good personal relations Job infor- mation flow	Personal relations increased Job infor- mation flow	Increased integration	
Finance: Turnover, cash flow, profit	T: minimal growth CF: fluctuation P: Re- investment	T: minimal growth CF: decreasing P: Re- investment, reserve fund	Increasing compete-tion	Responsi-bility towards em- ployees pro- voked negli- gent business behaviours.

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Resources: people, fi- nance, time Society:	P: enough F: balanced T: enough Organisation	P: short-time F: mainly own T: boom – short time foreigners Organi-sation	Boom pro- voked hiring of short-term employees Increasing	
Public, spon- soring	of festivities Sponsoring	of festivities Sponsoring	activities of owner's wife	High public response-bility
Society: Legislation	Law for public orders leads to concentration on private customers	Law for public orders leads to concentra-tion on private customers	None	
Society: Associations	Industry, sports, local festivities	Industry, sports, local festivities	None	Social orienta- tion
Economy: Innovation, agility, PR	I: Re- investment A: knowledge PR: reactions on tenders invitations, advertisements	I: Re- investment A: knowledge PR: mouth to mouth, cars with logos, adverti- sements	New ways of PR	No distinctive activities
Economy: Market posi- tion, geo- graphical range	MP: 1 <sup>st</sup> GR: Region	MP: 1 <sup>st</sup> GR: Region	None	Growth basing on increasing turnover
Economy: Customers - competitors	Private Many competi- tors	Young archi- tects – private – measure- ment of satis- fac-tion Increased compete-tion	New sorts of customers and measurement Increased competit-ion	Increased pressure by large nation- wide compa- nies – in- creased com- pete-tion
Economy: Suppliers, partners	Few – regular measurement	Minimal changes – influenced by customers	Increasing depen-dence of customers	
Economy: Financing	Balance be- tween private and bancs	Mainly private	Private financ- ing increased	Banks become increasingly restrictive
Physical Environment: Sustainability	Handling of machinery and materials, recycling	Handling of machinery and materials, recycling	Material often chosen by customers	High responsi- bi-lity of manage-ment and employees
Morality: Motivation	Personality of owner and people – some issues in strategy	Personality of owner and people – some issues in strategy	Morality becomes part of strategy	Employees estimate social behaviour of owner.

	To be an			1
Morality: Specifications	example (2.5), integra- tion/autonomy (2.0), flexible (1.8), compli- ance (1.8), justice (1.7)	To be an example (2.6), family/leisure (2.2), flexible (1.8), good image (1.7), health (1.5)	Reduced time for lei- sure/family Sorrow about health	Result of economic boom
Morality: Sustainability, codification	Company codes	Company codes in revi- sion		Social re- sponse-bility is ongoing issue.
Mgmt System: Mission/ strategies, statement	Maintaining in collaboration with employ- ees	Maintaining in collaboration with employ- ees – geogra- phical expan- sion	Geographical expansion	Geographical expansion as remedy to increase turn over
Mgmt System: Range, for- mality	ISO 9001 – as part of a holding – used by managers and supervi- sors – OHS	ISO 9001 re- certifica-tion planned as future basis – OHS – employees often sceptical	Too much shop floor and reliability orientated	Not integrated in compreh- ensive system
Mgmt System: Q: definition, - methods - praxis	Planning, procedures, perfect work – customer orientation – somewhat holistic	Planning, procedures, perfect work – customer orientation – somewhat holistic	None	Definitions depend on position within company
Mgmt System: Controlling, risk mgmt.	Book keeping – no re- calculation – customer feedbacks – buildings for sale as risk mgmt.	Book keeping – no re- calculation – customer feedbacks – buildings for sale and plan- ning of succes- sion as risk mgmt.	Planning of succession	No systematic procedure
Mgmt System: Knowledge mgmt.	Not systematic	Not systematic – insufficient part-time employees	None	No systematic procedure
Mgmt System: Comprehen- siveness	Shop floor and reliability orientation – not integrated	Shop floor and reliability orientation – not integrated	Geogra-phical expansion and short-term employees to increase turn over	Coexisten-ce of formalised system and good climate and partly intensive relations

## **Highlights:**

- Owner is very much estimated by employees
- High public responsibility
- High environmental responsibility of management and employees

## Weaknesses:

- Economic pressure and increasing competition provoked geographical expansion and use of part-term employees being badly integrated.
- No systematic procedure for controlling and risk management

## **Problems:**

- Increased pressure by large nationwide companies increased competition
- Boom asks for additional often unqualified people
- Coexistence of formalised management system, good climate and partly intensive relations

## Specific changes between the two rounds of interviews:

- Economic pressure and increasing competition provoked geographical expansion and use of part-term employees which are badly integrated
- Professional issues increased
- Banks become increasingly restrictive with financing
- People miss time for leisure/family
- Management system too much shop floor and reliability orientated

- Social responsibility is main attitude and behaviour of owner guaranteed by a solid economic stock
- Intensive interplay between morality and environment with minimal relation to the formalised management system.
- Management system consists of a shop floor and reliability orientated formalised system and mix of leadership and culture, the latter two being decisive.

Country: Switzerland

Size: micro (9) (boom: 5 short-time employees)

*No. of interviewed:* 3/3

*Industry:* Production – Construction – carpentry (roof truss, interiors, isolations)

*Foundation/history:* founded in 1953 by the father of owners with two others – since 1985 Ltd – since 1990 owned by two brothers

	Round 1	Round 2	Changes	Comments
Ownership	Family Ltd	Family Ltd	None	
Leadership, decisions making	High responsi- bility for employees – like colleagues	High responsi- bility for employees – like colleagues	None	Differences between owner and employees
People	Mainly spe- cialists	Mainly spe- cialists	Short-term German em- ployees	Minimal integration of short term staff
Patterns of organisation	Functional – some division between brothers	Functional – some division between brothers	None	
Culture/ traditions	Minimal – like colleagues	Minimal – flexibility – like colleagues	Short-term employees	Problems with integration of foreigners
Values: ideal boss, employ- ee	B: professional and managerial knowledge E: experienced, act on one's own, flexible, customer orientated, modest	B: professional and managerial knowledge E: experienced, act on one's own, flexible, customer orientated, modest	None	E: High expec- tations
Communica- tion	Mediocre Info have to be asked	Mediocre, worsened Info have to be asked	Worsened	Possibly due to short-term employees
Finance: Turnover, cash flow, profit	T: increasing CF: decreasing P: re- investment, reduction of debt	T: increasing CF: stagnation P: re- investment	T: by using short-term foreign em- ployees P: debt paid off	Aim: increas- ing turnover
Resources: people, fi- nance, time	P: knowledge, flexibility F: merely from bancs T: reduced	P: knowledge, flexibility F: balance T: short-time employees	Short-time employees – financial situation optimised	Problem solving by short-time employees

Society: Public, spon- soring Society:	Handicapped collaborator, sponsoring of local activities OHS, physical	Handicapped collaborator, sponsoring, member of regional par- liament OHS, physical	Member of regional par- liament	
Legislation	environment	environment	None	
Society: Associations	Industry (committee member)	Industry (committee member)	None	
Economy: Innovation, agility, PR	I: Minimal A: Flexibility of employees PR: reactions on tenders, invitations, some adver- tisements	I: Minimal A: Flexibility of employees PR: mailings	PR: Mailings	
Economy: Market posi- tion, geo- graphical range	MP: Niche GR: mainly local	MP: Niche GR: mainly local	None	
Economy: Customers - competitors	Architects, private – few local competi- tion	Private, some public – few local competi- tion	Public custom- ers	External competition intensified
Economy: Suppliers, partners	Few – long- time relations – prices rele- vant	Few – long- time relations – prices rele- vant	None	
Economy: Financing	Mainly bancs	Balance pri- vate and bancs	Private financ- ing increased	Depth paid off
Physical Environment: Sustainability	Wood recy- cling (energy), Material recycling	Wood recy- cling (energy), Material recycling	None	
Morality: Motivation	Owner: Re- sponsible citizen	Owner: Re- sponsible citizen	None	How far expe- rienced by employees
Morality: Specifications	Not enough time for lei- sure/family (3.7), demands for trainings (2.5)	Not enough time for lei- sure/ family (3.7), to be an example (2.3), healthiness (2.3)	Growth for internal issue 'example'	
Morality: Sustainability, codification	Owner: Re- sponsible citizen No codifica- tion	Owner: Re- sponsible citizen No codifica- tion	None	Not measura- ble

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Mgmt System: Missi- si- on/strategies, statement	Planning of succession – flexibility	Planning of succession – flexibility	None	
Mgmt System: Range, for- mality	OHS – accord- ing to industry – procedures	OHS – accord- ing to industry – procedures	None	
Mgmt System: Q: definition, - methods - praxis	Customer orientation, sustainability	Customer orientation, sustainability	None	Related to basic material 'wood'
Mgmt System: Controlling, risk mgmt.	None	None	None	
Mgmt System: Knowledge mgmt.	Minimal – education of apprentices	Minimal – education of apprentices	None	
Mgmt System: Comprehen- siveness	Minimal procedures – patriarchal mgmt.	Minimal procedures – patriarchal mgmt.	None	

# **Highlights:**

- Integration of handicapped collaborator
- Sustainability related to basic material wood

## Weaknesses:

- Short term German employees to fill gaps problems with integration
- Not enough time for private/leisure
- Different views of owner and employees in evaluating several issues

# **Problems:**

• Minimal communication and formalisation

# Specific changes between the two rounds of interviews:

- Financial situation optimised turnover increased by foreign short-term employees
- Communication became worse
- Owner became member of regional parliament

- Financial survival is decisive
- Wood as a sustainable material
- No mgmt.-system some informal issues

Country: Germany Size: Small (44/35 to 49 – depending on season) No. of interviewed: 4/4 Industry: Production: flat roofs Foundation/history: starting 1970 with trade of flat roof materials – followed by increasing specialisation in flat roof constructing – 2005 turnover by son of incorporator and partner

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – owned by father	Ltd – owned son and partner	Ltd – owned by son and partner	
Leadership, decisions making	High responsi- bility of man- agers Orders by owner – details by managers	Good col- leagues Co-operation	From patron to partnership	Result of new generation
People	Many special- ists	Merely spe- cialists	No of special- ists increased	Minimal integration
Patterns of organisation	Grown – planning, administration concentrated on owner – process orien- tated	Functional orientation	Clear organisa- tion	Result of specialised new ownership
Culture/ traditions	Familiar, events	No pressure – changing	Different reactions of employees	New style has to be devel- oped
Values: ideal boss, employ- ee	B: Knowledge concerning activities and employees, respected E: Honest, loyal,	B: Calm, respected, colleague E: Responsi- ble, initiative	From patron to partner-ship	New genera- tion of man- agement
Communica- tion	Good relations – but: info top- down	Partnership – but: info top- down	Minimal	Planning department very important
Finance: Turnover, cash flow, profit	T: decreasing CF: minus P: minus	T: changing CF: nearly none P: no answer	Minimal	T: price deci- sive P: probably minimal in future

		P: specialists		
Resources: people, fi- nance, time	P: specialists F: use of private assets T: seasonal	F: never liquid money T: seasonal, short-term employees	None	Ongoing problems with financing
Society: Public, spon- soring	Guaranteeing work place	Guaranteeing work place	None	Missing fi- nance hinders development
Society: Legislation	Environment, OHS	Environment, OHS	None	
Society: Associations	Industry	Industry	None	Industry association forces reduc- tion of compa- nies
Economy: Innovation, agility, PR	I: suppliers A: knowledge PR: advertise- ments, events for architects, tenders	I: suppliers A: knowledge, short-term employees PR: internet, info plates at sites	A: short-term employees PR: concentra- tion	Advantage: high quality – disadvantage: higher prices
Economy: Market posi- tion, geo- graphical range	MP: 1 <sup>st</sup> GR: region	MP: 1 <sup>st</sup> – niche GR: region	none	
Economy: Customers - competitors	Different Regular feed- backs Many competi- tors	Public – large companies Regular feed- backs Number of competitors decreasing – some relations	No of com- pete-tors decree-sing	Price is deci- sive – bad quality of competitors brings custom- ers
Economy: Suppliers, partners	Few – regular measuring	Few – quality assurance by buyers associa- tion	Buyers associ- ation supports quality.	
Economy: Financing	Banks – pri- vate	Banks – pri- vate	None	Ongoing problem
Physical Environment: Sustainability	Material recycling	Material recycling	None	
Morality: Motivation	High responsi- bility towards employees	High responsi- bility towards employees	None	To be guaran- teed by finan- cial success on long-terms

Morality: Specifications	To be an example (2.8), justice (2.8), good image (1.8), family/ leisure (1.8), lifelong learn- ing (1.8)	Family/leisure (2.4), lifelong learning (2.4), openness (2.3), to be an exam- ple (2.1), fun most important (2.0)	Trend towards individual values	Probably because of missing leisure or integration
Morality: Sustainability, codification	Attitude of owner Company and industry codes	Attitude of owners Company and industry codes	Control of application of industry codes intensified	
Mgmt System: Mission/ strategies, statement	Specialist in niche Succession	Specialist in niche	Success-ion solved	Missing fi- nance hinders long-term vision
Mgmt System: Range, for- mality	OHS – internal procedures	OHS – internal procedures	None	Employees ask for optimisa- tion
Mgmt System: Q: definition, - methods - praxis	Customer orientation – industry stand- ards	Customer orientation – top materials and execution	None	
Mgmt System: Controlling, risk mgmt.	Financial	Re-calculation	Minimal	
Mgmt System: Knowledge mgmt.	Annual train- ings with suppliers	Annual train- ings with suppliers	None	Knowledge as a guarantee for survival
Mgmt System: Comprehen- siveness	Personality of owner Internal proce- dures	Personality of owners Internal proce- dures	From patron to partner-ship	No compre- hensive system

## **Highlights:**

• Concentration on owners and their high morality – increasing integration of people

## Weaknesses:

- Minimal financial resources
- Minimal formalisation concentration on owners

# **Problems:**

• Minimal financial resources – hindering long term development

#### Specific changes between the two rounds of interviews:

- New management: Sun and partner took over the company
- From patron to partnership clear responsibilities
- Number of specialists increased
- Number of competitors decreasing but prices are still low
- Trend towards individual values

- High moral attitudes and behaviours of owners towards employees – social responsibility seems to be more important than economical survival.
- Short-term reactions on changing environment no mgmt.system, only internal procedures which should be optimised

Country: Switzerland Size: Small (30) / (35) No. of interviewed: 7/1 Industry: Production: sanitation facilities Foundation/history: Founded in 1876, family company – since 2002 Ltd owned by three partners (one is member of original owner family)

Round 1 Round 2 Changes Comments Ltd - partners Ownership Ltd - partners None Increasing Partners with Partners with business and functional Trend to Leadership, functional planned new divisions patriarchal decisions divisions site reduce behaviours patriarchal making colleagues time for combehaviours munication Minimal None People Specialists Specialists integration Functional -Functional division bedivision be-Decreasing Patterns of tween partners tween partners time for com-None organisation (planning. (planning, munication execution. execution. administration) administration) Cultu-Daily work Stress hinders CI – some No feedback of tuevents - restresses relacultural develemployees re/traditions tions opment spect B: communica-B: common E: individual tive - partner-Values: ideal objectives differences ship boss, employ-E: communica-None E: communicamake realisaee tive - partnertion difficult tive - partnership ship Defined sys-Defined sys-Decreasing Communicatem - good tem - some Worsened time for comtion relations problems munication T: increasing Finance: CF: no data T: increasing Finance need-T: increasing, Turnover, P: trainings, CF: changing ed for new but price cash flow, optimisation of P: investment production site competition profit wages P: many spe-T: Increasing P: many specialists business and **Resources:** cialists people, fi-F. Partners planned new F: Partners nance, time bancs site produce T: overtime time pressure T: stress

	A	A		1 1
Society:	Apprentices	Apprentices		
Public, spon-	Employment	Employment	Sponsoring	
· •	of handicapped	of handicapped	reduced	
soring	Sponsoring			
Society:	Ulugiana	Hygiene	None	
Legislation	Hygiene	Hygiene	None	
Society:	Industry	Industry		
•	Committee	Committee	None	
Associations	member	member		
	I: new prod-	I: new prod-		
	ucts, optimal	ucts, optimal		
Economy:	services	services		
Innovation,	A: people	A: people	None	
agility, PR	PR: brochures,	PR: brochures,	None	
aginty, PK		,		
	public buses,	public buses,		
<b></b>	advertisements	advertisements		
Economy:				
Market posi-	MP: 1 <sup>st</sup>	MP: 1 <sup>st</sup>		
tion, geo-	GR: Region	GR: Region	None	
graphical	on nogion	ort. region		
range				
	Architects,	General con-		
	general con-	tractors, pri-		
Economy:	tractors, pri-	vate – few		Competition –
Customers -	vate	public	Minimal	price often
competitors	Regular feed-	Regular feed-		decisive
	backs	backs		
	Competition	Competition		
Economy:	For rogular	One – minimal	Number re-	
Suppliers,	Few – regular		duced	
partners	controlling	controlling	aucea	
E		Partners -		Planning of
Economy:	Partners	bancs	Bancs	new produc-
Financing				tion site
Physical	Recycling,	Recycling,		No public
<b>Environment:</b>	serious use of	serious use of	None	No public support
Sustainability	resources	resources		support
Morality:	Individual –	Individual –	None	
Motivation	company codes	company codes	INDITE	
	Support of	Support of		
	elderly em-	elderly em-		
1	· · ·	-	1	
	ployees	ployees		
	ployees To be an	ployees 3.0: to be an		D 10 1
Morality:	To be an	3.0: to be an	N	Round 2: only
Morality: Specifications	To be an example (2.4),	3.0: to be an example,	None	one interview-
Morality: Specifications	To be an example (2.4), justice (2.4),	3.0: to be an example, leisure/private,	None	
	To be an example (2.4), justice (2.4), openness (2.3),	3.0: to be an example, leisure/private, responsibility,	None	one interview-
	To be an example (2.4), justice (2.4), openness (2.3), private/lei-sure	3.0: to be an example, leisure/private, responsibility, health, lifelong	None	one interview-
	To be an example (2.4), justice (2.4), openness (2.3), private/lei-sure (2.1), health	3.0: to be an example, leisure/private, responsibility, health, lifelong learning,	None	one interview-
Specifications	To be an example (2.4), justice (2.4), openness (2.3), private/lei-sure (2.1), health (2.0)	3.0: to be an example, leisure/private, responsibility, health, lifelong learning, openness	None	one interview-
Specifications Morality:	To be an example (2.4), justice (2.4), openness (2.3), private/lei-sure (2.1), health (2.0) Company	3.0: to be an example, leisure/private, responsibility, health, lifelong learning, openness Company		one interview-
Specifications	To be an example (2.4), justice (2.4), openness (2.3), private/lei-sure (2.1), health (2.0)	3.0: to be an example, leisure/private, responsibility, health, lifelong learning, openness	None	one interview-

Mgmt	T 1			
System: Missi- si- on/strategies, statement	Leader – diversification (services) – customer satisfaction	Leader – diversification (services) – new site	New site	
Mgmt System: Range, for- mality	ISO 9001, OHS – com- mon develop- ment	ISO 9001, OHS – shop floor orienta- tion	Shop floor orientation	No consequent use of system
Mgmt System: Q: definition, - methods - praxis	Customer satisfaction – individual behaviours, meetings	Customer satisfaction – the right person at the right place	Hierarchical planning	
Mgmt System: Controlling, risk mgmt.	Partners, financial analysis	Partners, financial analysis – analysis of creditors	Minimal	
Mgmt System: Knowledge mgmt.	Permanent trainings	Permanent trainings	None	
Mgmt System: Comprehen- sive-ness	Motivated new owners	Shop floor orientation	Reduction on shop floor orientation	Minimal relation be- tween formal- ised system and reality

## **Highlights:**

• Construction of new, more suited site

## Weaknesses:

- Minimal integration of employees
- No consequent use of management system

## **Problems:**

- Competition price often decisive
- Minimal relation between formalised system and reality

# Specific changes between the two rounds of interviews:

- Management did not support round 2 partner (family member) only interviewee
- Trend to patriarchal behaviour
- Increasing business and planned new site reduce time for communication

- Stress hinders cultural development, communication became worse.
- Sponsoring reduced
- Management system: reduction on shop floor activities

## Specific changes between the two rounds of interviews:

• In early 2008 new large production site inaugurated

- Differences in moral motivations of partners
- Possibilities of defined mgmt.-system not used
- New site as an answer on developing market

Country: Switzerland

Size: Small (46) / (20) [with new acquired company: 70])

No. of interviewed: 9/3

Industry: Production: cable nets (radio, TV, internet, phone)

Foundation/history: Originally with other partner: radio business with aim cable nets – 1975 foundation of company – diversification (telecommunication, security technology, cable nets, electrification of buildings) – 1985 new partner – 2001 transfer of electrification in a separate company – 2003 splitting into two companies (telecommunication [20%] and security technology [50%] – cable nets [30%]) – 2006 acquisition of large cable net company

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – with 2 partners	Ltd – family		
Leadership, decisions making	Mix – co- operative, patriarch, traditional Top manager in cooperation with depart- ment managers – regular monitoring	Co-operative Top manager in cooperation with managers – financial controlling	Adaptation to owner and smaller com- pany	The personali- ty of the partners pro- voked different styles of leader-ship.
People	Specialists – ready for new developments	Specialists – ready for new developments	None	Some team orientation
Patterns of organisation	Departments with separate accounting – sales	Functional	Adaptation to owner and smaller com- pany	
Culture/ traditions	Familiar – many events	Colleagues - events		
Values: ideal boss, employ- ee	B: to be an example leads to acceptance E: loyalty, clear aims, specialist	B: to be an example - reliable E: loyalty, co- operative	Minimal	
Communica- tion	Mixed View 'top- down' better than 'bottom- up'	Direct relations	Adaptation to owner and smaller com- pany	

Finance: Turnover, cash flow, profit	T: increasing CF: balanced – differences between departments P: investments, financial reserve	T: increasing CF: increasing P: investments	Concentration on department	
Resources: people, fi- nance, time	P: specialists F: at the be- ginning mainly bancs – private increasing T: missing leisure	P: specialists F: over 50 % private T: not specific	Private financ- ing increased	
Society: Public, spon- soring	Sponsoring, committee of political party Work place	Committee of political party Work place	Sponsoring reduced	
Society: Legislation	Telecommuni- cation	Telecommuni- cation		
Society: Associations	Industry	Industry		
Economy: Innovation, agility, PR	I: technical development A: diversifica- tion PR: company journal, arti- cles, adver- tisement, sponsoring, workshops	I: technical development A: enlargement of geograph- ical range PR: info for local and regional com- munities	PR: cable nets are only im- plemented by communities	
Economy: Market posi- tion, geo- graphical range	MP: cable nets / security technology: good GR: region	MP: 1 <sup>st</sup> GR: greater region	1 <sup>st</sup> because of acquisition	Fast technical development
Economy: Customers - competitors	Depending on department – mainly long- term – high satisfaction – mixed relations to competitors	Intensive long- term contracts – high satisfac- tion, regular tests – mixed relations to competitors	Concentration on specific segment (communities)	Cable nets need partner- ship and trust
Economy: Suppliers, partners	Installation and support of products of contract part- ners – regular tests	Contract partners – proven prod- ucts – qualita- tive tests	Concentration on department	Future? e.g. wireless com- munication

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Economy: Financing	Start-up main- ly bancs – private increas- ing	Over 50 % private – mix of company and private	Private in- creased	
Physical Environment: Sustainability	Energy use, material recy- cling – alterna- tive products	Part of compa- ny code Material recycling	Few energy use	High responsi- bility of em- ployees
Morality: Motivation	Individual Responsibility towards em- ployees and families	Individual Responsibility towards em- ployees and families	None	
Morality: Specifications	Justice (4.0)To be an example (3.7), family / leisure (3.0), integration / autonomy (2.3)	Openness (3.7), loyalty (2.7), to be an example (2.3), flexibility (2.3)	More internal issues	
Morality: Sustainability, codification	Company code: quality of life and products, trustful	Company code:, image making proud (reasonable, respectful, environment)	Adapted	
Mgmt System: Mission/ strategies, statement	Customer satisfaction Diversification Work place	Optimising market posi- tion (quality, reliability) – to reduce de- pendence of large partner	To reduce dependence by concentration on new cus- tomers	
Mgmt System: Range, for- mality	ISO 9001 Problems with use	ISO 9001 Tailored to company's need	Optimised	
Mgmt System: Q: definition, - methods - praxis	Customer satisfaction Optimal man- agement, projects and work	Customer satisfaction Clear proce- dures	Minimal	
Mgmt System: Controlling, risk mgmt.	Monitoring of departments - portfolio	Financial controlling – analysis of specific risks of industry	Analysis of specific risks of industry	
Mgmt System: Knowledge mgmt.	Regular train- ings (new products)	Regular train- ings	Proven prod- ucts	

Mgmt System: Comprehen- siveness	Formalised systems often collides with unclear leader- ship	Formalised systems is tailored and correlates with management	Adaptation to owner and smaller com- pany	
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#### **Highlights:**

• Concentration on owner – increasing integration of people

#### Specific changes between the two rounds of interviews:

- Splitting into 2 companies basing on personal arguments one partner owns 2 departments, one 1 department
- The splitting had positive effects on the new company (e.g. mgmt.-system, leadership, culture).
- Formalised system is tailored to the company's need and correlates with management.
- Leadership and organisation were adapted to the owner and the reduced size of company.
- Analysis of specific risks of the industry
- Values are more company orientated
- Private financing increased
- Sponsoring reduced

- Economic success is needed to allow social activities
- Individual motivation of partners changed in correspondence with morality, mgmt.-system and environment.
- The owner of the new company shows more motivation and integrates employees.

Country: Switzerland

Size: Small (46) / (30)

No. of interviewed: 9/4

Industry: Production: telecommunication/security technology

*Foundation/history:* Originally with other partner: radio business with the aim cable nets – 1975 foundation of company – diversification (telecommunication, security technology, cable nets, electrification of buildings) – 1985 new partner – 2001 transfer of electrification in a separate company – 2003 splitting into two companies (telecommunication [20%] / security technology [50%] – cable nets [30%])

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – with 2 partners	Ltd – family with junior partners	Family and partner orienta- tion	
Leadership, decisions making	Mix – co- operative, patriarch, traditional Top manager in cooperation with depart- ment managers – regular monitoring	Different view: partnership (owner) vs. patriarchal (employees) Team with feedbacks	Minimal	Different views of owner and employees
People	Specialists, ready for new developments	Specialists, ready for new developments	Minimal	Integration reduced
Patterns of organization	3 Departments with separate accounting – centralized administration, sales	2 Departments – common administration	Minimal	Adapted to reduced size
Culture/ traditions	Familiar – many events	Differences: colleagues vs. distance – many events	Different views	Un-clear
Values: ideal boss, employ- ee	B: to be an example leads to acceptance E: loyalty, clear aims, specialist	B: building up trust E: open for customers, innovative	E: customer orientation	New issues by new top man- ager

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Communica- tion	Mixed View 'top- down' better than 'bottom- up'	Function orientated More patriar- chal View 'top- down' better than 'bottom- up'	More patriar- chal	
Finance: Turnover, cash flow, profit	T: increasing CF: balanced – differences between departments P: investments, financial reserve	T: telecommu- nication: stagnation – security: increasing CF: increasing P: investments	Minimal	
Resources: people, fi- nance, time	P: specialists F: start-up mainly bancs – private increas- ing T: missing leisure	P: specialists F: private part increasing T: missing leisure	F: private part increasing	
Society: Public, spon- soring	Sponsoring, committee of political party Work place	Sponsoring increased Work place	Minimal	
Society: Legislation	Telecommuni- cation	Telecommuni- cation	None	
Society: Associations	Industry	Industry, sponsoring	Sponsoring intensified	
Economy: Innovation, agility, PR	I: technical development A: diversifica- tion PR: company journal, arti- cles, adver- tisement, sponsoring, workshops	I: technical development A: knowledge PR: events, workshops	Concentration because of splitting	
Economy: Market posi- tion, geo- graphical range	MP: cable nets, security tech- nology: good GR: region	MP: Niche GR: greater region	GR: enlarged	

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Economy: Customers - competitors	Depending on department – mainly long- term – high satisfaction Mixed rela- tions to com- petitors	Mix of private and public – high satisfac- tion Increasing competition	Increasing competition with large companies (price pres- sure)	
Economy: Suppliers, partners	Installation and support of products of contract part- ners – regular tests	Certified contract part- ners for spares – Support of marketing	Minimal	
Economy: Financing	Start-up main- ly bancs – private increas- ing	Mainly private	Private in- creased	
Physical Environment: Sustainability	Energy use, material recy- cling – alterna- tive products	Energy use (buildings optimized), material recy- cling	Buildings optimized (energy)	
Morality: Motivation	Individual Responsibility towards em- ployees and families	Individual Responsibility towards em- ployees and families	None	
Morality: Specifications	Justice (4.0)To be an example (3.7), pri- vate/leisure (3.0), integra- tion/autonomy (2.3)	To be an example (3.8), openness (2.5), private/leisure (2.3)	Internal issues more important	
Morality: Sustainability, codification	Company code: quality of life and products, trustful,	Company code reviewed	Comprehen- sive: partners, environment, morality	
Mgmt System: Mission/ strategies, statement	Customer satisfaction Diversification Work place	High quality, Sustainable profit guaran- tees work place	Quality as a specific char- acteristic	
Mgmt System: Range, for- mality	ISO 9001 Problems with use	ISO 9001 Problems with use – new tool	none	

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Mgmt System: Q: definition, - methods - praxis	Customer satisfaction Optimal man- agement, projects and work	Customer satisfaction Optimal man- agement, projects and work, individ- ual motivation	Minimal – individual motivation	
Mgmt System: Controlling, risk mgmt.	Monitoring of departments Portfolio	Financial, employee evaluation Regular review of marketing	Concentrated	Splitting of company
Mgmt System: Knowledge mgmt.	Regular train- ings (new products)	Regular train- ings (new products)	None	
Mgmt System: Comprehen- siveness	Formalised system often collides with unclear leader- ship	Formalised system often collides with unclear leader- ship	Minimal	

#### **Highlights:**

• No highlights

#### Weaknesses:

• No clear leadership

## **Problems:**

• New owner was not able to implement a generally accepted form of leadership.

#### Specific changes between the two rounds of interviews:

- Splitting into 2 companies basing on personal arguments one partner owns 2 departments, one 1 department
- New owner tried to implement more stringent procedures and leadership which are not already experienced by employees. Different view: partnership (owner) vs. patriarchal (employees).

## Specific developments after the 2nd round:

• In May 2008 a new management has been implemented. The owner is acting as member of Board.

## Interplay of morality, mgmt.-system and environment:

• Economic success is needed to allow social activities.

