

## **ABSTRACT**

*PT XYZ is a company engaged in the retail industry that provides various of goods FMCG (Fast Moving Consumer Goods). PT XYZ using the warehouse as a storage facility to storage the products before they are sold to consumers. The existence of delay in the warehouse activity especially in storing and picking activities caused not optimal order fulfillment and inhibits the activity of inbound and outbound. This is because the searching process is done manually on storing and picking activities. Placement of products on shelves has done randomly by operator and it make storage allocation of SKU's on the shelf does not neatly arranged and organized.*

*The initial step is to map the entire flow of information and activities that exist at the dry food warehouse using Value Stream Mapping (VSM) and Process Activity Mapping (PAM) to obtain the processing time and the value for each activity. Then, obtained an storing and picking activities has a non-value added time at most. For product placement allocation is done in order to reduce the delay especially in storing and picking activities, with grading of products based on product characteristics by using ABC Analysis, and then do slotting and zonafikasi to determine the placement area for each SKU's based classification.*

*From the results of the design of the proposed future state map, it can be concluded that the delay time decreased 41% from the total process is 1294,35 seconds or 21,57 minutes, while the value of value added on the condition of future state increased 40%.*

*Keyword : Retail, Fast Moving Consumer Goods, Warehouse, Value Stream Mapping, Process Activity Mapping, ABC Analysis, Warehouse Slotting*