

# Forecasting in Regional Labour Market Monitoring

#### Citation for published version (APA):

Kriechel, B. (2007). Forecasting in Regional Labour Market Monitoring. In C. Larsen, W. Mathejczyk, & A. Schmid (Eds.), Monitoring of Regional Labour Markets in European States (pp. 135-140). Muenchen and Mering: Rainer Hampp Verlag.

#### Document status and date:

Published: 01/01/2007

#### **Document Version:**

Publisher's PDF, also known as Version of record

#### Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

Link to publication

#### General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these

- · Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
  You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

www.umlib.nl/taverne-license

#### Take down policy

If you believe that this document breaches copyright please contact us at:

repository@maastrichtuniversity.nl

providing details and we will investigate your claim.

Download date: 04 Dec. 2019

Christa Larsen / Alfons Schmid / Wa	<i>l</i> aldemar Matheiczyk (E	Eds.)
-------------------------------------	--------------------------------	-------

# **Monitoring of Regional Labour Markets in European States**

**Concepts – Experiences – Perspectives** 

Bibliographische Informationen Verlag Erscheinungsjahr Auflage ISBN-Nummer

**Urheberrechtliche Hinweise** 

#### Foreword of the Editors

Regions have become increasingly important in the European context for the competitiveness of businesses and labour. In this context functional regional labour markets and efficient regional labour market policies constitute a key competitiveness factor. The basic prerequisites for these are adequate information and in-depth knowledge for regional actors in the labour market. One instrument that generates and disseminates such information and knowledge is regional labour market monitoring.

During the conference "Monitoring of Regional Labour Markets in Europe", which took place in March 2006 in Frankfurt am Main, ideas and approaches of regional labour market monitoring from various European states are presented. Most of the presentations, supplemented by a number of further contributions, are gathered in this volume for publication. We expressly thank the authors for their contributions.

The conference and this book together represent the beginning of the discourse and activities in the European network for regional labour market monitoring, which came into existence in March 2006. In this network there are currently about 80 institutions in 18 European countries, all connected to each other in a process of "mutual learning". The focus of this learning is on systematic exchange of experiences in the area of regional labour market monitoring as well as on further trans-national development of ideas.

We would like hereby to thank the Hans-Böckler-Stiftung (Hans-Böckler-Foundation) and the Sparkassen- und Giroverband Hessen-Thüringen (Savings and Credit Union of Hessen-Thüringen), without whose support the European conference and the book that grew out of it would not have come into being.

Last but not least we give our special thanks to Minister President of Hessen Mr. Roland Koch, under whose patronage the conference "Monitoring of Regional Labour Markets in Europe" took place.

Christa Larsen Waldemar Mathejczyk Alfons Schmid

# **Contents**

Message of Greetings from the Minister President of Hessen	
Address of the European Representation of the German Federal Employment Agency in Brussels	8
Address of the Sparkassen- und Giroverband Hessen-Thüringen	10
Address of the Hans Böckler Foundation	11
1 Introduction	13
Monitoring of Regional Labour Markets in Europe  – An Introduction to the Field	
Alfons Schmid / Christa Larsen / Waldemar Mathejczyk	13
2 Complex Information Systems for Nationwide Monitoring	28
Regional Labour Market Monitoring in Sweden  – A Perspective on Applications and Empirically Induced Modifications  Thomas Behrens	29
Labour Market Monitoring in Poland  Iwona Kukulak-Dolata	38
The Labour Market Monitoring System in Bulgaria  – Present Situation and Perspectives  Mirena Stavrera	45
Studying Relationships between Employment and Training on a Regional Level Bénédicte Delneste / Guy Sapin	51
The Labour Market in Italy  – A Highly Debated and Controversial Reform  Marco Ricceri	56
3 Examples for Particular Approaches within European Regions	
Dialog-Oriented Systems of Regional Labour Market Monitoring	62
Prospect – Dialog-Oriented Labour Market Monitoring  Andreas Mertens	63
Further Development of Prospect as a Dialog-Oriented System in the Netherlands  Peter de Bruin	71
Labour Market Monitoring in the Region Rhine-Main in Germany. An Information and Communication Approach	
Christa Larsen / Marco Mevius	77

Monitoring Systems Related to Specific Topics	
LAMO - The Regional Labour Market at the Border Zone of Austria, Hungary, Slovakia and the Czech Republic – A Cross Border Labour Migration Monitoring Marc Bittner / Michaela Hudler-Seitzberger	92
Statistical Labour Market Monitoring in the International Lake Constance Area  Jonathan Schulz / Markus Weißkopf	99
Older Workers in the Focus of Regional Labour Market Monitoring  Michael Gebel	105
Young Persons in the Context of Regional Labour Market Monitoring  Yvette Grelet	
Regional Labour Market Monitoring in Czech Republic Focused on Vocational Education and Training Helena Úlovcová / Zorka Husová	121
4 Further Development of Regional Labour Market Monitoring	126
Theoretical Notes on Regional Labour Market Monitoring Systems  – Information, Knowledge and Communication as Common Elements  **Alfons Schmid**	127
Standardisation in Regional Labour Market Monitoring based on Experiences Ronald W. McQuaid	136
Forecasting in Regional Labour Market Monitoring  Ben Kriechel	144
5 Networks in the Field of Regional Labour Market Monitoring	150
Networks at work - Experiences of National and International Network Projects on Early Identification of Skill Needs Bernd Dworschak / Alena Zukersteinova	151
Inter-Organisational Networking from a Practical Point of View  – Experiences from the Strategic Department of a Non-Profit Making Training Institution: the Competence Center EUORPA  Monika Stricker / Antje Utecht / Tanja Kreetz	159
The European Network in the Field of Regional Labour Monitoring  Waldemar Mathejczyk	167
6 Perspectives	178
Perspectives of Regional Labour Market Monitoring in European States  Alfons Schmid / Christa Larsen / Waldemar Mathejczyk	178
About the Authors	186

This book gives an idea of the diversity of European approaches to monitoring of regional labour markets. It renders different concepts and instruments representing the region in which they are used at the moment. Moreover, those concepts and instruments represent approaches which are used in other European regions in similar ways but with different stress or modified methods.

In this publication, 27 authors from 12 European countries depict various aspects of Regional Labour Market Monitoring. Realistic examples from 15 regions will be given. However, this book does not claim to touch upon each existing approach, or to give a general overview. It was our aim to offer a first glimpse and to show how many possibilities for development are contained in the discussed approaches and methods. Additionally, we want to show which problems of the labour market should be solved and in which areas Regional Labour Market Monitoring can make a contribution to this target. A European discussion about Regional Labour Market Monitoring has started right now. This book wants to intensify and speed up this discussion. It addresses to political decision-makers and scientists as well as to practitioners from employment agencies and administration. The idea for this publication dates back to a two-day-conference in March 2006 when 80 experts from 15 countries met in Frankfurt. The articles at hand were written by participants of the conference and members of the network founded on this occasion.