• Individual motivation of partners changed in correspondence with morality, mgmt.-system and environment. The owner of the new company reduced the integration (leadership, management system).

Country: Switzerland Size: small (18) / (20) No. of interviewed: 6/6 Industry: Production: furniture Foundation/history: Founded by the father of owner – 1974 partnership father/owner – 1981 management by actual owner – 1987 Ltd

	Round 1	Round 2	Changes	Comments
Ownership	Family Ltd – father presi- dent of the board	Family Ltd – integration of wife and daughter	Concentration on family of owner	
Leadership, decisions making	Owner orien- tated Differences between sales and production Production manager collegial	Owner orien- tated – not enough time for leadership New branch/shop with site manager Differences between sales and production Production manager collegial	Integration of wife and daughter Site manager of new branch/shop	Owner has not enough time for leadership
People	Specialists	Specialists	None	Good image for apprentice- ship Minimal integration
Patterns of organisation	Concentration on owner – departments, function orientated	Concentration on owner – departments, function orientated – new branch	New branch	
Culture/ traditions	Customer orientation – some events for staff – good atmosphere in production site	Stress hinders good atmos- phere – owner shows staff orientation	Minimal	Distance between sales and production

r		-		
Values: ideal boss, employ- ee	B: customer and staff orientation E: business orientation	B: customer and staff orientation E: business and customer orientation	Minimal	B: Concentra- tion on cus- tomer orienta- tion – not enough time for staff
Communica- tion	Insufficient access to information Proposals are asked Good relations between peers	Insufficient access to information Communica- tion minimally optimised Good relations between peers	Minimal optimisation	Not enough time, proce- dures not clear enough
Finance: Turnover, cash flow, profit	T: decreasing CF: decreasing P: investments	T: equivalent CF: balanced P: investments	optimised	Economic growth – but: the main site was damaged by flood
Resources: people, fi- nance, time	P: specialists F: private T: some pres- sure	P: specialists F: private, some banks T: boom increases pressure	F: some banks (water damage, new branch) T: increased pressure	P: good image as trainer
Society: Public, spon- soring	Apprentices Some sponsor- ing	Apprentices Some sponsor- ing	None	
Society: Legislation	Minimal (Safety)	Minimal (Safety)	None	
Society: Associations	Industry, music (region- al president)	Industry, music (region- al president)	None	
Economy: Innovation, agility, PR	I: new prod- ucts (pur- chased, own production) A: own pro- duction PR: events, individual communica- tion, adver- tisements	I: new prod- ucts (pur- chased, own production) A: own pro- duction – new shop PR: events, individual communica- tion, adver- tisements, mailings	A: new shop	A: motivation of production manager very high
Economy: Market posi- tion, geo- graphical range	MP: Leader in high quality furnishing GR: Mainly region	MP: Leader in high quality furnishing GR: Mainly region – in- creasing	GR: increasing	

Economy: Customers - competitors Economy: Suppliers, partners	Mainly private (higher price segment) Restaurants Competition mainly in low price segment Specialised companies – good relations	Mainly private (higher price segment) Restaurants Competition mainly in low price segment Specialised companies – good relations Looking for new innovative partners	None – diffi- culties to get new customers in region Looking for new innovative partners	Concentration on high price segment, probably hindering
Economy: Financing	Mainly private	Mainly private	None	
Physical Environment: Sustainability	Purchasing Waste man- agement, recycling	Purchasing Waste man- agement, recycling	Some optimi- sation in waste management	What's about sensitisation of customers?
Morality: Motivation	Individual - high awareness for social and company problems Responsibility towards cus- tomers and staff	Individual - high awareness for social and company problems Responsibility towards cus- tomers and staff	Minimal	Owner men- tions custom- ers first
Morality: Specifications	Justice (3.8), to be an example (2.8), lifelong learning (2.3), family / leisure (2.2), flexible (2.1)	Justice (2.8), to be an example (2.6), fami- ly/leisure (2.6), health (1.9), openness (1.9)	Less im- portance for justice	Justice: theory vs. praxis?
Morality: Sustainability, codification	Customer orientation, some social and environ- mental issues Company code	Customer orientation, some social and environ- mental issues Company code	Minimal	
Mgmt System: Mission/ strategies, statement	Market leader with high quality prod- ucts Customer orientation, own produc- tion	Market leader with high quality prod- ucts, niche Customer orientation, own produc- tion	None – intensi- fied niche orientation	Concentration on high price level: a long term success?

Mgmt System: Range, for- mality	Internal system with proce- dures ISO 9001 planned	Internal system with proce- dures	ISO 9001 out of discussion	
Mgmt System: Q: definition, - methods - praxis	Customer orientation Optimal prod- uct	Customer orientation Optimal prod- uct Motivation, collaboration	Increased importance of behaviour	
Mgmt System: Controlling, risk mgmt.	Calculation after delivering Financial controls	Calculation after delivering Financial controls Benchmarking	Bench- marking	
Mgmt System: Knowledge mgmt.	Apprentices Benchmarking	Apprentices Benchmarking	Minimal	No long-term concept
Mgmt System: Comprehen- siveness	Some proce- dures – gaps in leadership and communica- tion	Some proce- dures – gaps in leadership and communica- tion	None	

## **Highlights:**

- Absolute customer orientation
- Motivated production manager

## Weaknesses:

- Owner has not enough time for leadership
- Concentration on high price segment

## Specific changes between the two rounds of interviews:

- Leadership: Integration of wife and daughter and site manager of new branch/shop
- Increased importance of behaviour towards customers

- Minimal
- Morality: individual orientated
- No functioning mgmt.-system
- Minimal activity supporting physical environment
- Economic issues in front

Country: Switzerland
Size: medium (50 - Group: 180)/ (57 - Group: 290)
No. of interviewed: 10/11
Industry: Production: Chemistry – surface coating – wage company
Foundation/istory: 1963 (holding 2002) – aluminium: important material for constructing industry since 1970 – foundation of subsidiaries since 1995

	Round 1	Round 2	Changes	Comments
Ownership	Since begin- ning Ltd – belonging to the two top- managers	Family Ltd	Intensified concentration on one family	
Leadership, decisions making	Co-operative – owners also in operations – differentiation sometimes not clear enough Decisions on relevant levels – finally by owners 2/3 specialists	Co-operative – owners also in operations – differentiation sometimes not clear enough Decisions on relevant levels – finally by owners 2/3 specialists	Communica- tion optimised	
People	(apprenticeship or technical education), 1/3 semi-skilled	(apprenticeship or technical education), 1/3 semi-skilled	Intensified integration	Intensified integration
Patterns of organisation	Holding Company: Technical and administrative directors – departments – specialised staff – matrix orientated	Holding Company: Technical and administrative directors – departments – specialised staff – matrix orientated – continuous improvement	Intensified continuous improved (forced by aircraft indus- try)	Organisation adapted to changing requirements

Culture/ traditions	Familial, collegial, collaborative Performance orientated and individual flexibility Events	Familial, collegial, collaborative – sometimes stress Performance orientated and individual flexibility	Minimal – because of stress	Stress may influence relations (but: manage-ment of major fire in 2007 was supported by living culture)
Values: ideal boss, employ- ee	B: High pro- fession- al/industrial knowledge Understanding for customers and employees Clear, compre- hensible management Sustainable view E: good educa- tion – self- reliant, innova- tive, trusty	Events B: High pro- fession- al/industrial knowledge Understanding for customers and employees Clear, compre- hensible management Sustainable view E: ongoing education (knowledge transfer) – self- reliant, innova- tive, trusty	B: activities have been intensified E: Know-ledge transfer (form new subsidiary in Dresden D)	B: increasing orientation towards inte- gration E: increasing orientation towards inte- gration
Communica- tion	Many meetings (external, internal) – asking for information (against pas- sivity) Good relations, making pro- posals – corre- spondence mgmtpeople	Many meetings (external, internal) – asking for information (against pas- sivity) Good relations, making pro- posals – corre- spondence mgmtpeople	Fight against passivity intensified	Integration of people
Finance: Turnover, cash flow, profit	T: mainly increasing (depending on fluctuating demand of industries) CF: increasing (over 15 %) P: Investment	T: increasing CF: increasing (over 15 %) P: Investment	T: Construc- tion industry with increasing demand CF: minimal	CF: on long term balanced – even if demand is fluctuating P: only used for investment

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Resources: people, fi- nance, time Society: Public, spon- soring	P: 2/3 special- ist – advanced training F: mainly banks T: relatively balanced	P: 2/3 special- ist – advanced training F: mainly banks T: increased stress, but employees satisfied Job security Knowledge transfer to poor	Minimal T: increased stress Knowledge transfer	F: good rela- tions to banks – new site under con- struction T: new activi- ties Personal activity of owner
Society: Legislation	Environment	countries Environment	None	Increasing responsibility
Society: Associations	Industry – committee member	Industry – committee member	None	Responsible market leader
Economy: Innovation, agility, PR	I: new indus- tries, adaption of products and processes A: company, partners – ongoing adap- tion to tech- nology and market PR: prospec- tuses, exposi- tions, internet	I: new indus- tries, adaption of products and processes A: additional company – ongoing adap- tion to tech- nology and market PR: prospec- tuses, exposi- tions, internet	A: additional know-how by acquisition of compete-tors	Expansion in new industries (automotive, aircraft) Additional knowledge by acquisition
Economy: Market posi- tion, geo- graphical range	MP: Market leader CH GR: 1/3 CH – expansion Europe	MP: Market leader CH – subsidiary in D GR: 1/3 CH – increasing expansion Europe	Expansion	
Economy: Customers – compete-tors	SMEs – watch, machines, medical, construction Some small competitors – no fighting	Watch, ma- chines, medi- cal, construc- tion – addi- tional: automo- tive, aircraft Competitors: some fighting in construction industry	New industries – larger com- panies	Expansion – acquisition of competitors
Economy: Suppliers, partners	Few, long-term orientated: Chemistry, energy (elec- tricity)	Few, long-term orientated: Chemistry, energy (elec- tricity)	None	Long-term relations as basis

Economy: Financing	Mainly banks, rest private (30	Mainly banks, rest private (25	None	Banks: good rating
Physical Environment: Sustainability	%) Chemistry: intensive, long-term orientated (Energy, off gas, recycling, hazardous waste)	%) Chemistry: intensive, long-term orientated (Energy, off gas, recycling, hazardous waste) Sensitisation of employees	Increasing sensitisation of employees	Increasing integration
Morality: Motivation	High aware- ness for social and company problems	High aware- ness for social and company problems	Increasing	Increasing integration
Morality: Specifications	Justice (2.9), to be an example (2.8), fami- ly/leisure (2.6), openness (2.1), integra- tion/autonomy (2.0), respon- sibility (2.0)	To be an example (2.8), family/leisure (2.8), justice (2.6), openness (2.1), integra- tion/autonomy (1.6), flexible (1.5)	Minimal	Different economic situation (rd1: depression – rd1: boom)
Morality: Sustainability, codification	Long-term (social, envi- ronment) Mission state- ment: quite comprehensive	Long-term (social, envi- ronment) Mission state- ment: compre- hensive, en- larged	Intensified	Increasing conscious-ness of employees
Mgmt System: Mission/ strategies, statement	Expansion to Europe – innovation – responsibility to be widened	Expansion to Europe – innovation – responsibility to be widened – relation to objectives and measures intensified	Relation to objectives and measures intensified	Increasing integration
Mgmt System: Range, for- mality	ISO 9001- 14001 – EFQM and BSC planned Own system, integration of people	ISO 9001- 14001 – air- craft standards Own system, integration of people	New customers ask for addi- tional certifica- tion Integration of people	High system thinking Mgmtmodels in back-ground

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Mgmt System: Q: definition, - methods - praxis	Customer satisfaction – zero defaults Supported by leadership and procedures	Customer satisfaction (not only technical) – zero defaults Supported by leadership (example) and procedures	Increasing TQM orienta- tion	Integration
Mgmt System: Controlling, risk mgmt.	Quality, envi- ronment Finance: external revi- sion	Comprehen- sive risk analysis	Comprehen- sive	Integration of all risks planned
Mgmt System: Knowledge mgmt.	Innovation Ongoing trainings	Acquisition (knowledge transfer) Innovation Ongoing trainings	Acquisition (know-ledge transfer)	Different strategies
Mgmt System: Com- pre-hensive- ness	Quality, envi- ronment – TQM orienta- tion - intensive people integra- tion	Quality, envi- ronment – TQM orienta- tion But: intensified customer demands	Intensified customer demands	Very intensive activities towards inte- gration

## **Highlights:**

- Personality of owner motivates people, familial culture
- System thinking

## Specific changes between the two rounds of interviews:

- Expansion in Europe, additional industries (automotive, aircraft), acquisition of companies/knowledge
- Communication, integration optimised
- Knowledge transfer from new subsidiary and optimised agility by acquisition of competitors
- Increasing sensitisation of employees towards physical environment
- New customers ask for additional certification
- Increasing TQM orientation, high system thinking

## Specific developments after the 2nd round:

• June 2007 major fire in a new built site – optimal risk management, integration of people and collaboration with competitors allows to satisfy customers (nearly no lost) - reopening of reconstructed site in July 2008

• 2009: operational responsibility to a son of the owner, owner concentrates as president of board on visions and strategies

- Intensive interplay of all elements
- Increasing people integration
- Economic issues as basis (but evaluation of triple bottom line weighting changes from 60 % [rd1] to 50 % [rd2])

*Country:* Switzerland *Size:* small (30) / (38) *No. of interviewed:* 7/7 *Industry:* Production: transformers

Foundation/history: 1950 – father of owner produced washing machines; contacts with large customer asked for transformers (starting with 2 employees) – owner entered in the own company in 1973 (father was ill) – in 1986 takeover of management – since then: immense growth of the company

	Round 1	Round 2	Changes	Comments
Ownership	Starting with a financial partnership – since 1978 Ltd (family)	Ltd (family company)	None	
Leadership, decisions making	Partnership, owner very friendly – problems with managers Meetings as basis for decisions	Cooperative – partly chaotic (new manag- ers) Decisions: sometimes patriarchal, but always inclu- sion of mgmt.	New managers Stile becomes more patriar- chal	Integration of new managers – concentration on owner
People	Office: engi- neers and specialists – production: specialists and semi-skilled	Office: engi- neers (en- larged) and specialists – production: specialists and semi-skilled	Number of engineers enlarged	New skills integrated Reduced integration
Patterns of organisation	Top manage- ment – de- partments – function orientated	Top manage- ment – de- partments (intensified) – function orientated	Importance of departments intensified	Collaboration between departments to be intensified
Culture/ traditions	Familiar, events	Familiar – stressing, partly chaotic, mobbing	Diffuse	Lack of com- mon culture

	B: to be an	B: to be an		[]
Values: ideal boss, employ- ee	example, some assertiveness E: objective orientated, communica- tive, team orientated	B: to be an example, active, ongoing education E: entrepre- neurial think- ing	B: ongoing training E: integration in common responsibility	Gap to reality
Communica- tion	Meetings, intranet – to be improved Differences in perception in different hierarchical levels	Meetings, intranet – to be improved Generally worsened	Generally worsened	Problems with dissemination of information
Finance: Turnover, cash flow, profit	T: changing CF: balanced P: reinvest- ment, capital reserve	T: increasing (10-15 %) CF: balanced – should be higher P: reinvest- ment	T: increasing	Boom allows growth
Resources: people, fi- nance, time	P: specialists, semi-skilled F: own capital – banks T: good work- load	P: specialists, semi-skilled – increasing number of engineers F: own capital (40 %) – banks T: boom = stress	P: increasing number of engineers F: minimal T: boom = stress	P: adaption to technical development F: high rate of own capital T: boom management
Society: Public, spon- soring	Work place Some sponsor- ing	Work place Some sponsor- ing	minimal	
Society: Legislation	Industry standards	Industry standards	None	
Society: Associations	Industry, TQM, science	Industry, TQM, science	Minimal	Networking
Economy: Innovation, agility, PR	I: adaption of products and processes A: ongoing adaption to technology and market PR: Mailings, events, internet	I: adaption of products and processes A: additional young engi- neers – co- operation with customers – complete solutions PR: plan – internet, expo- sitions, adver- tisements	A : young engineers – co- operation with customers – complete solutions PR : new concept	Increased integration (customers, people)

Economy: Market posi-	MP: market leader in CH	MP: market leader in CH		Long-term
tion, geo- graphical range	GR: mainly CH	GR: expanding to Italy	GR: expansion	planning
Economy: Customers - competitors	Larger compa- nies – co- operation in design Competitors: mix of compe- tition and cooperation	Mix – excel- lent feedback from Italian customers – regular con- tacts Competitors: mix of compe- tition and cooperation	Expansion – regular con- tacts	Increasing integration
Economy: Suppliers, partners	Few – partner- ship, friend- ship	Few – partner- ship, friend- ship	minimal	
Economy: Financing	Own capital – banks	Own capital (40 %) – banks	Minimal	High rate of own capital
Physical Environment: Sustainability	Comprehen- sive resources management – power-saving products	Comprehen- sive resources management – power-saving products (in co-operation with federal administration)	Intensified – power-saving products (in co-operation with federal administration)	Integration of people – customers: minimal power saving orienta- tion
Morality: Motivation	General com- pany and social orienta- tion – jobs in CH	General com- pany and social orienta- tion – jobs in CH	Intensified	
Morality: Specifications	Mix between company and private issues – to be an exam- ple (3.3), fun (2.4), compli- ance (2.1), justice (2.1)	Mix between company and private issues – to be an exam- ple (3.6), justice (2.1), compliance (1.8)	'to be an example' as leading ele- ment	
Morality: Sustainability, codification	Mission state- ment – triple bottom line	Mission state- ment – part- nership – triple bottom line	Aim to inte- grate people	Reality shows problems in communica- tion
Mgmt System: Missi- si- on/strategies, statement	Management of succession – survive – partnership with customers Some integra- tion of people	Management of succession – survive – partnership with customers Some integra- tion of people	Minimal – new engineers not yet integrated	Problems in internal com- munication

Mgmt System: Range, for- mality	ISO 9001:1994 optimised by EFQM	Process orien- tated – some circularity	Trend towards circularity	Gap between theory and implementa- tion
Mgmt System: Q: definition, - methods - praxis	Customer orientation – common result which pleads Comprehen- sive – integra- tion of people	Corresponding with require- ments – Depending on communica- tion	Integration reduced	New engineers not integrated
Mgmt System: Controlling, risk mgmt.	Finance orien- tated	Finance orien- tated – intro- duction of BSC planned	Introduction of BSC planned	No effective risk manage- ment – SWOT- analysis planned
Mgmt System: Knowledge mgmt.	Mix of skills corresponding to duties	Number of specialists and engineers enlarged	Number of specialists and engineers enlarged	Buy-in of knowledge
Mgmt System: Comprehen- siveness	Good theoreti- cal background with problems in implement- ing	Good theoreti- cal background with problems in implement- ing – BSC planned	Optimisation aspired	Gap between (idealistic) theory of owner and praxis

# **Highlights:**

• Concentration on owner

## Weaknesses:

- Gap between (idealistic) theory of owner and praxis
- No effective risk management

## Specific changes between the two rounds of interviews:

- Expansion and demand for innovation asked for additional external knowledge (engineers)
- Problems with integration and dissemination of information
- Leadership: Integration of new managers is demanding and forces concentration on owner
- Organisation: Importance of departments intensified
- Physical environment: Intensified, power-saving products

- Idealistic intentions of owner: comprehensive management system. gap to reality
- Palette of products asks for resource savings.

Country: Germany Size: medium – (100) / (120) No. of interviewed: 7/8

Industry: Production: hydraulic components

*Foundation/history:* 1964 company for hydraulic engineering founded by owner – 1970 production of hydraulic components – 1977 Ltd. – 1978 relocation – 1988, 1995 extensions of plants integrating environmental and safety issues – 2005 additional production hall – ongoing improvement

	Round 1	Round 2	Changes	Comments
Ownership	Ltd of founder	Ltd of founder	None	
Leadership, decisions making	Partnership with special position of owner (experi- ence, knowledge, leadership) Collegial decisions with special posi- tion of owner	Partnership with special position of owner (experi- ence, knowledge, leadership) Collegial decisions with special posi- tion of owner	Minimal	Mix of part- nership, colle- giality and trust – what is about future (owner more than seventy years old)?
People	Only special- ists (some engineers) Integration	Only special- ists (some engineers) Integration	Minimal	Basis for innovation
Patterns of organisation	Functional orientation – process orien- tated	Functional orientation – process orien- tated	Minimal	Management of growth?
Culture/ traditions	Soundness (towards customers, employees), respect, open- ness, big family, events	Soundness (towards customers, employees), respect, open- ness, big family, events	Intensified	Good relations, integration

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Values: ideal boss, employ- ee	B: competent, good behav- iour E: competent, loyalty towards company	B: competent, good behav- iour – with employees E: competent, loyalty towards company (but bearing in mind personal interests), high level of com- mitment	Increased employee orientation	Increased integration
Communica- tion	Information have often to be asked Co-operation often does not work, top- down evalua- tion better than bottom-up	Meetings Collaboration optimised	Importance of meetings increased Collaboration optimised	Increasing integration
Finance: Turnover, cash flow, profit	T: steadily increasing CF: stable P: future of company (investments, own funds)	T: intensively increasing CF: increasing P: future of company (investments, own funds, providing jobs)	Increasing interest to- wards employ- ees	Boom
Resources: people, fi- nance, time	P: specialists F: good rela- tions to banks – some own assets T: enough – some people complain missing leisure time	P: specialists F: increasing own assets – superior rating by banks T: sometimes gaps – individ- ual flexibility	Boom pro- vokes some stress	Solid basis
Society: Public, spon- soring	Healthy and safe work conditions Science, city	Healthy and safe work conditions Science, city	Intensified	Feedbacks of employees match with owner
Society: Legislation	Industry standards, environment	Industry standards, environment	Ongoing	Ongoing
Society: Associations	Industry, standards, science, ser- vice club	Industry, standards, science, ser- vice club	Relations to science in- creased	Intensive network

	L - dtion - C	I: adaption of		[]
Economy: Innovation, agility, PR	I: adaption of products and processes A: ongoing adaption to technology and market, contact to science PR: advertise- ments, exposi- tions, local events	products and processes A: ongoing adaption to technology and market, contact to science, new production hall PR: advertise- ments, exposi- tions, local events	Minimal	Intensified
Economy: Market posi- tion, geo- graphical range	MP: innova- tion: one of leaders GR: world- wide, many competitors	MP: innova- tion: one of leaders – new production hall GR: world- wide, many competitors – quality as advantage	Intensified – quality as advantage	Example of worldwide active SME
Economy: Customers - competitors	Different mechanical industries, co- operation in design High rated Competition: quite intensive, some relations	Different mechanical industries, co- operation in design Rate optimised Competition: intensive, some close relations	Increasing	High rated Quality and reliability guarantee success.
Economy: Suppliers, partners	Clearly defined requirements, evaluation, some partner- ships	Clearly defined requirements, evaluation, partnership intensified (steel)	Intensified	Fast clearing
Economy: Financing	Good relations to banks, some own assets	Increasing own assets, superior rating by banks	Optimised	
Physical Environment: Sustainability	Very compre- hensive (ener- gy, material, water, air) – awareness of people depend- ing on duty	Very compre- hensive (ener- gy, material, water, air) – awareness of people depend- ing on duty	Intensified (new produc- tion hall)	Exemplary

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Morality: Motivation	Personality of owner and people Em- ployees and families, society	Personality of owner and people Em- ployees and families, society	Increased	Increasing integration
Morality: Specifications	Justice (3.0), to be an example (2.9), fami- ly/leisure (2.7), openness (2.6), health (2.3)	To be an example (3.1), justice (2.2), lifelong learn- ing (1.9), loyalty (1.8)	'to be an example' in front – broad distribution of values	Long term model of leadership
Morality: Sustainability, codification	Long term orientation (humans in centre – solid economic basis allows long term social and environmental activities) Mission state- ment: compre- hensive	Long term orientation (humans in centre – solid economic basis allows long term social and environmental activities) Mission state- ment: compre- hensive	Optimised	Exemplary
Mgmt System: Mission/ strategies, statement	Sustainable economic activity, growth, inno- vation Leadership Familiarity	Sustainable economic activity, growth, inno- vation, trusti- ness Leadership Familiarity	Optimised	Moral back- ground, famili- arity decisive
Mgmt System: Range, for- mality	ISO 9001, ISO 14001, EMAS People integra- tion	ISO 9001, ISO 14001, EMAS Some circulari- ty People integra- tion	Optimised	Circular loops not fully working
Mgmt System: Q: definition, - methods - praxis	Security, serviceable	Security, serviceable, reliability	Minimal	Still quality control orien- tated
Mgmt System: Controlling, risk mgmt.	Financial, Q-, E-controlling Market analy- sis, annual reports (cus- tomers, suppli- ers, Q, E)	Financial, Q-, E-controlling Market analy- sis, annual reports (cus- tomers, suppli- ers, Q, E)	Minimal	The integration of these issues is not stringent

Mgmt System: Knowledge mgmt.	External and internal train- ings, collabo- ration with customers and science	External and internal train- ings, collabo- ration with customers and science	Optimised	Remain market leader
Mgmt System: Comprehen- siveness	Different elements – combined in daily use, but not systemati- cally	Different elements – combined in daily use, but not systemati- cally	Minimal	Too much technical and owner orien- tated

### **Highlights:**

- Concentration on owner mix of partnership, collegiality and trust
- Exemplary responsibility towards employees and their families, society, physical environment
- Networking

### Weaknesses:

• Management system still control and technology orientated, no stringent integration of elements

## **Problems:**

• Succession: owner more than seventy years old

## Specific changes between the two rounds of interviews:

- Minimal
- Responsibility of advisory board and management team intensified (succession plan)
- Increasing integration and interest towards employees
- Relations to science increased

## Specific changes between the two rounds of interviews:

- Intensive development towards sustainability still very much related to owner
- Enlargement of top management
- Increasing integration of son (to become the future owner and top-manager)

# Interplay of morality, mgmt.-system and environment:

• Intensive interplay, but not systematically integrated

• Morality and commitment for environment very intensive (formed by owner family)

*Country:* Switzerland *Size:* small (37) / (40) *No. of interviewed:* 7/7 *Industry:* Production: printing plant

Foundation/history: 1964: father of owners aimed self-employment - 1974 publishing house - 2001 takeover by two sons (actual owners)

	Round 1	Round 2	Changes	Comments
Ownership	Family Ltd.	Family Ltd.	Reimburse- ment to father	
Leadership, decisions making	Differences between departments – sometimes unclear Directorate with 3 persons	Clear, familiar, collegial Team orientat- ed – final decisions: directorate	Integration of people Team orientat- ed decisions	Coaching between the rounds Often no time for long term reflections
People	80 % special- ists Often not integrated	80 % special- ists Increasing integration	Increasing integration	Optimised culture
Patterns of organisation	Departments with specific sales, function orientated	Departments with specific sales, function orientated	Increased integration	Relatively independent departments (publishing, advertiser, printing)
Culture/ traditions	Some events	Improvement, communica- tion, high collegiality, events	Increased integration	Common value: im- provement
Values: ideal boss, employ- ee	B: competent, fair E: competent, fair	B: time to manage prob- lems, fair E: effective, happy, fair	Increased problem and people orienta- tion	Change
Communica- tion	Mix of infor- mation (for- malised, on demand, internet) Discrepancy of communica- tions' percep- tion	Mix of infor- mation (daily meetings, formalised, on demand, internet) Communica- tions optimised	Daily meetings Communica- tions optimised	Increasing integration of people

Finance: Turnover, cash flow, profit	T: decreasing (general down- turn) CF: mix (de- pending on department) P: repayment (father)	T: increasing CF: increasing P: investments, reserves	Increasing	Boom
Resources: people, fi- nance, time	P: sufficient F: mainly own assets T: not enough for leisure	P: minimal people with needed techno- logical knowledge on market F: aim: only own assets – new equipment asks financing by bank T: not enough for long term planning and sometimes for leisure	Increased	Expansion and boom
Society: Public, spon- soring	Regional sponsoring	Regional sponsoring		e.g. cost free advertisements
Society: Legislation	Minimal	Minimal	None	
Society: Associations	Industry, business	Industry, business	None	
Economy: Innovation, agility, PR	I: new equip- ment A: different products PR: own agency, net- working, quality	I: technical top A: different products PR: own media, direct mailings	Ongoing optimisation	Technically leading com- pany
Economy: Market posi- tion, geo- graphical range	MP: art print/publisher: leader – indus- try GR: national – regional	MP: art print/publisher: leader – indus- try GR: national – regional	minimal	Long-term: technical and knowledge orientation
Economy: Customers - competitors	Publisher, industry, public, private – regular analysis Competition on regional level	Supra-regional enlarged – relations intensified Competition on regional level intensi- fied	Supra-regional enlarged – relations intensified	Long-term orientation

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Economy: Suppliers, partners	Few, often partnership – ecological optimisation – intuitive evaluation	Few, often partnership – product and ecological optimisation – intuitive evaluation	Intensified partnership – product and ecological optimisation	Sustain-able – evaluation to optimise
Economy: Financing	Mainly own assets	Aim: only own assets – new equipment asks financing by bank	Innovation asks for exter- nal financing	Solid basis
Physical Environment: Sustainability	Technological progress: reduced pollu- tion, planned waste man- agement	Material optimisation with regional partner (waste paper)	Ongoing serious optimi- sation	Optimisation of waste management planned
Morality: Motivation	Social respon- sibility, espe- cially towards employees	Social respon- sibility, especially towards em- ployees	Intensified	Long-term integration
Morality: Specifications	Family/leisure (2.9), to be an example (2.6), health (2.6), good image (2.1), justice (2.1)	To be an example (3.1), family/leisure (2.4), good image (1.9), openness (1.9, alternatives (1.9)	Company orientation increased	Possibly connected with optimised culture
Morality: Sustainability, codification	Moral princi- ples	Long-term orientation Mission state- ment	Mission state- ment allows long-term orientation	Sustain-able orientation
Mgmt System: Mission/ strategies, statement	High quality, high technolo- gy – own assets – no growth	Small but nice, keep turnover – high quality, high technolo- gy	minimal	Long-term: high quality
Mgmt System: Range, for- mality	Some stand- ards (printing, layout)	Department orientated standards	Minimal	Against exter- nal standards
Mgmt System: Q: definition, - methods - praxis	Price, deadline, service	Everything we offer (behav- iour, product, deadline, price)	Behaviour important	Integration

Mgmt System: Controlling, risk mgmt.	Financial controlling 5 year financial planning	Quality and financial controlling Long-term strategy (new site), financial planning	Enlarged (not only finance)	Integration
Mgmt System: Knowledge mgmt.	Quality basing on knowledge	Technical development asks for knowledge	Intensified	Difficult to find real specialists on market
Mgmt System: Comprehen- siveness	Own system with minimal standards	Own system with depart- ments' stand- ards	Optimised	Demand- orientated

