Original Article

Economic Value Added and Management of Business Processes

Fatemeh Sarraf ¹, Seyyed Mohammad Sadegh Razavi*², Kobra Saadatmand³

¹Assistant professor in Accounting of Raja Higher Education Institute, Qazvin, Iran ²Master of Science in Industrial Management, Imam Khomeini International University, Qazvin, Iran

³Master of Science in Industrial Management, Imam Khomeini International University, Qazvin, Iran

*Corresponding Author E-mail: ensmsr@yahoo.com

Received: 11 December 2014, Revised: 20 January 2015, Accepted: 29 February 2015

ABSTRACT

For the purposes of business process efficiency management it is not sufficient to monitor and manage only the economic value added, it is necessary to simultaneously confront it with efficiency and value added to processes, calculated on the basis of the value added index, which maps the real value stream in complex business process. In this article we analysis the key index of business process on the basis of economic value added and value added index.

Keywords: Business Process Management, Economic Value Added, Value Added, Value Steam.

Introduction

The standard costing allocates all overheads to the product and these overheads relate to the amount of labor required to make the product. Some products appear to cost more than they really do and other products appear to cost less. These costs mislead people and cause them to make wrong decisions relating to pricing, profitability, make/buy and others. By this fact it doesn't motivate to lean behavior in production operations (Rav and Versendaal, 2007). Traditional companies use standard costing as the primary method of production costs control process. Today's production environment enables a vitally mechanism in the area of monitoring of real production costs, because all types of wastes are

undesirable and the motivation to cost according decreasing is in productivity improvement, higher efficiency and respectable cost level very important. The cost of the product varies according to the product volume and production mix, overhead costs are related to the value stream as a whole and the maximum profitability comes from the maximum production flow through the value stream (Johnson and Striner, 1961). Economic value added (EVA) as the key performance indicator in business is not automatically generated only by a strategy appropriately designed and chosen (Rummler and Branch, 2004). This just defines the way to achieve it provided that there is an interaction

between the underlying factors of success; a positive change of EVA can only be optimized intentionally provided that it becomes aligned with the knowledge of real value of business processes (Rummler, Branch, 2004). Management and calculation based on value added index (VAI) of processes is focused on surveying the value of total process cost flow (PCF) through production system for the total continues production time and thus brings a real view of the total amount of processgenerated costs by considering the actual tangible and intangible factors, participating on the production process. Business process value added analysis is concentrated on surveying the costs of the entire value chain, i.e. since receiving production orders to sending the output to customers, i.e. valuenot-added activities and processes (Dolors and 2003). Process management is an extensive discipline which is focused on achieving added value for customers and gaining profit for the company based on the business processes managing activities. Activity based management focuses on the requirements of continuous improvement, and the same time makes the managers use such tools for managing processes which create higher added value. Activity based management is the process of effective planning of business activities and achieving consistency in implementing the activities to reach their goals (H.I, 1967).

Theoretical and methodological aspects of the issue

One of the sub-objectives set up in this research was to analyze fundamental theoretical sources and existing knowledge about this area, identify crucial quantitative parameters of this task, such as Economic Value Added (EVA), Process Value Added based on Value Added Index (VAI), Process Cost Flow (PCF) and others, and then define appropriate measurement models to accomplish other sub-objectives.

Economic Value Added- EVA

EVA (Economic Value Added) is becoming one of the key indicators which are used to measure and manage the company performance and to determine the overall value of the company from its owner's or potential investor's perspective. An important feature of EVA indicator is that company owners can realistically assess operating profit by including their own capital invested in business in counting of interest income.

