# check MEASUREMENT OF INTEGRATION TECHNOLOGY

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# MEASUREMENT OF INTEGRATION TECHNOLOGY IMPLEMENT USING BALANCED SCORECARD APPROACH (CASE STUDY IN AMG)

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Abstract— The organization obtains information from a system in its implementation. Attempts to improve system performance and organizational performance are done using the Integration Technology. more efficient and effective operational work with support of Integration Technology in management decisions and satisfaction of information usage, based on measurement of 4 main perspective in Balanced Scorecard hence there is added value in work system that considered result of implementation of Integration Technology. This study aims to see the value added business work system in the application system application in the company with a case study.

Keywords— Value-added, Integration Technology, Measurement, Balanced Scorecard

# 1. INTRODUCTION

The application system has many developments in achieving process efficiency in the industry as the basis of technological progress. Manager Integration is a development that made to support process business teamwork with the functional of the company's growing systems. Integration Technology is a entry data tools into information in the Company System. Integration Technology with a matrix that provides added value in the performance of enterprise applications to support enterprise systems achieve more competitive and planned planning, plotting an emphasis on improving the overall business of the company. Integration Technology implementation in enterprise system applications, in some perspectives greatly add value in the company's work processes. to measure the added value of managerial integration in the perspective affecting the results of implementation of this implementation, the Balanced Score-card model with four perspectives is chosen because it is considered very close to the value-added factors of Integration Technology in the business process, the functionality contained in the integration results of processing managers and operations data transfer is a point of the supporting of reports to plan with result accurately and reliably, so that groups, communities or individuals of people who have relationships and interests with an organization or company share the added value. Associated with the role of team managers in maintenance the results of corporate application system reports still do not

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have a greater impact change in providing added value in business in the company. Assessment of an Integration Technology provides added value that results from the reporting of an enterprise application in the environment. balanced scorecard added value is expected to create added value that occurs in enterprise system applications. This research to know the question of research as follows:

- 1. What is the value-added implementation of integration managers for integration enterprise?
- 2. How to measure of Integration Technology in enterprise application?

# 2. RESEARCH BACKGROUND

# 2.1. MASTER DATA

Business processes within each organization with operational data in them managed by information systems management [3]. As well as in many industrial areas at this point, users of enterprise applications are integrated between departments, the data analysed in each department that has been conducting system application activities aimed at advancing business work. The variation of industrial application usage continues to upgrade, because: data increases rapidly every day. Required to integrate Online Analytic Processors, knowledge discovery, database functions, information resources to upgrade supporting plans, information, and other business want [15; 17]. Application examples such as special middleware: middle ware data mining can be more transformed, the application of the applied enterprise system has an final result that upgrade the chances of business competition. We focus on implementing Integration Technology to focus on improving the results of information more quickly and accurately. Measurement and value added results are predicted to occur with applications in the application of this enterprise system will be input with TOWS Matrix [2]. Measuring with 4 fundamental perspectives of its achievement in industrial system applications is a continuing task for industrial companies that apply this technology to a device within a system.

# 2.2. MEASUREMENT PROCESS SYSTEM

An efficient measurement method is accomplished by following the steps, information in reference journals and interviews [1] and done with 4 perspective balanced scorecard. As the nearest factor and also the added value matrix in TOWS [6]. For the first, Substitution reference pools Integration Technology system with balanced scorecard 4 perspective model is managed and measured to make a analysis of results from customer perspective approach, financial approach, internal business approach, and growth and learning approach, where the questionnaire results from 4 perspectives are found that there should be a give in the plan to support reengineering business and change for the management, the balanced scorecard approach makes assessments more standardized because of the sharing of views from the four sections on which the general assessment is based, then TOWS with 4 matrices [5] then it is in the matrix to know that the use of Integration Technology is now able to make changes to a better direction.

# 2.3. ABOUT INTEGRATION TECHNOLOGY

The Reengineering Business Process (BPR) is pieces of the development of the organization's business processes within the Enterprise System that using the integration technology [8]. Value edit in business systems happen so fast, so the way in which the Integration Technology implementation is related to its integration matrix replaces current users with Integration Technology [7]. And the functionality of the user becomes more effective, efficient to focus on knowledge management and information system

control [9]. Therefore, it is necessary to understand about Application Integration in its application in the company.