# **Highlights:**

- Concentration on owners, increasing integration of people
- Technically leading company

## Weaknesses:

• Often no time for long term reflections

## **Problems:**

• Difficulties to find real specialists on market

## Specific changes between the two rounds of interviews:

- Because of disillusioning results of round 1: collaboration with a coach
- Leadership: Integration of people, team orientated decisions
- Mission statement allows long-term orientation
- Communication/integration optimised
- Suppliers: Intensified partnership, product and ecological optimisation
- Physical environment: Ongoing serious optimisation

# Specific changes between the two rounds of interviews:

- Morality as matter of course being integrated in vision/strategy and related to environmental responsibility
- Minimal standards: demand-orientated

- *Country:* Switzerland only one interview round: Company was sold; top-manger was replaced by a new person which refused to participate round 2.
- Size: medium (135 of them 2/3 Swiss)

No. of interviewed: 12

- Industry: Production: stone quarry, concrete goods, landscape gardening
- *Foundation/history:* 1929 mother company 1931 stone quarry for street (gravel) and railway constructing (ballast) 1941 concrete goods (manual, mechanical) automation 2003 new site (concrete slabs) 2006 sold to a holding installing a new management

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – number of main own- ers reduced from 4 to 2 – some employ- ee participation			
Leadership, decisions making	Official: co- operative – reality: mix (depending on department)			
People	Half specialists – half semi- skilled New proce- dures ask for an increasing number of specialists.			
Patterns of organisation	Divisions, function orientated Manual opera- tions – increas- ing automation			
Cultu- tu- re/traditions	Meetings, different events Integration of stakeholders			Integration of stake-holders (because of public pres- sure)
Values: ideal boss, employ- ee	B: autonomous with own opinion –			

		0	
	ready for		
	synthesis		
	E: critical		
	towards re-		
	quirements and		
	processes –		
	-		
	team player		
	Mix depending		
	on duties:		
Communica-	meetings,		
tion	intranet, mini-		
uon	mal		
	People orien-		
	tated		
	T: retracement		
Finance:	CF: retrace-		Long winter,
Turnover,	ment		depression
cash flow,	P: needed		2003
profit			2005
-	investments		
	P: long-time		
Resources:	F: long-		
people, fi-	established,		
nance, time	bank credits <		
nance, unie	50 %		
	T: minimal		
	Offering		
Society:	employment,		
Public, spon-	sponsoring		
soring	(sports, theatre,		
soring	music, social)		
	Environment,		
Society:	,		Planning of
Legislation	safety, securi-		new quarry
	ty, landscape		· · · · · · · · · · · · · · · · · · ·
Society:	Industry		
Associations	-	 	
	I: new produc-		
Feener	tion sites		
Economy:	A: new prod-		
Innovation,	ucts		
agility, PR	PR: exposition,		
	new carry		
Economy:	new curry		
Market posi-	MP: leader		
-	GR: nation		
tion, geo-			
graphical	wide		
range		 	
	Quarry: rail-		
	way, road		
Economy:	construction -		
Customers -	goods: under-		
competitors	ground, build-		
	ing construc-		
	tion, horticul-		
	, normeur		

r	1	1	
	ture		
	Growing		
	competition		
	from abroad		
	From holding		
Economy:	(integration of		
Suppliers,			
partners	former com-		
F	petitors)		
	Long-		
Economy:	established,		
Financing	bank credits <		
8	50 %		
	Comprehen-		
	sive (complex:		
	noise, water,		
Physical	air, waste,		
Environment:	landscape) -		
Sustainability	regular ecolog-		
	ical audits and		
	search for		
	optimisation		
	Responsibility		
Morality:	towards em-		
Motivation	ployees, sus-		
	tainability		
	Private/leisure		
	(2.7), justice		
	(2.5), to be an		
Morality:			External issues
Specifications	example (2.3),		in front
-	integra-		
	tion/autonomy		
	(2.1)		
	Long-term		
Morality:	responsibility		
Sustainability,	Mission state-		
codification	ment (compre-		
councation	· •		
Manut	hensive)		
Mgmt	D 1		
System:	Raw material		
Missi-	assuring, new		
si-	products and		
on/strategies,	processes		
statement	-		
Mgmt	100 0001 100		
System:	ISO 9001, ISO		
Range, for-	14001 – circu-		
0 /	larity		
mality		 	
Mgmt	Customer		
System: Q:	orientation		
definition, -	Circularity,		
methods -			
praxis	elaborateness		
ргаль			
Mgmt	Different		

System: Controlling, risk mgmt.	indices, super- vised by holding Integrated (market, resources)
Mgmt System: Knowledge mgmt.	Regular opti- misation of needs
Mgmt System: Comprehen- sive-ness	Comprehen- sive, circulari- ty Mainly con- centrated on management

# **Highlights:**

• Integration of stakeholders because of public pressure

### Specific changes between the two rounds of interviews:

• No round 2 because of new owner and management

### Interplay of morality, mgmt.-system and environment:

• Intensive interplay basing on specific environmental situation of company and commitment of top-manager

Country: Germany, Northern Bavaria Size: small (50) / (38) No. of interviewed: 8/8 Industry: Service: nursing home

*Foundation/history:* Starting as general hospital – 1996 geriatric rehab-clinic – 2003 acquisition by actual owner, stationary nursing home – 2006 new top-manager

	Round 1	Round 2	Changes	Comments
Ownership	Foundation (catholic) under public law	Foundation (catholic) under public law	None	
Leadership, decisions making	Co-operative	Mix of co- operative and hierarchy	Position of top-manager intensified	New top- manager brought new style (more hierarchic)
People	70 % special- ists	50 % special- ists	Number of specialists reduced	
Patterns of organisation	Matrix – customer orientated	Function orientated	More hierar- chical	New boss
Culture/ traditions	Humans in front – collegi- al, familiar	Partnership – some people feel uncertain	Economic aspects more important	
Values: ideal boss, employ- ee	B: loyal, team orientated, understanding E: team orien- tated, coopera- tive, adaptive	B: just, honest, transparent, precise E: honest, loyal, critical, communica- tive, able to accept deci- sions	More hierarchy orientated	
Communica- tion	Meetings, personal contacts, internet, doc- umentations, journals Making pro- posals	Documenta- tions, journals, internet, meet- ings Making pro- posals	Increased orientation towards writ- ten forms	New culture Managers evaluate quality of communica- tion higher

		T: increasing -		
Finance: Turnover, cash flow, profit	T: increasing CF: launching cost – minimal P: investments	no results of departments CF: minimal P: investments – payback to holding		
Resources: people, fi- nance, time	P: high region- al unemploy- ment F: starting capital by holding T: some organ- isational problems – shift and weekend working	P: high region- al unemploy- ment F: demand for increasing independence T: often not enough time (pressure to save) – addi- tionally: shift and weekend working	Demand for increasing independence forces pressure	Holding has also financial problems
Society: Public, spon- soring	Town and its elderly citizens – public res- taurant	Citizens of socially weak region		
Society: Legislation	Health care	Health care		
Society: Associations	Christian care association	Christian care association		
Economy: Innovation, agility, PR	I: psychiatry A: resident orientation PR: advertise- ments, mouth- to-mouth	I: integration of relatives A: resident orientation PR: meetings, networking, advertise- ments, open house	I: integration of relatives PR: new ideas	
Economy: Market posi- tion, geo- graphical range	MP: niche GR: region	MP: niche GR: region	Minimal	
Economy: Customers - competitors	People from town and region Feedbacks by interviews, meetings Few competi- tors	Inhabitants and relatives – employees Feedbacks by interviews, meetings Intensive competition	Minimal Competition intensified	New private (low cost) compete-tors

Economy: Suppliers, partners	Holding part- ners, different externals – measuring according to importance Contracts, good relations	Holding part- ners, different externals Contracts, some are exchange-able (price orienta- tion)	Increasing price orienta- tion	Financial pressure
Economy: Financing	Starting capital by holding	Demand for increasing independence	Demand for increasing independence	Holding with propensity to save
Physical Environment: Sustainability	Energy and waste man- agement	Energy and waste man- agement	Minimal	Benchmarking within holding
Morality: Motivation	Tradition of Christian owner Inhabitants of town – com- mon responsi- bility	Tradition of Christian owner Customers in a socially disad- vantaged region – em- ployees	Minimal	
Morality: Specifications	To be an example (4.0), integra- tion/autonomy (2.9), openness (2.4), justice (2.1)	To be an example (3.5), openness (3.3), lifelong learn- ing (2.3), private/ leisure (2.1), loyalty (2.0)	Integration / autonomy became unim- portant	New manage- ment style
Morality: Sustainability, codification	Mission state- ment (Chris- tian) Long-term vision	Mission state- ment in revi- sion (vision of holding im- portant) Temporary contracts (employees, suppliers) provoke uncer- tain-ness	Increasing uncertain-ness	New politics of holding
Mgmt System: Mission/ strategies, statement	Optimum for inhabitants – forcing psychi- atric issues Education of employees	Optimum for inhabitants Transparency and some co- deciding	Some decrease of employees' integration	New manage- ment
Mgmt System: Range, for- mality	Quality manual – ISO 9001 planned – integration of employees	Quality manual – use of model planned – some integra- tion of em- ployees	New orienta- tion	New manage- ment

Mgmt System: Q: definition, - methods - praxis	Harmony between inhabitants and employees – collaboration	Attaining goals of management – commitment	More hierar- chical	New manage- ment
Mgmt System: Controlling, risk mgmt.	Controlling by co-operation Projects within holding	Controlling by communica- tion on differ- ent levels Projects within holding	More hierar- chical	New manage- ment
Mgmt System: Knowledge mgmt.	Ongoing education, innovation	Unclear	No clear position	New manage- ment
Mgmt System: Comprehen- siveness	Company system with high integra- tion	Company system with hierarchical orientation	Decreasing employee integration	New manage- ment

## **Problems:**

• New manager destabilises employees and provokes decreasing integration.

## Specific changes between the two rounds of interviews:

- New (external) manger forces hierarchical orientation, probably supported by holding
- Communication: Increased orientation towards written forms
- Finance: Demand for increasing independence
- Temporary contracts (employees, suppliers) provoke uncertainness

- Morality as basic element (Christian institution)
- Environment important
- Interplay of elements decreased with new management

Country: Germany, Middle Bavaria Size: small (31) / (32) No. of interviewed: 7/8 Industry: Service: nursing home Foundation/history: old castle (built in 1551) – 1899 bought by nuns

(1000, 1000, 1) ou cashe (built in (1551) = 1099 bought by huns

– 1922-1992 domestic science school – since 1945 nursing home
 – 1997 acquisition by actual owner – since 1997 increasing num-

ber of offered places (from 32 to 97)

	Round 1	Round 2	Changes	Comments
Ownership	Foundation (catholic) under public law	Foundation (catholic) under public law	none	
Leadership, decisions making	Co-operative, familiar – nuns: more authoritarian	Co-operative, familiar – nuns: authori- tarian style reduced (paral- lel to decreas- ing number of nuns)	Optimised	People unlike that director are responsible for two homes.
People	Nearly 2/3 specialists, apprentices – jointly respon- sible	Nearly 2/3 specialists, apprentices – jointly respon- sible	Minimal	
Patterns of organisation	Matrix – process and people orien- tated	Matrix – process and people orien- tated – increas- ing integration	Increasing integration	
Culture/ traditions	Christian background – to foster live, challenging – familiar	Christian background – respect, open, friendly, free of fear	More tangible	Increased integration

Values: ideal boss, employ- ee	B: social, methodologi- cal and profes- sional compe- tencies – having time E: competen- cies – jointly responsible, acting inde- pendently – profession as mission, high identity	B: social, methodologi- cal and profes- sional compe- tencies – having time – shows strength of character E: competen- cies – jointly responsible, acting inde- pendently – profession as mission, high identity	B: strength of character	
Communica- tion	Many meet- ings, personal contacts – literature, internet Communica- tive partner- ship	Many meet- ings, personal contacts – literature, internet Communica- tive partner- ship	Intensified	
Finance: Turnover, cash flow, profit	T: increasing, more capacity CF: balanced – more inhabit- ants reduce fixed cost P: investments	T: increasing, fully booked CF: increasing – more inhab- itants reduce fixed cost P: investments	CF: increasing	CF: reduced, if many inhabit- ants die
Resources: people, fi- nance, time	P: specialists F: holding, inhabitants, public, insur- ances T: shift and weekend working	P: specialists F: inhabitants, public, insur- ances T: shift and weekend working	F: increasing independence from holding	
Society: Public, spon- soring	People in need of care – public restau- rant	People in need of care – public restau- rant, Christmas market	Minimal	
Society: Legislation	Health care, business inspectorate	Health care, business inspectorate	Minimal	
Society: Associations	Christian, industry, cultural	Christian, industry, cultural		

Economy: Innovation, agility, PR	I: Optimisation of building A: comprehen- siveness PR: feedback, reports, adver- tisements, internet, hospi- tals	I: new groups of customers A: comprehen- siveness PR: holding, reports, inter- net, hospitals	I: New groups of customers PR: Activities of holding	
Economy: Market posi- tion, geo- graphical range	MP: good reputation GR: region, supra-region	MP: good position (mid- dle price) GR: region, supra-region	optimised	
Economy: Customers – compete-tors	Region: people in need of care and/or dement Supra-region: chronically dependent people Relatives Competitors: some public	Region: people in need of care and/or dement Supra-region: chronically dependent people Relatives Competitors: cheap private homes	Enlarged Intensified competition	Quality as differentiation
Economy: Suppliers, partners	Different, some co- operation	Part of pur- chasing organ- isation, part- nership	Concentration	
Economy: Financing	Holding, inhabitants, public, insur- ances	Inhabitants, public, insur- ances	Holding activi- ty reduced	
Physical Environment: Sustainability	Material/waste management, energy optimi- sation Long term orientation	Material/waste management, energy optimi- sation intensi- fied Long term orientation	Energy optimi- sation intensi- fied	Old buildings ask for ongo- ing optimisa- tion
Morality: Motivation	Tradition of Christian owner Public social orientation absolutely in front – econo- my as basis, ecology im- portant	Tradition of Christian owner Public social orientation absolutely in front – econo- my as basis, ecology im- portant		

Morality: Specifications	To be an example (3.6), justice (3.1), openness (2.5), family/leisure (2.0), integra- tion/autonomy (1.9)	Lifelong learning (2.4), openness (2.4), flexible (2.3), justice (2.2), to be an example (2.1), health (2.1)	Larger distri- bution of values	People had more time for reflection.
Morality: Sustainability, codification	Long-term orientation Christian background (holding) – mission state- ment	Long-term orientation Christian background (holding) – mission state- ment – some constraints because of social legisla- tion	Some con- straints be- cause of social legislation	Legal con- straints
Mgmt System: Mission/ strategies, statement	Comprehen- sive, customer orientated – optimisation of culture and buildings – co- operation with external part- ners	Christian care for different sorts of people needing care – ongoing opti- misation of training and buildings – co- operation with external part- ners intensified	Christian issues and co- operation intensified	
Mgmt System: Range, for- mality	Internal stand- ards – ISO 9001 as option – integration of employees	Internal stand- ards optimised – ISO 9001 in preparation – integration of employees intensified	Integration intensified	
Mgmt System: Q: definition, - methods - praxis	Customers satisfied – intensive relations, optimal behav- iour	Quality of life, customers satisfied – optimal behav- iour and rela- tions – regular measuring	Integration intensified	
Mgmt System: Controlling, risk mgmt.	C: financial, insurances RM: financial, insurances – long term	C: financial, insurances RM: financial, insurances – long term – benchmarking	Bench- marking	Mainly finan- cial

Mgmt System: Knowledge mgmt.	Ongoing trainings	Ongoing trainings – to be prepared for additional groups of customers	Specification	
Mgmt System: Comprehen- siveness	Comprehen- sive mission and corre- sponding activities	Comprehen- sive mission and corre- sponding activities	Intensified	

## **Highlights:**

• Quality of services as differentiation

### **Problems:**

- Director is responsible for two homes people unlike it
- Energy optimisation: castle with high rooms and large stare ways

### Specific changes between the two rounds of interviews:

- Leadership became less hierarchical
- Optimisation of buildings for additional groups of customers
- Trainings intensified
- Finance: Holding activity reduced
- Energy optimisation intensified
- Strategy: Christian issues and co-operation intensified

#### Specific changes between the two rounds of interviews:

• In spring 2007, the director became top-manager of a group of hospitals

- Intensive interplay of all three elements
- Ongoing development with integration of employees

*Country:* Germany, Baden-Wurttemberg *Size:* small (38) / (38) *No. of interviewed:* 7/7

Industry: Service: nursing home

*Foundation/history:* 1929 House bought from local community, mother house of missionary province – convalescence home for mothers – 1974 new building (after fuel) – since 1976 home for elderly people – since 1995 actual owner: number of beds increased (20 %), still some nuns working in

	Round 1	Round 2	Changes	Comments
Ownership	Foundation (catholic) under public law	Foundation (catholic) under public law		
Leadership, decisions making	Mainly co- operative – nuns with trend to hierar- chical style	Mainly co- operative – nuns with trend to hierar- chical style	Minimal	
People	More than half: specialists – quality in front – appren- tices	More than half: specialists – quality in front – appren- tices	Minimal	
Patterns of organisation	Matrix – inhabitants orientated	Matrix – inhabitants orientated – process orien- tation, em- ployees' integration	Process orien- tation, em- ployees' integration	Employee's integration slowly increas- ing
Culture/ traditions	Christian background: heal and help – to foster live, take chances - familiar	Christian behaviour – respect, open, friendly, free of fear – collegial, friendly, conflict con- scious	More tangible	

Values: ideal boss, employ- ee	B: social, methodologi- cal and profes- sional compe- tencies – having time E: competen- cies, jointly responsible, acting inde- pendently – profession as mission, high identity	B: social, methodologi- cal and profes- sional compe- tencies – having time – show strength of character E: competen- cies, jointly responsible, acting inde- pendently – profession as mission, high identity	B: strength of character	Number of German nuns decreasing (young nuns from India)
Communica- tion	Many meet- ings, personal contacts – literature, internet Cooperative behaviour	Many meet- ings, personal contacts – literature, internet Cooperative behaviour	Cooperative behaviour decreasing	
Finance: Turnover, cash flow, profit	T: increasing (because of capacity) CF: positive (fixed cost can be shared) P: renovation of buildings	T: positive CF: positive (high standard) P: new build- ings, new medical prod- ucts	Increased capacity	
Resources: people, fi- nance, time	P: specialists F: holding, inhabitants, public, insur- ances T: shift and weekend working	P: specialists F: inhabitants, public, insur- ances T: shift and weekend working	F: activity of holding re- duced	
Society: Public, spon-	Region, local community,	Region, local community,	Minimal	
soring Society: Legislation	inhabitants Health care, business inspectorate	inhabitants Health care, business inspectorate	Minimal	
Society: Associations	Christian care, industry	Christian care, industry	Minimal	

Economy: Innovation, agility, PR Economy:	I: comprehen- sive care A: employees, optimisation of buildings PR: reputation, internet, adver- tisements, associations,	I: additional groups of inhabitants A: employees, optimisation of buildings PR: holding, advertise- ments,		
Market posi- tion, geo- graphical range	MP: reputa- tion, inhabit- ants in front GR: region	MP: Christian background GR: region	Christian issues in- creased	
Economy: Customers - competitors	People from region Regular adapted feed- backs Intensive competition (public, pri- vate)	Inhabitants and relatives Intensive Regular con- tacts to (pub- lic) competi- tors	Minimal Contacts to competitors	
Economy: Suppliers, partners	Different – some co- operation	Part of pur- chasing organ- isation - part- nership	Concentration	
Economy: Financing	Holding, inhabitants, public, insur- ances	Inhabitants, public, insur- ances	Activity of holding re- duced	
Physical Environment: Sustainability	Energy optimi- sation, waste management Long term	Energy optimi- sation, waste management Long term	Minimal	Sustainable responsibility
Morality: Motivation	Tradition of Christian owner Activity orien- tated – social issues in front (inhabitants, employees, city), environ- ment	Tradition of Christian owner Activity orien- tated – social issues in front (inhabitants, employees, city), environ- ment	Minimal	

		To be an		
Morality: Specifications	Justice (3.6), to be an example (3.4), openness (2.9), health (2.4), fami- ly/leisure (2.3), integration / autonomy (1.9), lifelong learning (1.9)	example (3.3), justice (3.3), family/leisure (3.1), integra- tion/autonomy (2.3), compli- ance (2.3), loyalty (2.1), openness (2.1), health (2.0)	Larger distri- bution of values – more importance for family / leisure	People had more time for reflection.
Morality: Sustainability, codification	Industry ethics, holding re- quirements, mission state- ment, long term orienta- tion	Industry ethics, holding re- quirements, mission state- ment, long term orienta- tion	Minimal – adapted to ongoing social decline	
Mgmt System: Mission/ strategies, statement	Comprehen- sive care, integration of relatives – ongoing adap- tion of systems and building	Christianity based care, additional offers, com- prehensive – ongoing adap- tion of systems and building	Additional offers – ongo- ing optimisa- tion	
Mgmt System: Range, for- mality	ISO 9001 – from minimal use to ongoing implementa- tion	ISO 9001 – trend to circu- larity and integration	Trend to circularity and integration	Renewal of certification
Mgmt System: Q: definition, - methods - praxis	Satisfaction of customers and employees – ongoing pro- fessional-ism	Satisfaction of customers – high profes- sionalism	Minimal	
Mgmt System: Controlling, risk mgmt.	C: mainly financial RM: financial, conceptual	C: mainly financial RM: coverage by holding, benchmarking	RM: bench- marking	
Mgmt System: Knowledge mgmt.	Ongoing trainings	Ongoing trainings – especially for additional services	Concentration on additional services	
Mgmt System: Comprehen- siveness	Motivated employees	Increasing circularity and integration	Increasing circularity and integration	Highly moti- vated people

## **Highlights:**

• Highly motivated people

## **Problems:**

• Energy optimisation: Relatively old buildings

## Specific changes between the two rounds of interviews:

- Renewal of ISO 9001 recertification
- Increasing circularity and integration
- Organisation: increasing integration of employees
- Finance: decreasing activity of holding
- Additional services

## Specific changes between the two rounds of interviews:

• In spring 2007, director became top-manager of a group of hospitals.

- Intensive interplay of all issues
- Basing on highly motivated people
- Management system: increasing circularity and integration

Country: Switzerland

Size: medium (114) / (119) - many part-time

No. of interviewed: 11/12

Industry: Service: nursing home

*Foundation/history:* 1967 new foundation for patients with chronic diseases (buildings of former hospital) – 2004 new top manager (follower of a long-term caretaker) – 2005 new additional building

	Round 1	Round 2	Changes	Comments
Ownership	Foundation	Foundation	None	
Leadership, decisions making	Mainly part- nership – partly unclear No clear distinction between strategy and operation	Communica- tive Knowledge, respect, team orientated – partly working	New style – theoretical	New boss trying new issues People with difficulties to adapt leave
People	Half specialists	Half specialists	None	
Patterns of organisation	Department orientated, function orientated	Trend to matrix - sub departments, function orientated	Trend to matrix – sub departments	New boss
Culture/ traditions	Openness, familiar, self- development	Openness – sometimes unclear	New trend – unclear	New boss
Values: ideal boss, employ- ee	B: self- development, pedagogical E: flexibility, ready for learning	B: high identi- fication with job – self- critical, ethical E: high identi- fication with job, self- critical, ethical, consistent	Job orientation	New boss
Communica- tion	Meetings, standards Communica- tive	Meetings, clear standards Communica- tive, more hierarchical	More hierar- chical	New boss
Finance: Turnover, cash flow, profit	T: increasing CF: sufficient P: payoff	T: increasing CF: sufficient P: payoff	None	

		1	n	
Resources: people, fi- nance, time	P: mainly specialists, self-competent F: customers, insurances, public, founda- tion T: minimal – shift work, often part time	P: mainly specialists, self-competent F: customers, insurances, public, founda- tion T: minimal – shift work, often part time	None	
Society: Public, spon- soring	Regional home, contacts	Regional home, contacts – own restau- rant	Own restaurant	
Society: Legislation	Health and social	Health and social	None	
Society: Associations	Industry	Industry		
Economy: Innovation, agility, PR	I: communica- tion, new customers A: customer orientation PR: local journals, website, rela- tions	I: comprehen- sive offer A: customer orientation PR: local journals, relations	minimal	
Economy: Market posi- tion, geo- graphical range	MP: leader GR: regional	MP: leader GR: regional	Minimal	
Economy: Customers - competitors	Regional – regular feed- backs Minimal competition	Regional – systematic feedbacks Minimal competition	Systematic feedbacks	
Economy: Suppliers, partners	Pool with others	Cost orientated – local	Cost orientated	New boss
Economy: Financing	Customers, insurances, public, founda- tion	Customer, insurances, public, founda- tion	None	
Physical Environment: Sustainability	Energy, waste – basing on concept	Energy, waste – not systemat- ic	Not systematic	New boss

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Morality: Motivation	Tradition of foundation Social issues in front Customer, employee orientation	Tradition of foundation Social issues in front Customer, employee orientation	Minimal	
Morality: Specifications	Openness (3.1), to be an example (2.8), family/leisure (2.6), flexible (2.4), integra- tion / autono- my (2.1), justice (2.1), lifelong learn- ing (2.1)	Openness (2.9), to be an example (2.6), family/leisure (2.3), lifelong learning (2.3), justice (2.2)	Minimal	No influence of new boss
Morality: Sustainability, codification	Mission state- ment – com- prehensive	Mission state- ment to be revised – round-table principle	Round-table principle	
Mgmt System: Mission/ strategies, statement	Customer, employee orientation	Customer, employee orientation – more stringent	More stringent	New boss
Mgmt System: Range, for- mality	EFQM adap- tion for homes: minimally implemented – shop floor standards	New model in discussion: peer evaluation – shop floor standards	No specific system	New boss
Mgmt System: Q: definition, - methods - praxis	Quality of life, customer and employee orientation Communica- tion, respect	Customer and employee orientation, win-win Communica- tion, knowledge optimisation	Minimal	
Mgmt System: Controlling, risk mgmt.	C: financial, some effects by EFQM, meetings RM: demo- graphic devel- opment	C: financial, satisfaction RM: demo- graphic devel- opment	Minimal	
Mgmt System: Knowledge mgmt.	Adapted to new challenges	Adapted to new challenges – more sys- tematic	More system- atic	New boss

System: Comprehen-	EFQM, but ninimally mplemented	Round-table – minimally formalised	Round-table – minimally formalised	New boss
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• Round table principle for problem solving

### **Problems:**

• New boss brought more strength, aspiring a new culture

### Specific changes between the two rounds of interviews:

- New boss brought more strength, aspiring a new culture
- Employees insecure
- Trend to matrix organisation with sub departments
- Communication: more hierarchical
- Public restaurant
- Selection of suppliers: cost orientated
- Management system: round table principle with minimal formalisation

- Round 1: interplay with poorly implemented mgmt. system
- Round 2: minimally formalised, but practise and aim of integration (because of mission, boss and employees)

*Country:* Switzerland *Size:* micro (3) / (4) *No. of interviewed:* 2/3 *Industry:* Service: garage

*Foundation/history:* 1996 entrepreneurial spirit of owner family – 2002 Ltd (GmbH) – repair of cars, sale of special parts for cars, some sale of used cars

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – family	Ltd – family	None	
Leadership, decisions making	Cooperative, everyone knows his duties – final decisions by owner	Teamwork, respect, every- one knows his duties – final decisions by owner	Minimal	
People	Specialists	Specialists	None	
Patterns of organisation	Team orienta- tion, everyone knows all the duties – final decisions by owner	Team orienta- tion, everyone knows all the duties – final decisions by owner	None	
Culture/ traditions	Good relations, events	Good relations, events	Intensified	
Values: ideal boss, employ- ee	B: partner, motivator, flexible, open E: autono- mous, loyal, on schedule	B: boss of team E: autono- mous, jointly responsible	B: more strength E: more joint responsibility	ambivalent
Communica- tion	Meetings, feedbacks Intensive	Meetings, feedbacks Intensive	Minimal	
Finance: Turnover, cash flow, profit	T: variable CF: stagnation P: none	T: minimally decreasing CF: increasing P: investment, reduction of debt	Optimised	Better, basis of future devel- opment
Resources: people, fi- nance, time	P: specialists F: banks, own T: some pres- sure	P: specialists F: mainly own T: some pres- sure	F: mainly own	
Society: Public, spon- soring	Apprentices Intensive sponsoring	Apprentices Sponsoring reduced	Sponsoring reduced	No feedbacks of sponsored associations

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Society: Legislation	Car, safety	Car, safety	None	
Society: Associations	Industry	Industry – support	Minimal	
Economy: Innovation, agility, PR	I: new prod- ucts A: high knowledge PR: sponsoring	I: new prod- ucts A: high knowledge PR: mouth-to- mouth	PR: mouth-to- mouth	Minimal financial resources
Economy: Market posi- tion, geo- graphical range	MP: niche GR: region	MP: niche GR: region	Minimal	
Economy: Customers - competitors	Private Positive feed- backs Hard competi- tion	Private, some business Positive feed- backs Good relations to competitors	Some business customers Good relations to competitors (all having problems)	
Economy: Suppliers, partners	Partners, some dependency – principal agent for some products	Partners, some dependency – principal agent for some products	Minimal	
Economy: Financing	Mix of banks and own	Mainly own	Mainly own	
Physical Environment: Sustainability	Products, waste man- agement – high consciousness	Green cars, products, waste man- agement – high consciousness	Intensified	Common responsibility
Morality: Motivation	Personality of owners Social contacts – common responsibility	Personality of owners Triple bottom line – common responsibility	More compre- hensive to- wards triple bottom line	High con- scious-ness of owner
Morality: Specifications	To be an example (4), justice (4), co- responsible (4), fami- ly/leisure (3)	Justice (3), family/leisure (3), to be an example (3),	Minimal	Minimal number of interviewees
Morality: Sustainability, codification	Not formal- ised, some ideas	Not formal- ised, some ideas	High common conscious-ness	

Mgmt System: Mission/ strategies, statement	Survival of company – good relations to customers and within company	Survival of company – good relations to customers and within company – adequate	Adequate strategies	
Mgmt System: Range, for- mality	Safety – ongo- ing adapted – standards of partners	Safety – ongo- ing adapted – standards of partners	Minimal	Bad image of ISO 9001: no guarantee of quality
Mgmt System: Q: definition, - methods - praxis	Good people make good work – cus- tomer and people satis- faction	Good work, no stress – cus- tomer and people satis- faction	Minimal	
Mgmt System: Controlling, risk mgmt.	Financial, discussions in family	Financial, discussions in family	Minimal	
Mgmt System: Knowledge mgmt.	Ongoing trainings	Ongoing trainings	Minimal	Co-operation with partners
Mgmt System: Comprehen- siveness	Minimal formalisation, but quite adequate	Minimal formalisation, but quite adequate	Minimal	

- Spirit of owners
- Team orientation, respect
- Good internal and external relations

# Specific changes between the two rounds of interviews:

- Relations intensified
- More joint responsibility e.g. towards physical environment
- Sponsoring reduced because of missing feedbacks of associations
- Training in co-operation with partners

### Interplay of morality, mgmt.-system and environment:

• Intensive, but minimal formalisation

Country: Switzerland Size: Micro (8) / (7) No. of interviewed: 3/3 Industry: Services: garage Foundation / history: 1993 acquisition of existing company – entrepreneurial spirit – since 1999 new site – sales and repair of cars (different models)

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – owned by manager	Ltd – owned by manager	None	
Leadership, decisions making	Cooperative – final decisions by owner	Cooperative, more stringent – final deci- sions by owner	More stringent	
People	Specialists	Specialists	None	
Patterns of organisation	Departments, function orientated	Departments, function orientated	None	
Culture/ traditions	Common spirit – events	Common spirit, even by discord	Concretised	
Values: ideal boss, employ- ee	B: friendly, ability to assert oneself E: cooperative, enthusiastic	B: no stress, no conflicts E: friendly, authentic	Less emotional	Intensive workload
Communica- tion	Meetings, handbooks, standards Personal relations	Handbooks, standards Personal relations	Less meetings	Intensive workload
Finance: Turnover, cash flow, profit	T: increasing CF: satisfying P: investment	T: mixed (less sales) CF: good P: investment	minimal	
Resources: people, fi- nance, time	P: specialists F: mainly own T: some pres- sure	P: specialists F: mainly own T: pressure intensified	T: pressure intensified	
Society: Public, spon- soring	Regional projects, sponsoring	Regional projects, sponsoring	Intensified	
Society: Legislation	Cars, safety	Cars, safety	Minimal	
Society: Associations	None	None	No	

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Economy: Innovation, agility, PR Economy:	I: knowledge A: knowledge PR: internet, advertise- ments, spon- soring, cars	I: knowledge A: knowledge PR: internet, advertise- ments, spon- soring, cars	Minimal	
Market posi- tion, geo- graphical range	MP: only representative of model GR: region	MP: only representative of model GR: region	Minimal	
Economy: Customers - competitors	Private, partly business Good relations Many competi- tors, but in contact	Private, partly business Good relations Many competi- tors, but in contact	Minimal	
Economy: Suppliers, partners	Model produc- ers Good relations, but depend- ence	Model produc- ers Good relations, but depend- ence	Minimal	
Economy: Financing	Mainly own assets	Mainly own assets	Minimal	
Physical Environment: Sustainability	Waste man- agement, recycling, water protec- tion	Waste man- agement, recycling, water protec- tion	Minimal	Following legal require- ments
Morality: Motivation	Personality of owner Social respon- sibility – region, guaran- tee of work- place	Personality of owner Social respon- sibility – region, guaran- tee of work- place	Minimal	
Morality: Specifications	Family/leisure (3.0), to be an example (2.7), health (2.7), openness (2.3), flexible (2.0)	Good image (2.5), openness (2.2), lifelong learning (2.2)	More company orientated	
Morality: Sustainability, codification	None – some from industry	Reflections of owner – some from industry	Reflections of owner	
Mgmt System: Mission/ strategies, statement	Comprehen- sive customer orientation	Comprehen- sive customer orientation – employee integration	Employee integration	

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Mgmt System: Range, for- mality	Safety – model standards	Safety – model standards intensified	Model stand- ards intensified	ISO 9001 not needed
Mgmt System: Q: definition, - methods - praxis	Mix of satis- faction (cus- tomers, owner, employees) Optimal work	Mix of satis- faction (cus- tomers, owner, employees) Optimal work, but time pres- sure	Time pressure	
Mgmt System: Controlling, risk mgmt.	C: daily finan- cial RM: minimal	C: daily finan- cial RM: failure management	Failure man- agement	
Mgmt System: Knowledge mgmt.	Ongoing trainings	Ongoing trainings	Intensified	
Mgmt System: Comprehen- siveness	Model stand- ards – use quite compre- hensive	Model stand- ards – use quite compre- hensive	Intensified	

• Concentration on owner, some integration of people

### **Problems:**

• Intensive workload impedes optimisation of system and integration of employees

#### Specific changes between the two rounds of interviews:

• Generally intensified, but more time pressure

### Specific developments after the 2nd round:

• Minimal

- Quite intensive interplay of morality and mgmt.-system with ongoing formalisation
- Activity concerning the physical environment fulfils legal requirements.

