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SUPPLY CHAIN MANAGEMENT SYSTEM RESILIENCE IN THE MSMES SECTOR GLOBAL PATENT INFORMATION ANALYSIS

Mahardhika Berliandaldo[1], Siti Kholiyah[2], Angga Wijaya Holman Fasa[3] & Tri Susanto Agus P[4]

[1,3,4]Policy Analyst, Ministry of Tourism and Creative Economy, Indonesia

[2]Policy Analyst, National Research and Innovation Agency, Indonesia

ABSTRACT

The contribution of MSMEs in the Indonesian national economy has significant for formation of Gross Domestic Product (GDP). Nevertheless, COVID-19 pandemic has a negative tremendous impact on the growth of MSMEs nationwide. Meanwhile, there are technologies that a currently widely developed based on Patent Database which is the management of supply chain management systems. These technologies are practicable to strengthen resilience capabilities both during and post pandemic. This research is focused on the analysis of global patent trends information related to digital supply chain management and its implication to enabling supply chain resilience in the MSMEs sector. In order to finding the information, the patent data (2011-2021) was employed and analyzed. The results show that there are ubiquitous of inventions related to the Supply Chain Management System, the largest number occurred in 2020 and 2021, namely as many as 353 patents and occurred when COVID-19 conditions began to plague around the world. From 420 active patents data, there are 78 patents or equal to 12% with a description of Administration Management. The system of administration to the distribution of goods and sales to this market is most required in the current era. According to the results of the trend analysis of supply chain management system technology direction, there are two main information of trend development, namely in the development of "System" and "Data" Improvement. The development of both directions of the trend is used to increasing competitiveness and resilience capabilities of the MSMEs sector, especially in facing uncertainty and volatility.

KEYWORDS: *MSMEs, Supply Chain Management System, Patent Database, Technology Trends*

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