

**Major Business Information Systems**

**Sarjana Komputer Thesis**

**Semester [Even] year 2019/2020**

**BPR IMPLEMENTATION: A COMPREHENSIVE DESIGN OF PROCUREMENT  
AND INVENTORY MANAGEMENT INFORMATION SYSTEMS FOR PT.  
KUSUMA KEMINDO SENTOSA**

Yosua Matthew      2001585202

**Abstract**

**Objective** - In supply chain world, information technology influences business to transform into leaner model and streamline their supply chain management through information systems integration. Hence, this paper suggests the needs of employing managerial tool such as BPR to bring significant changes in business process, specifically on exploring the possibilities of process improvement which revolves in supply chain management in a distribution company, namely, PT Kusuma Kemindo Sentosa. This project is expected to improve current business process of PT Kusuma Kemindo Sentosa, especially on the supply chain process with business process reengineering technique, to be transformed into a more efficient and optimized business.

**Method** - The research approach comprises of a business process management framework as a methodology as a foundation and implementation. Data is collected accordingly as a basis of design and implementation part of BPM using observation and interview.

**Result** - An analysis is made based on the as-is business process, then solution is modelled and applied to the on-going business process. New user-interface, standard procedures, information architecture, and restructured business process as the proposed solutions tackling procurement and inventory management area. PT Kusuma Kemindo Sentosa obtains new business process supported with proposed design of SCM technology such as RFID, especially for their logistics network.

**Conclusion** - The implementation of BPR using BPM framework implies changes of specific processes which then will improve PT Kusuma Kemindo Sentosa overall business, people and technology in advance.

**Keywords:** business process reengineering, business process management, supply chain, procurement, inventory management, logistics, standard procedures