Country: Switzerland Size: Micro (5) / (5) No. of interviewed: 3/3 Industry: Service: consumer electronics Foundation / history: 1962 founded by father of owner – 1976 takeover by son (parents as employees)

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – family	Ltd – family	None	
Leadership, decisions making	Familiar (boss as elder broth- er) – main decisions by owner	Familiar (boss as elder broth- er) – main decisions by owner	Minimal	
People	Specialists	Specialists	None	
Patterns of organisation	Departments, function orientated – supported by boss	Departments, function orientated – supported by boss	None	
Cultu- tu- re/traditions	Familiar, harmony, regular events	Familiar, harmony, regular events	None	
Values: ideal boss, employ- ee	B: mutual trust – free with guide board E: happy with work and leisure – customer orientation, sound	B: father, trust – guide board and support E: like critical son following the same aim	More familiar, patriarchal	
Communica- tion	Daily meetings – exchange of knowledge Partnership	Daily meetings – exchange of knowledge Partnership	Minimal	
Finance: Turnover, cash flow, profit	T: fluctuation – depends on products CF: decreasing P: investment - PR	T: fluctuation – depends on products CF: increasing P: investment	CF: increasing	New main product on market
Resources: people, fi- nance, time	P: specialists F: own assets T: some pres- sure	P: specialists F: own assets T: pressure intensified	T: pressure intensified	Boom

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Society:	G	Sponsoring –	Supporting	
Public, spon-	Sponsoring	supporting other SMEs	other SMEs	
soring Society:		other SMEs		
Legislation	Education	Education	Minimal	
Society:	Industry,	Industry,		
Associations	region	region	Minimal	
Associations	I: ongoing	I: ongoing		
	trainings	trainings		
Economy:	A: ongoing	A: ongoing		
Innovation,	trainings	trainings	Minimal	
agility, PR	PR: mouth-to-	PR: mouth-to-	Willing	
uginty, i it	mouth, adver-	mouth, adver-		
	tisements,	tisements,		
	mailings	mailings		
Economy:	MD: Micho	MD: Misha		
Market posi- tion, geo-	MP: Niche, high quality	MP: Niche,		
tion, geo- graphical	GR: region	high quality GR: region		
range	OK. Tegion	OK. Tegion		
1 unge		Mainly private	<u> </u>	
Economy:	Mainly private	Discounters	NT 1	
Customers -	Discounters	are hard com-	Niche as alternative	
competitors	are hard com-	petitors - niche		
	petitors	as alternative		
		Producers,		
Economy:	Producers,	good relations	Increasing	
Suppliers,	good relations	- increasing	margin pres-	
partners	good relations	margin pres-	sure	
E		sure		
Economy: Financing	Own assets	Own assets	None	
	Customer	Customer		
Physical	consulting,	consulting,	2.1	
Environment:	waste man-	waste man-	None	Consulting
Sustainability	agement	agement		
	Personality of			
	owner family	Personality of		
Morality:	Social respon-	owner family	Economy as	Economic
Motivation	sibility –	Economy as	basis for	pressure
	growing	basis for	survival	r
	importance of ecology	survival		
	To be an	To be an		
	example (2.7),	example (3.0),		
Morality: Specifications	private/leisure	loyalty $(2.3)$ ,		
	(2.7), justice	flexible $(2.3)$ ,	More company	
	(2.7), good	responsible	orientation	
	image $(2.0)$ ,	(2.0), openness		
	openness (2.0)	(2.0)		
Morality:	Customer	Customer		
Sustainability,	orientation -	orientation -	Minimal	
codification	not formalised	not formalised		

Mgmt System: Mission/ strategies, statement	High quality and reasonably price – cus- tomer orienta- tion Networking, trainings, consulting	High quality and reasonably price – cus- tomer orienta- tion Networking, trainings, consulting	Minimal	
Mgmt System: Range, for- mality	Minimal	Some supplier standards – good work	Supplier standards	
Mgmt System: Q: definition, - methods - praxis	High quality products – good work, planning	High quality products – good work, consulting	Minimal	
Mgmt System: Controlling, risk mgmt.	C: financial, monthly RM: not possible	C: financial, monthly RM: minimal turnover – future products	RM: minimal turnover – future products	
Mgmt System: Knowledge mgmt.	Ongoing trainings	Ongoing trainings	Minimal	
Mgmt System: Comprehen- siveness	Minimally formalised, but quite compre- hensive	Minimally formalised, but quite compre- hensive	Minimal	

- Familiar (boss as elder brother)
- Support for other SMEs
- Physical environment: consulting of customers

### **Problems:**

• Discounters are hard competitors, niche products as alternative

### Specific changes between the two rounds of interviews:

- Generally intensified
- Use of supplier standards

- Intensive interplay
- Minimal formalisation
- Familiarity as basis

Country: Switzerland Size: small (10) / (11) No. of interviewed: 4/4 Industry: Services: trading of food Foundation/history: 1975 – founder wanted to become independent – actual owner since 2003 (son of founder still in company)

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – family	Ltd – family	None	
Leadership, decisions making	Cooperative, very free – final decisions by owner	Cooperative, very free – final decisions by owner	Minimal – more freedom	
People	Specialists – some high qualified	Specialists – some high qualified	Qualification intensified	Larger market needs addi- tional people.
Patterns of organisation	Function orientated – often multi- functional	Function orientated – often multi- functional	Optimised	
Culture/ traditions	Good mix of people, friend- ly, open	Good mix of people, friend- ly, open – to be optimised	To be opti- mised	Boom
Values: ideal boss, employ- ee	B: difficult to define E: exact, authentic, fair, good behav- iour	B: autonomous E: exact, motivated – ready for ongoing train- ing	Enlarged	
Communica- tion	Internet, contacts with customers, meetings Partnership, intensive	Internet, contacts with customers, meetings Partnership, intensive	optimised	
Finance: Turnover, cash flow, profit	T: intensively increasing CF: intensively increasing P: re- investment	T: intensively increasing CF: increasing P: financing of growth	Ongoing growth	

Resources: people, fi- nance, time	P: specialists – some with high quality F: 60 % own T: some pres- sure	P: specialist – some with very high quality F: nearly all own T: some pres- sure	P: quality optimised	Additional people
Society: Public, spon- soring	Suppression of child work – some sponsor- ing	Suppression of child work – some sponsor- ing	Minimal	
Society: Legislation	Food, industry	Food, industry	Intensified	
Society: Associations	Industry	Industry	Intensified	
Economy: Innovation, agility, PR	I: new prod- ucts A: knowledge PR: known - mailings	I: new prod- ucts A: knowledge PR: mouth-to- mouth – mail- ings	Minimal	
Economy: Market posi- tion, geo- graphical range	MP: largest assortment GR: national	MP: partly leader, partly niche GR: national	Intensified	
Economy: Customers - competitors	Processors – regular feed- backs Some competi- tors – in con- tact	Processors, always the same – feed- backs Competition intensified	Competition intensified	
Economy: Suppliers, partners	Open for all – regular con- trols, meetings	Selected – long relations – audits	Selected – long relations – audits	
Economy: Financing	60 % own	Nearly all own	Optimised	
Physical Environment: Sustainability	Internal: material, energy External: transports, way of production	Internal: material, energy External: transports, way of production	Intensified	High responsi- bility
Morality: Motivation	Personality of owner and people Social and ecological, triple bottom line	Personality of owner and people Social and ecological, triple bottom line	Intensified	

Morality: Specifications	Health (3.0), family/leisure (2.8), justice (2.5), to be an example (2.3), responsibility (2.0), planning (2.0)	Justice (2.8), to be an example (2.5), compli- ance (2.5), family/leisure (2.3)	Larger distri- bution of moral specifi- cations	
Morality: Sustainability, codification	Existing not formalised	Mission state- ment – com- prehensive	Mission state- ment – com- prehensive	Statement is applied.
Mgmt System: Mission/ strategies, statement	Good image – financial basis, growth	Long term orientation – cooperation with customers	Cooperation with customers	Solid basis
Mgmt System: Range, for- mality	ISO 9001/14001, GMP Cooperation with consultant	ISO 9001/14001, GMP, product labels Cooperation with consultant	Intensified, integrated circularity	
Mgmt System: Q: definition, - methods - praxis	Good product and work – customer support	Clear product definitions Regular con- trolling, good work	Intensified	
Mgmt System: Controlling, risk mgmt.	Owner and partner – financial, standards	Owner and partner – financial, standards	Minimal	Relations between issues unclear
Mgmt System: Knowledge mgmt.	Ongoing training	Ongoing training – intensified	Intensified	
Mgmt System: Comprehen- siveness	Different issues, com- prehensive – integration by owner / partner and employees	Different issues, com- prehensive – integration by owner / partner and employees	Intensified	Circularity

# **Highlights:**

- Cooperative, large freedom of action
- Ongoing growth
- Prevention against child labour

# Specific changes between the two rounds of interviews:

• Integration intensified

• Intensive co-operation with suppliers/partners

# Interplay of morality, mgmt.-system and environment:

• Intensive interplay, very comprehensive – circularity

Country: Switzerland Size: micro (6) / (6) No. of interviewed: 4/4 Industry: Services: public relations Foundation/history: 1981 aim to become autonomous – later: with partner – 1994 merger with third partner

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – partners	Ltd – partners	None	
Leadership, decisions making	Partnership – team, trust – but 3 bosses with different stiles Semi-yearly partner meet- ings for gen- eral aims – projects with employees	Partners in team – team with employ- ees – but 3 bosses with different stiles Semi-yearly partner meet- ings for gen- eral aims – projects with employees	Integration of employees intensified	Nearly all former em- ployees have left.
People	All specialists, optimal mix	All specialists, optimal mix	Optimised	
Patterns of organisation	Partner and project orienta- tion – execu- tive changing every year – departments	Partner and project orienta- tion – execu- tive changing every year – departments	Optimised	
Cultu- tu- re/traditions	Internal and external events	Internal and external events – friendly	Friendly	
Values: ideal boss, employ- ee	B: example, able to take criticism E: technical knowhow, spontaneous, creative, communicative	B: clear, constitutive E: extraverted, creative, cooperative	More coopera- tion, creative spirit	
Communica- tion	Meetings – integration of customers and employees – internet Not enough bottom-up	Open eyes, meetings – handbooks Integration of employees improved	Integration of employees improved	

Finance: Turnover, cash flow, profit	T: increasing CF: little increasing P: to be mini- mised (taxes)	T: increasing CF: increasing P: to be mini- mised (taxes)	Minimal	
Resources: people, fi- nance, time	P: mix of specialists F: only own assets T: some pres- sure	P: mix of specialists F: only own assets T: minimal pressure	Minimal	
Society: Public, spon- soring	Social projects, support of public culture	Sponsoring, support of public culture	Minimal	
Society: Legislation	minimal	Requirements of post offices		
Society: Associations	Regional	Regional	Minimal	
Economy: Innovation, agility, PR	I: new media A: knowhow PR: relations, own journal	I: new media A: knowhow PR: relations, own journal	Minimal	
Economy: Market posi- tion, geo- graphical range	MP: niche GR: supra regional	MP: niche GR: supra regional	none	
Economy: Customers - competitors	Small to medium com- panies, long term relations, feedbacks Competitors: in contact	Small to medium com- panies, long term relations, feedbacks Competitors: good relations	Good relations to compete- tors	
Economy: Suppliers, partners	Regional partners (changing) – technical specialists	Reduced (technical progress) – good relations	Technical progress: many activities in- house	
Economy: Financing	Only own assets	Only own assets	None	
Physical Environment: Sustainability	Energy, mate- rial use – consulting	Energy, mate- rial use – consulting: reduction of paper, internet	Consulting: reduction of paper, internet	
Morality: Motivation	Personality of owners and people Triple bottom line – support of public culture	Personality of owners and people Triple bottom line – support of public culture	Minimal	

	Private/leisure (3.3), justice	Integra-		
Morality: Specifications	(3.0), to be an example (2.5), flexible (2.5), lifelong learn- ing (2.3), integration / autonomy (2.0)	tion/autonomy (3.0), chal- lenge (3.0), private/leisure (2.5), flexible (2.5), justice (2.3)	Internal values became more important	New employ- ees
Morality: Sustainability, codification	Mission state- ment: people for people, creativity	Mission state- ment: people for people, creativity	Minimal	
Mgmt System: Mission/ strategies, statement	Efficient, creative – basis for life Enough time	Demanding work, enlarg- ing range, keep customers Long term, good culture	Growth, long term, internal culture	
Mgmt System: Range, for- mality	Company handbook with standards	Company handbook with standards	Enlarged, optimised	Comprehen- sive
Mgmt System: Q: definition, - methods - praxis	Perfected ideas, techni- cally optimal implemented, optimal price Communica- tion in team and with customers	Right ideas for the right customer Meetings, ongoing con- trolling	Minimal	Comprehen- sive
Mgmt System: Controlling, risk mgmt.	C: partners, within projects RM: partners	C: partners, within projects (daily) RM: partners (no calcula- tion)	Minimal	Link between finance and other issues has to be reflected.
Mgmt System: Knowledge mgmt.	Ongoing analysis and training	Ongoing analysis and training	Intensified	
Mgmt System: Comprehen- siveness	Intensive with circularity, but minimal formalisation	Intensive with circularity, but minimal formalisation Integration of employees increased	Integration of employees increased	

# **Highlights:**

• Partner and project orientation

• Executive officer changing every year

### Specific changes between the two rounds of interviews:

- Integration of employees increased
- More cooperation and creative spirit
- Technical progress: many activities in-house
- Good relations to competitors

- Quite intensive interplay of the three issues
- But: minimal impact on physical environment some consulting
- Border/distance between partners and employees is ongoing reduced

Country: Switzerland Size: Micro (7) / (5) No. of interviewed: 4/4 Industry: Service: financial trustee Foundation/history: 1990: to become autonomous, planned since a long time – slow growth – 2005 partner

	Round 1	Round 2	Changes	Comments
Ownership	Ltd – founder	Ltd – partner	Partner	
Leadership, decisions making	Cooperative, clear require- ments Final decisions by founder, in contact with team leaders	Clear distinc- tion between partners and employees Common decisions of partners	Clear distinc- tion between partners and employees	Partner young serious lady
People	Specialists, some high qualified	Specialists, some high qualified	Minimal	Difficulties to find qualified people
Patterns of organisation	Team orientat- ed	Matrix	Matrix	Not enough employees to make teams
Culture/ traditions	Few meetings	Few meetings Job orientation	Minimal	Job orientation
Values: ideal boss, employ- ee	B: professional expert, cooper- ative, motiva- tor, decisive E: professional specialist, autonomous, ready to take responsibility, loyal	B: authentic, example, supportive E: open, readiness for development, learning and overtaking duties	Division between partners and employees	
Communica- tion	Regular meet- ings, intranet, library, train- ings, QMS Proposals are welcome	Intranet, library, train- ings, QMS, dialogue with collaborators Proposals are welcome	Because of reduced num- ber: direct dialogues	Because of reduced num- ber: direct dialogues
Finance: Turnover, cash flow, profit	T: somewhat increasing CF: somewhat increasing P: financial reserve	T: reduced CF: balanced P: financial reserve	T: reduced number of people	

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Resources: people, fi- nance, time Society: Public, spon- soring	P: Specialists, some high qualified (difficult to find) F: own assets T: minimal pressure Activity in public organi- sations	P: Specialists, some high qualified (difficult to find) F: own assets T: increased pressure Activity in public organi- sations	T: not enough people Minimal	People prefer to work in a city
Society: Legislation	Tax, company	Tax, company	Minimal	
Society: Associations	Industry – president of region, expert for examina- tions	Industry – president of region, expert for examina- tions	Minimal	Maintenance of knowledge
Economy: Innovation, agility, PR	I: ongoing analysis of needs, training A: people PR: image, own journal, mailings	I: ongoing analysis of needs, training A: people PR: image, own journal, mailings, gifts	Minimal	Optimal mix
Economy: Market posi- tion, geo- graphical range	MP: one of leaders, niche GR: region	MP: one of leaders, niche GR: region	Intensified	
Economy: Customers - competitors	Mainly com- panies Feedbacks Competitors: good relations	Mainly com- panies Feedbacks Competitors: good relations, some coopera- tion	Competitors: some coopera- tion	
Economy: Suppliers, partners	Experts – long term relations	Experts – long term relations	Minimal	
Economy: Financing	Only own assets	Only own assets	Minimal	
Physical Environment: Sustainability	Minimal impacts (of- fice)	Minimal impacts (of- fice)	None	
Morality: Motivation	Personality of owner Future for employees, economy as basis for social activities	Personality of partners Future for employees, economy as basis for social activities	Minimal	

	Openness	Health (3.0), to		
Morality: Specifications	(3.3), integra- tion/autonomy (2.8), lifelong learning (2.8), private/leisure (2.5)	be an example (2.3), pri- vate/leisure (2.3), justice (2.3), openness (2.3)	Importance of external values intensified	One of the partners was ill.
Morality: Sustainability, codification	Industry, mission state- ment combined with BSC	Industry, mission state- ment combined with BSC	Minimal	
Mgmt System: Mission/ strategies, statement	Leader, basing on mgmt. system and integration	SME orientat- ed – leader- ship, use of mgmt. system		
Mgmt System: Range, for- mality	ISO 9001 combined with BSC: long term activities, supporting daily work	ISO 9001 combined with BSC: long term activities, supporting daily work	Minimal	Instrument for management Integration of employees could be optimised
Mgmt System: Q: definition, - methods - praxis	Correct work, according requirements	Useful work, free of failures, according requirements	Minimal	
Mgmt System: Controlling, risk mgmt.	BSC, other data – regular measurements – definition of risks	BSC, other data – regular measurements – definition of risks	Minimal	Comprehen- sive
Mgmt System: Knowledge mgmt.	Industry: president of region, expert for examina- tions – ongo- ing internal trainings	Industry: president of region, expert for examina- tions – ongo- ing internal trainings	Minimal	Excellent basis
Mgmt System: Comprehen- siveness	ISO 9001, integrated BSC - circularity	ISO 9001, integrated BSC - circularity	Minimal	Integration of employees not optimal

# **Highlights:**

• High professional partners (president of industry association, expert in examinations)

### Weaknesses:

• Not enough employees to build teams

#### **Problems:**

• Clear distinction between partners and employees

# Specific changes between the two rounds of interviews:

• Young lady as partner

- Intensive interplay
- Reduced with employees and physical environment

#### Country: Switzerland Size: small (29) / (30) No. of interviewed: 6/6 Industry: Services: bank Foundation/history: 1910 according Raiffeisen philosophy: invest money from village in village – 1999 merger of 4 local banks

	Round 1	Round 2	Changes	Comments
Ownership	Co-operative: owned by members	Co-operative: owned by members	None	
Leadership, decisions making	Mix of collegi- ality, patriar- chy and per- sonal responsi- bility Discrepancy between departments Decisions top- down	Officially democratic but increasingly hierarchic Decisions top- down (middle management excluded)	Increasingly hierarchic	Services of national head increasing: local banks loose compe- tences Organisational, financial optimisation
People	Specialists (half of them with higher education) – the right person on the right place	Specialists (half of them with higher education) – the right person on the right place	Minimal	
Patterns of organisation	Departments, function orientated	Departments, function orientated	Some differen- tiation	
Culture/ traditions	National Corporate Governance – not profit orientated – local specifica- tion: familiar teams, events	National Corporate Governance – not profit orientated – local specifica- tion: familiar teams, events	Differentiation depends on local manage- ment and team leaders	
Values: ideal boss, employ- ee	B: professional expert, loyal E: specialist, loyal, moral attitude	B: expert, moral attitude E: specialist, autonomous, loyal, with issues of a maverick	Minimal	

Communica- tion	Intranet, meetings – info flow often on demand	Intranet, meetings – info flow often on demand	Minimal	Hierarchy Centralisation
Finance: Turnover, cash flow, profit	T: increasing CF: increasing P: reserves	T: increasing CF: increasing P: reserves	Minimal	
Resources: people, fi- nance, time	P: Specialists (half of them with higher education) F: mix of money from co-operation, reserves, customers T: pressure	P: Specialists (half of them with higher education) F: mix of money from co-operation, reserves, customers T: pressure	Minimal	T: more work for same number of people
Society: Public, spon- soring	Sponsoring (local), bank of village	Sponsoring (local), bank of village	Minimal	
Society: Legislation	Banking	Banking	Intensified	Preventing risks
Society: Associations	Industry, industry near, local	Industry, industry near, local	Minimal	
Economy: Innovation, agility, PR	I: new prod- ucts, partners A: knowledge PR: intensive customer relations, sponsoring, advertisements	I: new prod- ucts, partners A: knowledge PR: intensive customer relations, sponsoring, advertisements	Minimal	
Economy: Market posi- tion, geo- graphical range	MP: second GR: local	MP: second GR: local	Minimal	
Economy: Customers - competitors	Private, SMEs – feedback survey One local competitor	Private, SMEs, few institutions – feedback survey One local competitor	Few institu- tions	Advantage of bad image of large institutes
Economy: Suppliers, partners	Co-operation with other bank and insurance	Co-operation with other bank and insurance	Minimal	To complete services

	MC C	M. C		
Economy: Financing	Mix of money from co- operation, reserves, customers	Mix of money from co- operation, reserves, customers	Minimal	
Physical Environment: Sustainability	External: support of associations, local compa- nies – eco- funds Internal: material (e- banking), energy	External: support of associations, local compa- nies – eco- funds Internal: material (e- banking), energy (travel- ling)	Minimal	
Morality: Motivation	Tradition: Bank of the village Offering jobs and education, good condi- tions for customers Economy as basis High aware- ness of people	Tradition: Bank of the village Offering jobs and education, good condi- tions for customers Economy as basis High aware- ness of people	Minimal	
Morality: Specifications	To be an example (3.3), compliance (2.3), pri- vate/leisure (2.3), justice (2.2), openness (2.2)	To be an example (2.7), private/leisure (2.7), openness (2.3), health (2.0)	Internal and external issues more balanced	Effect of timely pressure and centralisa- tion?
Morality: Sustainability, codification	Bank associa- tion – code of group, local directives	Bank associa- tion – code of group, local directives	Minimal	
Mgmt System: Mission/ strategies, statement	Bank with moral issues: customer, employee and objective orientation	Bank with moral issues: customer, employee and objective orientation		
Mgmt System: Range, for- mality	Local market- ing strategy Handbooks, standards	Local market- ing strategy Handbooks, standards - increasing	Increasing number of standards edited by head quarter	

Mgmt System: Q: definition, - methods - praxis	Long term customer and employee satisfaction Common responsibility Objectives for different levels	Long term customer and employee satisfaction Common responsibility Objectives for different levels	Minimal	
Mgmt System: Controlling, risk mgmt.	C: external: revision – internal: division be- tween activity and control RM: market, persons	C: external: revision – internal: division be- tween activity and control RM: market, persons	Minimal	
Mgmt System: Knowledge mgmt.	Ongoing analysis and trainings	Ongoing analysis and trainings	Minimal	
Mgmt System: Comprehen- siveness	Quite hierar- chical, team orientation	Quite hierar- chical and increasingly centralised, team orienta- tion	Increasingly centralised	Quite compre- hend-sive, increasingly centralised

• Local orientation

### **Problems:**

• Increasing centralisation

### Specific changes between the two rounds of interviews:

- Increasing centralisation
- Increasing time pressure

Specific developments after round 2:

- Increasing centralisation
- Increasing number of standards edited by head quarter
- More work for the same number of people
- Image problems because of unmoral attitudes of head quarter
- Customer relations increasingly professionalised and less relation orientated

### Interplay of morality, mgmt.-system and environment:

• Intensive interplay of all issues, threatened by centralisation

Country: Germany Size: small (45) / (50) (mainly drivers) No. of interviewed: 5/6 Industry: Service: coach tours, local transports Foundation/history: 1952 founded by parents of owners – 1987 son started to collaborate – ongoing expansion

	Round 1	Round 2	Changes	Comments
Ownership	Ltd - family	Ltd - family	None	
Leadership, decisions making	Familiar, cooperative – divergence in answers of drivers	Familiar, cooperative – concentration on owners		Divergence in answers of drivers
People	Management: higher educa- tion Drivers: differ- ent back- grounds	Management: higher educa- tion Drivers: differ- ent back- grounds	Minimal	
Patterns of organisation	Top manage- ment and departments: matrix – 2 subsidiaries, drivers	Top manage- ment and departments: matrix – 2 subsidiaries, drivers	None	
Culture/ traditions	Familiar, events – mini- mal standards	Familiar, events – per- sonal, even under pressure	Minimal	
Values: ideal boss, employ- ee	B: friendly, not only business- like, feeling for employees, trustful E: open	B: friendly, not only business- like, feeling for employees, trustful E: open	Minimal	
Communica- tion	Meetings, feedbacks of drivers	Meetings, feedbacks of drivers, discus- sion with colleagues	Minimal	
Finance: Turnover, cash flow, profit	T: stable CF: decreasing P: re- investment	T: increasing CF: decreasing P: re- investment	Minimal	CF: decree- sing because of petrol price

			r	1
Resources: people, fi- nance, time	P: Manage- ment: higher education Drivers: differ- ent back- grounds F: some own, mainly banks T: pressure (especially during busy seasons)	P: Manage- ment: higher education Drivers: differ- ent back- grounds F: some own, mainly banks T: pressure (especially during busy seasons)	Minimal	
Society: Public, spon- soring	Sponsoring, president of service club Guarantee of work	Sponsoring, president of service club Project in Eastern Europe Guarantee of work	Enlarged	
Society: Legislation	Traffic	Traffic	Minimal	
Society: Associations	Industry – leading posi- tion	Industry – leading posi- tion	Enlarged	
Economy: Innovation, agility, PR	I: new prod- ucts, collabora- tion A: knowhow of office and drivers PR: internet, catalogues, advertise- ments, articles in journals	I: new prod- ucts, custom- ers, collabora- tion A: knowhow of office and drivers PR: internet, catalogues, advertise- ments, articles in journals	Minimal – Increasing Chinese busi- ness	
Economy: Market posi- tion, geo- graphical range	MP: tours: leader GR: region, supra-regional	MP: tours: leader GR: region, supra-regional	Minimal	Public transport under financial pressure
Economy: Customers - competitors	Depends on service: indi- viduals, groups, public – regular surveys Hard competi- tion	Depends on service: indi- viduals, groups, public – regular surveys Hard competi- tion	Competition intensified	
Economy: Suppliers, partners	Partners (ho- tels, coaches), contracts	Partners (ho- tels, coaches), contracts	Intensified	

