Improving Indonesian logistics performance with using six sigma, DMAIC and integration Process

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Abstract

Indonesia is a maritime country that having much potential marine natural resources. As a maritime country, that connected among islands, Indonesia needs to develop a national logistics management concept in order to make trading in goods and services more quickly, safely and smoothly. One becoming the focal point of the current government is the development of the sea toll or the development of infrastructure and service quality system of national port, so the distribution of goods and services from each region can be more efficiently and waiting time (dwelling time) can be dropped from 6-7 days to 3, 5-4 days, and the national logistics costs can decrease from 27% of GDP to 23% - 19% of GDP. Indonesia was concerned to improve the performance of quality of national logistics services. This is the reason why author interest to discusses in the Journal. The method that we used to analyzing problems of dwelling time is the method of Six Sigma, DMAIC and process integration. With DMAIC method, six sigma and process integration, problems of dwelling time can be reduced to achieve the target be 3.4 - 4 days.

Keywords : Logistics, port performance, six sigma, DMAIC

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