

Supply Chain Resilience Framework for Covid-19 Pandemic Era

**Dwi Agustina Kurniawati^a, Amalia Azka Rahmayani^{b*}, Yandra Rahadian Perdana^a,
Herninanjati Paramawardhani^a, and Titi Sari^a**

^aIndustrial Engineering Department, Faculty of Science and Engineering

^bLibrary and Information Science, Faculty of Adab and Cultural Science

^{a,b} Universitas Islam Negeri Sunan Kalijaga

Yogyakarta, Indonesia

* Corresponding author email: amalia.rahmayani@uin-suka.ac.id

Abstract

Covid-19 Pandemic has changed the way of life and many sectors of human activities, including the business way. The companies that want to survive and win the business during this pandemic, must have a supply chain resilience (SCR); hence, they can adapt and change their business way. This preliminary study tries to tackle this phenomenon by identifying the important factors to strengthen the SCR and formulating the SCR framework for companies to survive this global disruption, especially for those that operate in Indonesia. Based on the framework that has been developed, there are several changes that companies need to make for gaining a SCR. The companies must change the way of interaction with suppliers and consumers as well as the way they produce or operate.

Keywords

Supply chain, Resilience, Framework, Covid-19, Pandemic

Biography

Dwi Agustina Kurniawati, Ph.D. is an Associate Professor in Industrial Engineering, Faculty of Science and Engineering, Universitas Islam Negeri (UIN) Sunan Kalijaga, Indonesia. She finished her bachelor's degree in Industrial Engineering from Bandung Institute of Technology (ITB), Indonesia in 2003. Then she pursued her master's degree in Advanced Manufacturing Technology, Universiti Teknologi Malaysia (UTM) in 2006. She got Ph.D degree from Nanyang Technological University (NTU) in 2016, in Systems and Engineering Management, School of Mechanical and Aerospace Engineering, NTU, Singapore. She has published numerous papers, both in journals and proceedings (conferences). She also has reviewed lots of papers in Industrial Engineering area. Her current research is in supply chain, cross-dock warehouse, modelling system, operation research, scheduling and special issue in halal supply chain. She has received many research grants in her research area. Her biography is included in Who's Who in the World year 2015 and 2018 and Who's Who in Science and Engineering year 2016 and 2017 by Marquis Publication, USA. She was the former head of Industrial Engineering Laboratory and former head of Industrial Engineering Department. Currently, she becomes the head of Quality System Controller in her faculty and the head of Optimization, Operation Research and Industrial Systems Research Group (ZORIS-RG). She also becomes the secretary of Halal Center UIN Sunan Kalijaga and becomes the member of INFORMS, IEOM and IAENG.

Amalia Azka Rahmayani, M.Sc. is an Ergonomics lecturer in the Library Science Department, Faculty of Adab and Cultural Science, UIN Sunan Kalijaga Yogyakarta. She graduated her bachelor degree in Industrial Engineering at Islamic University of Indonesia in 2015 and continued her master degree at the same field at Gadjah Mada University in 2018. She is a new lecturer at UIN Sunan Kalijaga. Nevertheless, researchers have also published papers in national and international proceedings.