Economy	Some own,	Some own,		
Economy: Financing	mainly banks	mainly banks	Minimal	
Physical Environment: Sustainability	Material, energy, waste management, drivers training	Material, energy, waste management, drivers training	Intensified	Long term, intensive aware-ness of employees
Morality: Motiva-tion	Personality of owners Morality vs. Economic pressure Personal background of owners (ethics seminar)	Personality of owners Morality vs. Economic pressure Personal background of owners (ethics seminar)	Intensified	Very much interested in ethics
Morality: Specifications	To be an example (2.8), family/leisure (2.6), justice (2.4), openness (2.4), integra- tion/autonomy (1.8)	To be an example (3.3) openness (2.2), family leisure (2.0), lifelong learning (2), integra- tion/autonomy (1.8)	Much more weight on "to be an example"	
Morality: Sustainability, codification	Mission state- ment planned: honesty, no overreaching	Mission state- ment planned: honesty, no overreaching	Still planned	
Mgmt System: Mission/ strategies, statement	Long term orientation, maintaining Customer orientated, serious, inno- vative, cooper- ation	Long term orientation, maintaining Customer orientated (sell emotions), serious, inno- vative, cooper- ation	Intensified: sell emotions	Serious plan- ning
Mgmt System: Range, for- mality	Internal stand- ards, defined responsibilities	Internal stand- ards, defined responsibilities	Optimised	
Mgmt System: Q: definition, - methods - praxis	Added value for customers – good staff, partners, busses	Added value for customers, clear offers – good staff, partners, busses	Intensified	
Mgmt System: Controlling, risk mgmt.	C: finance, quality survey RM: finance	C: finance, quality survey RM: finance	Improved	

Mgmt System: Knowledge mgmt.	Analyses, partnership, trainings	Analyses, partnership, trainings	Intensified	
Mgmt System: Comprehen- siveness	Familiar, defined re- sponsibilities, standards etc.	Familiar, defined re- sponsibilities, standards etc.	Intensified	Financial and time pressure Integra-tion of drivers to be improved

- High morality of owners
- Familiar, cooperative
- Long term orientation

#### Weaknesses:

• Integration of drivers to be improved

#### **Problems:**

• Public transport under financial pressure

### Specific changes between the two rounds of interviews:

• Improvement of all issues

- Intensive interplay of the issues
- Long term perspective
- Problem: time pressure hinders integration of drivers

Country: Switzerland Size: small (30) / (30) – many part-time No. of interviewed: 8/8 Industry: Service: cable car with restaurant/shop – spring to autumn Foundation/history: 1891 tourism boom: cable car in 3 with hotel on top – 1970 hotel fuel – 1974 upper 2 sections replaced by aerial cableway – 1976 new restaurant – 2001 rebuilding – 2014: the actual aerial cableway was replaced (winner of national tourism price)

	Round 1	Round 2	Changes	Comments
Ownership	Ltd - region	Ltd - region	None	
Leader-ship, decisions making	Board: patriar- chal Top manager: participative, communicative, motivating, familiar – one of the other managers is more patriarch	Board: patriar- chal Top manager: participative, communicative, motivating, familiar – one of the other managers is more patriarch	Partnership intensified	
People	Mix (higher education, specialist, non- skilled), de- pending on jobs	Mix (higher education, specialist, non- skilled), de- pending on jobs	Minimal	Between elderly guards also some aca- demics
Patterns of organisation	Matrix between departments, functional	Matrix between departments, functional	Minimal	
Culture/ traditions	Tradition of cable car Team orientat- ed, familiar	Tradition of cable car Team orientat- ed, familiar (even with stress)	Minimal	
Values: ideal boss, employ- ee	B: motivator, supporting autonomy E: extraverted, ser- vice/customer orientated – positive view of life	B: customer orientation with financial knowledge, motivator E: loyal, moti- vated, open, innovative	More differenti- ated	

				r
Communica- tion	Mixed – info have sometimes to be asked Participative	Meetings, internal journal, internet Participative	Meetings, internal journal, internet	optimised
Finance: Turnover, cash flow, profit	T: stabile CF: increased P: re- investment, reserve	T: decreasing (flood provoked interrupt of railroad) CF: decreasing P: improvement of pensions, reserve	Flood provoked interrupt of railroad P: im- provement of pen- sions	Intensively depending on weather Social back- ground
Resources: people, fi- nance, time	P: Mix, depend- ing on jobs F: capital of Ltd, local banks T: depending on weather, some pressure	P: Mix, depend- ing on jobs F: capital of Ltd, local banks T: depending on weather, some pressure	Minimal	
Society: Public, spon- soring	Offering jobs (often early retired people) – handicap friend- ly – some sponsoring	Offering jobs (often early retired people), improvement of pensions – handicap friend- ly – some sponsoring	Optimised	
Society: Legislation	Traffic, ecolo- gy, food, safety	Traffic, ecolo- gy, food, safety	Minimal	
Society: Associations	Industry, local	Industry, local (president)	President of local tourism	
Economy: Innovation, agility, PR	I: services A: knowledge PR: media partnership, posters, internet, mailings, spon- soring	I: services A: knowledge PR: media partnership, posters, internet, mailings, spon- soring	Intensified, additional services	
Economy: Market position, geographical range	MP: niche, international tours GR: national, tours: interna- tional	MP: niche, international tours GR: national, tours: interna- tional	Minimal	

r	1/2 /	1/2 /	r	r
Economy: Customers – compete-tors	1/3 tour opera- tors, 2/3 day trippers – regular very positive feed- backs Many competi- tors, some cooperation	1/3 tour opera- tors, 2/3 day trippers – regular very positive feed- backs Many competi- tors, minimal cooperation	Coopera- tion with compete- tors re- duced, because of China market	
Economy: Suppliers, partners	Industry, cable care specialists, intensive rela- tions	Industry, cable care specialists, intensive rela- tions	Minimal	
Economy: Financing	Capital of Ltd, local banks	Capital of Ltd, local banks	Minimal	
Physical Environ- ment: Sus- tainability	Comprehensive: material, water (100% rain), isolation, ener- gy (largest solar plant of region), waste	Comprehensive: material, water (100% rain), isolation, ener- gy (largest solar plant of region), waste	Optimisa- tion	Comprehen- sive, long term, integra- tion of people
Morality: Motivation	Personality of board, managers and employees Triple bottom line	Personality of board, managers and employees Triple bottom line, protection of mountain	Optimisa- tion	
Morality: Specifications	To be an example (2.9), justice (2.6), fami- ly/leisure (2.4), openness (2.3), flexible (2.1)	Justice (2.9) openness (2.9), to be an exam- ple (2.4), good impression (2.1) family/leisure (2.0)	More importance of public behave- ours (justice, openness), less of family/ leisure	Increased integration
Morality: Sustainabil- ity, codifica- tion	Standards for behaviour	Mission state- ment in prepara- tion	Mission statement in prepara- tion	
Mgmt System: Mission/ strategies, statement	Long term: company, environment, employees Marketing strategy – customer orien- tation, trainings	Long term: company, environment, employees Marketing strategy – customer orien- tation, trainings	Optimisa- tion	

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Mgmt System: Range, for- mality	Tourism Q People motivat- ed	Tourism QQ Integration of people – QQQ (ISO 9001) planned	Tourism QQ	
Mgmt System: Q: definition, - methods - praxis	Fulfil, exceed customer re- quirements Optimal work, feedback	Fulfil, exceed customer re- quirements Optimal work, feedback, identification with service	Intensified	
Mgmt System: Controlling, risk mgmt.	C: financial, custom- er/employee feedbacks RM: Marketing strategy, man- agement	C: financial, custom- er/employee feedbacks RM: Marketing strategy, man- agement, inte- gration of board	Optimised	
Mgmt System: Knowledge mgmt.	Analyses, trainings (not enough time)	Analyses, trainings (not enough time)	Intensified	
Mgmt System: Comprehen- sive-ness	All issues – employee integration to be optimised	All issues	Optimised	Very com- prehensive

### **Highlights:**

- Leadership: Participative, communicative, motivating, familiar
- Physical environment: innovative, comprehensive solutions

### **Problems:**

• Mountain tourism: Intensively depending on weather

### Specific changes between the two rounds of interviews:

- Generally intensified (also employee integration)
- Tourism QQ, planning of QQQ (ISO 9001)
- Internal communication optimised
- Cooperation with competitors reduced, because of China market

Specific developments after round 2:

- Certification according to ISO 9001
- Rangers to support visitors
- International awards

# Interplay of morality, mgmt.-system and environment:

• Intensive interplay of all the elements and ongoing improvement

Country: Switzerland Size: small (22) / (15) No. of interviewed: 5/5 Industry: Service: hotel/restaurants Foundation/history: 1946 founded by father of owner – 1990 owner became top manager – 1996 acquired from parents

	Round 1	Round 2	Changes	Comments
Ownership	Single member company	Single member company	none	Cannot be changed because of debts.
Leadership, decisions making	Cooperative, no clear con- cept	Cooperative – some im- provement	Some im- provement	Owner: nice, but no leader
People	Mix of special- ists and semi- skilled	Most are specialists	Improvement	
Patterns of organisation	Departments, function orientated	Departments, function orientated	Some im- provement	
Culture/ traditions	Place for feeling well Familiar, good relations	Familiar, friendly, good relations	Some im- provement	
Values: ideal boss, employ- ee	B: to be an example, autonomous E: to be an example, autonomous	B: to be an example E: proactive, sensible for duties	Minimal	

	1			1
Communica- tion	Meetings, long and short term planning, checklists	Meetings, long and short term planning, checklists	Some im- provement	
Finance: Turnover, cash flow, profit	T: decreasing CF: minimal P: re- investment	T: increasing CF: increasing P: increasing		
Resources: people, fi- nance, time	P: specialists and semi- skilled F: horrible (problems with heritage) – totally depend- ing on banks T: some pres- sure	P: mainly specialists F: 90 % banks T: pressure intensified	P: optimised T: more pres- sure	
Society: Public, spon- soring	Member of local admin- istration Some sponsoring Workplaces	Some sponsor- ing Workplaces	Concentration on company	
Society: Legislation	Food, labour	Food, labour	Minimal	
Society: Associations	Industry	Industry	Minimal	Great number of member- ships
Economy: Innovation, agility, PR	I: additional services A: knowledge PR: marketing concept – internet, mini- mal advertise- ments	I: additional services A: knowledge PR: advertise- ments, new concept of internet		

Economy: Market posi- tion, geo- graphical range	MP: niche GR: individu- al, 70 % tour operators	MP: niche GR: individual	Tour operators reduced	
Economy: Customers – compete-tors	Hotel: busi- ness, groups Restaurant: different Regular sur- veys Many competi- tors	Hotel: mainly business Restaurant: private, busi- ness Regular sur- veys Competition intensified	Tour operators reduced Competition intensified	
Economy: Suppliers, partners	Food, tour operators Good coopera- tion	Food No contracts because of missing fi- nance	No contracts because of missing fi- nance	
Economy: Financing	Horrible (problems with heritage) – totally depend- ing on banks	90 % from banks	Ongoing problems	
Physical Environment: Sustainability	Water, energy, waste man- agement (with internal stand- ard)	Water, energy, waste man- agement (with internal stand- ard)	Minimal	
Morality: Motivation	Personality of owner Social and ecological issues im- portant, but intensive financial pressure	Personality of owner Social and ecological issues im- portant, but intensive financial pressure	Minimal	
Morality: Specifications	To be an example (3.4), family/leisure (2.6), openness (2.6), justice (2.4), health (2.4)	To be an example (3.8), family/leisure (2.8), justice (2.8), integra- tion/autonomy (2.2), openness (2.2)	Minimal, trend to integration	Minimal financial optimisation as motivator?

Morality: Sustainability, codification	Mission state- ment	Requirements of QQ	Minimal	
Mgmt System: Mission/ strategies, statement	Satisfied guests – niche fish Amortisation in 15 years Market analy- sis Friendly staff	Satisfied guests – niche fish, additional offers Amortisation Market analy- sis Friendly staff	Additional offers	
Mgmt System: Range, for- mality	Safety, internal standards	Implementa- tion of QQ – integration of management yet insufficient		
Mgmt System: Q: definition, - methods - praxis	Comprehen- sive customer satisfaction Supporting behaviour and standards	Comprehen- sive customer satisfaction Supporting behaviour and standards	Effects of Q	
Mgmt System: Controlling, risk mgmt.	C: financial, annu- al/monthly planning	C: financial, annu- al/monthly planning	Minimal	Many financial measurements
Mgmt System: Knowledge mgmt.	Analysis of market	Analysis of market	Minimal	
Mgmt System: Comprehen- siveness	Some stand- ards – familiar	Q for tourism – familiar	Minimal	Minimal comprehen- siveness

#### **Highlights:**

• Reputable owner

#### Weaknesses:

• Single Member Company (cannot be changed because of debts)

• Many measurements, minimally used

#### **Problems:**

• Owner: nice person, but not a leader

#### Specific changes between the two rounds of interviews:

- On the way to QQ tourism
- Some organisational improvement
- Number of tour operators reduced
- Competition intensified

#### Interplay of morality, mgmt.-system and environment:

- Intensive moral background
- But: minimal interplay

Highlight	Swit- zer- land	Ger- many	Micro	Small	Me- dium	Ser- vice	Pro- duc- tion	Lead er	Niche	ISO 9001	ISO 14001	EFQ M BSC	Proce ce- dure
Concentration on owner / top manager – motivator	12	ю	4	7	5	9	6	6	9	ø	ю	2	7
Future orientated – consequent planning of succession	2	٢		2	٢	2	١	1	٦	2	+		-
Motivated production manager / employees	1	-		-	-	-	-		2				2
Mix of partnership, collegiality, respect and trust	3	2	2	2	1	3	٢	3	2	3	2		3
Integration of people, familial culture – em- ployment of handi- capped	8	2	3	5	4	3	7	9	4	5	3		5
Round table principle for problem solving	2		1		1	2		1	1				2
Integration of stake- holders because of public pressure (physi- cal environment, chil- dren work)	2		2		-	2	۲	2		2	2		
Public responsibility, high morality – local orientation	3	٢		3	2	2	2	3	۲	۲			2
Customer orientation – quality of services as differentiation – orien - tation towards physical environmental	4	L.	٢	2	2	3	2	£	4	2	-		ю
Technically leading - More suited site and shop	3	+		2	2		4	4		3	2		1

# 6.3 Tables: Qualitative and quantitative analyses – correlations, frequencies, arithmetic means

Table 6.1: Case studies – summary: Highlights

Weakness	Swit- zer - land	Ger- many	Micro	Small	Medi- um	Ser- vice	Pro- duc- tion	Lead- er	Niche	1SO 9001	ISO 14001	EF QM BSC	Proce ce- dure
Management system still control and technology orientated	1	1		1	2		2	2		2	2		
Minimal use of management system Minimal formalization	2	L		3	1	1	2	2	۲	-			2
Gap between (idealistic) theory of owner and praxis Different views of owner and employees	2		٢	٢			2	۲	٢	-		-	٢
No clear leadership – owner: not enough time for leadership	2			2			2		2	-			1
Integration of employees to be optimised	1	٦		2		1	1	٢		-			1
Expansion: badly integrated part-time employees	2		1		1		2	٢	٢	-			1
No effective risk management – no time for long term planning	2			2			2	2		-		-	-

Table 6.2: Case studies – summary: Weaknesses

Problem	Swit- zer- land	Ger- many	Micro	Small	Medi- um	Ser- vice	Pro- duc- tion	Lea- der	Niche	1006 001	ISO 14001	EFQM BSC	Proce- dure
Increased pressure because of competi- tion	9	-	-	5	7	4	e	4	3	4	+		3
winimar mancial resources – hinder- ing long term devel- coment	1	٢		2	٢	٢	1	٦	1				2
Difficulties to recruit suited staffs	2		۲	۲		۲	-	-		٢		-	-
No generally accept- ed form of leadership – owner no leader	2			2		٢	-		2	٦			٢
Clear distinction between partners and staffs	2		2			2			2	٢		-	t.
Old buildings – energy optimisation difficult		2			2	2			2	-			-

Table 6.3: Case studies – summary: Problems

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Changes between round 1 and round 2	Swit- zer- land	Ger- many	Micro	Small	Medi- um	Ser- vice	Pro- duc- tion	Lead- er	Niche	1SO 9001	ISO 14001	EF QM BSC	Proce ce- dure
Integration of people, communica- tion increased / optimised – co- responsibility	10	3	4	6	6	6	7	7	5	7	5		6
Trend to patriarchal / hierarchical behaviours - centralisation	з	-		2	7	ю	-	З		-			3
From patron to partnership – integration of employees and / or board	-	с		2	с	-	ε	с	-	-	٢		З
Time pressure hinders integration, communication , formalisation, cultural development	4	1	1	4		4	2	4	-	2			3
Stringent procedures and leader- ship - centralisation	3	1		2	2	3	٦	1	1	1			3
Leadership / organisation / system adapted – mission statement	2			2			2	2		٦			٢
Additional certifications Increasing TQM orientation – high system thinking	2		-		-	-	-	2		2	2		
No recertification	3			2	2	1	2	3		2	٢	٢	٢
Use of supplier standards	2		2			2			2				2
Expansion, acquisition of compa- nies / knowledge – additional industries / services	2	1		-	2	۲	2	2	1	3	۲	٦	
Increasing sensitisation towards physical environment	3	1		2	2	٦	3	3	٦	2	-	-	2
Selection of suppliers: cost orien- tated	-	-			2	2		2					2
Splitting into 2 companies	2			2			-	-		2			

Table 6.4: Case studies – summary: Changes between round 1 and round 2

 Table				- tudie:		= » sumn			rplay	
Interplay of SME, management systems, morality and environment	Some	(Very) Intensive	Reduced	Interplay between strategies and mgmt. system	Intensive interplay, but no systematic / poor integration	Minimal relation to formalised management system – no formalised system	Intensified motivation and integration of em- ployees – High morality of owner towards employees	Morality: individual orientated – Christian background	Intensive orientation towards physical environment – integration in mission	Minimal supporting of physical environment
Swit zer- land	4	8	١	١	2	٢	2	2	5	2
Ger man y		8	١	١	-		3	2		
Mi- cro	3	4			٢	2			٢	1
Smal I	١	2	١	1		3	2	2	3	1
Me- dium	١	2	١	2	2	2	4	2	-	
Ser- vice	2	8		٢	2	3	٢	3	-	1
Pro- duc- tion	2	3	٢	٢	-	4	4	٦	4	1
Lead er	1	5	1	1	2	3	4	1	ю	
Nich e	2	5	1	1	-	4	٢	2	-	1
1SO 9001	1	9	1	2	-	2	3		4	1
ISO 1400 1	2	3		١	-		1		3	
EFQ M BSC	1									1
Pro- ce- dure	2	5	۲		2	5	2	4	-	-

SME, management systems, morality and environment

	Coun- try	1 Size	2 Size	1 Indus- try	2 Indus- try	1 Mar- ket- posi- tion	2 Mar- ket- posi- tion	1 Own- er- ship	2 Own- er- ship	Year of certi- fica- tion
Country	1	.382	.455	273	217	-0.047	-0.044	.448	.399	196
1 Size	.382"	1	.812	0.122	0.075	.412 <sup></sup>	.342	.351	.449	.285
1 Industry	273 <sup></sup>	0.122	.187	1	1.000"	.512 <sup></sup>	.399	535	446	.225
1 Staff total	0.105	.718	.581	-0.022	-0.093	.350	.305	.444 <sup></sup>	.571	.443
2 Staff total	.385	.751	.715	0.059	0.043	.304	.386	.530	.478	.498
2 Staff full- / part-time	.396"	.288	.216 <sup></sup>	201 <sup>°</sup>	226	0.177	.196	.375	.388	215 <sup>'''</sup>
1 Education - non skilled	358	.291	.348	.364	.465	.387	.362	-0.09	-0.15	.162
2 Education - non skilled	347	.220	.342 <sup></sup>	.399	.303	.362	.440	-0.121	-0.032	.202
1 Customers	214 <sup></sup>	330"	214 <sup>°</sup>	.288"	.231	-0.022	-0.047	243"	-0.165	0.094
2 External require- ments	.680"	0.153	.245 <sup></sup>	339	322"	250	171 <sup>°</sup>	.448	.390	293
1 PR - advertisement, exposition	.238"	.462	.373	.265	.223	.364	.237	-0.006	0.008	0.109
2 PR - customer call	.585	.307**	.294	231	275	-0.106	237	.573	.577	-0.154
1 Financing	.409"	.654	.493	229	-0.178	-0.027	-0.051	.618	.616	0.045
Sex	.230"	0.085	0.116	462	406"	150	0.003	.488	.514	-0.037
2 Triple bottom line	-0.103	-0.043	0.055	.354	.337	.267 <sup>**</sup>	.185	237	270	.231
1 Moral code	0.022	277 <sup>**</sup>	341"	328"	366	377"	372	160	-0.167	258
1 SR - customers, community, sponsor- ing	.375 <sup>°°</sup>	.279 <sup></sup>	.373	418	362"	184	-0.099	.587	.568	-0.064
Year of certification	196	.285	.181	.225"	.166	.594	.599"	0.023	0.072	1
1 Mgmt-sys - Q - ISO 9001	343	0.05	-0.062	.397	.315	.330"	.287	306"	237 <sup>°</sup>	.429
1 mgmt-sys - integra- tion (TQM, BSC)	0.088	.227 <sup></sup>	0.044	177 <sup>°</sup>	192 <sup>°</sup>	.267 <sup></sup>	.329"	.252	.236	.592
1 Mgmt-sys - E - ISO 14001	-0.013	.241	.213	.327 <sup></sup>	.229	.339	.355	241"	195 <sup>°</sup>	.334
1 Mgmt-sys - ISO 9001 planned	.414	.261	.218	244 <sup></sup>	202 <sup>°</sup>	.154 <sup>°</sup>	.188	.400	.374	228
2 Mgmt-sys -desired - company	-0.146	184	281"	238	240"	305	296	.284	.231"	229
1 Mgmt-sys-planned - none	.294 <sup></sup>	-0.03	-0.079	225 <sup></sup>	240	228 <sup></sup>	244	.223 <sup></sup>	.258	-0.125
1 Risk management	290	167 <sup>°</sup>	0.017	.424	.473	.219 <sup></sup>	0.174	290"	260	165

\*\*. The correlation is significant on level 0.01 (2 sided).

Table 6.6: Correlations – relations of sub-samples to all variable with a high number of significant relations

	1 Mgmt. sys - company	2 Mgmt. sys - Q - ISO 9001	2 Mgmt. sys - integration (TQM, BSC)	2 Mgmt. sys - industry	2 Mgmt. sys - company
1 Strategy - optimal internal conditions (relations, motiva- tion)	.203**	108	.087	202 <sup>*</sup>	.200*
1 Strategy - customer satisfaction: quality, price, information	.145	.163	.071	255 <sup>**</sup>	.190 <sup>*</sup>
2 Strategy - job security, apprenticeship	055	.250**	.049	087	066
2 Strategy - optimal internal conditions (relations, motiva- tion)	105	.059	.228**	130	138
2 Strategy - customer satisfaction, quality, price, information	.043	.232**	079	272 <sup>**</sup>	.148
2 Strategy - flexible, inde- pendent, small	.220 <sup>*</sup>	074	060	028	.210**
2 Culture - social, integrative	.525**	.222**	093	077	.316**

\*\*. The correlation is significant on level 0.01 (2 sided).

Table 6.7: Correlations – relations of management systems to strategy / culture variables with a high number of significant relations

Leadership	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ ron- ment	Cert. before	Cert. after	Top manag- er
Co-operative, motivat- ing	120 (70.6% ) / 107 (69%)	11 (of 17) / 9 (of 14)	59 (of 92) / 41 (of 65)	50 (of 62) / 56 (of 76)	62 (of 78) /55 (of 80)	58 (of 93) / 51 (of 75)	63 (of 90) / 44 (of 60)	16 (of 22) / 6 (of 14)	22 (of 33) /14 (of 16)	45 (of 66) /36 (of 52)	24 (of 33) /19 (of 29)	24 (of 28) / 25 (of 29)
Mix of styles	30 (21.2% )/20 (12.9%	5 (of 17) / 1 (of 14)	19 (of 92) / 12 (of 65)	12 (of 62) / 7 (of 76)	16 (of 78) /10 (of 80)	20 (of 93) / 10 (of 75)	24 (of 90) /10 (of 60)	8 (of 22) / 0 (of 14)	8 (of 33) / 1 (of 16)	18 (of 66) / 9 (of 52)	8 (of 33) / 1 (of 29)	7 (of 28) / 4 (of 29)
To be optimised	29 (17.1% )/26 (18.8%	2 (of 17) / 3 (of 14)	18 (of 92) / 16 (of 65)	9 (of 62) / 7 (of 76)	11 (of 78) /14 (of 80)	18 (of 93) / 12 (of 75)	13 (of 90) /13 (of 60)	3 (of 22) / 3 (of 14)	5 (of 33) / 3 (of 16)	11 (of 66) / 9 (of 52)	3 (of 33) / 4 (of 29)	5 (of 28) / 7 (of 29)
Autocratic, hierarchic	29 (17.1% )/33 (21.3%	2 (of 17) / 2 (of 14)	17 (of 92) / 15 (of 65)	10 (of 62) / 16 (of 76)	14 (of 78) /21 (of 80)	15 (of 93) / 12 (of 75)	14 (of 90) / 11 (of 60)	6 (of 22) / 8 (of 14)	7 (of 33) / 0 (of 16)	9 (of 66) / 9 (of 52)	7 (of 33) / 6 (of 29)	5 (of 28) / 9 (of 29)
Competent, clear, natural authority	zo (15.3% )/34 (21.9%	5 (of 17) / 4 (of 14)	11 (of 92) / 10 (of 65)	10 (of 62) / 20 (of 76)	11 (of 78) /20 (of 80)	15 (of 93) / 14 (of 75)	12 (of 90) / 10 (of 60)	7 (of 22) / 9 (of 14)	6 (of 33) /4 (of 16)	9 (of 66) / 9 (of 52)	8 (of 33) /12 (of 29)	3 (of 28) / 6 (of 29)
<b>Co-responsibility</b>	25 (14.7% ) /10 (6.5%)	1 (of 17) / 1 (of 14)	19 (of 92) / 4 (of 65)	5 (of 62) / 5 (of 76)	8 (of 78) / 4 (of 80)	17 (of 93) / 6 (of 75)	17 (of 90) / 3 (of 60)	1 (of 22) / 1 (of 14)	5 (of 33) / 1 (of 16)	11 (of 66) / 4 (of 52)	5 (of 33) / 2 (of 29)	5 (of 28) / 5 (of 29)

Table 6.8: Leadership

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Relation,	Bottom up		Top down		Peers	
behaviour	Round 1	Round 2	Round 1	Round 2	Round 1	Round 2
<li>c) If someone has good arguments, ideas are wel- come.</li>	2.0	1.9	1.5	2.0	1.8	2.1
<ul> <li>d) Plans are</li> <li>discussed and</li> <li>decisions are</li> <li>taken in co-</li> <li>operative,</li> <li>partnership.</li> </ul>	1.7	1.6	1.4	1.6	1.6	1.8
<li>g) Decisions are only taken by the management.</li>	0.8	0.9	0.3	0.6	0.6	0.6

Table 6.9: Relations, behaviours – rating (between 0 and 3 – arithmetic mean) – selection

14/ 2/1 16 2/1	2/1		0,	6/6	3/6	6 / 7	8/9	5/5	2/1	2/2	3/3	
Activity, 4/3 0/0 3/3	0 / 0		3/3		1/0	1/1	3/2	3/2	0/0	2/1	2/2	1/1
Matrix 6 /5 0 / 0 2 / 1	0 / 0		2/1		3/3	4/3	1/1	3/3	0 / 0	1/1	2/2	0 / 0
Team 4/5 3/3 0/0	5 3/3		0 / 0		0 / 0	3/3	0/0	1/1	1/1	0 / 0	0 / 0	0 / 0
	1		Medi-		Ser-	Pro-		Inte-	Envi-	Cert.	Cert.	Top
R1/R2 Micro Small weur-	Small		um		vice	duc- tion 88 /of	Quality 87 /of	gration	ron- ment 33 (of	before	after 30 (of	man- ager 23 (of
(90.5%) 15 (of 82 (of 57 (of 137 / 137 )/ 92) / 62) / (88.4%)	82 (of 92) /		57 (of 62) /		66 (01 78) 772 (of 80)	88 (01 93) / 64 (of 75)	6/ (01 90) / 54 (of 60)	<mark>22) /</mark> 22) / 11 (of 14)	33 (01 33) /16 (of 16)	<mark>64 (of 66</mark> ) /47 (of 52)	<mark>.32 (0</mark> 33) /25 (of 29)	23 (01 28) / 26 (of 29)
18         1 (of (10.6%)         17) / 1         92) / 8         62) / 1           /10         (of (14)         (of (05)         (of (05)         (of (05)           (6.3%)         14)         65)         76)	14 (of 92) / 8 (of 65)	•	3 (of 62) / 1 (of 76)		10 (of 78) / 7 (of 80)	8 (of 93) / 3 (of 75)	4 (of 90) / 1 (of 60)	2 (of 22) / 1 (of 14)	1 (of 33) / 1 (of 16)	0 (of 66) / 1 (of 52)	4 (of 33) / 1 (of 29)	8 (of 28) / 7 (of 29)
$\begin{array}{c ccccc} 10 & 1 & (of & 5 & (of & 4 & (of & 5.9\%)/3 & (of & 17)/1 & 92)/3 & 62)/3 & 8 & (of $	5 (of 92) / 3 (of 65)		4 (of 62) / 3 (of 76)		8 (of 78) /7 (of 80)	2 (of 93) / 1 (of 75)	4 (of 90) / 0 (of 60)	2 (of 22) / 1 (of 14)	1 (of 33) / 1 (of 16)	1 (of 66) / 0 (of 52)	1 (of 33) / 1 (of 29)	6 (of 28) / 3 (of 29)
5 (2.9%) 0 (of 1 (of 4 (of 22)) (16.8%) 17) / 92) / 62) /	1 (of 92) /		4 (of 62) /		4 (of 78) /11 (of 80)	1 (of 93) / 15 (of 75)	1 (of 90) / 13 (of 60)	1 (of 22) / 4 (of 14)	0 (of 33) / 1 (of 16)	1 (of 66) / 8 (of 52)	1 (of 33) / 6 (of 29)	0 (of 28) / 2 (of 29)

Table 6.11: Culture and Traditions

Table 6.10: Patterns of organisation

Cert. after

Cert. before

Environment

> Integration

> > Quality

Production

> Service

Medium

Small

Micro

R1/R2

Type orientation

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Туре	Starting in company	Activity at round 1	Activity at round 2
None	7 (3.3%)	18 (10.6%)	18 (11.6%)
Training, seminar – experience	34 (16.0%)	102 (60.0%)	101 (65.2%)
Apprenticeship	169 (79.7%)	31 (18.2%)	24 (15.5%)
Specialised education	31 (14.6%)	33 (19.4%)	32 (20.6%)
Higher education	13 (6.1%)	42 (24.5%)	1 (0.6%)

