

ABSTACT

The practice of Information Technology in a company is always considered to be the right solution to drive a company to achieve its Goals. Several studies in the previous two decades have also proven that the performance and productivity of a company increases after a company invests in Information Technology. In this case, Information Technology will be carefully designed by PT. Perusahaan Manufaktur to improve the performance of all Business functions in the company. PT. Perusahaan Manufaktur is an industrial company that engaged in military and commercial products. There are a lot of developing, assembling, engineering and maintenance activities carried out in the Business Process and are expected to continue to increase in the future, especially in the Material Management Process on the Bahan Peledak Komersial (Handakkom) function.

Material Management is one of the core Business Processes in the Handakkom function, which contains the procurement and distribution of explosive materials at PT. Perusahaan Manufaktur, which are then distributed to their pelanggan. In this Business, there is a crucial problem that is the poor forecasting technique performed by the Handakkom Function on their explosive materials. This problem leads to the unfulfillment of pelanggan requests and also caused in the previous period this Function produced the most deadstock in the company. This situation becomes a dilemma because when procuring goods, the Handakkom Function must have many types of government permits that must be renewed within a certain period.

In this way, PT. Manufacturing companies expect Information Technology will help them to design the company's strategy better. A great strategic planning, especially in Material Management Process on the Handakkom Function is essential, especially since this Function contributes to the second largest income for the company. The Technology strategy that expected by PT. Manufacturing Company is in the form of IT Master Plan. The IT Master Plan is a set of policies that organize the governance of IT plans that are clearly stated to ensure alignment of Business with IT within a period of 3-5 years. The need for an IT Master Plan has been stated in the

regulation of the Minister of BUMN RI No. PER-03 / MBU / 02/2018 concerning amendments to Ministerial Regulation No. PER-02 / MBU / 2013 concerning guidelines for the preparation of BUMN Information Technology management point 5.2.2 concerning IT design stated that each SOE (BUMN) is required to have an IT Master Plan that is reviewed periodically. In the designing Process, the IT Master Plan was formed with the help of Enterprise Architecture which is a tool used to realize the alignment of Information Technology and Business. In its Application, Enterprise Architecture uses a Framework as a basis for preparation, one of which is TOGAF. In TOGAF, the main component used in this study is the TOGAF Architecture Development Method (ADM). TOGAF ADM has four core domains there are Business, data, Applications and Technology. In this study the Phases that will be used include the Preliminary Phase, Architecture Vision, Business Architecture, Information System Architecture, Technology Architecture, Opportunities and Solutions and Migration Planning by comparing Existing and targeting conditions.

The results of the research in the form of blueprint and IT Roadmap are expected to provide Solutions for improvement, proposals or Application Development in the core Business of Material Management by the Handakkom Function of PT. Perusahaan Manufaktur

Keywords: Information Technology, Material Management, Handakkom Function, PT. Perusahaan Manufaktur, Forecasting, IT Master Plan, Enterprise Architecture, TOGAF