Table I. Detailed explanation of Integration Technology and lack of Corporate Application [10]

Integration Approach	Strength	Weakness
Process Business process enterprise and IM system	Identify the speed and analysis of the system work and appropriate adjustments to the performance process	Complex to make changes in an implementation
User Interface review any system changes with regard to in every business	Easy to use with small changes to existing apps	The application becomes the thing that should be in line with the business, the focus discussion Difficult to maintain and difficult to be formed on the running activities
Application Interface explains some important information	Calling enterprise applications	each unit provides information for various value added

Table II Stakeholders systems, The Concerns, The Influences, and Need Resources [11]

Stakehold	The Concerns	The Influences	Metrics	Need Resources
er				
Project	Budget and Timeline	Input: Systems Update	Value	Finded
Leader	for performing	Output : Funding	adding, Edit	
	Concerns System	Reports	timeline	
Systems	Performance,	Input: Project Manager	Requirement	Customer use
project	behaviors, operability,	Output : Subsystems	satisfaction,	cases, functioning
Engineer	physical, electrical	engineering priorities	performance	Systems
	restrictions, and	and allocation	parameters	(subsystems),
	functionality of			tested interfaces
	integrated Systems			

# 2.4. MEASUREMENT OF INTEGRATION TECHNOLOGY QUALITY

To measure the effective impact of manager integration by linking organizational business practices, such as: results, accurate information, and price, [12] then 4 perspectives in the Balanced Scorecard (BSC) is the approach factor for assessing the impact of Integration Technology as shown in Figure 1 below this:

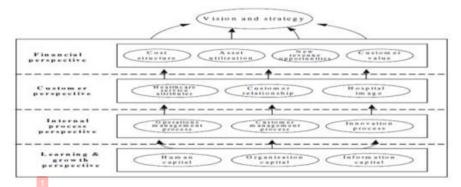


Fig. 1 The BSC strategy map (Adapted from Kaplan and Norton [32,34])

The results show the relevance of 4 balanced scorecard perspectives with IT investments that together show relationships linked with others improved directly from training and customer closeness. That is, the natural model, as shown in Figure 2 is recommended.

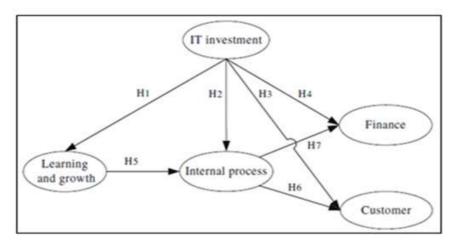


Fig. 2 Performance Framework

As a complete perspective model through the system application mediator in the company.

Level management evaluation methods are the right choice of the Balanced scorecard with several factors and value generated. This indicates there is a factor of the perpetrator and the object [13]. Balanced scorecard has the closest factor between financial and operational forms that have been useful in conducting performance reviews in the organization of business work. In the organization of industrial business work by looking at the performance of all intended users to customer satisfaction in doing business strategy. [4] The data sampling model is the model requested for validation, and refers to the company in providing questionnaires to each user responsible for using the application system. [15]

# 2.5. SUSTAINABILITY BALANCED SCORECARD

The measurement tool is focused on the initial scale of the balanced scorecard, especially in view of the perspective of 4 important perspectives in viewing the sustainability of the Integration Technology in the company. The persistence of a performance perspective with tactical strategy and how it relates to the organizational value system. [13].

# 2.6. INTEGRATION TECHNOLOGY WITH 4 PERSPECTIVE BALANCED SCORECARD

Although a number of studies have looked at the content of the four balanced scorecard perspectives but few see from the planning strategy map, value addition is made with upgraded products and processed to offer the results back to consumers. Strategic maps appear to be valuable tools at the management level, since they simplify complex causal relationships that balanced scorecard builds with Integration Technology, so the other part of the management interest is the influence of the top or bottom level. activities in everyday business strategies and integration technologies emerge as added value that helps in the practice of departmental work. [10]

# 3. DATA RESEARCH

# 3.1 COLLECTING THE DATA AND PERSPECTIVE METHOD BSC

In a sample with Integration Technology output data in operations, where the data becomes a report in decision making and in confirmation with external parties. Then the result of the information report has been mapped into 4 balanced scorecard perspectives that have been adapted to the required columns and rows. Objects: internal and external reporting data of transactions occurring in the current period in company enterprise system applications already running at Argo Manunggal Group.