Table 6.12: Education of interviewed persons at different times

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TBL orientation	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
Balanced	5/7	2/2	1/3	1/1	3 / 5	1/1	1/2	0/0	0 / 0	1/1	0 / 0
Social: most im- portant	7/6	1 / 0	3/2	3/4	4/3	3/3	4/3	1/0	1 / 0	3/2	1/1
Finance: basis for survival	16 / 16	2/2	10 / 8	3/4	7/6	8/8	9/2	2/2	4/4	3/4	4/4

Table 6.14: Triple Bottom Line

Values, moral codes	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
Defined values	17/18	2/3	6/6	2/2	6 / 2	8/6	10/9	2/1	3/3	2 / 6	3/4
DV: partly, rudi- mental	6/8	1/1	2/3	2/4	3/5	2/3	0/2	1/1	1/1	0/1	1/1
Industry ethics	13/17	1/1	6/8	4 / 6	8/2	5/2	6/7	3/2	3/3	3/2	4/4

Table 6.13: Value/moral codes

Information	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after	Top mgmt.
Systematic (plan, bulletin, intranet)	99 (58.2%) / 77 (49,4%)	5 (of 17) / 4 (of 14)	56 (of 92) / 30 (of 65)	38 (of 62) / 42 (of 76)	39 (of 78) /41 (of 80)	60 (of 93) / 35 (of 75)	55 (of 90) / 31 (of 60)	15 (of 22) / 9 (of 14)	22 (of 33) / 6 (of 16)	41 (of 66) / 26 (of 52)	22 (of 33) /21 (of 29)	5 (of 28) / 8 (of 29)
Face-to-face	80 (47.1%) / 83 (53.2%)	8 (of 17) / 8 (of 14)	41 (of 92) / 33 (of 65)	31 (of 62) / 42 (of 76)	31 (of 78) /46 (of 80)	46 (of 93) / 37 (of 75)	40 (of 90) /35 (of 60)	11 (of 22) / 4 (of 14)	22 (of 33) / 9 (of 16)	27 (of 66) / 29 (of 52)	17 (of 33) /13 (of 29)	22 (of 28) / 21 (of 29)
To be developed by oneself	80 (47.1%) / 72 (46.2%)	11 (of 17) / 7 (of 14)	45 (of 92) / 34 (of 65)	24 (of 62) / 32 (of 76)	35 (of 78) /21 (of 80)	45 (of 93) / 37 (of 75)	43 (of 90) / 29 (of 60)	11 (of 22) / 5 (of 14)	14 (of 33) / 7 (of 16)	29 (of 66) / 25 (of 52)	19 (of 33) /15 (of 29)	13 (of 28) / 17 (of 29)
External (association, seminary)	19 (11.2%) / 21 (13.5%)	3 (of 17) / 3 (of 14)	9 (of 92) / 9 (of 65)	7 (of 62) / 9 (of 76)	10 (of 78) /13 (of 80)	9 (of 93) / 8 (of 75)	8 (of 90) / 8 (of 60)	2 (of 22) / 3 (of 14)	5 (of 33) /4 (of 16)	5 (of 66) / 6 (of 52)	4 (of 33) /4 (of 29)	17 (of 28) / 16 (of 29)
To be optimised	13 (7.6 %) / 14 (9.0%)	0 (of 17) / 0 (of 14)	7 (of 92) / 8 (of 65)	6 (of 62) / 6 (of 76)	3 (of 78) / 6 (of 80)	10 (of 93) / 5 (of 75)	5 (of 90) / 5 (of 60)	3 (of 22) / 0 (of 14)	3 (of 33) / 3 (of 16)	5 (of 66) / 4 (of 52)	3 (of 33) / 0 (of 29)	1 (of 28) / 1 (of 29)

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Table 6.15: Information

	Bottom	up	Top dow	/n	Peers	
Relation, behaviour	Round 1	Round 2	Round 1	Round 2	Round 1	Round 2
<ul> <li>a) Good communication,</li> <li>friendly atmosphere</li> </ul>	2.2	2.1	1.7	2.1	2.1	2.4
<ul> <li>b) Everybody is looking for his own advantage.</li> </ul>	0.2	0.3	0.1	0.2	0.2	0.4
<li>c) If someone has good arguments, ideas are welcome.</li>	2.0	1.9	1.5	2.0	1.8	2.1
<ul> <li>d) Plans are discussed and decisions are taken in co- operative, partnership.</li> </ul>	1.7	1.6	1.4	1.6	1.6	1.8
<ul> <li>e) People have to work and not to bring in new ideas - that is the job of the management.</li> </ul>	0.4	0.4	0.2	0.4	0.3	0.3
<ul> <li>f) Besides the working activities there is also time for personal relations.</li> </ul>	1.2	1.0	0.9	1.1	1.2	1.4
<li>g) Decisions are only taken by the management.</li>	0.8	0.9	0.3	0.6	0.6	0.6

Table 6.16: Relations, behaviours – rating (between 0 and 3 – arithmetic mean)

Turnover	R1/R2 Micro	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
Decreasing	6/7	1/2	2/3	0 / 1	2/5	4/1	1/2	0 / 1	1/0	1/1	0/2
Balanced	4/3	1/1	1/2	1 / 0	3/1	0/2	1/0	0/0	0 / 0	0/0	0 / 0
Increasing	18 / 17	3 / 1	8/8	8/9	8/8	6/6	10/9	3 / 1	4/4	9/9	5/3

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Table 6.17: Turnover

Cash flow	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
Decreasing	10 / 5	1 / 0	6/2	2/2	5/5	4/2	3/2	0 / 0	1/1	1/1	0 / 0
Balanced	1/1	1/1	3/3	3/3	2/1	5/4	4/3	2/1	1 / 0	3/1	3/3
Increasing	3/3	3/3	5/8	3/4	7/8	3/6	9/9	1/1	3/3	3/5	2/2

Table 6.18: Cash flow

Cert. after 3/3 2/2 0/0 1/1 1/3 7/7 0/1 0/0 Cert. before Environ-ment 1/2 5/4 0/0 0/0 1/1 2/2 1/0 0/0 Integra-tion 10/9 3/3 0/0 Quality 0/1 10 / 10 2/5 1/0 Produc-tion 1/1 9/8 4/2 1/5 1/0 Service 6/2 0/0 Medium 1/4 1/3 10/9 3/2 1/2 1/0 Small 3/3 1/0 2/1 0/1 Micro 21/20 7/8 2/6 2/0 R1/R2 Investment, training Reserve, dividend Debt reduction Use of profits No profit

Table 6.19: Use of profits

Finance	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ- ment	Cert. before	Cert. after
Private	8/11	7/7	3/3	0/2	4 / 5	3/4	3/4	1/1	1/1	1/4	2/1
Bank	3 / 0	1 / 0	2 / 0	0 / 0	2 / 0	1 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0/0
Mix: private/bank	13 / 14	0 / 0	8 / 10	4/3	4 / 5	8 / 8	2/2	1/1	4/3	5/2	2/3
Foundation / public	4 / 4	0 / 0	1 / 0	3 / 4	4 / 4	0 / 0	2/2	1 / 0	0/0	1/1	

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Table 6.20: Financing

Company problem	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. Before	Cert. after	Top manag- er
Staffs integration re- duced (decisions, procedures, communi- cation)	49 (28.8%) / 42 (33.5%)	4 (of 17) /1 (of 14)	29 (of 92) / 22 (of 65)	16 (of 62) / 29 (of 76)	20 (of 78) /29 (of 80)	29 (of 93) / 24 (of 75)	23 (of 90) / 16 (of 60)	6 (of 22) / 6 (of 14)	6 (of 33) / 4 (of 16)	20 (of 66) / 19 (of 52)	6 (of 33) /13 (of 29)	0 (of 28) / 3 (of 29)
Missing resources (time, infrastructure, supplier)	28 (16.6%) / 37 (23.9%)	3 (of 17) / 1 (of 14)	13 (of 92) / 17 (of 65)	12 (of 62) / 18 (of 76)	19 (of 78) /23 (of 80)	9 (of 93) /13 (of 75)	18 (of 90) / 18 (of 60)	4 (of 22) / 1 (of 14)	3 (of 33) /3 (of 16)	9 (of 66) / 13 (of 52)	7 (of 33) / 6 (of 29)	5 (of 28) / 6 (of 29)
Financing	24 (14.1%) / 9 (5.8%)	7 (of 17) / 0 (of 14)	11 (of 92) / 4 (of 65)	6 (of 62) / 5 (of 76)	13 (of 78) / 4 (of 80)	11 (of 93) / 5 (of 75)	10 (of 90) / 4 (of 60)	5 (of 22) / 1 (of 14)	4 (of 33) / 3 (of 16)	6 (of 66) / 2 (of 52)	7 (of 33) / 2 (of 29)	10 (of 28) / 3 (of 29)
Intensive competition	22 (12.9%) / 13 (8.4%)	/ 4 (of 14)	/ 8 (of 65)	/ 1 (of 76)	11 (of 78) / 8 (of 80)	11 (of 93) / 5 (of 75)	11 (of 90) / 5 (of 60)	2 (of 22) / 2 (of 14)	5 (of 33) / 1 (of 16)	7 (of 66) / 3 (of 52)	3 (of 33) / 3 (of 29)	9 (of 28) / 8 (of 29)
Future (succession, know-how, market position, expansion)	20 (11.8%) / 9 (5.7%)	4 (of 17) / 0 (of 14)	7 (of 92) / 4 (of 65)	9 (of 62) / 5 (of 76)	10 (of 78) / 3 (of 80)	10 (of 93) / 6 (of 75)	11 (of 90) / 6 (of 60)	6 (of 22) / 1 (of 14)	3 (of 33) / 2 (of 16)	8 (of 66) / 6 (of 52)	6 (of 33) /1 (of 29)	8 (of 28) / 5 (of 29)
Politics concerning economy	15 (8.8%) / 9 (5.8%)	0 (of 17) /2 (of 14)	9 (of 92) / 5 (of 65)	6 (of 62) / 0 (of 76)	3 (of 78) /5 (of 80)	12 (of 93) / 4 (of 75)	13 (of 90) / 3 (of 60)	0 (of 22) / 1 (of 14)	4 (of 33) / 0 (of 16)	12 (of 66) / 2 (of 52)	0 (of 33) / 3 (of 29)	7 (of 28) / 8 (of 29)
Staffs not satisfied, stress, missing motiva- tion	13 (7.6%) /30 (19.4%)	0 (of 17) / 9 (of 14)	6 (of 92) / 5 (of 65)	7 (of 62) / 11 (of 76)	4 (of 78) /15 (of 80)	9 (of 93) /14 (of 75)	8 (of 90) / 13 (of 60)	3 (of 22) / 4 (of 14)	4 (of 33) / 5 (of 16)	6 (of 66) / 10 (of 52)	5 (of 33) / 5 (of 29)	0 (of 28) / 3 (of 29)
No internal problems	22 (12.9%) / 13 (8.4%)	1 (of 17) / 2 (of 14)	12 (of 92) / 3 (of 65)	9 (of 62) / 8 (of 76)	7 (of 78) / 5 (of 80)	15 (of 93) / 8 (of 75)	11 (of 90) / 3 (of 60)	3 (of 22) / 0 (of 14)	8 (of 33) / 0 (of 16)	8 (of 66) / 4 (of 52)	6 (of 33) /1 (of 29)	0 (of 28) / 0 (of 29)

Table 6.21: Company problem

	Future	R1/R2	Micro	Small	Medium	Service	Produc- tion		Quality	Integra- tion	Environ- ment	Cert. before	Cert. after	Top manager
	Positive	110 (64.7%) / 115 (74.2%)	5 (of 17) / 7 (of 14)	64 (of 92) / 50 (of 65)	41 (of 62) / 57 (of 76)	48 (of 78) / 57 (of 80)	7 62 (of 93) / 57 (of 75)		69 (of 90) / 48 (of 60)	12 (of 22) / 9 (of 14)	26 (of 33) / 14 (of 16)	48 (of 66) / 38 (of 52)	22 (of 33) / 24 (of 29)	15 (of 28) / 25 (of 29)
	Average	25 (14.7%) / 13 (8.4%)	6 (of 17) / 0 (of 14)	11 (of 92) / 5 (of 65)	8 (of 62) / 8 (of 76)	9 (of 78) / 5 (of 80)	<ul> <li>B) 16 (of 93) / 8</li> <li>(of 75)</li> </ul>		10 (of 90) / 5 (of 60)	5 (of 22) / 2 (of 14)	4 (of 33) / 0 (of 16)	7 (of 66) / 7 (of 52)	6 (of 33) / 2 (of 29)	5 (of 28) / 0 (of 29)
	Uncertain	31 (18.2%) /20 (12.9%)	3 (of 17) / 5 (of 14)	16 (of 92) / 9 (of 65)	12 (of 62) / 6 (of 76)	17 (of 78) / 12 (of 80)	2 14 (of 93) / 8 (of 75)		11 (of 90) / 6 (of 60)	4 (of 22) / 2 (of 14)	2 (of 33) / 1 (of 16)	11 (of 66) / 6 (of 52)	4 (of 33) / 2 (of 29)	6 (of 28) / 3 (of 29)
	Social response		R1 / R2	Micro	Small	Medi- um	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after	Top manager
	Staff integration, internal relations	nternal	106 (62.5%) / 100 (64.5%)	10 (of 17) /	57 (of 92) /	39 (of 62) /	44 (of 78) /55 (of 80)	62 (of 93) / 45 (of 75)	60 (of 90) / 41 (of 60)	14 (of 22) / 7 (of 14)	20 (of 33) /10 (of 16)	44 (of 66) /33 (of 52)	22 (of 33) /16 (of 29)	20 (of 28) / 22 (of 29)
_ 0	Local community, sponsoring, customers	sponsoring,	56 (32.9%) / 50 (32.5%)	3 (of 17) / 4 (of 14)	21 (of 92) / 13 (of 65)	32 (of 62) / 32 (of 76)	42 (of 78) / 33 (of 80)	14 (of 93) / 16 (of 75)	19 (of 90) /14 (of 60)	12 (of 22) / 6 (of 14)	7 (of 33) / 5 (of 16)	13 (of 66) / 13 (of 52)	14 (of 33) /12 (of 29)	15 (of 28) / 17 (of 29)
.,	Staff education, offering jobs	fering jobs	46 (27.1%) / 44 (28.4%)	9 (of 17) / 3 (of 14)	25 (of 92) / 23 (of 65)	12 (of 62) / 18 (of 76)	18 (of 78) /15 (of 80)	28 (of 93) / 29 (of 75)	26 (of 90) / 16 (of 60)	6 (of 22) / 5 (of 14)	13 (of 33) / 6 (of 16)	19 (of 66) / 11 (of 52)	9 (of 33) /10 (of 29)	16 (of 28) / 16 (of 29)
-	Wages, social security	urity	22 (12.9%) / 27 (17.4%)	2 (of 17) / 2 (of 14)	16 (of 92) / 16 (of 65)	4 (of 62) / 9 (of 76)	10 (of 78) /13 (of 80)	12 (of 93) / 14 (of 75)	14 (of 90) / 10 (of 60)	1 (of 22) / 1 (of 14)	5 (of 33) / 5 (of 16)	8 (of 66) / 9 (of 52)	2 (of 33) / 3 (of 29)	6 (of 28) / 10 (of 29)

Table 6.22: Future evaluation

Table 6.23: Social responsibility: issues

Social respons.	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Inte- gration	Envi- ronment	Cert. before	Cert. after	Top manag- er
Influence: none	34 (20.0%) / 24 (15.1%)	3 (of 17) / 1 (of 14)	23 (of 92) / 14 (of 65)	8 (of 62) / 9 (of 76)	7 (of 78) / 5 (of 80)	27 (of 93) / 19 (of 75)	28 (of 90) / 14 (of 60)	3 (of 22) / 1 (of 14)	11 (of 33) / 5 (of 16)	23 (of 66) / 13 (of 52)	5 (of 33) / 2 (of 29)	0 (of 28) / 0 (of 29)
Influence: minimal	22 (12.9%) / 13 (8.2%)	1 (of 17) / 0 (of 14)	14 (of 92) / 6 (of 65)	7 (of 62) / 7 (of 76)	8 (of 78) /8 (of 80)	14 (of 93) / 5 (of 75)	6 (of 90) /1 (of 60)	2 (of 22) / 2 (of 14)	4 (of 33) / 1 (of 16)	6 (of 66) / 3 (of 52)	2 (of 33) / 4 (of 29)	0 (of 28) / 0 (of 29)
Influence: daily activities	53 (31.2%) / 34 (21.4%)	7 (of 17) / 1 (of 14)	27 (of 92) / 8 (of 65)	19 (of 62) / 24 (of 76)	35 (of 78) /54 (of 80)	18 (of 93) / 12 (of 75)	20 (of 90) / 14 (of 60)	8 (of 22) / 3 (of 14)	6 (of 33) / 2 (of 16)	10 (of 66) / 13 (of 52)	13 (of 33) / 8 (of 29)	12 (of 28) / 1 (of 29)
Influence: main response	11 (6.5%) / 29 (18.2%)	1 (of 17) / 5 (of 14)	5 (of 92) / 13 (of 65)	5 (of 62) / 11 (of 76)	7 (of 78) / 21 (of 80)	4 (of 93) / 12 (of 75)	5 (of 90) / 11 (of 60)	2 (of 22) / 3 (of 14)	3 (of 33) / 4 (of 16)	2 (of 66) / 7 (of 52)	3 (of 33) / 7 (of 29)	10 (of 28) / 26 (of 29)
Influence : staff integra- tion, supporting	64 (37.6%) / 65 (41.9%)	4 (of 17) / 6 (of 14)	32 (of 92) /26 (of 65)	28 (of 62) / 33 (of 76)	26 (of 78) /17 (of 80)	34 (of 93) / 60 (of 75)	38 (of 90) / 24 (of 60)	9 (of 22) / 5 (of 14)	10 (of 33) / 4 (of 16)	31 (of 66) / 22 (of 52)	13 (of 33) / 11 (of 29)	10 (of 28) / 2 (of 29)

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Table 6.24: Social responsibility: influence on activities

Value	R1/ R2	Mi- cro	Smal I	Medi- um	Ser- vice	Produc- tion	No cert	Cert. be- fore	Cert after	Switzer- land	Germa- ny	Mal e	Fe- male	Top manag- er
a) example	2.8 6/ 2.8 3	2.6 / 2.4	2.9 / 2.8	2.9 / 2.9	3.1 / 2.7	2.7 / 3.0	3.1 / 2.7	2.8 / 3.1	2.5 / 2.6	2.7 / 2.8	3.4 / 2.9	2.9 / 3.0	2.8 / 2.6	3.6 / 3.6
f) time	2.4 5/ 2.3 1	2.9 / 2.4	2.5 / 2.4	2.3 / 2.3	2.5 / 2.3	2.4 / 2.3	2.5 / 2.3	2.4 / 2.4	2.7 / 2.2	2.5 / 2.4	2.2 / 2.1	2.4 / 2.2	2.5 / 2.5	2.5 / 2.4
g) justice	2.4 5/ 2.1 6	2.2 / 2.3	2.5 / 2.3	2.4 / 2.0	2.5 / 2.3	2.4 / 2.0	2.6 / 2.1	2.4 / 2.2	2.2 / 2.3	2.3 / 2.2	2.9 / 2.1	2.3 / 2.0	2.7 / 2.5	3.0 / 2.5
m) open	2.0 8/ 2.1 1	1.3 / 2.1	2.0 / 2.2	2.2 / 2.1	2.5 / 2.4	1.8 / 1.8	2.1 / 2.3	1.8 / 1.8	2.7 / 2.3	2.0 / 2.0	2.5 / 2.3	1.8 / 1.9	2.6 / 2.5	2.3 / 2.5
b) inte- grate	1.8 0/ 1.5 0	1.7 / 1.7	1.6 / 1.5	2.1 / 1.4	1.9 / 1.7	1.7 / 1.3	1.7 / 1.6	1.9 / 1.5	1.9 / 1.2	1.8 / 1.5	2.0 / 1.4	1.8 / 1.4	1.8 / 1,6	1.5 / 1.2
q) fle- xible	1.6 4/ 1.6 2	1.9 / 2.1	1.6 / 1.4	1.6 / 1.7	1.7 / 1.7	1.6 / 1.6	1.5 / 1.6	1.6 / 1.8	1.9 / 1.4	1.7 / 1.7	1.4 / 1.4	1.6 / 1.7	1.7 / 1.6	1.4 / 1.5
j) health	1.5 4/ 1.4 8	1.4 / 1.6	1.6 / 1.4	1.5 / 1.5	1.6 / 1.5	1.5 / 1.4	1.5 / 1.4	1.4 / 1.4	1.9 / 1.8	1.5 / 1.5	1.7 / 1.5	1.4 / 1.3	1.9 / 1.7	1.2 / 1.6
k) learning	1.4 7/ 1.6 3	1.8 / 1.3	1.4 / 1.3	1.5 / 2.0	1.6 / 1.8	1.4 / 1.5	1.5 / 1.6	1.3 / 1.5	1.9 / 2.1	1.5 / 1.4	1.6 / 2.3	1.4 / 1.6	1.7 / 1.8	1.4 / 1.5
h) respon- sible	1.2 6/ 1.0 6	1.6 / 1.3	1.2 / 1.1	1.2 / 1.0	1.5 / 1.2	1.1 / 0.9	1.4/ 1.0	1.2 / 1.0	1.1 / 1.2	1.2 / 1.1	1.5 / 0.9	1.3 / 1.1	1.3 / 0.9	1.4 / 1.8
I) loyal	1.1 7/ 1.3 3	0.8 / 1.6	1.3 / 1.1	1.1 / 1.5	1.0 / 1.5	1.3 / 1.2	1.1 / 1.4	1.2 / 1.3	1.2 / 1.3	1.2 / 1.2	1.2 / 1.7	1.3 / 1.3	0.9 / 1.4	1.1 / 1.3
e) image	1.1 7/ 1.3 0	1.1 / 0.9	1.2 / 1.3	1.1 / 1.3	1.1 / 1.2	1.3 / 1.3	1.3 / 1.4	1.1 / 1.3	1.0 / 1.1	1.2 / 1.3	1.1 / 1.3	1.2 / 1.3	1.1 / 1.3	0.9 / 0.9
o) alterna- tives	1.1 4/ 1.1 8	1.5 / 1.9	1.1 / 1.0	1.0 / 1.2	1.2 / 1.1	1.1 / 1.2	1.1 / 1.2	1.0 / 1.1	1.5 / 1.2	1.2 / 1.2	1.1 / 1.2	1.1 / 1.2	1.3 / 1.2	0.7 / 0.5
c) com- pliant	1.0 5/ 1.0 9	0.4 / 0.6	1.1 / 1.0	1.2 / 1.2	1.1 / 1.1	1.0 / 1.0	1.1 / 1.0	1.2 / 1.2	0.8 / 1.1	1.0 / 1.0	1.9 / 1.4	1.0 / 1.0	1.2 / 1.2	1.1 / 0.9
n) long term	0.9 8/ 1.0 7	1.0 / 0.8	1.0 / 1.1	1.0 / 1.1	1.0 / 1.2	1.0 / 1.0	1.0/ 1.1	1.0 / 1.0	0.9 / 1.3	1.0 / 1.0	0.9 / 1.3	1.0 / 1.1	1.0 / 1.0	1.4 / 1.6
p) planning	0.8 5 / 0.8 4	0.6 / 0.6	0.9 / 0.9	0.8 / 0.8	0.7 / 0.9	0.9 / 0.8	0.8/ 0.9	1.0 / 0.8	0.7 / 0.8	0.8 / 0.8	0.9 / 1.0	0.9 / 0.8	0.8 / 1.0	1.1 / 1.0
d) fun	0.7 6/ 0.8 3	0.8 / 1.4	0.8 / 0.8	0.6 / 0.8	0.6 / 0.8	0,9 / 0.9	0.7 / 0.9	0.9 / 0.8	0.7 / 0.8	0.7 / 0.8	0.4 / 0.8	0.8 / 0.8	0.6 / 0.8	0.3 / 0.3
i) profit	0.4 4/ 0.6 3	0.3 / 0.3	0.5 / 0.8	0.3 / 0.6	0.3 / 0.6	0.5 / 0.7	0.4 / 0.6	0.5 / 0.8	0.3 / 0.5	0.5 / 0.7	0.4 / 0.5	0.5 / 0.7	0.3 / 0.4	0.5 / 0.5

Table 6.25: Rating of values (Questionnaire List B)

Value – background	R1 / R2	Micro	Small	Medi- um	Ser- vice	Produc duc- tion	No cert.	Cert. before	Cert. after	Swit- zerland	Ger- many	Male	Female	Top manager
Mix of issues	111 (65.3%) / 80 (51.6%)	10 (of 17) / 10 (of 14)	60 (of 92) / 34 (of 65)	41 (of 62) / 35 (of 76)	55 (of 78) / 45 (of 80)	56 (of 93) / 34 (of 75)	47 (of 90) / 36 (of 60)	39 (of 66) / 25 (of 52)	25 (of 33) / 19 (of 29)	84 (of 132) / 63 (of 75)	27 (of 38) / 17 (of 40)	73 (of 115) / 48 (of 99)	38 (of 55) / 32 (of 56)	18 (of 28) / 17 (of 29)
Experience	108 (63.5%) / 95 (61.3%)	11 (of 17) / 11 (of 14)	59 (of 92) / 39 (of 65)	38 (of 62) / 44 (of 76)	52 (of 78) / 47 (of 80)	56 (of 93) / 47 (of 75)	41 (of 90) / 44 (of 60)	44 (of 66) / 34 (of 52)	23 (of 33) / 17 (of 29)	85 (of 132) / 75 (of 115)	23 (of 38) / 20 (of 40)	71 (of 115) / 63 (of 99)	37 (of 55) / 32 (of 56)	17 (of 28) / 18 (of 29)
Family, school, youth	103 (60.6%) / 77 (49.7%)	8 (of 17) / 9 (of 14)	57 (of 92) / 32 (of 65)	38 (of 62) / 35 (of 76)	45 (of 78) / 44 (of 80)	58 (of 93) / 32 (of 75)	39 (of 90) / 35 (of 60)	43 (of 66) / 22 (of 52)	21 (of 33) / 20 (of 29)	79 (of 132) / 57 (of 115)	24 (of 38) / 20 (of 40)	68 (of 115) / 47 (of 99)	35 (of 55) / 30 (of 56)	17 (of 28) / 20 (of 29)
Religion	40 (23.5%) / 24 (15.5%)	3 (of 17) / 1 (of 14)	23 (of 92) / 10 (of 65)	14 (of 62) / 6 (of 76)	18 (of 78) / 14 (of 80)	22 (of 93) / 10 (of 75)	18 (of 90) / 12 (of 60)	15 (of 66) / 7 (of 52)	7 (of 33) / 5 (of 29)	24 (of 132) / 12 (of 115)	16 (of 38) / 12 (of 40)	26 (of 115) / 15 (of 99)	14 (of 55) / 9 (of 56)	12 (of 28) / 10 (of 29)
Education, job	35 (20.6%) / 27 (17.4%)	2 (of 17) / 4 (of 14)	16 (of 92) / 6 (of 65)	17 (of 62) / 17 (of 76)	22 (of 78) / 22 (of 80)	13 (of 93) / 5 (of 75)	17 (of 90) / 15 (of 60)	11 (of 66) / 4 (of 52)	7 (of 33) / 8 (of 29)	23 (of 132) / 15 (of 115)	12 (of 38) / 12 (of 40)	20 (of 115) / 16 (of 99)	15 (of 55) / 11 (of 56)	8 (of 28) / 8 (of 29)
Personal development, character building	25 (14.7%) / 30 (19.4%)	5 (of 17) / 4 (of 14)	13 (of 92) / 8 (of 65)	7 (of 62) / 18 (of 76)	14 (of 78) / 18 (of 80)	11 (of 93) / 12 (of 75)	13 (of 90) / 13 (of 60)	7 (of 66) / 9 (of 52)	5 (of 33) / 8 (of 29)	20 (of 132) / 20 (of 115)	5 (of 38) / 10 (of 40)	22 (of 115) / 22 (of 99)	3 (of 55) / 8 (of 56)	9 (of 28) / 9 (of 29)

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Table 6.26: Values: backgrounds

Ser- vice
18 (of 27 (of 26 (of 26) (of 26) (of 28) / 78) / 93) / 90) / 19 (of 24 (of 18 (of 23) / 50) / 75) (of 76) (of 23) (of 76) (of
21 (of 27 (of 78) / 93) / 25 (of 12 (of 25 (of 12 (of 80) / 75) / 75) / 75)
24 (of 19 (of 27 (of 20 (of 22 (of 92) / 8 62) / 78) / 93) / 90) / (of 20 (of 23 (of 11 (of 19 (of 65) 76) 80) 75) 60)
4 (of 12 (of 10 (of 10 (of 62) / 8 78) / 93) / 90) / (of 14 (of 14 (of 14 (of 13 (of 76) 80) 75) 60)
8 (of 1 (of 5 (of 6 (of 92) / 7 (of 62) / 93) / 8 90) / (of (of 12 (of (of 10 (of 60) / 75) 60) / 75) 60)

Table 6.27: Personal/private problems

Religion – distribution	R1/R2	Switzerland	Germany
Roman Catholic	106 (62.4%) /	90 (of 132) /	16 (of 38) /
	94 (60.6%)	75 (of 115)	19 (of 40)
Protestant	22 (12.9%) /	7 (of 132) /	15 (of 38) /
	19 (12.3%)	6 (of 115)	13 (of 40)
Orthodox	5 (2.9%) /	3 (of 132) /	2 (of 38) /
	4 (2.6%)	3 (of 115)	1 (of 40)
Christian – others	9 (5.4%) /	8 (of 132) /	1 (of 38) /
	10 (6.5%)	8 (of 115)	2 (of 40)
Muslim	7 (4.1%) /	5 (of 132) /	2 (of 38) /
	2 (1.3%)	2 (of 115)	0 (of 40)
No specific –	6 (3.5%) /	6 (of 132) /	0 (of 38) /
philosophy of life	6 (3.9%)	4 (of 115)	2 (of 40)
No answer	15 (8.4%) /	13 (of 132) /	2 (of 38) /
	20 (12.9%)	17 (of 115)	3 (of 40)

Table 6.28: Religion – distribution

Religion – influences	Within company	Private / individual
Yes	63 (37.1%) / 84 (54.2%)	70 (41.2%) / 91 (58.7)
Minimal / some	17 (21.8%) / 42 (19.8%)	49 (28.8%) / 39 (25.2%)
Philosophy of life	12 (7.1%) / 5 (3.2%)	11 (6.5%) / 7 (4.5%)
None	56 (32.9%) / 23 (14.8%)	39 (22.9%) / 17 (11.0%)

Table 6.29: Religion – influences

Politics – distribution	R1 / R2	Switzerland	Germany
Left	14 (8.2%) /	10 (of 132) /	4 (of 38) /
	16 (10.3%)	11 (of 115)	5 (of 40)
Middle	22 (12.9%) /	13 (of 132) /	9 (of 38) /
	25 (16.1%)	11 (of 115)	14 (of 40)
Right	34 (20.0%) /	28 (of 132) /	6 (of 38) /
	32 (20.7%)	27 (of 115)	5 (of 40)
Theme orientated –	25 (14.7%) /	21 (of 132) /	4 (of 38) /
No party preference	31 (20.0%)	27 (of 115)	4 (of 40)
None	73 (42.9%) /	58 (of 132) /	15 (of 38) /
	50 (32.3%)	38 (of 115)	12 (of 40)

Table 6.30: Politics – distribution

Statement	Round 1	Round 2	Top m. 1	Top m. 2	St. Gallen
<ul> <li>a) Market decides the direction of activities. I agree with this argument because there is no moral or immoral management, there is only good or bad management.</li> </ul>	2.71	2.52	1.81	1.48	54% of all
<li>b) The moral quality of a company is as good as the moral quality of the people working in. In this sense ethics are taken for granted.</li>	3.17	3.34	3.27	3.44	29% of all
<ul> <li>c) A company / person following moral values in business will lose on long terms its / his / her competitiveness.</li> <li>The dilemma to live with is part of management.</li> </ul>	1.38	1.47	1.73	1.63	2% of all
<ul> <li>d) The system of market economy does not automatically lead to the desired results. A behaviour based on moral values is therefore a managerial challenge.</li> </ul>	2.74	2.55	3.19	3.41	41% of all

Table 6.31: Rating of statements - (Most corresponding 4, then 3, 2, 1 – arithmetic mean) – List according to Ulrich et al. (1998)

Statement a) is correlated with 'economist' attitudes, b) with 'conventionalist', c) with 'idealist' and d) with reformist.