In chapter 1, the editors of the book Alfons Schmid, Christa Larsen, and Waldemar Mathejczyk give an introduction to the matter from a scientific point of view, in which they summarize their judgement of the status quo. On the background of conversations with numerous protagonists in this field, they found a rough division: There are complex nationwide systems, which are often connected with national labour administration, and there are particular approaches developed in certain regions. Besides, there are approaches which are set apart because they have a specific geographical context or a specific target group.

In *chapter 2*, the reader will find various examples of complex information systems for nationwide monitoring.

At first, a practical example from a Scandinavian country is presented. *Thomas Behrens* describes the current Regional Labour Market Monitoring system in Sweden, where the National Labour Market Administration has a long tradition in regularly observing statistical indicators. As he is labour market analyst at the County Labour Board, his practical perspective points out that monitoring means not only regularly conducted observation of statistical and financial indicators but also includes other types of systematic information gathering such as regular surveys and forecasting of labour market developments.

Another example for a monitoring system that is generated in the National Labour Administration can be seen in Poland. The Labour Market Monitoring in the regions of Poland is carried out by a team of scientists. *Dr. Iwona Kukulak-Dolata* from the Łódź University team works on the monitoring system in Poland and describes origins and development during the recent years. As an example she presents the structure of the monitoring regarding the shortage and surplus occupations in Poland after 2005. The Polish monitoring system seems to be a variation which is based on one hand on the different statistics of national labour administration and methodically developed by scientists on the other hand.

The Regional Labour Market Monitoring is embedded into National Labour Administration in another example from an East European country. *Mirena Stavrera,* labour market analyst of the Labour Market Authority in Sofia, describes in her report the present situation as a preliminary stage for a Regional Labour Market Monitoring. In Bulgaria,

Regional Labour Market Monitoring is still in its infancy. Starting from a general statistics of unemployed, descriptive statements are possible. More complex statements like e.g. prognosis or early detection are not yet daily business.

In France, the different labour market regions were given more competence and responsibilities since the early 1990s which shows effects on different levels. In their exposition, *Bénédicte Delneste and Guy Sapin* describe new demands to their work as an effect of decentralisation of labour market politics. Their experiences as managers of an educational institute make clear that Regional Labour Market Monitoring in Burgundy means also that nationwide political programmes are implemented into the region.

Apart from those existing approaches, *Prof. Dr. Marco Ricceri* describes the preconditions for the implementation of nationwide programmes into regions from a political point of view. He underlines that an important industrialized country as Italy has a big delay in creating an effective monitoring system and all initiatives, both national and regional, are the first steps of the process. However, the reform of the labour market in Italy has been an issue of strong political confrontation that involves the governments, the parties and the unions. Meanwhile the regions are proceeding with own specific initiatives taking the possibility of the new federalism that has been introduced in Italy recently.

In *chapter 3*, various examples for particular approaches within European Regions are presented. This chapter consists of two parts.

The three contributions at the beginning have in common that they radiate a vast orientation to action, which means the described examples from the Netherlands and Germany attach great importance to the use of acquired information.

Andreas Mertens summarizes his experience as coordinator of the Prospect approach that has been carried out almost during the last seven years in different regions of North Rhine-Westphalia. The Prospect approach is a so called dialog-oriented labour market monitoring system that has been implemented by ministry of labour of North Rhine-Westphalia several years ago.

The Prospect system was originally invented by the Dutch company Activa and modified to the demands of North Rhine-Westphalia. *Peter de Bruin,* director from Activa Research, describes current activities and perspectives of this system in the Netherlands. He explains new approaches concerning rising demands on the part of municipalities and relates to actual projects.

In the following contribution *Dr. Christa Larsen and Dr. Marco Mevius* describe an approach they developed in the region Rhine-Main that implies a dialog-oriented component, too. In the form of a new computer program, technical development helps improving Regional Labour Market Monitoring.

The second part of this chapter contains reports about Regional Labour Market Monitoring systems that are related to specific topics. Two contributions have a geographical focus. The following contributions in this chapter are related to specific target groups in the labour market. Finally the reader will find the description of a project that linked Regional Labour Market Monitoring to the vocational und educational system.

Marc Bittner and Dr. Michaela Hudler-Seitzberger present their knowledge about the regional labour market at the border zone of Austria, Hungary, Slovakia and the Czech Republic as an example of cross border monitoring. Their research questions concern to the field of migration and commuters in the labour market. Their scientific work combines qualitative and quantitative methods.

Jonathan Schulz and Markus Weißkopf also provide an international approach. They are engaged in cross border monitoring, but their focus is mainly a statistical approach of labour market monitoring. Based on the structures of "Euregio Bodensee" they can fall back on a close cooperation with neighbouring countries. Together with Austria and Switzerland they developed suitable advisory services among others.

Michael Gebel describes from a scientific perspective how older workers move increasingly into the focus of Regional Labour Market Monitoring. Demographic changes add new political problems to the labour market which can be solved with suitable monitoring instruments in the future.

Another problematic group in the labour market are young persons. *Dr. Yvette Grelet* relates to the situation of young persons in France and describes from the perspective of an applied science which concepts were developed in recent years and which instruments are used nowadays. As an example she mentions the School-Leavers Survey as an instrument for target-group-specific Regional Labour Market Monitoring.

Helena Úlovcová and Zorka Husová finally describe the conditions of Regional Labour Market Monitoring in another East European country. They explain approaches in the Czech Republic and link Regional Labour Market Monitoring to the key factor of vocational training system. Like in Bulgaria, Regional Labour Market Monitoring there is on a stage capable of developments.

In *chapter 4*, developments of Regional Labour Market Monitoring approaches are to be touched. In general developments are possible in various ways, but the three contributions in this chapter discuss chosen aspects of fundamental importance.

*Prof. Dr. Alfons Schmid* discusses aspects of the theoretical background of Regional Labour Market Monitoring. He defines information and knowledge as basic elements for a successful labour market monitoring. He argues that Regional Labour Market Monitoring can develop towards a European concept.

The contribution of *Prof. Dr. Ronald W. McQuaid* treats about processes of standardisation in Regional Labour Market Monitoring based on his Experiences in Scotland. He outlines relevant issues regarding standardisation of labour market monitoring for regional and local bodies. His contribution makes clear that in the field of standardisation still a lot can be done.

