

BUSINESS PROCESS IMPROVEMENT OF REDUCING DELAY IN THE MATERIAL DOCUMENT ISSUE PROCESS AT FERTILIZER COMPANY

UNDERGRADUATE FINAL PROJECT

Submitted as one of the requirements to obtain Sarjana Teknik (S.T.)

By:

JHINDAN IQBAL FIASTA 004201800002

FACULTY OF ENGINEERING
INDUSTRIAL ENGINEERING STUDY PROGRAM
CIKARANG
FEBRUARY, 2023

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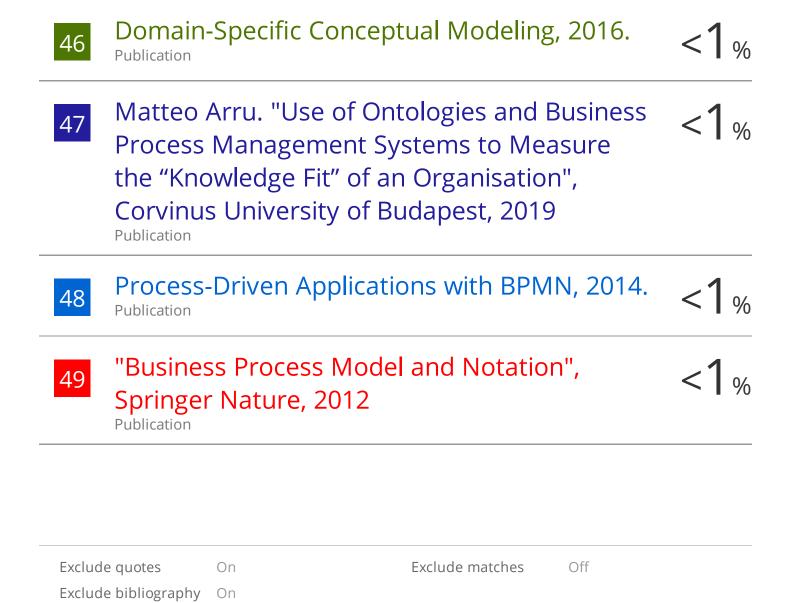
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ABSTRACT

The business process will be carried out by the fertilizer company. Currently, process delays are a problem for this department. The delay contributor is an unsatisfied 3.5% gap rate in the material document issue process key performance indicator (KPI). This will disrupt the process flow and can have a domino effect on end-users. Business process improvement (BPI) is one of the most powerful and effective methods to use for improving the business process and business process modeling notation (BPMN) provides a notation that is simple to understand for analysis of the business process. The result of the BPI tool is the design of a new business system with improved processes modeled using Bizagi Modeler, because several processes are still handled manually. So, the processing time is long and needs to be evaluated. Some of the activities will be elimination, upgrading, and simplification. The percentage increase in the total time of the proposed business process is 7% in the KPI. The process time decrease in the total time of the proposed business process is 10,90 days. Further research should be conducted to reduce delays in the material document issue process for the next levels, such as resource analysis and calendar analysis, it will be able to figure out what method is more appropriate for business process improvement in the material document issue.

Keywords: Fertilizer Company, Process Delay, KPI, BPI, BPMN, Bizagi Modeler, Efficiency.

ACKNOWLEDGEMENT

It is a great and meaningful moment for me to fulfill this Final Project completely and claim it as my creation, and I would like to express my deepest thanks to all of those engaged in the creation process.

- Allah SWT, the most gracious and the most merciful. Thank you for all Your blessing to me so that I could finish my research along with the Final Project.
- 2. My beloved Umi (Dasawati), Ayah (Muhammad Tutah), little bro (Hafizh Cahya Putra), and Wignyo's Big Family. Thank you for supporting me, praying for me and making me in a good mood.
- 3. Lecturer of Industrial Engineering especially for my final project Advisor, Ma'am Anastasia Lidya Maukar and my Head of Industrial Engineering Study Program, Ma'am Andira Taslim. Thank you for always be available for me and be patient for a bunch of question from me. Thank you for making me a better person with your advices and knowledge.
- 4. My manager, supervisor, and all of the employees at Fertilizer Company Thank you for all your guidance, experience, and knowledge that you shared with me during the internship period. I am lucky to have these opportunities and have learned a lot from this certificate program.
- 5. My classmates in Industrial Engineering batch 2018. Thank you for the support for all this time and also for every moment that we spent together during our university life.
- 6. My beloved organizations (PUMA). Thank you for the prayers, hope and reminder to always balance life.
- 7. Others that I cannot mention one by one but always give me motivation, Support, and colorful life. Unlimited thank you for those.

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