CHAPTER I
INTRODUCTION

I.1 Problem Background

The development of technology and business in the era of globalization is currently very visible. The development of this technology provides significant benefits to the world economy. Seen from the large number of companies that are getting a lot of applying information technology in organizing his company. As for the benefits of the application of information technology is to apply information technology-based planning in order to align the relationship between technology and business processes in an enterprise.

In the era of globalization as currently, information technology is highly considered in a company, since corresponds to the policy of regulation of the Minister of State-owned enterprises no. 1 in 2011 which contains that good corporate governance is the existence of the application of information technology. Information technology is a collection of tools, processes, and methodologies (such as programming, data communication, data conversion, storage and retrieval of data, system analysis and design, control systems) and associated equipment used to collect, process, and present information (Business Dictionary.com, n.d.). Information technology policy in the governance of a company are applied in order for the development and utilization of information technology has not only become a tool that facilitates the acceleration of a business, but is also expected to become supporters in the Organization's operational problem solving company.

BUMN or Badan Usaha Milik Negara is "one of the perpetrators of the important economic activities in the national economy, which together with other economic principals, namely private (large-small, domestic-foreign) and cooperatives, is an embodiment of economic forms of democratic development will continue to develop in a gradual and sustainable (Portal Nasional Republik Indonesia, 2010).” As one of the perpetrators of the economic activities, the existence of BUMN have no small role to join realizing the welfare of society, as mandated by the Constitution. The existence of the role of BUMN that provide a lot of support for

the welfare of society is the existence of the BUMN part of the company participated in advancing the welfare of society, for example the existence of a company engaged in the field of information technology and telecommunications technology, namely Telecommunication Industry Indonesia Company or PT. INTI.

PT. INTI (persero) is a company engaged in the fiel of telecommunication Indonesia which has a role as a major supplier to the construction of the national telephone network. PT. INTI have been engaged in the business of telecommunications over the past 35 years. The main customers of PT INTI are the four biggest telecommunications operator in Indonesia include PT Telekomunikasi Indonesia Tbk, PT Indosat Tbk, PT Telekomunikasi Seluler (Telkomsel) and PT XLAxiata (XL). Since the growing trend of convergence between telecommunications technology and information technology, the core has been doing business orientation changes from the original pure-based manufacture became an industry-based system solutions, especially in the field of communication and systems integration technologies. PT. INTI in the form of organizations contained there in, has several functions that help the company's performance. Procurement and logistics functions are part of important functions in support of performance on PT. INTI.

Procurement and logistics division is a division that goes as a support function or supporting functions in PT. INTI. This function has a purpose to support and assist the Director of finance in managing and running the activities of companies that substantially covers the areas of procurement and logistics. This Division helps to achieve the objectives of the function that is running the process order acquisition (product-based and project-based) and order execution in terms of procurement of goods and services as well as having the company in the form of stakeholder partners. Business process functions of procurements and logistics can be seen in figure I.1.

The picture above has provided an explanation, that the relationship between the two functions is necessary so that the relation is able to provide the ease of sharing data and distribution of goods will be out to incoming companies. But in 2016, PT.

INTI changes the business focus on Manufacturing Business. Because this canges, Procurement & Logistic division was separated and turned into two division in the different directorates, they are Procurement Division and Material Management Division. Aware of the close link between the implementation of the technology, the business processes including corporate function, an enterprise requires a planning approach that can provide a draft corporate strategy known as enterprise architecture.