Table III. Aging receivables Report

Cla ss ID	Custo mer ID	Custo mer Name	Invoice Numbe r	Due Date	Invo ice Amo unt	Bala nce Amo unt	1 Up to 30 Days	31 Up to 60 Days	61 Up to 90 Days	>90 Days
CI	C1	X1	IV1	Date 1	N1	B1	-	I1	-	-
CI	C2	X2	IV 2	Date 2	N2	B2	-	-	I2	-
CI	C3	X3	IV 3	Date 3	N3	В3	I3	-	-	-
CI	C4	X4	IV 4	Date 4	N4	B4	-	-	-	I4
CI	C5	X5	IV 5	Date 5	N5	B5	I5	-	-	-

Table IV. Aging Payable Report

Cla	Suppli	Suppli	Invoice	Due	Invoi	Bala	1 Up	31	61	>90
SS	er ID	er	Number	Date	ce	nce	to 30	Up	Up	Days
ID		Name			Amo	Amo	Days	to 60	to 90	
					unt	unt		Days	Days	
DI	S1	Z1	IV1	Date 1	N1	B1	I1	-	-	-
DI	S2	Z2	IV 2	Date 2	N2	B2	I2	-	-	-
DI	S3	Z3	IV 3	Date 3	N3	В3	I3	-	-	-
DI	S4	Z4	IV 4	Date 4	N4	B4	-	-	I4	-
DI	S5	Z5	IV 5	Date 5	N5	В5	I5	-	-	-

Table V. Sample reporting Cash flow projection

CO A	Cate gory	Fore cast Jan 18	Fore cast Feb 18	Fore cast Mar 18	Fore cast Apr 18	Fore cast Mei 18	Fore cast Jun 18	Fore cast Jul 18	Forec ast Augus t 18	Fore cast Sep 18	Fore cast Oct 18
0	Beg. bala nce	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	BS9	BS1 0
1	C1	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
2	C2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
3	C3	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
4	C4	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
5	C5	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10

#### **Current Integration Technology Systems**

In the use of Integration Technology in an enterprise provides many operational processes that serve as an accurate report, in this case is symbolized in reading the transaction data in the template and made a decision. The achievement of the enterprise system by implementing the current Integration Technology with the development of solutions and actions taken is expected to be applied to the development of enterprise systems in Argo group organization by looking at the state of the SWOT analysis that is now described below:

#### 1 Internal Strength:

- A. Sales, purchases, and stock information is always acc rate and up to date.
- B. Infrastructure in IT update has been fulfilled
- C. Data security maintained and held by the IT department
- D. Good communication between departments with each other.
- E. Have good relationships with customers and suppliers

#### 2 Internal Weakness

- A. Lack of production control planning with changes in information occurring
- B. Archived data so stacked because there are several systems running.
- C. Lack of SOP to customers.
- D. The process of revising old data and difficult procedure
- E. Reliance with consultants is very high.

# 3 External Opportunities

- A. Produce an increasing number of orders in the textile field.
- B. Establishment of production planning system with supporting application
- C. Implement Supply Change Management (SCM) and Customer Relationship Management (CRM).
- D. Strategy of Doing Business with ERP system.

# 4 External Threats

- A. Lack of IT Internal support departments
- B. Decrease in orders for orders that are late in delivery
- C. Tangerang Regional minimum wage increase and flat performance.

Based on the above analysis it can be concluded that the actions taken in the Integration Technology issued a report in accordance with the SWOT analysis approach so that there will be a need to evolve as a function of the ERP system in AMG.