*Dr. Ben Kriechel* allows some access to the current state of affairs concerning quantitative methods. By means of his daily work, he describes a forecasting model as it is performed at his institution. Starting with the general use of labour market monitoring in the Netherlands, he describes the regional model, which is especially useful for the early identification of mismatches and skills-need.

Networks that are closely related to labour market affairs are presented in *chapter 5*. Special attention will be given to European network co-operations and the benefits of networks for the actors.

*Dr. Monika Stricker, Antje Utecht, and Tanja Kreetz* explain how inter-organisational learning processes can take place in a Europe-wide acting vocational training organisation by exchanging different approaches and cultures in a network of different actors working in complementary fields of human resources development.

Two networks, both regarding the topic "Early Identification of Qualification Needs" are presented by *Bernd Dworschak and Alena Zukersteinova*. "FreQueNz" and "Skillsnet" were set up as a response to the demand of experts, policy makers and social partners.

The objective of these networks was to bring together researchers and other stakeholders from across the world to present and discuss outcomes and methods of research and analysis.

Waldemar Mathejczyk describes the current state of activities in the European network in the field of Regional Labour Marketing Monitoring. This network was established in March 2006 and wants to continue in 2007 and 2008: The contribution is a "critical snap-shot".

Chapter 6 completes the book and casts a glance into future. Alfons Schmid, Christa Larsen, and Waldemar Mathejczyk deal with perspectives of Regional Labour Market Monitoring in European States on one hand, on the other they describe perspectives of the European Network for the Furthering Regional Labour Market Monitoring. It becomes clear that Regional Labour Market Monitoring will gain importance as an instrument of labour market policy as well as a field of research and will advise in the close future. It is mentioned, too, that in this context the recently founded network might provide an important contribution.

## **Forecasting in Regional Labour Market Monitoring**

Ben Kriechel

### 1 Introduction

Forecasting future labour market situations is a natural element of labour market monitoring. Commonly, labour market monitoring systems do not contain explicit forecast. Rather, they contain current and historic information on key labour market variables. These are, however, used to evaluate the current situation and to anticipate future labour market situations. Users of historic data make implicit forecasts of the labour market variables by looking at trends. More complex labour market forecasts are in a sense an extension of these implicit forecasts yielding more consistent and efficient results given all the information available.

Regional Labour Market Monitoring is a tool that regional actors, normally regional branches of the government, provide to increase the transparency on the labour market. Transparency is created both for their own staff, that needs the monitoring to develop and pursue labour market policies, but also for actors on the labour market. The actors are not only the workers – as the supplier of the labour – and the companies demanding labour, but also the institutions that facilitate and aid the various processes on the labour market. Within the Netherlands at least five main regional actors can be identified: labour unions representing the worker, trade unions for the employers, schools and educational institutions, the labour office, in the Netherlands called "Centrum voor werk en inkomen (CWI)", and the regional branches of the government.

All these actors are in need of timely, reliable, and – if possible – forward looking information on the regional labour market. For the current situation traditional labour market forecasting provides an adequate picture: the historical development and composition of the labour force are just as well readily available as the percentage of unemployed and the number of unfilled vacancies. However, when forward looking indicators are needed, one has to rely on more or less sophisticated models of forecasting.

In this chapter I will discuss the general use of labour market monitoring in the Netherlands (section 2), to then discuss the regional labour market forecast in section 3. Here I will describe the regional model of the 'Research Centre for Education and the Labour Market' (ROA), which is especially useful for the early identification of mismatches and skills need. Section 4 discusses the labour market information system as it was developed by ROA to facilitate the use of the information generated from and by making the forecasts. Section 5 summarizes the main points and concludes.

### 2 Regional Labour Market Monitoring in the Netherlands

While many issues of labour market policy are dealt with on the national level in the Netherlands, there remains a large degree of responsibility for provinces and municipalities. They are an important actor and facilitator in the regional labour market context. Although municipalities have some influence on the regional labour market policies, it is only within the bigger cities that they have sufficient size to actively engage in labour market projects that warrant extensive labour market monitoring.

The size of the region, be it a municipality or a province, often explains the degree and emphasis placed on labour market monitoring systems. Smaller municipalities will find a survey of employed within establishments or businesses of their municipalities sufficient, while larger municipalities will use more complex data and instruments.

All provinces have labour market monitoring systems of some sort. They differ in set-up, contents, and availability. They are usually the result of an evolving process in which information created within the organisation are combined with information that are incidentally or structurally generated outside of the organisation. All provinces and municipalities share the responsibility to contribute to the so called 'LISA database' (LISA) in which the number of employed workers is counted per establishment. In addition information of the gender, full-time or part-time status of the employee, and the sector is recorded. Many municipalities, and all provinces use the current and historical LISA counts for their labour market monitoring.

Structural information that is often added to the LISA employment database is information that the labour offices (CWI) provide. This includes a (regional) count of the short-term and long-term unemployed, vacancies, but also a forecasts provided by the labour office.

Detailed regional labour market forecasts are only incidentally used. They are usually not at the core of a region's labour market monitoring system. While most policies actually rely on the implicit extrapolation of trends which are identified using the current labour market data plus their historical context, most provinces rely on intermittent, i.e. sporadic but in some cases regular, updates of especially medium-term prognosis.

## 3 Regional Labour Market Forecasts

Detailed labour market forecasts that can be used for e.g. early identification of skills need are usually not structurally included in the labour market monitoring of the regional actors. However, recently more and more interest is showing in detailed forecasts that allow to pro-actively address possible future mismatches in demand and supply of skills within a region.

While general employment trends seem easy to extrapolate, given sufficient information on both the historical development in a region and the national economic development as a whole, there are several reasons for the importance of a consistent and regular update of forecasts. A sophisticated forecasting model that incorporates the general employment trends, demographics of the workforce, and the changing structure and composition of occupation and the education within the workforce is especially important in the context of early identification of skills needs.

For the Netherlands, ROA provides biannual forecasts for more than hundred different occupation and educational degrees. Borghans et al. (2006) describe the most recent national forecast. The basic methodology of this national model is described in Cörvers, de Grip and Heijke (2002).

For several years these forecasts have also been used to develop a regional model of occupational and education labour market forecasts. For the provinces of Limburg, Gelderland and Overijssel several rounds of forecasts have been made. Borghans et al. (2005) contains the most recent study for the province Overijssel. The model builds on the forecasts of the national model, introducing regional elements in several steps of the forecast methodology. Cörvers and Hensen (2005) describe the philosophy and methodology underlying the regional forecasting model used by ROA, while Kriechel (2005) focuses on the success factors in the implementation and use of regional forecasts.

