

ABSTRACT

ENTERPRISE ARCHITECTURE AS A STRATEGY TO IMPROVE PRODUCTIVITY IN PRODUCTION FUNCTION AT INDUSTRIES AND MANUFACTURING COMPANIES USING TOGAF ADM

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As a state-owned company, Bandung industrial and manufacturing companies must obey all existing regulations, one of which is the regulation of the Minister of BUMN RI No. PER-03 / MBU / 02/2018 concerning amendments to SOE Ministerial Regulation No. PER-02 / MBU / 2013 concerning guidelines for the preparation of SOE information technology management on IT design that each SOE is required to have an IT Master Plan for 3-5 years and periodically reviewed to ensure alignment of business with IT, by the role IT in BUMN (Bandung Industrial and Manufacturing Company, 2019).

One of the goals of industrial and manufacturing companies is to carry out production activities as well as possible to produce quality products to meet the needs and desires of customers. However, in this effort, there are two problems in the production management function that hinder the company in supporting the independence of production implementation, which is related to production capacity that is not by the potential demand and the number of defective products is quite high. One of the root causes of these two problems is that there is no monitoring of inventory used during the production process due to a lack of involvement of information technology in the operational processes that run in the product management function.

Based on the condition of the problem, Enterprise Architecture design is needed to align the use of technology with business processes in the product management function, using the TOGAF Framework (the open group architecture framework) and using the TOGAF ADM method. The results of this enterprise architecture design will provide a detailed picture in the form of a proposed solution, namely the development of the Manufacturing Execution System (MES) and Maintenance Management System (MMS) applications that function to optimize the monitoring process in production activities. Furthermore, a blueprint and IT Roadmap will be created which will be used as a reference in building an integrated system, especially in the production function in Industrial and Manufacturing Companies.

Keywords: Enterprise Architecture design, production capacity, product defects, production management functions, TOGAF ADM, system monitoring..