# 3.2. INTEGRATION TECHNOLOGY WITH 4 PERSPECTIVE BSC

The result of Integration Technology reports related to the 4 approaches of balance scorecard perspective which through application of enterprise systems has applied relationship matrix with balance scorecard approach shown in Table VI,

Table VI. Reporting Integration Technology with 4 perspective BSC

Integration	Perspective					
Technology Report	Customer	Financial	Business Processes	Learning		
Sales Reports	1	1	1	0		
AR Aging	1	1	1	0		
Purchase Reports	1	1	0	0		
AP Aging	1	1	0	0		
Total	4	4	2	0		

#### Information Customer Perspective

The Integration Technology in the resulting report approaches the customer perspective approach, looking at the integrated data in the form of operational data for the needs of the customers and suppliers, then some reports that help the internal department to use as a confirmation reference with external parties and can be maximized as an accurate information center. Some perspectives can be included in the integration of Integration Technology, thus the way systems Integration Technology work is expected to assist in providing accurate information to avoid miss communication.

#### 3.3. DATA INFORMATION CUSTOMER PERSPECTIVE

With the integration of managers strongly related to the perspective of customers then the result of added value needed by the customer will be more support in closer relationship with the customer, in this case the customer trust to be awake and good. described in the row and column below:

Table VII. Customer information needs with Integration Technology

Customer	Scale 1					
Perspective	Very satisfied	Satisfied	Less Satisfied	Very Less Satisfied		
Data	8	2	0	0		
accurate	9	1	0	0		
Information						
Finishing Report	7	3	0	0		
Repeat Order	7	3	0	0		
Total	31	9	0	0		

# 4. RESULT AND DISCUSSION

# 4.1. VALUE-ADDED WITH INTEGRATION CUSTOMER PERSPECTIVE

Based on the results of balanced scorecard measurement in the use of Integration Technology in the application system in the company, that found many positive changes, especially in the perspective of customers, financial and business processes. users application can bridge the integration of managers with the results of reports issued in order to support the achievement of customer satisfaction, satisfaction of financial statements, and satisfaction of work in the business process of a company. key user Integration Technology exist in some perspective balance scorecard which is very helpful in analyzing, this result forwarded to decision making process so happened business competition in company system

Table VIII. Value-added with Customer Viewpoint

Measures	Problem/solving	Development / Repair
Customer Foo	cus	
% The order repeat takes place within a short period of time	relationship with	Checks some customer activities become more focused on the relationship with internal users,  Checks some data is checked and in publish to the know by the customer with internal
% of Return Order  reduced problem in orders due to process in the machine or misinformation		Check the efficiency analysis of machines in the process on each machine and every order
% of customer proximity	Increased marketing planning with existing customers	Customer needs checks are more critical in helping customers deliver their product sales solutions

Table IX. Value-added of Financial Viewpoint

Measures	Findings	Development / Repair
Financial Foc	us	
% of administration Cost	reduced cost of Item Non Stock (paper and ink) and added to strengthen customer relationships	Prepare plan with a more focused on budget planning for effective payable transaction
% of Cash Flow dashboard	The Cash Flow Statement Time dashboard is more open and fast than ever	preparation in doing analysis and planning cash flow projection (Budgeting)
% of financial statements	reduce the error of accounting post in every transaction	check journal data and postal analysis in every transaction in the system
% of Management Reporter	More routine planning analysis reports in the next 10 months	Preparation of reports can be showed actual, effective and efficient, and made by stakeholder decisions

Table X. Value-added of Internal Proses Viewpoint

Measure s	Problem/Solving	Development / Repair
Internal P	roses Focus	
% of	The number of	preparation of activities called digital archives
Current	archived data	or digital documents that operate internally to be
Docume	becomes more and	able to follow real time Integration Technology
nt	more related and	
	accurate	
% of	The reality of training	the preparation of a group discussion forum for
sharing	and problem solving	the update information and saving of any
Knowled	such as Forum Group	problems that occur.
ge	discussion in solving	<u>^</u>
	the existing problem	
	solving	
% of	the training process	preparation of routine plan and next to be
Internal	develops and inputs	growing, and effectiveness in system operations
Training	more than the general	in the implementation of this integration
	standard with systems	
	and procedures	
	related to the business	
	for its use.	

