BIMO ANDONO. Information System Governance Analysis at PT Baruna Raya Logistics. Supervised by ARIF IMAM SUROSO and NINUK PURANANINGSIH.

PT Baruna Raya Logistics (PT BRL) is an offshore marine company in oil and gas operations support services with IT systems and infrastructures in the area of operation and the fleets. The existence of the Management Information System Department (MIS) in PT BRL is an important factor in building IT systems that are optimal for customers, keeping the completeness and quality of IT systems for the operational success and become PT BRL strategic enabler for business development. Realized that manage large and complex IT is not an easy task, required System Development Life Cycle (SDLC) methodology so that the IT system goes well, regular, smoothly and stay in tune with PT BRL business objectives.

In this research conducted maturity level evaluation of the implementation SDLC use COBIT framework. This research use 10 COBIT IT processes as a focus area evaluation of maturity levels, namely PO1, PO2, PO3, PO6, PO7, PO9, AI2, AI3, AI6 AI7 and 94 COBIT attributes as basic of questions questionnaire research. The result of COBIT maturity level evaluation indicate that the average value of the information system maturity index in PT BRL is 2.99, means maturity level is set round level 3 (Defined).

Evaluation of the maturity level of the COBIT basic drafting improvements recommendations become the application of MIS Department for the entire SDLC domain of COBIT which will be improved in an effort to reach a level of maturity that is targeted, i.e. level 4 (managed and measurable) and make improvements gradually. Domain with level of maturity at level 2 (repeatable but intuitive) got top priority for repairs so the level of maturity for all domains get balanced, all domains have the same level of maturity that is on level 3 (defined process). After the balanced condition was reached current level of maturity for all domains, then improve the information system governance for all domains together toward a level of maturity level 4 (managed and measurable). COBIT framework is universal, in the determination of domain and control objectives need more adjustments with the needs of the business process and the responsibilities of the process against the activities of organization. In addition to measuring maturity level by using maturity models need to set KPI and CSF, KGI adapt to the needs of business process and function of information system process to company activity.

Keywords: COBIT, Maturity Level, Maturity Model, System Development Life Cycle