# 3.1 Methodology of ROA's Regional Forecasting Model

The model is build to provide medium term, 5 year, forecasts on a detailed occupation and educational level. It allows for changes in the occupational structure over time (e.g. skill upgrading), as well as substitution processes. The regional forecasting model is based on the national methodology. The same components as in the national model are used for demand, expansion and replacement demand, and for supply, the short term unemployed and school leavers. Whenever possible, data and estimates are done on the regional level. The model is developed to make efficient use of the regional information available, and by using national input whenever necessary. Different from the national model, the regional model puts a stronger emphasis on the lower and intermediate education level. Those groups are the most regionally oriented, especially among school leavers.

Figure 1 gives a simplified representation of the main ingredients of the model. Dark grey boxes represent the use of national data or matrices, while white boxes show the use of regional data only. The light grey box of the school leavers represents a combination of the two. School leaver forecasts are based on the counts of students by the ministry of education<sup>1</sup>, they are not on a regional level, but we use the current labour force's educational composition to predict the precise composition of the inflow of new graduates on the regional labour markets.

The replacement demand, on the right side of the figure, represents the outflow or turnover of workers within an occupation or education that needs to be replaced. While not all outflows will be replaced, because the composition of the occupational or educational structure on the labour market is changing, we estimate the replacement demand that is to be filled. The estimation procedure is based on the age-gender structure of an occupation or educational group. This demographic structure of an occupation is combined with an historic estimate of turnover for the specific age-gender cohort of the occupation, and a regional prediction of the changes ( $\Delta$ ) in participation rates by age-gender cohort.

In the regional context the age-structure within the occupations is not sufficiently filled. In order to use the available information on the labour force, namely the age structure on the one hand and the occupational (educational) composition on the other hand, we use a RAS procedure with the national composition of age-gender within occupations (educational levels) to estimate this composition on the regional level.<sup>3</sup>

We use the count of people within a region, i.e. absolute numbers (denoted by the symbol # in Figure 1) in the age gender-cohort and occupation.

-

Ministerie van Onderwijs Cultuur en Wetenschappen (2004): Referentieraming. Zoetermeer.

The RAS procedure combines the row and column totals of a matrix and information of its structure to extrapolate the complete matrix. See e.g. van Eijs and Borghans (1996).

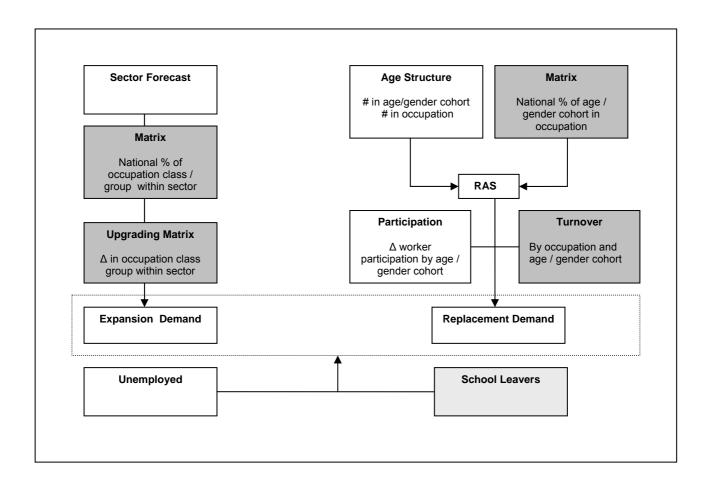


Figure 1: Regional Forecasting Model

Expansionary demand is estimated using the regional sector forecast. They are based on changes of employment ( $\Delta$  sector employment) over time. These forecasts are combined with the occupational composition of sectors. It is mostly done using a national matrix, again for a lack of sufficient observations on a regional level. Additionally, we correct for shifts in the occupational (or educational) structure of the workforce and the substitution across occupations ( $\Delta$  in occupation class). This correction is based on the national correction and estimates.

Both replacement and expansionary demand constitute the labour demand. The demand is confronted with the predicted supply: the unemployed and the predicted school leavers by education.

Besides the information on the different components of supply and demand on the labour market, several indicators are calculated. These indicators are intended to condensate information on supply and demand into one index, while they also allow to rank the degree of forecasted skill-mismatch by occupation. They are thus an efficient way to combine different aspects of the forecast, while keeping the comparability across occupations, but also by allowing comparisons to higher level of aggregation.

One of the challenges in the regional context is the availability of sufficient data for disaggregate data. Kriechel, Cörvers and Heijke (2005) give a detailed discussion of this problem of 'cell-size' within the current model of regional forecasts in the Netherlands.

In the future there are several ways in which the problem can be tackled. One is methodological: to reduce the level of detail on the occupational or educational class. In other words, the problem is in itself not solved, but in order to avoid the use of national data for regional forecasts, a less detailed skills forecast is made. Another possibility would be to make use different, administrative data that has become more readily available lately. Both of these avenues are being pursued to examine the possibilities for more efficient, detailed, and reliable forecasts.

## 4 Labour Market Information Systems

The labour market information system was developed within ROA as a response to more flexible approach to the generated data on the current situation on the labour market, but also on using the different levels of detail on occupation and educational degrees. It is a database of the forecast results, including their components in expansion, replacement demand, versus the inflow onto the labour market, as well as the indicators of mismatch.

Users can access the database to generate custom made reports on occupations they are interested in. One can, for example, compare various forecasts for several occupations, generating custom made tables. Other users are more interested in one specific occupation or educational degree, and will use the detailed information on the several aspects of the forecasts, the information on the demographic structure (age and gender ratios) within the occupation or educational degree.

The database is an addition to the traditional report that is published for the dissemination of the forecasts. Within the report the forecast itself is presented and interpreted. In addition one or two labour market aspects are examined in more detail. Topics range from the role of foreign workers on the labour market, the interregional and intraregional commuting patterns to issues as scenario analysis with different sector forecasts.

#### 5 Conclusion

Labour market forecasts are an implicit tool in all labour market monitoring. It is natural to all actors to work with the available data in such a way that they anticipate future trends and react to them. ROA's regional forecasting model is an extension to such implicit extrapolations of historic data. Build on the methodology of the national forecasting model it uses the historic information on the regional level. By combining the regional information and additional national trends that cannot be easily estimated given the lack of regional data, a precise and detailed forecast of the regional labour market can be made. These forecasts allow – among other things – to evaluate future skill-mismatches on the regional level.

While not all regional actors will necessarily need such detailed forecasts they do significantly enhance the transparency of the regional labour market. Actors can be more precise in diagnosing future problems which can subsequently be tackled.