# **4.2. MEASUREMENT OF INTEGRATION TECHNOLOGY IN ENTERPRISE APPLICATION SYSTEM**

System integration technology implemented in the application system in the company able to provide improved service criteria on the 4 perspectives made the matrix on its use, the change in work patterns and results achieved by a system application company shows the Integration Technology to improve the company system with accurate data reporting results by concluding on the results of the changes in the four balanced scorecard perspectives. In the description of the data and internal transactions repeatedly the Integration Technology helps in stabilizing the data information made, especially in the three perspective balanced scorecard perspective of Customer perspective, financial perspective, internal perspective of business processes. There is one dominant point that changes the way companies work in the use of enterprise application systems, the way the input is replaced by the data upload by the Integration Technology. By example the number of improvements in 3 balanced scorecard perspectives.

Table XI. Process likert scale Integration Technology Systems

Balanced	Scale				
Scorecard Perspective	More increase	Increase	Less Increase	Very Less Increase	
Customer	10	0	0	0	
Financial	7	3	0	0	
Internal Proses	8	2	0	0	
Growth and Learning	0	0	0	0	
Total	25	5	0	0	

# More Increase

By looking at the Likert Point scale of each added value of More Increase points, because the role of system integration technology works as a technology that provides added value in the direction of increasing or increasing over. At this point not too prominent.

#### Increase

In the scope of the integration of managers that also functions as a result of reports enjoyed by the financial department, the dominant happening occurs due to the implementation of Integration Technology in the application system in the company so that some reports more actual and quickly reported by the financial department.

The workings resulting from the implementation of the Integration Technology tools make each business unit become more active in learning the ability of manager integration with the goal of the Integration Technology is able to provide more effective and efficient way of working so that the application of any application system capable and successful applied in a company.

	Internal Strentgh:	Internal Weakness:
External	SO	WO
<b>Opportunities:</b>	<ol> <li>Able to upgrade</li> </ol>	Prepared for large
	customer satisfaction.	application investment in
	2. Able to reduce	mobile application
	customer complaints against	2. Prepared to eliminate
	the finished goods	manual work
	3. Improved marketing	3. able to switch to cloud
	strategy that can be done by	technology
	marketing	
<b>External Threats:</b>	ST	WT
	<ol> <li>Keep the knowledge</li> </ol>	1.Doing Business Process

Table XII. TOWS matrix Integration Technology opportunity

Then with the results of the improvement is done further research in related companies ie enterprise application systems and perspectives that assess the increase from the previous, then from the measurement using the balanced scorecard method is able to provide an advanced matrix in TOWS Matrix so that internal business has to see the results of technology value-added measurement Integration Technology with the value of the company's existing system information.

held

#### 4.3. THE LIMITATIONS

This case study just measures application of integration technology in the implementation of enterprise application systems, with qualitative perspective in the balanced scorecard method. Value-added of a balanced scorecard approach in the integration matrix of technology to systems business based on the Argo Manunggal Group unit with 4 perspectives that appear to be a major improvement in customer perspectives. The authors also realize that it is not to be included in the 4 perspectives thoroughly on every division, taking only on the main perspective of the balanced scorecard so the time limitations that make measurements cannot be extended in detail

Reengenering (BPR) with

more short

and with quantitative methods, so the proposed TOWS matrix still needs to be made planning control in practice.

# 5. CONCLUSION AND FUTURE RESEACRH

More enterprise systems are implementing applications, making many changes but major improvements are found in the implementation of integration technologies that develop the capabilities of enterprise application systems. The integration of managers who help deliver positive results from a balanced scorecard perspective with the help of the TOWS matrix that deals with outlining the company's added value in implementing this integration technology, also provides some practices that can be practiced by companies to improve the way business firms work to keep them updated. Thus, we have focus for concluded that the qualitative measurement of integration technology with the balanced scorecard as a valuation component and the TOWS matrix as the added value table gained, needs to be reinvigorated by quantitative methods and the scope expanded for measurement becomes further research.

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This research is the result of operational activities that occur in the manufacturing industry which is engaged in the garment and textile fields, by looking directly at the field that the operational data problems are so many, then there is the writing of this measurement with the hope that this writing is completed with the appropriate time and data happens in the field, thanks to all the informants who have provided a lot of clarity so that this article can be completed with good expectations.

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International Journal of Control and Automation Vol. 12, No. 3 (2019)

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