

Perancangan integrasi Enterprise Resource Planning (ERP) dengan Business Intelligence (BI) untuk meningkatkan kecepatan laporan kinerja produksi = Integration of Enterprise Resource Planning (ERP) and Business Intelligence (BI) to accelerate reporting of production performance

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Abstrak

Pemenuhan order customer pada industri manufaktur ditentukan oleh ketepatan penyelesaian order produksi. Order produksi mengalami keterlambatan karena informasi permasalahan produksi terlambat diterima oleh pihak yang memiliki role dalam menyelesaikan permasalahan. Penelitian mengusulkan perubahan proses untuk mempercepat aliran informasi di area produksi. Perubahan proses membutuhkan metodologi rekayasa ulang proses bisnis melalui metode Business Process Reengineering (BPR). Penelitian ini memetakan kondisi as-is aliran informasi proses produksi menggunakan flowchart dan use case. Proses As-Is meliputi empat sub process yaitu production planning, production execution, production line issue dan reporting production performance. To-be yang diusulkan meliputi eliminasi aktifitas berulang, eliminasi aktifitas mengunggah dan mengunduh, mengintegrasikan database ERP dengan BI dan dashboard untuk reporting production performance. Usulan perbaikan dapat mengurangi waktu proses aliran informasi selama 11,64 hari dari 18,81 hari yaitu 62% dari waktu proses pada proses as-is.

.....Customer order fulfillment in the manufacturing industry is determined by the 'just in time' of the completion of production orders. Production orders have been delayed due to problems in production area causing the line stop. This information delivered too late to the person in charge with the issue. The objective of this research is to improve flow of information for the production performance report. Improvement required methodology to reengineer business processes through methods of Business Process Reengineering (BPR). This research used flowchart and use case diagram to map as-is information flow of production process. The as-is production process covered into four sub-process, such as production planning, production execution, production line issues and production performance report. The to-be process proposed the elimination of repetitive activities such as download and upload activities due to production performance report, integration of ERP and BI, performance dashboards for reporting production. The proposal reduced processing time information flow for 11.64 day from 18.81 the day that is 62% of the time in the process as is.