## **Bibliographical References**

- Borghans, L., F. Cörvers, A. Dupuy, B. Golsteyn, B. Kriechel, P. Marey and R. Montizaan (2006): De arbeidsmarkt naar opleiding en beroep tot 2010. Maastricht, ROA.
- Borghans, L., B. Golsteyn, H. Heijke, M. Hensen and B. Kriechel (2005): Ratio II: De Overijsselse arbeidsmarkt naar opleiding en beroep 2003-2008. ROA-R-2005/1. Maastricht, ROA.
- Cörvers, F., A. de Grip and H. Heijke (2002): Beyond manpower planning: a labour market model for the Netherlands and its forecasts to 2006. Forecasting labour markets in OECD countries Measuring and tackling mismatches. M. Neugart and K. Schönmann. Cheltenham, Edward Elgar Publishing: 185-223.
- Cörvers, F. and M. Hensen (2005): Forecasting regional labour market developments by occupation and education. A survey of spatial economic planning models in the Netherlands. Theory, application and evaluation. F. van Oort, M. Thissen and L. van Wissen. Rotterdam, NAi Publishers: 117-133.
- Eijs, P., van and L. Borghans (1996): The use of RAS in manpower forecasting: A microeconomic approach, Economic Modelling, 13: 257-287.
- Kriechel, B. (2005): Regionale Qualifikationsbedarfsprognosen in den Niederlanden. Qualifikationen im Wandel. Nutzen und Perspektive der Früherkennung: Qualifikationen erkennen Berufe gestalten. H. J. Bullinger. Bielefeld, Bertelsmann. 12: 118-122.
- Kriechel, B., F. Cörvers and H. Heijke (2005): Regional labour market forecasts in the Netherlands. Mimeo. Maastricht.
- Ministerie van Onderwijs Cultuur en Wetenschappen (2004): Referentieraming. Zoetermeer.

#### **About the Authors**

Thomas Behrens studied sociology and economics at the University of Erlangen-Nürnberg (Germany) and political science at the University of Lund (Sweden). Since more than fifteen years he is working as labour market analyst at the county labour board in the County of Scania (Sweden).

Contact: Thomas Behrens County Labour Board Box 485

SE 20124 Malmö, Sweden

Tel. ++46 (0) 40 / 17 20 24, Fax ++46 (0) 40 / 17 20 75

E-Mail: <u>thomas.behrens@lanm.amv.se</u> Homepage: <u>http://www.ams.se/skane</u>

Marc Bittner is social scientist basing on social and economic studies at the University of Vienna (Austria) with specialisation in survey research and statistical analyses, quantitative and qualitative social research in various projects. His main topics of research are labour market, migration, EU-enlargement, South-East-Europe, drugs and addiction. Marc Bittner is researcher at the "Paul Lazarsfeld Society for Social Research" (PLG) and member of the "Society for Studies of Social Science (SWS)". He is scientific director of the "Kurdish Institute for Migration Research (KIM)" and editor of the socio-scientific journal "SWS-Rundschau".

Contact: Marc Bittner

Paul Lazarsfeld Society for Social Research (PLG)

Maria Theresienstraße 24/4

A-1010 Wien, Austria

Tel. ++43 (0) 1 / 319 44 45, Fax ++43 (0) 1 / 319 44 49

E-Mail: marc.bittner@plg.at

Homepage: <a href="http://www.plg.at">http://www.plg.at</a> and <a href="http://www.arbeitsmarktmonitoring.at">http://www.plg.at</a> and <a href="http://www.arbeitsmarktmonitoring.at">http://www.arbeitsmarktmonitoring.at</a>

Peter de Bruin studied educational science and marketing. He worked at several companies which are concerned with labour market issues. Since 2001 he is director of Activa Research, which is part of the Activa Group. The Activa Group concerns with the development of labour market projects, individual re-integration of unemployed people, labour market research, labour market consultancy, and the development of small enterprises.

Contact: Peter de Bruin

Activa

Boulevard 1945-326a, Postbus 482 7500 AL Enschede, Netherlands

Tel. ++31 (0) 53 / 481 44 77, Fax ++31 (0) 53 / 481 44 03

E-Mail: <u>p.d.bruin@activa.nl</u> Homepage: <u>http://www.activa.nl</u> Bénédicte Delneste is economic expert. She studied economy and business strategy at the University of Lille (France) and economy and management at a business school in Lille (France). During eight years, she was economic researcher in industrial economics (1990-1997). Then she taught economics and management in a business school (1997-2001). Since five years she is working in the field of labour market policy. There she is studying relationships between employment and training on a regional level (Burgundy). In general, her study activities are focussed on industrial (sectors) or local approaches.

Contact: Bénédicte Delneste

C2R Bourgogne Immeuble Le Grama

15 place Grangier, 21 000 Dijon, France

Tel. ++33 (0) / 3 80 54 14 26, Fax ++33 (0) / 3 80 54 14 15

E-Mail: bd@c2r-bourgogne.org

Homepage: http://www.c2r-bourgogne.org

Bernd Dworschak studied sociology and English literature at the Universities of Tübingen (Germany) and Leicester (United Kingdom). The Fraunhofer Institute for Industrial Engineering coordinates the network FreQueNz "Network for early identification of skill and qualification needs" funded by the German Federal Ministry of Education and Research. This network is also member of Skillsnet – the European network on early identification of skills needs by Cedefop. Apart from the early identification of skill needs his research interests include human resource management concepts for ageing workforces as well as forms of learning at work with a focus on low-skilled employees.

Contact: Bernd Dworschak

Fraunhofer Institute for Industrial Engineering (Fraunhofer IAO)

Nobelstraße 12

70569 Stuttgart, Germany

Tel. ++49 (0) 711 / 970 2042, Fax ++49 (0) 711 / 970 2299

E-Mail: Bernd.Dworschak@iao.fraunhofer.de

Homepage: <a href="http://www.frequenz.net">http://www.frequenz.net</a>

Michael Gebel is economist. He studied economics and social sciences at the University of Mannheim (Germany) and at the University of Louvain (Belgium). After his studies he worked as a research fellow at the Centre for European Economic Research (ZEW) in the field of monitoring and evaluation of labour market policy. Currently, he is researcher at the Mannheim Centre for European Social Research (MZES) in the project "Educational Systems and Labour Markets in Central and Eastern Europe". In general, his research interests are labour economics, economics of education, and micro-econometrics.

Contact: Michael Gebel

University of Mannheim – Mannheim Centre for European Social Research (MZES)

Department A

L 7, 1

68131 Mannheim, Germany

Tel. ++49 (0) 621 / 181 2816, Fax ++49 (0) 621 / 181 2803

E-Mail: <u>Michael.Gebel@mzes.uni-mannheim.de</u> Homepage: <u>http://www.mzes.uni-mannheim.de</u> *Dr.* Yvette Grelet is a senior research officer at the French Centre for Research on Education, Training and Employment (Centre d'études et de recherches sur les qualifications). She is director of Céreq's regional associated centre in Caen. Her research topics are for long the analysis of entry into working life processes and the determinants of school-to-work transition's quality, among which the influence of the local socio-economic context on young peoples' routes.

