Application System for Smart Supply Chain Management (SCM): Case Study of SMEs in Indonesia

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Abstract

Global competitiveness and technological advances encourage the company to be able to respond market changing patterns quickly. Small Medium Enterprises (SMEs) is one of the business sectors that have an important role in the economy of the country. SMEs contribute to the GDP (Gross Domestic Product) and reduce the number of unemployment. The supply chain is the business activities ranging from the arrival of materials from suppliers and then processed into semi-finished products or finished products until the product reaches the final consumer. Research on supply chain coordination on the SMEs sector have gained public attention because of the relevance is important for product availability from upstream to downstream. This research aims to design a business application prototype using Adobe IR (Integrated Runtime) to facilitate the SMEs in the process of SCM. The use of information technology (IT) is considered as a prerequisite for effective control of complex supply chains today. With the application of an integrated database, the data flow and processing of the data in some parts of the business sector is expected to be faster and to increase company's productivity through optimization of the time, location, and quantity of material flow. So that SMEs as one of the pillars of the national economy was also able to increase their competitiveness in the global market.

Keywords. Application System, Global Competitiveness, Information Technology, SCM, SMEs.
Biography

Grisna Anggadwita obtained her Bachelor degree in the Department of Electrical and Communications from Telkom Institute of Technology Bandung, Indonesia. She continued her graduate studies in Management Science at the School of Business and Management, Bandung Institute of Technology, Indonesia. She received her scholarship from Tanoto Foundation when she continued her study. She became a Research Assistant in Interest Group of Entrepreneurial and Technology Management at the School of Business and Management, ITB. Currently, she joined as a Lecturer at the Faculty of Economic and Business, Telkom University, Indonesia. Her research interests are: technology management, women entrepreneurship, business incubator, and innovation management.

Cut Irna Setiawati graduated from Telkom University for both Bachelor in Business Administration (2008) and Master in Management (2014) completed with Cum Laude achieving. She is right now lecturing in Business Administration and focusing on Operation Management and Supply Chain Management. She is the author of Potensi Pengabdian Masyarakat Pantai Selatan Jawa Barat (2015) and some anthologies. She was the top five Finalists in the 4th PPM Regional Business Case Competition in designing a strategy for Cipaganti Holding Company. Besides Supply Chain Management and Operation Management, she is also interested in Creative Economics topics and considers it as the intangible value for Indonesia economy further. She is the facilitator of English Service Program (ESP) in RRI West Java and candidate of Lemhannas RI Fellowship Program 2015.

Yuhana Astuti was born in Balikpapan City on 29 September 1977. Her educational backgrounds are Bachelor of Applied Mathematics (2001) and Bachelor of Economic Development Study (2002), graduated from University of Padjadjaran, Bandung, Indonesia. She hold two Master's degrees for two field of studies, i.e. Faculty of Food and Life Science, Niigata University, Japan (2009) and Industrial Management, Bandung Institute of Technology, Indonesia (2003). Since 2010, she worked as a lecturer at the University of Telkom.

Dini Turipanam Alamanda is a lecturer of Business Statistics, Mathematical Economics, and Quantitative Method for Business in faculty Economics and Business in Telkom University. She received Bachelor of Agricultural Technology from Bogor Agricultural University (IPB) and Master of Science in Management from Institut Teknologi Bandung (ITB). Now, she joins Strategic and Decision Making sub interest group with game theory, smart city and business model as her research areas.