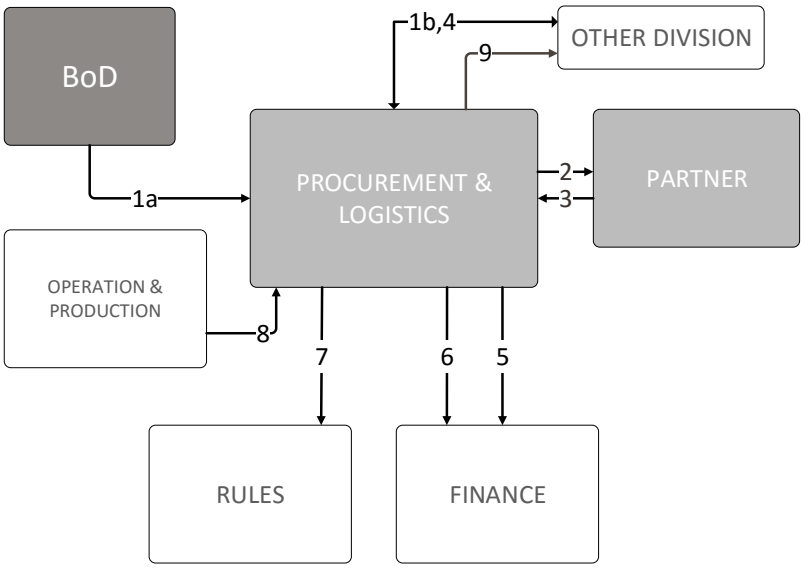

Figure I.1 Relations Between Functions *(Source : PT INTI's Business Process)*

Enterprise architecture (EA) is a set of principles, methods, and models used in the design and is the realization of a company's organizational structure, business processes, information systems and infrastructure (Lankhorst, 2009). In applying his approach, enterprise architecture needs a guideline that can be use as a reference in the model and detailing various phases present on enterprise architecture called framework.

Framework is an architectural structure that contains a depiction of a modeling technique by means of identifying as well as media liaison between different architectural view points withsome associated modeling techniques (Lankhorst, 2009). Based on a survey conducted by Infosys, 2007 about the benefits of enterprise application architecture in an enterprise and the results clearly

demonstrate that; 1) enterprise architecture had reached its goal through stages of evolution, 2) enterprise architecture support the company's business through the application of IT, 3) has been accepted as a tool for implementing business strategy across the company (Infosys, 2007). In the implementation of enterprise architecture the use of Information Technology Master Plan (IT Master Plan) had linkages in efforts to build modeling in the application functionality and business processes as well as the liaison between information technology and business needs.

Based on the business focus that was changed, this study would like to do an analysis and design of Enterprise Achitecture between the functions contained on the PT INTI using the TOGAF ADM and then can be implemented in planning the architecture for long-term period.

I.2 Problem Identification

Based on the exposure of the background, can be identified a problem that is how the design of the enterprise architecture (business architecture, applications architecture, data architecture and technology architecture) by using the TOGAF ADM in procurement division and material management division at PT INTI (Persero) of period 2016-2019.

I.3 Research Prupose

The purpose of this research is to design the enterprise architecture (business architecture, applications, data, technology) by using the TOGAF ADM in procurement division and material management division at PT INTI (Persero) of the period 2016-2019.

I.4 Problem Limitation

Some of the limitations set out in this research include :

1. Planning to be built based on the seven phases in TOGAF, they are Preliminary Phase, Architecture Vision, Business Architecture, Data Architecture, Application Architecture, Technology Architecture and Opportunities and Solution. The red-marked in the figure I.2 show the seven phase. Gap Analysis will be performed between the baseline EA and the

target EA. Therefore, the research is only about designing EA in Procurement Division, and Material Management Division.

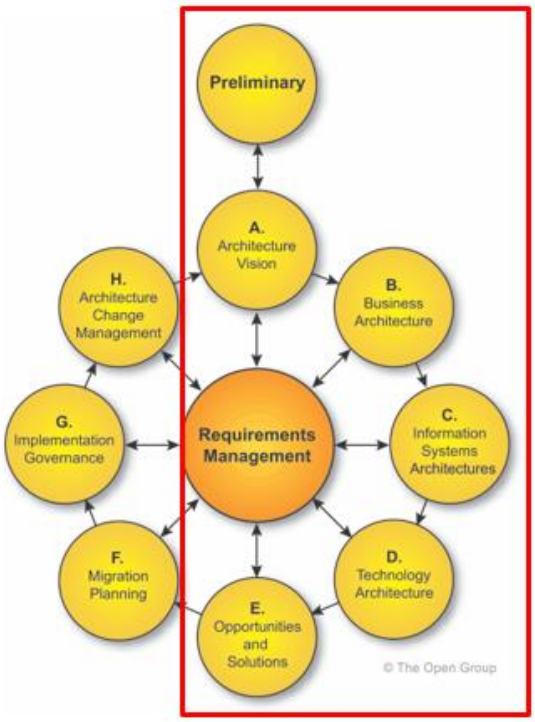

Figure I.2 TOGAF ADM Phases *(TOGAF 9.1)*

2. The research is limited to analysis and design, not including the stage of implementation

I.5 Research Benefit

The benefits gained from enterprise architecture planning are :

1. Can find out the model design of enterprise architecture at PT INTI
2. Gives an overview of blueprint on the construction of the technology architecture referring to the application
3. Can figure out how to integrate the new enterprise architechture with existing business processes at PT INTI.