Contact: Dr. Yvette Grelet

CEREQ - Centre Associe de Basse-Normandie / Centre Maurice Halbwachs (LASMAS)

Maison de la Recherche en Sciences Humaines – Université de Caen

Esplanade de la Paix

14032 Caen Cedex, France

Tel. ++33 (0) 2 31 56 65 54, Fax ++33 (0) 2 31 56 62 06

E-Mail: yvette.grelet@unicaen.fr

Homepage: <a href="http://www.unicaen.fr/mrsh/cereq/index.php">http://www.unicaen.fr/mrsh/cereq/index.php</a>

*Dr. Michaela Hudler-Seitzberger* is social scientist and studied psychology at the University of Vienna (Austria). Since 1998 she is employed as senior researcher at the "Paul Lazarsfeld Society for Social Research" (PLG). Her main topics of research are: comparative multinational survey research, welfare research, labour market monitoring, research on generations and ageing society.

Contact: Dr. Michaela Hudler-Seitzberger

Paul Lazarsfeld Society for Social Research (PLG)

Maria Theresienstraße 24/4

1010 Wien, Austria

Tel. ++43 (0) 1 / 319 44 45, Fax ++43 (0) 1 / 319 44 49

E-Mail: michaela.hudler@plg.at

Homepage: http://www.plg.at and http://www.arbeitsmarktmonitoring.at

Zorka Husová took her degree at the Institute of Chemical Technology, faculty of food technology, and biochemistry, in Prague in 1984. In 1988 she finished a postgraduate course of pedagogy and psychology. From 1985 to 1997 she has taught chemistry, biochemistry, microbiology, nourishment and food technology at upper secondary technical schools. Since 1997 she has been employed in the National Institute of Technical and Vocational Education (the former Research Institute of Technical and Vocational Education), first as a research worker in developing curricula for vocational and educational training in the area of food technology, since 2000 as the head of department of development curricula based on natural sciences.

Contact: Zorka Husová

National Institute of Technical and Vocational Education

Weilova 1271/6

102 00 Prague 10, Czech Republic

Tel. ++420 / 274 86 22 516, Fax ++420 / 274 863 380

E-Mail: <a href="mailto:zorka.husova@nuov.cz">zorka.husova@nuov.cz</a> Homepage: <a href="http://www.nuov.cz">http://www.nuov.cz</a> Tanja Kreetz is social scientist. After her studies in cultural studies and communications in Berlin (Germany) and Amsterdam (Netherlands) she obtained a Master of Arts in "Contemporary European Studies" at the University of Bath (UK), Sciences Politiques in Paris (France), and Universidad Carlos III de Madrid (Spain). Since more than four years she has been working in EU-funded projects in the field of lifelong learning, vocational education and training, labour market policies, gender relations and career development – starting as a research fellow in Austria, France, and Germany, and moving on to her current position as EU project coordinator at the Competence Center EUROPA of bfw in Heidelberg.

Contact: Tanja Kreetz

Competence Center EUROPA

Berufsfortbildungswerk Gemeinnützige Bildungseinrichtung des DGB GmbH (bfw)

Im Neuenheimer Feld 582 69120 Heidelberg, Germany

Tel. ++49 (0) 6221 / 50 257 47, Fax ++49 (0) 6621 / 50 257 44

E-Mail: <u>Tanja.Kreetz@bfw.EU.com</u> Homepage: <u>http://www.bfw.de</u>

Dr. Ben Kriechel is an economist at the Research Centre for Education and the Labour Market (ROA). He studied economics at Maastricht University (Netherlands) and Brandeis University (United States). He obtained his PhD from Maastricht University together with the degree of the National Network of Quantitative and General Economics (NAKE) with a dissertation on worker displacement. He has visited the National Opinion Research Center (NORC) at the University of Chicago and the Institute for the Study of Labour (IZA) in Bonn. He is a fellow of IZA Bonn and member of the research school METEOR at the faculty of economics, Maastricht University. Ben Kriechel has taught courses on business research methods, event-history methods and health economics at Maastricht University, as well as personnel economics at Maastricht University and Utrecht School of Economics. He is involved in several projects on labour market forecasting for the Netherlands on the regional and national level. His research interest is in the area of worker displacement, personnel economics, and labour market forecasting.

Contact: Ben Kriechel Maastricht University

Research Centre for Education and the Labour Market (ROA)

P O Box 616

6200 MD Maastricht, Netherlands

Tel.: ++31 (0) 43 / 388 3287, Fax ++31 (0) 43 / 388 4914

E-Mail: Ben@Kriechel.eu

Homepage: http://www.roa.unimaas.nl/

Dr. Iwona Kukulak-Dolata is a doctor of economics and lecturer at the Chair of Economic Policy, University of Łódź (Poland). Her scientific interests focus on the socio-economic policy issues. For many years, she has specialised in the labour market problems, particularly the functioning of the public employment service, labour market equilibrium, labour market monitoring, long-term unemployment. She is author of several tens of articles, reports and expert opinions. Iwona Kukulak-Dolata participated in many national and international research projects. Since nine years she is collaborating with Institute of Labour and Social Studies in Warsaw.

Contact: Dr. Iwona Kukulak-Dolata Uniwersytet Łódzki – Katedra Polityki Ekonomicznej ul. P.O.W. 3/5 90-214 Łódź, Poland Tel. ++48 42 / 635 51 39, Fax ++48 42 / 635 53 01

E-Mail: <a href="mailto:doiwona@poczta.onet.pl">doiwona@poczta.onet.pl</a> Homepage: <a href="mailto:http://www.uni.lodz.pl">http://www.uni.lodz.pl</a>

Dr. Christa Larsen a social scientist. She works in the fields of labour markets, regional development and empirical methods. Christa Larsen studied sociology, political sciences and economics at the Universities of Duisburg and Bielefeld (Germany), and at the University of Oregon (United States). In her dissertation at the University of Essen (Germany), she applied multi-level models in the field of socialisation. She has research experience in the fields of methods and statistics with a focus on quantitative network analyses, as well as in education and professional training, labour markets, socialisation and gender relations. Since 2002 she has been based at the Institute for Economics, Labour and Culture in Frankfurt am Main. Her current work concentrates on regional labour market monitoring, regionalised analyses of labour markets for health workers, systems for information and diagnoses of labour markets and regional prognoses.

