

Companies today depend and rely on technologies like Cloud Computing, IBPM or AI to produce more efficient results and have smoother processes. These trends transform businesses across sectors, improving efficiency and decision-making. Managers benefit from those increase in efficiency allowing for better decision-making and risk management all the while the automated systems keep companies organized, productive and cost effective. This study focused on the trends of hardware platforms that have a high impact on firms in order to model them to be cohesive and organized. It also modelled how impactful these trends could be and how BPM and companies could benefit from them.

The study took the form of quantitative and qualitative data collection from secondary sources (reports, articles, news, and interviews) while ensuring their reliability and relevance. The Data was then analyzed by grouping together ideas and these and organize the collected information in appropriate sections. A final review was conducted to ensure that every piece of information presented was being presented accurately with unique viewpoints given special attention. The result of this study models the trends associated with those terms to then base future research.

With the help of the internet, cloud computing can simply be described as renting space on the internet to store and access computer programs as well as data instead of having every piece of software on one computer or company server. Cloud Computing is deployed either publicly (used by the public) or privately (operate for one entity) or both (public for interfaces and private for sensitive customer data). In general, while a case against hack attacks can be made, cloud technology benefits largely outweigh its weakness and streamlines IT processes while being cost effective for most companies. Cloud computing platforms provide different layers and types of services such as offering virtualized computing resources or platforms. Or even, provides software applications over the Internet.

IBPM on the other side helps firms and companies get better automating tasks while focusing on customer needs. Alongside the evolution of technology, IBPM is now a part of creating adaptive organizations easily adaptable to change. In order to successfully set up an IBPM, a financial institution needs to be flexible and adapt to changes in the market. The main problems surrounding IBP are its high costs and a lack of understanding of the value of IBPM on companies. IBPM helps financial institutions manage risks and react quickly to sharp practices. IBPM meets the growing need for responsiveness. Like Cloud computing, IBPM streamlines operations by automating processes, aligning with organizational objectives, and reducing reliance on key performance indicators (measure of performance over time for a given objective).

Findings on AI: rapidly evolving field that involves the development of computer systems able to perform tasks that typically require human intelligence or input. AI's potential impact on almost every sector of any given industry. In multiple industries, the use of AI has proven to be increasingly beneficial for generating targeted response not only from a database but by cognition that can be identified as human-like. AI integrated into different services and depending on the database can smoothen processes and severely increase the speed of production. In the business world, the equivalent of Siri (by Apple) is Watson whose capabilities in natural language processing and data analysis improve customer service through chatbots and virtual assistants.

Relative to business process modelling, trends in hardware like Cloud Computing, IBPM or AI impact business processes withing organizations. The aim of this study was to understand how these trends influence organizational efficiency and performance, which is the building block of business process modeling. Business process modeling involves analyzing and optimizing BP to improve efficiency and the effectiveness of company goals. Understanding these trends allows researchers in business process modelling to stay informed on the insight that these technologies provide. By examining the impact of these popular hardware platforms, the study highlights how these trends affect business operations and organizational performance.