More basic models for calculation of EVA indicator have been developed for example:

Financial model – this model is nowadays considered to be more discussed as well as applied. The traditional basic formula generally used for the calculation of EVA indicator is as follow (Trk man, 2002):

EVA = NOPAT - (WACC *C)

Where:

NOPAT – Net Operating Profit after Tax; WACC – Weighted Average Cost of Capital; C – Capital invested

Costing accounting model - this model calculates EVA by using so-called theoretical interest expense which determine the cost or expense of the loan capital and equity capital as the capital necessary company's operating. Calculation of the capital necessary for company's operation considers assets as whole, i.e. both fix and current assets. These assets exclude those parts which are neutral for company's operation, and also interest free current liabilities (Kalhori, Hajiheydari, 2012). This model enables also an alternative procedure in terms of evaluation of assets in purchase or repurchases prices. The literature reports that more and more large companies are deciding to adopt the EVA performance measure as the guiding principle for their corporate policy (Dolors, 2003; H.I, 1967). Frequently, EVA is regarded as a single, simple measure that gives a real picture of stockholder wealth creation. In addition to motivating managers to create shareholder value and being a basis for management compensation, value based performance measurement systems have further practical advantages. Furthermore, studies suggest that EVA is an effective measure of the quality of managerial decisions as well as a reliable indicator of a company's value growth in the future. EVA is a measurement tool that provides a clear picture of whether a business is creating or destroying shareholder wealth. EVA measures the firm's ability to earn more than the true cost of capital.

Economic Value Added and Business Process Value Added

While the Economic Value Added (EVA) and methodology measurement tangible considers auasi factors accounting items of individual costs, calculation based on value added index (VAI) of processes is focused on surveying the value of total process cost flow (PCF) through production system for the total continuous production time and thus brings a real view of the total amount of processgenerated costs by considering the actual tangible and intangible factors, participating on the production process (Nadiri, 1980).

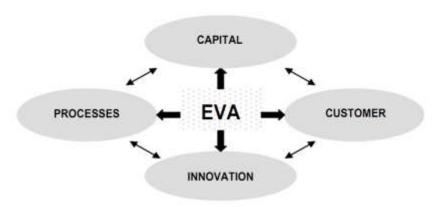


Figure 1. Two related dimensions of quantifying the value added in business

Business process value added analysis is concentrated on surveying the costs of the entire value chain, i.e. since receiving production orders to sending the output to customers, and it strictly differentiates between costs incurred to generate added value and costs of non-productive, i.e. valuenot-added activities and processes. While EVA is concentrated primarily on the cost of capital employed, added value of business processes is focused on the cost of complex value chain continuous time (Player, 1999). Economic value added (EVA) in business processes is not automatically generated only by a strategy appropriately designed and chosen. This just defines the way to achieve it provided that there is an interaction between the underlying factors

of success; a positive change of EVA can only be optimized intentionally provided that it becomes aligned with knowledge of real added value of business processes (figure 1). Combination of EVA and VAI brings a brand new viewpoint the process of economic efficiency management of business process by means of actually showing the price and profitability of business assets based on the knowledge of actual inclusion of a certain volume of assets into the production process, and on the other hand it assesses effectiveness of the use of these assets through their actual workload within a clearly defined total continuous production period. It points out the fact that economic profit in realization of a production plan can be significantly different depending on

actual production profit achieved, primarily affected by total production system flow (figure 1). Philosophy of EVA indicator management is to quantify current and future real achievable economic outputs based on the maximization of economic profit. It is thus obvious that the core is to find the optimal ratio between revenues and economic costs of the best alternative possible for selected production processes which are the real creators of economic value added. Due to company economic management as well as management of their business processes it is necessary. Within a comprehensive management control system, to link both the variables already mentioned - added value - EVA and value added to processes based on knowledge of VAI value added index. While the first reflects costs of company asset consumption, the second at the same time uses this value to quantify the efficiency of their consumption in real process.

Conclusion

As the present paper implies, for the purposes of business process efficiency management it is not sufficient to monitor and manage only the economic value added (EVA), it is necessary to simultaneously confront it with efficiency and value added to processes, calculated on the basis of the value added index (VAI) which maps the rear value stream in complex business processes. Only mutual management and alignment of both the two parameters will provide truly relevant decisions of managers of the company and achievement of the objectives set.

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How to cite this article: Fatemeh Sarraf, Seyyed Mohammad Sadegh Razavi, Kobra Saadatmand, Economic Value Added and Management of Business Processes. *International Journal of Advanced Studies in Humanities and Social Science*, 2015, 4(1), 76-79. http://www.ijashssjournal.com/article_85616.html