Contact: Dr. Christa Larsen
Institute for Economics, Labour and Culture (IWAK)
Robert-Mayer-Straße 1
60054 Frankfurt, Germany
Tel. ++49 (0) 69 / 798 22152, Fax ++49 (0) 69 / 798 28233

E-Mail: <u>C.Larsen@em.uni-frankfurt.de</u> Homepage: <u>http://www.iwak-frankfurt.de</u>

Waldemar Mathejczyk is social scientist. He studied sociology at the University of Duisburg (Germany) and at the University of Vienna (Austria). Since more than ten years he is working in the field of labour market policy. In 2006, he is senior researcher at the Institute for Economics, Labour and Culture (IWAK) in Frankfurt am Main. In the years before he was engaged in several projects of regional labour market monitoring, especially those referring to Prospect approach in North Rhine-Westphalia. In general, his research activities are focussed on labour market issues, safety and health at work, and working conditions, especially in the transportation sector.

Contact: Waldemar Mathejczyk

Institute for Economics, Labour and Culture (IWAK)

Robert-Mayer-Straße 1

D-60054 Frankfurt, Germany

Tel. ++49 (0) 69 / 798 22151, Fax ++49 (0) 69 / 798 28233

E-Mail: <u>mathejczyk@em.uni-frankfurt.de</u> Homepage: <u>http://www.iwak-frankfurt.de</u>

Professor Dr. Ronald McQuaid is social scientist with a multi-disciplinary background. He has a PhD from Harvard University (USA), a MSc (Economy) from the London School of Economics, and a BA from Lancaster University. Ronald McQuaid has been the director of the Employment Research Institute, Napier University, in Edinburgh since 2000. He previously worked at several universities and also headed economic development at two municipalities. He has carried out a range of research projects and studies on employment change, economic development, labour markets, partnership working and transport and development in the United Kingdom and abroad.

Contact: Professor Dr. Ronald McQuaid

Employment Research Institute – Napier University

Craiglockhart

Edinburgh EH14 1DJ, United Kingdom

Tel. ++44 131 / 455 4310, Fax ++44 131 / 455 4311

E-Mail: <u>r.mcquaid@napier.ac.uk</u>

Homepage: <a href="http://www.napier.ac.uk/depts/eri/staff/Ron.htm">http://www.napier.ac.uk/depts/eri/staff/Ron.htm</a>

Andreas Mertens is urban and regional planner. He studied spatial planning at the University of Dortmund (Germany). Since more than 10 years he is working for the G.I.B. (Gesellschaft für innovative Beschäftigungsförderung) in Bottrop (Germany). The G.I.B. - (owned by the Ministry of Labour in North Rhine-Westphalia, as the sole shareholder) is dealing with all aspects of labour market policies in the federal state of North Rhine-Westphalia and takes the part of an interface between the federal state and the regions. Since 1999, he is project leader and coordinator for studies in the field of future qualifications and labour market monitoring and projects of regional labour market monitoring referring to the Prospect approach.

Contact: Andreas Mertens

Gesellschaft für innovative Beschäftigungsförderung (G.I.B.)

Im Blankenfeld 4

46238 Bottrop, Germany

Tel. ++49 (0) 2041 / 767 160. Fax ++49 (0) 2041 / 767 299

E-Mail: <u>a.mertens@gib.nrw.de</u> Homepage: <u>http://www.gib.nrw.de</u> *Dr. Marco Mevius* has received a diploma in business administration from Johann Wolfgang Goethe-University in Frankfurt. His special focus was information systems and computer science. He has almost five years of experience in the areas of business process engineering, software engineering and information systems and is an expert for the management and implementation of large IT projects, designing new business processes and corresponding monitoring systems. Marco Mevius made his PhD at the Institute of Applied Informatics and Formal Description Methods at the University of Karlsruhe (TH) with a thesis about performance indicator-based business process management with Petri nets. Currently he is department leader in the research group of software engineering at the research center for information technologies (FZI) in Karlsruhe.

Contact: Dr. Marco Mevius
Research Center for Information Technologies (FZI)
Haid-und-Neu-Straße 10-14
76131 Karlsruhe, Germany
Tel. ++49 (0) 721 / 9654 602, Fax ++49 (0) 721 / 9654 603

E-Mail: <u>mevius@fzi.de</u> Homepage: <u>http://www.fzi.de</u>

*Prof. Dr. Marco Ricceri* is acting as general secretary of the EURISPES, a primary Italian research institute in the economic and social sectors, mostly engaged in building and reinforcing a network of excellence with other European research institutes. Marco Ricceri is also professor at the Link Campus University of Malta in Rome, coordinator of the Ethic Committee of the European Agency of Investments (AEI), enrolled in the special list of experts of the EU-Commission, DG Research, CORDIS Research Programme dealing with the issues: European Social Policy and Industrial Relations. After the degree in Political Science, University of Florence, Marco Ricceri worked at the National Study Office of the CISL (Free Italian Trade Union) dealing with the questions of the technological processes and their contribution to the economic development and social changes, at the Parliamentary Groups of the Italian Chamber of Deputies as Chief Officer for the Economic Policies. He acted also as substitute member of the European Social Committee (CES), advisor of the Italian Ministry for Scientific Research, and member of the National Council of the Italian journalist association.

Contact: Prof. Dr. Marco Ricceri EURISPES Largo Arenula 34 00186 Rome, Italy Tel. ++39 06 / 68210205, Fax ++39 06 / 6892898

E-Mail: <a href="mailto:eurispes.intl-dept@libero.it">eurispes.it</a> Homepage: <a href="mailto:http://www.eurispes.it">http://www.eurispes.it</a>

Guy Sapin is a sociologist. After studying philosophy and training / education sciences at the University of Paris X, he graduates at the Institute for Political Sciences in Paris (Sciences PO Paris). Since more than 25 years he is working in the field of education and training in relation with the labour market. Since five years he is director of the "C2R", Centre Régional de Ressources pour le Travail, L'emploi et la Formation en Bourgogne (Center for productions of ressources about education, training and labour market) in the region of Burgundy. He is actually involved in sociological research about innovation in training and education.

Contact: Guy Sapin C2R Bourgogne Immeuble Le Grama

15 place Grangier, 21000 Dijon, France

Tel. ++33 (0) / 3 80 54 14 14, Fax ++33 (0) / 3 80 54 14 15

E-Mail: <u>qs@c2r-bourgogne.org</u>

Homepage: http://www.c2r-bourgogne.org

*Prof. Dr. Alfons Schmid* is professor for work science and political education ("Arbeitslehre und politische Bildung"), main focus economics, at the Johann Wolfgang Goethe-University of Frankfurt (Germany) and scientific director of the Institute for Economics, Labour, and Culture (IWAK) in Frankfurt am Main (Germany). His main areas of research are regional developments of employment and labour market, new information technology and employment, regional competitiveness as well as attitudes in the context of welfare state.

