

**I2 – GOMES JOSEPH : MASTER 2 MANAGEMENT AND INTERNATIONAL BUSINESS NORTH
AMERICA**

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BIG DATA ANALYSIS : BUSINESS PROCESS MINING

The document of Maelle, dig Process Mining, the Proactive Insight Engine, and artificial intelligence (AI) impact on optimizing operation and decision-making. Process Mining uses data captured from events to visualize and analyze the business processing in order for them to be improved with minimal intervention by human. The CSIRT (Cyber Security Response team) framework depends on event logs and seeks out behavior patterns and future activities to fit various maturity levels, from initial to optimized.

The Proactive Insight Engine, introduced back in 2016, is a very sharp and intelligent monitoring solution designed. Inculcating AI, the real time insight and suggestion are for the improvement of the process over four main pillars are PI Compliance, PI Machine learning, PI Social, and PI Companion. It further makes a comparison between Process Mining and Business Process Management (BPM) and AI, focusing on how AI improve data analysis, anomaly detection and prediction of future behaviour. It therefore differentiates Process Mining from BPM by its focus on extracting knowledge from existing data and by its automated nature.

Examples include health, finance, and others, which process mining to adjust their processes for predictive analysis and task automation through Robotic Process Automation (RPA). The paper outline what it refer to as challenges in Process Mining data complexity management and confidentiality preservation are among them. The paper proposes given solutions to the challenges in order for Process Mining to be fully exploited.