Mission, strategies	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ron- ment	Cert. before	Cert. after	Top manag- er
Customer satisfaction: quality, price, info	108 (63.5%) / 75 (48.4%)	9 (of 17) / 9 (of 14)	60 (of 92) / 23 (of 65)	39 (of 62) / 42 (of 76)	62 (of 78) / 53 (of 80)	46 (of 93) / 21 (of 75)	49 (of 90) / 24 (of 60)	14 (of 22) / 9 (of 14)	17 (of 33) / 3 (of 16)	34 (of 66) / 15 (of 52)	20 (of 33) / 16 (of 29)	16 (of 28) / 15 (of 29)
Future orientated, innovative	46 (27.1%) / 48 (31.0%)	1 (of 17) / 6 (of 14)	31 (of 92) / 30 (of 65)	14 (of 62) / 12 (of 76)	24 (of 78) / 22 (of 80)	32 (of 93) / 26 (of 75)	33 (of 90) / 22 (of 60)	4 (of 22) / 2 (of 14)	15 (of 33) / 3 (of 16)	23 (of 66) / 17 (of 52)	10 (of 33) / 7 (of 29)	14 (of 28) / 14 (of 29)
Optimal internal conditions	38 (22.4%) / 36 (23.2%)	3 (of 17) / 1 (of 14)	16 (of 92) / 4 (of 65)	19 (of 62) / 31 (of 76)	18 (of 78) / 18 (of 80)	20 (of 93) / 18 (of 75)	15 (of 90) / 13 (of 60)	7 (of 22) / 2 (of 14)	5 (of 33) / 6 (of 16)	14 (of 66) / 15 (of 52)	8 (of 33) / 7 (of 29)	5 (of 28) / 4 (of 29)
Optimal market position	24 (14.1%) / 23 (14.8%)	5 (of 17) / 1 (of 14)	14 (of 92) / 20 (of 65)	5 (of 62) / 2 (of 76)	8 (of 78) / 5 (of 80)	18 (of 93) / 18 (of 75)	17 (of 90) / 13 (of 60)	4 (of 22) / 8 (of 14)	5 (of 33) / 2 (of 16)	11 (of 66) / 12 (of 52)	7 (of 33) / 2 (of 29)	4 (of 28) / 5 (of 29)
Achievement of objectives, profit	17 (10.0%) / 10 (6.5%)	3 (of 17) / 2 (of 14)	10 (of 92) / 5 (of 65)	4 (of 62) / 3 (of 76)	8 (of 78) / 4 (of 80)	9 (of 93) / 6 (of 75)	11 (of 90) / 5 (of 60)	1 (of 22) / 1 (of 14)	4 (of 33) / 1 (of 16)	6 (of 66) / 4 (of 52)	4 (of 33) / 1 (of 29)	8 (of 28) / 5 (of 29)
Offering jobs, education	17 (10.0%) / 10 (6.5%)	0 (of 17) / 0 (of 14)	12 (of 92) /4 (of 65)	5 (of 62) / 6 (of 76)	7 (of 78) / 6 (of 80)	10 (of 93) / 4 (of 75)	10 (of 90) / 6 (of 60)	2 (of 22) / 1 (of 14)	2 (of 33) / 2 (of 16)	7 (of 66) / 3 (of 52)	2 (of 33) / 2 (of 29)	4 (of 28) / 3 (of 29)
Flexibility, independence	7 (4.1%) / 14 (9.0%)	1 (of 17) / 3 (of 14)	3 (of 92) / 7 (of 65)	3 (of 62) / 4 (of 76)	4 (of 78) / 10 (of 80)	3 (of 93) / 4 (of 75)	2 (of 90) / 6 (of 60)	2 (of 22) / 3 (of 14)	4 (of 33) / 2 (of 16)	1 (of 66) / 2 (of 52)	3 (of 33) / 5 (of 29)	0 (of 28) / 4 (of 29)
Transfer: optimising mgmt system	130 (76.5%) / 109 (70.3%)	13 (of 17) / 11 (of 14)	68 (of 92) / 45 (of 65)	49 (of 62) / 53 (of 76)	61 (of 78) /63 (of 80)	69 (of 93) / 47 (of 75)	68 (of 90) / 41 (of 60)	19 (of 22) / 11 (of 14)	22 (of 33) / 11 (of 16)	49 (of 66) / 30 (of 52)	25 (of 33) / 22 (of 29)	22 (of 28) / 21 (of 29)
Transfer: staffs integration, supporting	48 (28.2%) / 58 (37.4%)	6 (of 17) / 5 (of 14)	26 (of 92) /24 (of 65)	16 (of 62) / 29 (of 76)	24 (of 78) / 28 (of 80)	24 (of 93) / 30 (of 75)	27 (of 90) / 23 (of 60)	5 (of 22) / 4 (of 14)	11 (of 33) / 6 (of 16)	18 (of 66) / 22 (of 52)	10 (of 33) / 9 (of 29)	6 (of 28) / 6 (of 29)
Transfer: innovation, expansion	32 (18.8%) / 26 (18.8%)	0 (of 17) / 2 (of 14)	20 (of 92) / 16 (of 65)	12 (of 62) / 8 (of 76)	12 (of 78) /10 (of 80)	20 (of 93) / 16 (of 75)	21 (of 90) / 11 (of 60)	2 (of 22) / 1 (of 14)	12 (of 33) / 1 (of 16)	15 (of 66) / 9 (of 52)	5 (of 33) / 6 (of 29)	8 (of 28) / 12 (of 29)

Table 6.32: Mission and strategies: issues and transfer

Objectives – transfer	R1/ R2	Micro	Small	Medi- um	Ser- vice	Pro- duc- tion	Quali- ty	Inte- gra- tion	Envi- ron- ment	Cert. before	Cert. after	Top man- ager
Effectiveness	70 (41.2% )/78 (50.3%	6 (of 17) /	43 (of 92) /	21 (of 62) /	27 (of 78) / 34 (of 80)	43 (of 93) / 44 (of 75)	39 (of 90) / 32 (of 60)	9 (of 22) / 4 (of 14)	18 (of 33) / 14 (of 16)	25 (of 66) / 29 (of 52)	16 (of 33) / 10 (of 29)	19 (of 28) / 21 (of 29)
Quality optimisation	03 (37.1% ) / 72 (46.5%	5 (of 17) / 4 (of 14)	37 (of 92) / 31 (of 65)	21 (of 62) / 37 (of 76)	34 (of 78) / 44 (of 80)	29 (of 93) / 28 (of 75)	25 (of 90) / 28 (of 60)	7 (of 22) / 4 (of 14)	7 (of 33) / 4 (of 16)	27 (of 66) / 23 (of 52)	11 (of 33) / 13 (of 29)	14 (of 28) / 12 (of 29)
Innovation (customers, marketing, installation)	51 (30.0% )/35 (22.6%	3 (of 17) / 4 (of 14)	22 (of 92) / 9 (of 65)	26 (of 62) / 22 (of 76)	35 (of 78) /25 (of 80)	26 (of 93) / 10 (of 75)	30 (of 90) / 15 (of 60)	9 (of 22) / 7 (of 14)	17 (of 33) / 2 (of 16)	25 (of 66) / 10 (of 52)	12 (of 33) / 12 (of 29)	10 (of 28) / 8 (of 29)
People integration, offering jobs	14 (8.2%) /17 (11.0%	2 (of 17) / 3 (of 14)	7 (of 92) / 5 (of 65)	5 (of 62) / 9 (of 76)	4 (of 78) / 9 (of 80)	10 (of 93) / 8 (of 75)	7 (of 90) / 6 (of 60)	1 (of 22) / 3 (of 14)	1 (of 33) / 2 (of 16)	7 (of 66) / 5 (of 52)	1 (of 33) / 4 (of 29)	5 (of 28) / 6 (of 29)
None, unknown	22 (12.9% ) / 12 (7.7%)	6 (of 17) / 1 (of 14)	9 (of 92) / 6 (of 65)	7 (of 62) / 4 (of 76)	6 (of 78) / 3 (of 80)	7 (of 93) / 8 (of 75)	9 (of 90) / 2 (of 60)	3 (of 22) / 0 (of 14)	0 (of 33) / 0 (of 16)	6 (of 66) / 3 (of 52)	4 (of 33) / 0 (of 29)	1 (of 28) / 0 (of 29)
Transfer: quality opti- misation	93 (54.7% ) / 66 (42.6%	10 (of 17) / 6 (of 14)	50 (of 92) / 28 (of 65)	33 (of 62) / 32 (of 76)	38 (of 78) / 28 (of 80)	55 (of 93) / 38 (of 75)	54 (of 90) / 29 (of 60)	17 (of 22) / 7 (of 14)	25 (of 33) / 9 (of 16)	41 (of 66) / 26 (of 52)	23 (of 33) / 19 (of 29)	18 (of 28) / 16 (of 29)
Transfer: people inte- gration	58 (34.1% ) / 63 (40.6%	2 (of 17) / 4 (of 14)	35 (of 92) / 21 (of 65)	21 (of 62) / 38 (of 76)	26 (of 78) / 30 (of 80)	32 (of 93) / 33 (of 75)	35 (of 90) / 23 (of 60)	5 (of 22) / 6 (of 14)	8 (of 33) / 6 (of 16)	25 (of 66) / 27 (of 52)	10 (of 33) / 12 (of 29)	12 (of 28) / 11 (of 29)
Transfer: customer relations	50 (29.4% ) / 61 (39.4%	(of 17) / 6 (of 14)	(of 92) / 29 (of 65)	(of 62) / 26 (of 76)	20 (of 78) / 42 (of 80)	30 (of 93) / 19 (of 75)	22 (of 90) / 23 (of 60)	7 (of 22) / 4 (of 14)	11 (of 33) / 7 (of 16)	17 (of 66) / 12 (of 52)	9 (of 33) / 11 (of 29)	9 (of 28) / 19 (of 29)
Transfer: none, un- known	17 (10.0% ) / 18 (11.6%	3 (of 17) / 2 (of 14)	10 (of 92) / 8 (of 65)	4 (of 62) / 7 (of 76)	6 (of 78) / 8 (of 80)	11 (of 93) / 9 (of 75)	5 (of 90) / 3 (of 60)	1 (of 22) / 1 (of 14)	1 (of 33) / 1 (of 16)	5 (of 66) / 4 (of 52)	1 (of 33) / 1 (of 29)	2 (of 28) / 0 (of 29)

Table 6.33: Actual objectives: issues and transfer

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Management system – actual	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after	Top manag- er
Quality (ISO 9001, Tourism)	90 (52.9%) /70 (45.2%)	4 (of 17) / 0 (of 14)	55 (of 92) / 43 (of 65)	31 (of 62) / 27 (of 76)	24 (of 78) / 24 (of 80)	66 (of 93) / 46 (of 75)	90 (of 90) / 48 (of 60)	4 (of 22) / 3 (of 14)	26 (of 33) / 8 (of 16)	66 (of 66) / 34 (of 52)	15 (of 33) / 13 (of 29)	12 (of 28) / 12 (of 29)
Integration (BSC, EFQM)	22 (12.9%) / 5 (3.2%)	4 (of 17) / 4 (of 14)	0 (of 92) / 0 (of 65)	18 (of 62) / 1 (of 76)	15 (of 78) / 4 (of 80)	7 (of 93) / 1 (of 75)	4 (of 90) / 4 (of 60)	22 (of 22) / 5 (of 14)	7 (of 33) / 1 (of 16)	0 (of 66) / 0 (of 52)	22 (of 33) / 5 (of 29)	3 (of 28) / 2 (of 29)
Industry	28 (16.5%) /18 (11.6%)	0 (of 17) / 0 (of 14)	17 (of 92) / 18 (of 65)	11 (of 62) / 0 (of 76)	15 (of 78) /4 (of 80)	13 (of 93) / 14 (of 75)	14 (of 90) / 13 (of 60)	11 (of 22) / 0 (of 14)	5 (of 33) / 5 (of 16)	10 (of 66) / 11 (of 52)	15 (of 33) / 14 (of 29)	4 (of 28) / 3 (of 29)
Environment	33 (19.4%) /13 (8.4%)	0 (of 17) / 0 (of 14)	14 (of 92) / 5 (of 65)	19 (of 62) / 8 (of 76)	4 (of 78) / 4 (of 80)	29 (of 93) / 9 (of 75)	26 (of 90) / 5 (of 60)	7 (of 22) / 3 (of 14)	33 (of 33) / 8 (of 16)	22 (of 66) / 11 (of 52)	11 (of 33) / 12 (of 29)	5 (of 28) / 3 (of 29)
SHO	49 (28.8%) /10 (6.5%)	5 (of 17) / 3 (of 14)	31 (of 92) / 7 (of 65)	13 (of 62) / 0 (of 76)	10 (of 78) / 6 (of 80)	39 (of 93) / 4 (of 75)	29 (of 90) / 1 (of 60)	0 (of 22) / 0 (of 14)	1 (of 33) / 0 (of 16)	22 (of 66) / 0 (of 52)	7 (of 33) / 1 (of 29)	8 (of 28) / 4 (of 29)
Company	29 (17.1%) /58 (34.7%)	7 (of 17) / 7 (of 14)	17 (of 92) / 19 (of 65)	5 (of 62) / 31 (of 76)	23 (of 78) / 41 (of 80)	6 (of 93) / 16 (of 75)	0 (of 90) / 0 (of 60)	0 (of 22) / 7 (of 14)	0 (of 33) / 0 (of 16)	0 (of 66) / 26 (of 52)	0 (of 33) / 12 (of 29)	7 (of 28) / 12 (of 29)

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Table 6.34: Management systems: actual

Management system – experiences	R1 / R2	Micro	Small	Medi- um	Ser- vice	Pro- duc- tion	Quali- ty	Integra gra- tion	Envi- ron- ment	Cert. before	Cert. after	Top manag- er
Staffs sensitisation, information, training, lists	82 (48.2%) / 103 (65.6%)	8 (of 17) / 10 (of 14)	43 (of 92) / 44 (of 65)	31 (of 62) / 47 (of 76)	43 (of 78) / 60 (of 80)	39 (of 93) / 42 (of 75)	42 (of 90) / 37 (of 60)	11 (of 22) / 4 (of 14)	17 (of 33) / 10 (of 16)	28 (of 66) / 33 (of 52)	17 (of 33) / 13 (of 29)	21 (of 28) / 23 (of 29)
Problems with start, stress, opposition	18 (10.6%) / 5 (3.2%)	0 (of 17) / 4 (of 14)	7 (of 92) / 0 (of 65)	11 (of 62) / 1 (of 76)	6 (of 78) / 4 (of 80)	12 (of 93) / 1 (of 75)	12 (of 90) / 4 (of 60)	5 (of 22) / 5 (of 14)	4 (of 33) / 1 (of 16)	11 (of 66) / 0 (of 52)	6 (of 33) / 5 (of 29)	1 (of 28) / 2 (of 29)
Positive, system oper- ates	18 (10.6%) / 24 (15.5%)	1 (of 17) / 2 (of 14)	9 (of 92) / 11 (of 65)	8 (of 62) / 11 (of 76)	6 (of 78) / 7 (of 80)	12 (of 93) / 17 (of 75)	12 (of 90) / 13 (of 60)	6 (of 22) / 4 (of 14)	4 (of 33) / 4 (of 16)	10 (of 66) / 9 (of 52)	7 (of 33) / 11 (of 29)	0 (of 28) / 6 (of 29)
Minimal, no training, unknown	47 (27.6%) / 20 (12.9%)	7 (of 17) / 1 (of 14)	29 (of 92) / 9 (of 65)	11 (of 62) / 10 (of 76)	19 (of 78) / 7 (of 80)	28 (of 93) / 13 (of 75)	22 (of 90) / 6 (of 60)	5 (of 22) / 4 (of 14)	8 (of 33) / 2 (of 16)	19 (of 66) / 7 (of 52)	5 (of 33) / 4 (of 29)	4 (of 28) / 0 (of 29)

Table 6.35: Reason for man-	7
agement system implementation	iı

Table 6.36: Management systemsimplementation: experiences

External (customers, market, regulations)	13/13	3/2	7/7	3/3	1 / 5	6/7	7/7	2/1	2/2	4/5	3/3
Internal (effectiveness, procedures)	3/3	1/1	2/2	0 / 0	7/1	2/2	1/1	0 / 0	0 / 0	1/1	0 / 0
Mix: external, internal	6/6	1 / 0	3/3	4/5	2/9	2/1	4/3	1/1	3/2	2/1	2/2

Cert. after

Cert. before

Environment

Integration

Quality

Production

Service

Medium

Small

Micro

R1/R2

Reason for implementation

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Management system – influences	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ ron- ment	Cert. before	Cert. after	Top manag- er
Minimal	20 (11.8%) / 12 (7.7%)	0 (of 17) / 1 (of 14)	15 (of 92) / 7 (of 65)	5 (of 62) / 4 (of 76)	8 (of 78) / 5 (of 80)	12 (of 93) / 7 (of 75)	12 (of 90) / 3 (of 60)	1 (of 22) / 4 (of 14)	3 (of 33) / 0 (of 16)	9 (of 66) / 5 (of 52)	2 (of 33) / 0 (of 29)	1 (of 28) / 1 (of 29)
Quite a lot, daily work	20 (11.8%) / 8 (5.2%)	2 (of 17) / 1 (of 14)	9 (of 92) / 2 (of 65)	9 (of 62) / 5 (of 76)	5 (of 78) / 5 (of 80)	15 (of 93) / 3 (of 75)	17 (of 90) / 1 (of 60)	2 (of 22) / 0 (of 14)	4 (of 33) / 1 (of 16)	12 (of 66) / 1 (of 52)	5 (of 33) / 5 (of 29)	3 (of 28) / 1 (of 29)
Main responsibility	16 (9.4%) / 26 (16.8%)	2 (of 17) / 3 (of 14)	9 (of 92) / 13 (of 65)	5 (of 62) / 10 (of 76)	10 (of 78) / 14 (of 80)	6 (of 93) / 17 (of 75)	8 (of 90) / 11 (of 60)	3 (of 22) / 3 (of 14)	4 (of 33) / 4 (of 16)	4 (of 66) / 7 (of 52)	4 (of 33) / 6 (of 29)	15 (of 28) / 26 (of 29)
None	38 (22.4%) / 5 (3.2%)	7 (of 17) / 0 (of 14)	21 (of 92) / 2 (of 65)	10 (of 62) / 3 (of 76)	18 (of 78) / 1 (of 80)	20 (of 93) / 4 (of 75)	12 (of 90) / 3 (of 60)	4 (of 22) / 0 (of 14)	8 (of 33) / 1 (of 16)	10 (of 66) / 4 (of 52)	5 (of 33) / 0 (of 29)	4 (of 28) / 0 (of 29)
Optimising: procedures, meetings, know-ledge	69 (40.6%) / 86 (55.5%)	5 (of 17) / 8 (of 14)	34 (of 92) / 33 (of 65)	30 (of 62) / 44 (of 76)	27 (of 78) / 49 (of 80)	42 (of 93) / 36 (of 75)	43 (of 90) / 38 (of 60)	9 (of 22) / 7 (of 14)	16 (of 33) / 10 (of 16)	34 (of 66) / 31 (of 52)	15 (of 33) / 15 (of 29)	13 (of 28) / 5 (of 29)
Behaviour (customers, intern), effectiveness	29 (27.1%) / 38 (24.5%)	4 (of 17) / 4 (of 14)	14 (of 92) / 15 (of 65)	11 (of 62) / 19 (of 76)	16 (of 78) / 20 (of 80)	13 (of 93) / 18 (of 75)	14 (of 90) / 17 (of 60)	6 (of 22) / 4 (of 14)	3 (of 33) / 4 (of 16)	9 (of 66) / 12 (of 52)	9 (of 33) / 9 (of 29)	1 (of 28) / 4 (of 29)

Table 6.37: Management systems:possibilities of influence/interaction

Management system – planned	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after	Top manag- er
Quality (ISO 9001, Tourism)	18 (10.6%) /20 (12.9%)	0 (of 17) / 0 (of 14)	11 (of 92) / 13 (of 65)	7 (of 62) / 7 (of 76)	11 (of 78) / 13 (of 80)	7 (of 93) / 7 (of 75)	13 (of 90) / 10 (of 60)	3 (of 22) / 1 (of 14)	3 (of 33) / 1 (of 16)	7 (of 66) / 7 (of 52)	3 (of 33) / 1 (of 29)	6 (of 28) / 2 (of 29)
Integration (BSC, EFQM)	10 (5.9%) / 14 (9.0%)	1 (of 17) / 4 (of 14)	9 (of 92) / 8 (of 65)	0 (of 62) / 2 (of 76)	1 (of 78) / 6 (of 80)	9 (of 93) / 8 (of 75)	10 (of 90) / 11 (of 60)	1 (of 22) / 4 (of 14)	1 (of 33) / 1 (of 16)	9 (of 66) / 9 (of 52)	1 (of 33) / 4 (of 29)	2 (of 28) / 7 (of 29)
Industry	0 / 12 (7.7%)	0 / 0 (of 14)	7 / 11 (of 65)	1 / 1 (of 76)	0 / 2 (of 80)	8 / 10 (of 75)	7 / 9 (of 60)	0 / 0 (of 14)	0 / 1 (of 16)	7 / 10 (of 52)	0 / 1 (of 29)	0 (of 28) / 2 (of 29)
Environment	4 (2.4%) / 0	0 (of 17) /	4 (of 92) /	0 (of 62) /	0 (of 78) /	4 (of 93) /	4 (of 90) /	0 (of 22) /	0 (of 33) /	4 (of 66) /	0 (of 33) /	0 (of 28) / 0 (of 29)
Unknown, none	137 (81.0%) /109 (70.7%)	15 (of 17) / 10 (of 14).	67 (of 92) / 27 (of 65)	55 (of 62) / 64 (of 76)	63 (of 78) / 58 (of 80)	74 (of 93) / 50 (of 75)	62 (of 90) / 30 (of 60)	18 (of 22) / 9 (of 14)	29 (of 33) / 13 (of 16)	47 (of 66) / 26 (of 52)	29 (of 33) / 23 (of 29)	20 (of 28) / 18 (of 29)

Table 6.38: Management systems:planned

Management system – planned – activity	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ ron- ment	Cert. before	Cert. after	Top manager
Strategy / objectives, integration, processes	14 (8.2%) / 27 (17.3%)	1 (of 17) / 1 (of 14)	11 (of 92) / 21 (of 65)	2 (of 62) / 6 (of 76)	3 (of 78) / 10 (of 80)	1 (of 93) / 17 (of 75)	13 (of 90) / 18 (of 60)	2 (of 22) / 9 (of 14)	2 (of 33) / 3 (of 16)	11 (of 66) / 18 (of 52)	2 (of 33) / 4 (of 29)	3 (of 28) / 10 (of 29)
Unknown	150 (88.2%) / 125 (80.6%)	15 (of 17) / 13 (of 14)	76 (of 92) / 43 (of 65)	59 (of 62) / 68 (of 76)	69 (of 78) / 67 (of 80)	81 (of 93) / 57 (of 75)	74 (of 90) / 39 (of 60)	19 (of 22) / 12 (of 14)	30 (of 33) / 12 (of 16)	54 (of 66) / 33 (of 52)	30 (of 33) / 24 (of 29)	20 (of 28) / 18 (of 29)

Table 6.39: Management systems: planned/already implemented activities

Quality	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after	Top manag- er
Customer orientation (product, performance)	110 (64.7%) / 97 (62.2%)	8 (of 17) / 8 (of 14)	61 (of 92) / 46 (of 65)	41 (of 62) / 43 (of 76)	53 (of 78) / 50 (of 80)	57 (of 93) / 47 (of 75)	51 (of 90) / 41 (of 60)	16 (of 22) / 9 (of 14)	20 (of 33) / 9 (of 16)	37 (of 66) / 34 (of 52)	22 (of 33) / 19 (of 29)	22 (of 28) / 24 (of 29)
Behaviour (professional, communicative)	78 (45.9%) / 67 (43.2%)	13 (of 17) / 9 (of 14)	39 (of 92) / 29 (of 65)	26 (of 62) / 28 (of 76)	31 (of 78) / 36 (of 80)	47 (of 93) / 30 (of 75)	52 (of 90) / 18 (of 60)	10 (of 22) / 6 (of 14)	18 (of 33) / 6 (of 16)	35 (of 66) / 17 (of 52)	18 (of 33) / 11 (of 29)	11 (of 28) / 8 (of 29)
Identification (with product)	8 (4.7%) / 21 (13.5%)	0 (of 17) / 3 (of 14)	4 (of 92) / 9 (of 65)	4 (of 62) / 9 (of 76)	4 (of 78) / 15 (of 80)	4 (of 93) / 6 (of 75)	3 (of 90) / 6 (of 60)	2 (of 22) / 3 (of 14)	0 (of 33) / 1 (of 16)	1 (of 66) / 2 (of 52)	4 (of 33) / 7 (of 29)	3 (of 28) / 5 (of 29)
Influence: behaviour, equipment, material	122 (71.8%) / 144 (73.5%)	13 (of 17) / 10 (of 14)	96 (of 92) / 50 (of 65)	40 (of 62) / 53 (of 76)	50 (of 78) / 51 (of 80)	72 (of 93) / 62 (of 75)	71 (of 90) / 47 (of 60)	14 (of 22) / 10 (of 14)	25 (of 33) / 13 (of 16)	52 (of 66) / 42 (of 52)	23 (of 33) / 21 (of 29)	13 (of 28) / 16 (of 29)
Influence: staffs integration, motivation	47 (27.6%) / 29 (25.2%)	4 (of 17) / 3 (of 14)	23 (of 92) / 13 (of 65)	20 (of 62) / 23 (of 76)	30 (of 78) / 24 (of 80)	17 (of 93) / 15 (of 75)	17 (of 90) / 12 (of 60)	8 (of 22) / 3 (of 14)	3 (of 33) / 2 (of 16)	13 (of 66) / 11 (of 52)	9 (of 33) / 7 (of 29)	14 (of 28) / 11 (of 29)
Influence: customer orientation	37 (21.8%) / 25 (16.1%)	5 (of 17) / 3 (of 14)	18 (of 92) / 10 (of 65)	14 (of 62) / 12 (of 76)	20 (of 78) / 19 (of 80)	17 (of 93) / 6 (of 75)	20 (of 90) / 9 (of 60)	6 (of 22) / 3 (of 14)	6 (of 33) / 1 (of 16)	15 (of 66) / 6 (of 52)	8 (of 33) / 4 (of 29)	13 (of 28) / 7 (of 29)

Table 6.40: Quality: definition and influence

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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Risk management	R1/R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ- ment	Cert. before	Cert. after
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Comprehensive	7 (of 26) / 8 (of 26)	1 (of 7) / 1 (of 7)	4 (of 10) / 3 (of 11)	2 (of 9) / 3 (of 8)	6 (of 14) / 4 (of 14)	1 (of 12) / 3 (of 12)	4 (of 12) / 4 (of 12)	2 (of 5) / 2 (of 5)	1 (of 5) / 2 (of 5)	1 (of 7) / 3 (of 8)	2 (of 5) / 2 (of 5)
	Partly	15 (of 26) / 18 (of 26)	2 (of 7) / 2 (of 7)	6 (of 10) / 8 (of 11)	5 (of 9) / 6 (of 8)	6 (of 14) / 9 (of 14)	7 (of 12) /7 (of 12)	8 (of 12) / 6 (of 12)	1 (of 5) / 0 (of 5)	4 (of 5) / 2 (of 5)	6 (of 7) / 4 (of 8)	3 (of 5) / 2 (of 5)

Table 6.41: Risk management –
company data

Requirements	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ- ment	Cert. before	Cert. after
Regulatory	13 / 13	3/3	7/7	3/3	1/1	6 / 7	7/7	2/1	2/2	4/5	3/3
Industry	3/3	1/1	2/	0 / 0	1/1	2/2	1/1	0 / 0	0 / 0	1/1	0 / 0
Mix: public / industry	6/6	1 / 0	3/3	4/5	6/7	5/1	4/3	1/1	3/2	2/1	2/2

Table 6.42: Requirements

Public relations	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Environ- ment	Cert. before	Cert. after
Advertisements, expositions	21/24	2/3	11/9	6 / 2	9 / 11	11 / 10	10 / 9	2/2	4/3	2 / 6	3 / 4
Personal contacts, events	21/14	5/3	9/6	5/4	11/9	8/6	6/7	3/1	3/1	5/4	5/4
Mailings	16/14	3/3	9/6	3/3	7/7	8/2	7/4	2/1	3/1	4/3	4/3
Customer call	13/5	1/0	8/2	3/3	4/3	8/2	6/3	1/1	2/0	4/3	2/1
Sponsoring	5/3	2/0	2/2	1/1	3/2	1/1	1/1	0 / 0	1/1	1/1	0