Contact: Prof. Dr. Alfons Schmid
Johann Wolfgang Goethe-University

Institute for Economics, Labour and Culture (IWAK)

Robert-Mayer-Straße 1 60054 Frankfurt, Germany

Tel. ++49 (0) 69 / 798 28229, Fax ++49 (0) 69 / 798 28233

E-Mail: alfons.schmid@em.uni-frankfurt.de

Homepage: http://www.iwak-frankfurt.de and http://www.soz.uni-frankfurt.de/arbeitslehre

Jonathan Schulz is an economist. He studied economy at the University of Konstanz (Germany) and the University College Cork (Ireland). Since 2003 he is affiliated with the translake GmbH and engaged in the regional labour market monitoring approach of the Lake Constance Area. Since 2006 he also is research assistant at the Research Institute for Empirical Economics and Economic Policy (FEW-HSG) in Sankt Gallen (Switzerland). His research interests include regional economics, economic growth and information economics.

Contact: Jonathan Schulz

translake GmbH Obere Laube 53

78462 Konstanz, Germany

Tel. ++49 (0) 7531 / 36592 33, Fax ++49 (0) 7531 / 36592 34

E-Mail: jonathan.schulz@translake.org

Homepage: <a href="http://www.translake.org">http://www.translake.org</a> and <a href="http://www.statistik.euregiobodensee.org">http://www.translake.org</a> and <a href="http://www.statistik.euregiobodensee.org">http://www.statistik.euregiobodensee.org</a>

Mirena Stavreva is a lawyer. She studied law at the Sofia University (Bulgaria) and has a master degree ("LLM") in International and commercial law at the University of Buckingham (United Kingdom). She is working as an expert at the National Employment Agency, directorate "European Funds and International Projects", in Bulgaria. For almost two years she is engaged in implementation and monitoring of several projects, funded by the European funds under the "Phare" Programme in the field of employment, human resources, labour market monitoring and social policy.

Contact: Mirena Stavreva National Employment Agency 3, Dondukov Blvd.

1000 Sofia, Bulgaria

Tel. ++359 (0) 2 / 926 53 50, Fax ++359 (0) 2 / 986 78 02

E-Mail: <u>m.stavreva@az.government.bg</u> Homepage: <u>http://www.az.government.bg</u>

Dr. Monika Stricker is economic scientist. She studied business administration at the University of Bonn and at the University of Siegen (Germany) and finished her PhD at the University of Siegen in business administration and human resource management. Since more than ten years she is working in the field of labour market policy. Since 2005 she is responsible for the international business development (education and training) at the Competence Center Europe in Siegen. In the years before she was engaged in several projects of regional labour market monitoring, especially those referring to Prospect approach in North Rhine-Westphalia. In general, her research and international development activities are focussed on labour market issues in Europe, on education and employment in several sectors and contexts and for different target groups.

Contact: Dr. Monika Stricker Competence Center EUROPA

Berufsfortbildungswerk Gemeinnützige Bildungseinrichtung des DGB GmbH (bfw)

Birlenbacher Str. 17

D-57078 Siegen, Germany

Tel. ++49 (0) 271 / 250 56 964, Fax ++49 (0) 271 / 250 48 29

E-Mail: monika.stricker@bfw.EU.com

Homepage: http://www.bfw.de

*Dr. Helena Úlovcová* took her degree at the faculty of philosophy of Charles University in Prague in 1983. From 1991 to 1993 she took a postgraduate course of sociology held at the same faculty. Since 1993 she has been employed in the National Institute of Technical and Vocational Education (the former Research Institute of Technical and Vocational Education), first as a project manager, now as a deputy director. She deals with labour market issues, success of school leavers on the labour market and career guidance, and counselling issues.

Contact: Dr. Helena Úlovcová

National Institute of Technical and Vocational Education

Weilova 1271/6

102 00 Prague 10, Czech Republic

Tel. ++420 / 274 86 22 516, Fax ++420 / 274 863 380

E-Mail: <u>ulovcova@nuov.cz</u> Homepage: <u>http://www.nuov.cz</u> Antje Utecht is business economist for public health and social scientist. After her diploma in "Health Promotion and Health Management" at the University of Applied Sciences in Magdeburg (Germany) she obtained a Master of Arts in "European Studies" in human resources development at the College of Europe in Brugge (Belgium). Antje Utecht has been head of the European department of Berufsfortbildungswerk des DGB (bfw) in the region of Heidelberg since 2000. At the beginning of 2004 she became manager of the Competence Center EUROPE of bfw - a strategic department of bfw's headquarter for the development of innovative projects and training measures. She has over ten years of experience in the field of EU project management, focusing on further education, lifelong learning, human resources development and employment policy.

Contact: Antje Utecht

Competence Center EUROPA

Berufsfortbildungswerk Gemeinnützige Bildungseinrichtung des DGB GmbH (bfw)

Im Neuenheimer Feld 582 69120 Heidelberg, Germany

Tel. ++49 (0) 6221 / 50 257 30, Fax ++49 (0) 6221 / 50 257 44

E-Mail: <a href="mailto:antje.utecht@bfw.EU.com">antje.utecht@bfw.EU.com</a> Homepage: <a href="http://www.bfw.de">http://www.bfw.de</a>

*Markus Weißkopf* studied public policy and management at the University of Konstanz (Germany) and at the University of Madrid (Spain). Since 2004 he is engaged in the regional labour market monitoring at the translake GmbH in Konstanz. The demographic development in the international area of the Lake Constance is one of his main interests.

Contact: Markus Weißkopf

translake GmbH Obere Laube 53

78462 Konstanz, Germany

Tel. ++49 (0) 7531 / 36592 30, Fax ++49 (0) 7531 / 36592 34

E-Mail: markus.weisskopf@translake.org

Homepage: http://www.statistik.euregiobodensee.org

Alena Zukersteinova is an economist. She studied at the faculty of business administration at the University of Economics in Prague. Her main research activities are focused on human resource management and development, continuing training in enterprises and anticipation of future skill needs. Since 2001, she worked at the National Observatory of Employment and Training within the National Training Fund in Prague. Since 2005, she is a project manager at the European Centre for the Development of Vocational Training (Cedefop) where she is responsible for the project "Skill needs and enterprises". She coordinates the international network on early identification of skill needs "Skillsnet" and research on continuing vocational training in enterprises.

Contact: Alena Zukersteinova

European Centre for the Development of Vocational Training (Cedefop)

Europe 123

57001 Thessaloniki, Greece

Tel. ++30 2310 490 103, Fax ++30 2310 490 117 E-Mail: alena.zukersteinova@cedefop.europa.eu

Homepage: <a href="http://www.cedefop.europa.eu">http://www.trainingvillage.gr</a>