Table 6.43: Public relations

CompetitorsR1 / R2MicroSmallMediumServiceProduc- tionLugityLingtha- tionEnvi- beforeCent. tent. <th></th>												
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Competitors	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
5/6         1/1         9/8         4/6         7/8         8/7         6/5         1/1         3/2         4/6           13/         0/0         2/1         0/1         0/0         2/2         2/2         0/0         1/1         2/2	Good relation / partnership	10 / 10	3/3	3 / 4		7/6		4/4	2/1	1/1	1/2	3 / 1
13/ 11         0/0         2/1         0/1         0/0         2/2         2/2         0/0         1/1	Competition	5/6	1/1	6 / 8		7/8	8 / 7	6/5	1/1	3/2	4/6	2/4
	Mix: relation / competition	13 / 11	0 / 0	2 / 1	0 / 1	0 / 0	2/2	2/2	0 / 0	1/1		0

Table 6.44: Competitors

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Customers	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
Private	10 / 10	1/2	5/3	4/5	7/8	3/2	5/4	1 / 0	1/1	3/2	1/1
Companies	5/6	1/1	3/3	1/1	2/2	3/3	4/4	2/2	3/3	2/2	3/3
Mix: private /companies / public	13 / 11	3/1	6/6	2/3	5/4	6/6	3/2	0 / 0	1 / 0	2/2	-

Market position	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after
Niche	11 (of	4 (of 7)	6 (of	1 (of 9)	9 (of	2 (of	3 (of	2 (of 5)	0 (of 5)	1 (of 7)	0 (of 5)
	26) / 12	/ 3 (of	10) /	/ 3 (of	14) / 9	12) / 4	12) / 3	/ 2 (of	/ 0 (of	/ 2 (of	/ 0 (of
	(of 26)	7)	7(of 11)	8)	(of 14)	(of 12)	(of 11)	5)	5)	8)	5)
Leader	15 (of	1 (of 7)	8 (of	6 (of 9)	5 (of	10 (of	9 (of	1 (of 5)	5 (of 5)	6 (of 7)	5 (of 5)
	26) / 14	/ 1 (of	10) / 6	/ 6 (of	14) / 5	12) / 8	12) / 8	/ 1 (of	/ 4 (of	/ 5 (of	/ 5 (of
	(of 26)	7)	(of 11)	8)	(of 14)	(of 12)	(of 11)	5)	5)	8)	5)

5/3 0/0 0/1 Cert. after 0/0 7/6 0/0 Cert. before Envi-ronment 0/0 0/0 5/4 Integra-tion 0/0 3/3 0/0 Quality 0 / 0 0/0 12/ Produc-tion 6/6 1/1 2/1 Service 0/0 1/1 13/ Medium 0/1 2/7 0/1 1/0 2/1 <u>1</u>0 Small 1/0 4/3 0/0 Micro 3/2 R1 / R2 1/1 24 / 23 Mix: price/ partnership Suppliers, partners Price decisive Partnership

Table 6.45: Customers

Table 6.46: Market Position – company data

Table 6.47: suppliers, partners

Annexes 469

Physical environment	R1 / R2	Micro	Small	Medium	Service	Produc- tion	Quality	Integra- tion	Envi- ronment	Cert. before	Cert. after	Top manag- er
Aspects: material use, recy- cling	142 (83.5%) / 129 (83.2%)	13 (of 17) / 12 (of 14)	76 (of 92) / 54 (of 65)	53 (of 62) / 62 (of 76)	60 (of 78) /60 (of 80)	82 (of 93) / 68 (of 75)	76 (of 90) / 53 (of 60)	19 (of 22) / 12 (of 14)	26 (of 33) /13 (of 16)	57 (of 66) / 47 (of 52)	28 (of 33) /23 (of 29)	26 (of 28) / 26 (of 29)
Aspects: economise (energy, water)	49 (28.8%) / 43 (27.2%)	6 (of 17) / 6 (of 14)	18 (of 92) / 19 (of 65)	25 (of 62) / 18 (of 76)	25 (of 78) /26 (of 80)	28 (of 93) / 17 (of 75)	27 (of 90) /17 (of 60)	9 (of 22) / 4 (of 14)	15 (of 33) / 6 (of 16)	17 (of 66) / 13 (of 52)	14 (of 33) /11 (of 29)	17 (of 28) / 18 (of 29)
Aspects: minimal, none	15 (9.0%) / 16 (10.3%)	2 (of 17) / 0 (of 14)	10 (of 92) / 7 (of 65)	3 (of 62) / 9 (of 76)	7 (of 78) /11 (of 80)	8 (of 93) / 5 (of 75)	8 (of 90) / 3 (of 60)	1 (of 22) / 2 (of 14)	2 (of 33) / 0 (of 16)	6 (of 66) / 4 (of 52)	1 (of 33) / 2 (of 29)	0 (of 28) / 0 (of 29)

1 (of 28) / 0 (of 29) Top manag-er 4 (of 28) / 4 (of 29) 23 (of 28) / 25 (of 29) 1 (of 33) / 0 (of 29) 5 (of 33) /14 (of 29) 27 (of 33) / 15 (of 29) Cert. 7 (of 66) / 3 (of 52) 12 (of 66) / 5 (of 52) Cert. before 47 (of 66) / 42 (of 52) Envi-ronment 1 (of 33) / 0 (of 16) 7 (of 33) / 5 (of 16) 25 (of 33) / 11 (of 16) 1 (of 22) / 0 (of 14) Integra-tion 17 (of 22) / 3 (of 14) 4 (of 22) / 11 (of 14) 19 (of 90) /13 (of 60) Quality 8 (of 90) / 2 (of 60) 63 (of 90) / 44 (of 60) Produc-tion 12 (of 93) / 4 (of 75) 16 (of 93) / 10 (of 75) 65 (of 93) / 60 (of 75) Service 5 (of 78) / 0 (of 80) 12 (of 78) /24 (of 80) (of /54 80) 69 ( 78) (of 8 Medium 4 (of 62) / 2 (of 76) 9 (of 62) / 19 (of 76) 49 (of 62) / 53 (of 76) 15 (of 92) / 9 (of 65) 11 (of 92) / 2 (of 65) 65 (of 92) / 53 (of 65) Small 2 (of 17) / 0 (of 14) 4 (of 17) / 6 (of 14) 10 (of 17) / 8 (of 14) Micro 17 (10.0%) /4 (2.6%) 28 (16.5%) / 34 (21.9%) 124 (72.9%) /115 (74.2%) R1/R2 Influence: daily activities Physical environm. Influence: minimal Influence: none

Table 6.48: Physical envi-ronment: aspects

Table 6.49: Physical environment:influence on activities

Company Number	8		9		10		11		12	
SME - general data										
Ownership	4	4	4	4	2	2	4	4	4	4
Leadership – decisions making	2	2	4	4	2	2	4	4	2	2
People	2	2	4	4	2	2	2	2	2	2
Patterns of organisation	2	2	4	4	4	4	4	4	2	2
Culture / traditions	2	2	4	4	2	2	4	4	2	2
Values: ideal boss / employee	2	2	4	4	4	4	4	4	2	2
Communication	2	2	4	4	2	2	2	2	2	4
Finance: Turnover – cash flow - profit	2	2	4	4	4	4	4	4	4	4
Resources: people, finance, time	2	2	4	4	2	2	4	4	2	2
Environment										
Society: Public – sponsoring	2	2	4	4	2	2	4	4	2	2
Society: Legislation	2	2	4	4	4	4	4	4	2	2
Society: Associations	4	4	4	4	4	4	4	4	2	2
Economy: Innovation / agility / PR	4	4	4	4	4	4	4	4	4	4
Economy: Market position / geograph- ical range	4	4	4	4	4	4	4	4	4	4
Economy: Customers – competitors	4	4	4	4	4	4	4	4	4	4
Economy: Suppliers / partners	4	4	4	4	4	4	4	4	4	4
Economy: Financing	4	4	4	4	4	4	4	4	4	4
Physical Environment: Sustainability	2	2	4	4	4	4	4	4	4	4

No Concept 1 – Shop floor 2 – External pressure 3 – Circularity 4 Form of management system: w = without / \_ = no recertification / Q = quality / QE = quality and environment

Company Number	8		9		10		11		12	
Company Number	8		9		10		11		12	
Morality										
Morality: Motivation	2	2	4	4	2	2	4	4	1	1
Morality: Specifications	2	2	4	4	2	2	4	4	2	2
Morality: Sustainability – codification	2	2	2	4	4	4	2	2	4	4
Management system										
Mgmt-System: Mission / strategies – statement	4	4	4	4	4	4	4	4	4	4
Mgmt-System: Range - formality	1	1	4	4	4	4	4	4	2	2
Mgmt-System: Q: definition, - methods - praxis	4	4	4	4	2	2	4	4	2	2
Mgmt-System: Control- ling, risk mgmt	4	4	4	4	4	4	4	4	2	2
Mgmt-System: Knowledge mgmt	4	4	4	4	2	2	4	4	2	2
Mgmt-System: Com- prehensiveness	2	2	4	4	2	2	2	2	2	2
Final characterisation										
No Concept 1	1	1							1	1
Shop floor 2	15	15	1		12	12	4	4	16	15
External pressure 3										
Circularity 4	11	11	26	27	15	15	23	23	10	11
Evaluation	2_ 4	2_ 4	4* *	4* *	4_ 2	4_ 2	4*	4*	2_ 4	2_ 4
Form of Management- system	w	w	Q E	Q E	Q	Q	Q E	Q E	w	w

*Table 6.50: Basic matrix: evaluation of companies (extract)* 

# 6.4 Questionnaire – English version

# The Open University, GB-Milton Keynes PhD - Project - Jörg Bürgi, CH-Ennetbürgen - Questionnaire

# Management systems – ways to the implementation of company ethics?

## Responsible

Jörg Bürgi, Diploma in Theology, MSc in Manufacturing - Management and Technology, Stadelstrasse 21, 6373 Ennetbürgen, Switzerland; Office 0041 41 610 74 47; buergi@kan.ch Since 2009: Däntschgass 3, 4803 Vordemwald, Switzerland; 0041 62 535 16 69; j.buergi@kmu-nachhaltig.ch

# Supervisors

- The Open University, Faculty of Technology, Department of Environmental and Mechanical Engineering, GB-Milton Keynes (Supervisor: Dr. Rod S. Barratt)
- Until 2004: Universität Zürich, Philosophisches Seminar, Institut für Sozialethik, CH-Zurich (Co-supervisor: Prof. Dr. Johannes Fischer)
- Since 2004: Université de Lausanne, Faculté des Hautes Etudes Commerciales, CH-Lausanne (Co-supervisor: Prof. Dr. Guido Palazzo)

Original: English version German translation was examined by Prof. J. Fischer

# QUESTIONNAIRE - No 00 - 000 Questionnaire for the top management

# Background/history of the company

- Year of foundation
- Reasons for foundation: history, specific changes

- Main products/services: history, specific changes
- Main procedures/processes: history, specific changes
- Ownership: history, specific changes
- Company culture: traditions, rites, values, corporate identity
- Locations, agents: own, hired
- Main customers: history, specific changes
- Co-operations with partners and suppliers: history, specific changes
- Main competitors: history, specific changes, relations
- Methodology of publicity
- Membership in organisations
- Financing, access to capital
- Main events

Question No	Inter- view I – Date:	Interview II –Date:
To which industry belongs your company (Defini- tion according to the EAC-codes – if several possi- ble: Definition according to the main activity)?		
Which actually are the main products/services of your company?		
Which position do these products/services have within the market (cost, technology, know-how leadership/differentiation)?		
To whom belongs your company (private, Ltd., public, merely national, international etc.)? How many employees have your company (number		
of persons – in full-time jobs)? Which are aims of your company?		

Which are the main elements of the mission and	1
strategies of your company?	
Have you specific company ethics formulated? It	f
YES, which are they?	
How is your company organised (diagram of organ-	-
isation - according to departments [mainly function	1
orientated], along the main processes [merely pro-	-
cess orientated], matrix)?	
Which is the annual turnover of your company? Is	5
it in- or decreasing? Are there specific deviations	5
per department?	
Which is the annual cash flow of your company? Is	5
it in- or decreasing? Are there specific deviations	5
per department?	
How big is the annual profit of your company? Is it	t
in- or decreasing? Are there specific deviations per	r
department?	
What for does use your profits?	
Describe the style of leadership within your com-	-
pany. Do owners have a specific function? Which	1
system of decisions making and controlling do you	1
use?	
How would you describe the ideal superior?	
How would you describe the ideal employee?	
Which are the most important procedures within	1
your company?	
Do your employees need specific education for	?
Which?	
Does your company use management mod-	-
els/systems (which sort/s - year/s of implementa-	-
tion)?	

Which were the reasons for the implementations?         How did you proceed with the implementation?         How did you integrate your employees?         Do you plan to introduce an additional management         model/system? If YES: Which, why and when?         Are there individual procedures you already fol- low? Which?         Which are the main environmental aspects in con- nection with the design, production, use and dis- posal of your products/services?         How do you measure these environmental aspects?         Which are the specific results? Could you effective- ly reduce material, energy, waste?         Which is the social responsibility of your company (towards the individual, the society)?         How do you measure these social aspects? Which are the specific results?         Which sort are the main partners/suppliers of the company (importance, key competencies, parts)?         Describe your relations with. Do you control these relations? With which success?         Which sort are the main customers of the company?         Describe your relations with. Do you control these relations? With which success?         Which sort are the main competitors of the compan- ny? Describe your relations with. Do you control these relations? With which success?         Which are the main competitors of the compan- ny? Describe your relations with. Do you control these relations? With which success?         Which are the main problems of your company?         Do you have a specific proceeding/procedure to plan the future		
How did you integrate your employees?         Do you plan to introduce an additional management model/system? If YES: Which, why and when?         Are there individual procedures you already fol- low? Which?         Which are the main environmental aspects in con- nection with the design, production, use and dis- posal of your products/services?         How do you measure these environmental aspects?         Which are the specific results? Could you effective- ly reduce material, energy, waste?         Which is the social responsibility of your company (towards the individual, the society)?         How do you measure these social aspects? Which are the specific results?         Which sort are the main partners/suppliers of the company (importance, key competencies, parts)?         Describe your relations with. Do you control these relations? With which success?         Which sort are the main customers of the company?         Describe your relations with. Do you control these relations? With which success?         Which sort are the main competitors of the compan- ny? Describe your relations with. Do you control these relations? With which success?         Which sort are the main proplems of your company?         Describe your relations with. Do you control these relations? With which success?         Which are the main problems of your company?         Do you have a specific proceeding/procedure to plan the future of the company (risk management)?	Which were the reasons for the implementations?	
Do you plan to introduce an additional management model/system? If YES: Which, why and when?         Are there individual procedures you already fol- low? Which?         Which are the main environmental aspects in con- nection with the design, production, use and dis- posal of your products/services?         How do you measure these environmental aspects?         Which are the specific results? Could you effective- ly reduce material, energy, waste?         Which is the social responsibility of your company (towards the individual, the society)?         How do you measure these social aspects? Which are the specific results?         Which sort are the main partners/suppliers of the company (importance, key competencies, parts)?         Describe your relations with. Do you control these relations? With which success?         Which sort are the main customers of the company?         Describe your relations with. Do you control these relations? With which success?         Which sort are the main competitors of the company.         Which sort are the main competitors of the company.         Nith sort are the main competitors of the company.         Describe your relations with. Do you control these relations? With which success?         Which are the main problems of your company?         Do you have a specific proceeding/procedure to plan the future of the company (risk management)?	How did you proceed with the implementation?	
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	With which success?	

Are there national or regional specialities your	
company has to observe (legislation, education,	
quality/environmental culture)?	
Has your company to follow specific ethical stand-	
ards (i.e. professional, industry)? Which are your	
experiences with?	
How do you estimate the frequencies of economic,	
social and ecological aspects within your company	
(by percent)?	

# QUESTIONNAIRE - No 00 - 000

## **Questions for staff / collaborators**

Question No	Interview	Interview
	I – date:	II – date:
Since when have you been working in your company?		
Which was your original duty in your company?		
Did you need a specific education/training for?		
Which is your actual duty in your company?		
Did you need a specific education/training for?		
Which are the aims of your company? Which are the main elements of the mission and strategies of your company?		
How are they brought into action? How are they controlled?		
Are there specific traditions, signs, regular activi- ties within your company?		
Which are the actual objectives of your company?		
How are they brought into action? How are they controlled?		
How do you see/evaluate the future of your		

company?	
How would you describe the style of leadership	
within the company? Are there differences? Why?	
How do you get your needed information?	
What does quality mean for you?	
Have the quality activities of your company any	
influences on your daily work? Which?	
With which environmental aspects your company is	
confronted?	
How do these environmental aspects influence your	
daily work?	
Which sort is the social responsibility of your com-	
pany (towards individuals and society)?	
Does this social responsibility influence your daily	
life?	
Which management models/systems are in use?	
How have you been informed about these mod-	
els/systems? How have you been introduced?	
How do they influence your daily work? Do you	
have related procedures or job descriptions, dia-	
grams, procedures?	
Do you know whether there will be additional	
models/systems introduced in your company?	
If YES: what do you wait from them? Are you	
involved in the planning?	
How would you rate your relations to your superi-	
ors (according to this list A)?	
How would you rate your relations to your subordi-	
nates (according to this list A)?	
How would you rate your relations to your peers	
(according to this list A)?	

	r r
Which are according to you the main problems	
regionally, nationally, world-wide? For your com-	
pany, privately?	
How would you rate the values on this list B?	
Do you see differences between your private and	
the company's values? If YES: How do you han-	
dle/manage them?	
Which are your main sources of your moral	
attitudes and behaviours?	
Which is your year of birth?	
Where do you live (town, near town, countryside -	
house, flat)?	
Are you living with a partner?	
Are you living together with children?	
Which is your last education?	
Which is your religion/philosophy of life?	
Do you practise it?	
How does your religion/your philosophy of life	
influence your activities within the company?	
If not: Why?	
How does your religion/philosophy of life influence	
your private life?	
Which is your party preference?	
To finish: Please rate the following answers?	
(list C)	

**A** - **Rating of relations** (You have to rate the following descriptions of relations. 10 points are available. To your most important value you are allowed to give 3 points; to those which are not at all important to you, you can give 0 points)

- a) Good communication, friendly atmosphere
- b) Everybody is looking for his own advantage.
- c) If a member of the staff/a colleague has good arguments, his/her ideas are welcome.
- d) Plans are discussed and decisions are taken in co-operative, partnership.
- e) People have to work and not to bring in new ideas that is the job of the management.
- f) Besides the working activities there is also time for personal relations.
- g) Decisions are only taken by the management / the superiors.

**B** - Rating of values (You have to rate the following descriptions of values. 25 points are available. To your most important value you are allowed to give 5 points; to those which are not at all relevant to you, you can give 0 points.)

- a) To be an example, to implement ideals and to keep commitments
   to be true, integer and reliable
- b) To be integrated in decisions important are autonomy and personal initiative
- c) To be strictly compliant with standards and laws
- d) Fun is the most important element of my life
- e) To produce a good impression, image
- f) To have enough time for private relations, family, leisure
- g) To put justice, community, solidarity, participation and tolerance in front - to be responsible for him-/herself, others, tasks, the society, the natural environment, future generations
- h) To be behave responsible even if there is resistance within the company - if needed: to be a maverick

- To avoid all cost which are not directly productive, to maximise profit
- j) To aim mental, psychic and physical health no products or procedures with threat health
- k) To have the possibility for lifelong learning, to be enabled and challenged
- To be loyal to have primarily an engagement for tasks and the company
- m) To be open to others, to respect one another to be ready to give and to get feedback (positive and negative)
- n) To think in long terms, to value and integrate consequences
- o) To have alternatives in work and private life
- p) To have enough time for planning and reflecting
- q) To be flexible, spontaneous

**C Rating of answers** (Most corresponding 4, then 3, 2, 1) – List according to University of St. Gallen - Institute of Business Ethics - 1.9.1995

- a) Market decides the direction of activities. I agree with this argument because there is no moral or immoral management, there is only good or bad management.
- b) The moral quality of a company is as good as the moral quality of the people working in. In this sense ethics are taken for granted.
- c) A company/person following moral values in business will lose on long terms its/his/her competitiveness. The dilemma to live with is part of management.
- d) The system of market economy does not automatically lead to the desired results. A behaviour based on moral values is therefore a managerial challenge.

# 6.5 Information of companies – interview procedure

Companies which have been interested for participation got a letter and additional detailed information. Because I interviewed only German speaking companies, the documents only exist in German.

#### 6.5.1 Introducing letter

*Herr Xx, in 6xxx xx* Ennetbürgen, 29. April 2004

#### Unternehmenswirklichkeit und moralische Haltungen

Sehr geehrter Herr xx

Auf Grund meines Gesprächs mit Herrn x gelange ich an Sie.

Seit dem Sommer 2002 bin ich Leiter der Kath. Arbeitsstelle Nidwalden KAN in Stans. Vorher war ich während fast zehn Jahren hauptsächlich als Berater und Auditor mit dem Aufbau und der Zertifizierung von Managementsystemen beschäftigt.

In meiner Freizeit bearbeite ich bei der Open University (GB-Milton Keynes) ein Forschungsprojekt 'Einflüsse der Umsetzung von Managementsystemen / -modellen auf Wertüberzeugungen und moralische Haltungen in Klein- und Mittelunternehmen'.

Mit einer zweimaligen Befragung innerhalb von zwei Jahren von Kadern und Mitarbeitern aus allen Bereichen und Hierarchiestufen zu ihren Erfahrungen mit dem Unternehmen, seiner Führung und seiner Kultur sowie zu ihren Überzeugungen, Haltungen und Tätigkeiten möchte ich aktuelle Probleme sowie allfällige Verhaltensänderungen feststellen. Die Erfahrung in den bisher befragten Unternehmen zeigt, dass oft Themen aufgegriffen werden, die für das Unternehmen wichtig sind, aber wenig zur Sprache kommen. Ich strebe an, KMUs aus der Schweiz, Deutschland und England in meine Befragung einzubeziehen, was auch ein internationales Benchmarking möglich macht. In der Schweiz konzentriere ich mich hauptsächlich auf Nidwalden – einerseits weil ich beruflich im Kanton tätig bin, anderseits aber, weil die lokale Nähe eine hohe zeitliche Flexibilität bei der Befragung erlaubt.

Ihrem Unternehmen entsteht ausser der Befragungszeit kein Aufwand (zweimal 1-2 Stunden für die Geschäftsleitung und 30 Minuten pro befragten Mitarbeiter – je nach Unternehmensgrösse: 3 bis 10 Personen).

Ich freue mich mit Ihnen ein vertiefendes Gespräch zu führen und melde mich gerne telefonisch im Verlauf der nächsten Woche.

Vielen Dank und freundliche Grüsse

Jörg Bürgi

Beilagen: Projektbeschrieb, Lebenslauf

#### 6.5.2 Detailed information concerning the project

Forschungsprojekt 'Einflüsse der Umsetzung von Managementsystemen / -modellen auf Wertüberzeugungen und moralische Haltungen in Klein- und Mittelunternehmen'

Im Unterschied zu grossen Unternehmen verfügt Klein- und Mittelunternehmen (KMUs) kaum über Spezialisten, die sich mit Wertüberzeugungen und moralischen Haltungen beschäftigen. Es ist anzunehmen, dass diese Überzeugungen und Haltungen sehr oft mit dem persönlichen Werdegang der Besitzer und Führungskräfte verbunden sind - manchmal auch kombiniert mit einer Unternehmenskultur, die auf die Integration der Mitarbeiter zielt.

Um konkurrenzfähig zu bleiben, den Marktanteil zu vergrössern oder sogar um eine führende Stellung zu erreichen, verwenden auch KMUs international anerkannte Managementsysteme oder -modelle (z.B. für Qualität ISO 9001 und EFQM, für Umwelt ISO 14001, Q für Tourismus). Diese Modelle versprechen zunehmende Wirksamkeit und Effizienz - oder in andern Worten: Sie versuchen den Unternehmen zu helfen *'Die richtigen Dinge richtig zu tun!'*.

Und damit stellen sich *Fragen*: Was sind nun diese richtigen Dinge? Für wen sind sie richtig und für wen nicht? Was heisst, etwas richtig tun? Die Mehrheit der Modelle gibt darauf nur implizite Antworten; explizit verlangen sie meistens nur die Anwendung von gesetzlichen Forderungen und anerkannten Standards.

Es kann vermutet werden, dass sich mit der Umsetzung der Systeme längerfristig die Wertüberzeugungen und moralischen Haltungen im Unternehmen generell verändern in Richtung Mitarbeiterintegration und Stakeholderorientierung (Beachtung der Anliegen von Mit- und Umwelt) - unter Berücksichtigung weiterer Faktoren wie Firmentradition, bisherige Vorstellungen und Kulturen im Unternehmen, Mitarbeiter, Marktlage etc.

Diese Hypothese will in einem *mehrjährigen internationalen Forschungsprojekt* überprüft werden. In voraussichtlich 30 KMUs aus der Schweiz, Deutschland und England, die die Zukunft ihres Unternehmens nicht dem Zufall überlassen wollen und evtl. auch ein Managementmodell / -system (z.B. nach ISO 9001) aufgebaut und eingeführt haben (oder planen ein solches anzuwenden), werden *innerhalb von zwei Jahren zweimal* Mitarbeitern aus verschieden hierarchischen Ebenen und Bereichen zu ihren Erfahrungen mit dem Unternehmen, seiner Führung und seiner Kultur sowie zu ihren Überzeugungen, Haltungen und Tätigkeiten befragt. Die Befragung in der *Schweiz* konzentriert sich auf Unternehmen verschiedener Branchen im Kanton Nidwalden.

Selbstverständlich wird *höchste Diskretion* zugesagt. Die beteiligten Unternehmen erhalten nur regelmässige Informationen zu ihren eigenen Durchschnitts- und zu Vergleichsdaten zu den andern beteiligten Unternehmen, nie aber Hinweise, die auf einzelne Befragte schliessen lassen. Am Ende des Projektes werden die Unternehmen zu einem gemeinsamen Seminar eingeladen; sie erhalten auch den umfassenden Forschungsbericht.

#### **Projektleitung:**

Jörg Bürgi, Diplomtheologe, MSc in Manufacturing: Management and Technology, Stadelstrasse 21, CH-6373 Ennetbürgen, Tel. Büro 041 610 74 47 – buergi@kan.ch

#### Wissenschaftliche Begleitung:

• The Open University, Faculty of Technology, Department of Environmental and Mechanical Engineering, GB-Milton Keynes (Supervisor: Dr. Rod S. Barratt)

• Universität Zürich, Philosophisches Seminar, Institut für Sozialethik, CH-Zürich (Co-supervisor: Prof. Dr. Johannes Fischer)

# 6.6 Small and Medium Enterprises SME – Definitions

In Chapter 1.2.1 I defined SMEs according to the European commission. World-wide activities concerning SMEs ask for additional definitions.

Dababneh and Tukan (2007) offer a number of definitions:

United Nations Industrial Development Organization (UNIDO):

- Micro-sized enterprises are those employing between 1 and 9 employees and/or have a registered capital of less than \$42,300
- Small enterprises employ between 10 to 49 employees and have a registered capital of more than \$42,300
- Medium enterprises employ between 50 to 249 employees and have a registered capital of more than \$42,300

Multilateral Investment Guarantee Agency (MIGA) and International Finance Corporation (IFC):

# Small enterprises:

- 1. Less than 50 employees
- 2. Less than \$3 million total assets
- 3. Less than \$3 million total annual sales

# Medium enterprises:

- 1. Less than 300 employees
- 2. Less than \$15 million total assets
- 3. Less than \$15 million total annual sales

# Asia Pacific Economic Cooperation (APEC):

- SMEs enterprises with less than 100 people
- Medium sized enterprise between 20 and 99 people
- Small firm between 5 and 19

• Micro firm less than 5 employees – including self-employed managers.

In the *United States* the upper limit for medium sized companies is 300 employees. The group of the smallest companies distinguishes between 'employers' and 'nonemployers' (Fueglistaller 2007).

*Industry Canada* (2007) often uses a definition based on the number of employees:

- SME refers to all companies with fewer than 500 employees.
- Goods-producing firms are considered small if they have fewer than 100 employees, while for service-producing firms the cutoff point is 50 employees.
- Above that size, and up to 499 employees, a firm is considered medium-sized.
- The smallest of small companies are called micro-enterprises, most often defined as having fewer than five employees.

*Japan* distinguishes between ordinary SMEs with upper maximum limit of 300, wholesale trade and services 100 employees, and retail trade and gastronomy 50 employees (Fueglistaller 2007).

The *Australian* Bureau of Statistics (ABS cat. 1321.0) defines a manufacturing company as small if it has 100 or less employees and a service company if it has 20 or less. Medium enterprises have less than 500 employees (Brown et al. 1998).

According to Painter-Morland and Dobie (2010) there are many different definitions operative within the SME environment in Africa. Some definitions are clearly taken over from the developed world, considering organisations with fewer than 250 employees to be SMEs. Many formal definitions were mentioned, which place African SMEs at smaller sizes. The most prominent response was that an SME is an organisation with fewer than 100 employees and a working capital of less than \$100 000.

According to the China National Bureau of Statistics, SMEs in *China*'s industrial sector comprise enterprises with up to 2000 employees. Enterprises with 300 to 2,000 employees are medium-sized; with less than 300 employees are small sized (Lai 2006).

The definition of SME has been a contentious issue in *India* (Srinivasan 2010). In fact, the term, the term SSI (Small Scale Industry) is more commonly used to refer to SME's. In 2005, the Government of India has sought to provide greater clarity in this sector by specifying a classification basing on investments in million rupees:

- SMEs engaged in production / manufacturing of goods for any industry: micro < 2.5 million (= approx. 60.000 \$) – small 2.5 to 50 million – medium 50 to 100 million
- SMEs engaged in rendering/providing of services: micro < 1 million – small 1 to 20 million – medium 20 to 50 million

*Latin American* countries show large differences in defining SMEs (Coutinho de Arruda 2010). In 2005, for OLAMP (Latin American Organization of Micro and Small-Sized enterprises) a small enterprise had 11 to 50 people, and a medium 51 to 200.

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The Dynamic Interplay of Morality and Management Systems



Jörg F. W. Bürgi

Jörg Bürgi was first educated in theology and philosophy at the University of Lucerne in 1974, after which he took several pastoral positions in parishes around Switzerland. In 1990 he completed a degree in sociology and political science at the University of Zürich, which led to a new career in research and

company auditing, and eventually Bürgi started working as production engineer.

This thesis aims to design and develop a comprehensive SME model and measuring tool, and to close the narrowing gap of research concerned with performance optimization in small and medium size entreprises. This study focuses on the positions of 27 individual SMEs concerning specific issues against their societal, economic and physical context.

