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The Transformative Impact of Artificial Intelligence on Business Process Management

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Abstract: AI is fundamentally transforming Business Process Management. Processes are now moving away from rigid systems and heading toward smarter, more flexible ones capable of learning and growing on their own. Companies are now looking to redefine their way of handling processes. There are some tools like Process Intelligence, Predictive Analytics, Cognitive Automation, and Hyperautomation that are transforming businesses remarkably. These are bringing about a significant impact in areas like finance, manufacturing, logistics, and customer service. Companies using AI in BPM see better adaptability, efficiency, compliance, and customer satisfaction than those sticking to older methods. The AI process improvement cycle changes every step, like discovery, design, and monitoring, making everything more data-driven and less reliant on human input. But adopting AI in BPM isn't without its challenges. Businesses can run into problems like tech issues, bad data, and trouble adapting to changes, along with some ethical and governance worries. Being aware of these challenges and coming up with strong plans is important for companies to make the most of AI in business process management and stay ahead in a changing market.

Keywords: artificial intelligence, business process management, process automation, hyperautomation, digital transformation

INTRODUCTION: THE EVOLUTION OF BUSINESS PROCESS MANAGEMENT

Business Process Management (BPM) has changed quite a bit since it began in the early '90s, shaping how companies aim for better performance. The typical BPM approach includes six main steps: first, mapping out current processes using BPMN notation; next, identifying any problems or risks; then, redesigning processes with Lean and Six Sigma methods; after that, automating routine tasks with BPM tools and RPA; monitoring how things are going in real-time; and finally, continuously improving with a Kaizen mindset. Companies have usually turned to established BPM tools like Camunda for open-source automation,

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Appian for low-code design, Pegasystems for smart automation, Bizagi for visual modeling, IBM BPM for larger operations, Kissflow for easy automation, and Nintex for drag-and-drop automation.

Moving from traditional BPM to AI-driven methods really changes how companies think about and handle their processes. Ozkan et al. documented this evolution in their comprehensive case study of a financial service provider, revealing that conventional BPM implementations achieved a 23% improvement in process standardization but struggled with dynamically changing business requirements, often requiring 3-4 months to implement significant process modifications [1]. These traditional approaches are important for establishing baseline operational discipline, but are increasingly proving insufficient in contemporary business environments due to unprecedented market volatility and competitive pressure.

AI is transforming the methodology of business process management. Instead of just following set rules, companies can now adapt and respond to different situations in real-time. This is really important because business environments are moving faster and are less predictable. Relying on manual adjustments just won't cut it anymore. Companies face the need to automate tasks and predict trends in order to stay ahead.

With AI, business process management (BPM) can learn from data and improve itself over time something traditional BPM couldn't do. This mix of AI and BPM is a big shift from the old ways of doing things. According to Bruno's research examining 142 organizations across diverse sectors, AI-enhanced BPM implementations demonstrated 3.2 times greater adaptability to changing conditions compared to traditional approaches, with the ability to automatically reconfigure process flows in response to new variables without explicit reprogramming [2]. This evolution marks a profound shift in process philosophy—from static pathways to intelligent, learning systems that can sense when processes aren't working, predict future problems, adapt automatically, and continuously improve without waiting for audits or redesigns. In environments where market conditions fluctuate rapidly, the manual monitoring and optimization approaches of traditional BPM create significant competitive disadvantages, with Bruno's study revealing that organizations implementing AI-BPM responded to market changes 67% faster than those relying on conventional methods [2].

This paradigm shift reflects growing recognition that organizations need capabilities extending beyond automation to remain competitive. AI transforms BPM from a "map and follow" system into a "sense, think, and act" system. Ozkan et al. found that financial service providers implementing intelligent BPM systems reported a 31% reduction in process exceptions and a 27% improvement in customer satisfaction metrics compared to baseline operations [1]. AI brings cognitive capabilities to BPM, enabling continuous adaptation based on emerging patterns and insights. In their case study, process managers reported spending 64% less time on routine exception handling and 42% more time on strategic process innovation after implementing AI-enhanced BPM solutions [1].

The significance of this transition lies in its measurable impact on organizational performance outcomes. Bruno's research demonstrated that organizations with mature AI-BPM implementations achieved 29%

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higher operational efficiency, 37% improved compliance adherence, and 41% faster time-to-market for new products and services compared to industry averages [2]. In increasingly digital markets where customer expectations continue to escalate, this capability has emerged as a critical competitive differentiator, with AI-enhanced processes delivering 44% higher Net Promoter Scores than traditionally managed processes, according to Bruno's cross-industry analysis [2]. As business environments continue evolving, AI-based BPM represents not merely an improvement but a complete rethinking of how work gets done, with early adopters gaining substantial advantages in speed, customer satisfaction, compliance, and cost efficiency.

Foundational Concepts in AI-Based Business Process Management

The integration of AI into BPM introduces several foundational concepts that collectively redefine process management capabilities, transforming traditional approaches into intelligent, adaptive systems.

Process Intelligence

Process Intelligence represents a cornerstone technology that continuously analyzes process performance to drive improvement through real-time monitoring and prescriptive recommendations. Khabbaz's comprehensive study of 78 organizations implementing AI-BPM solutions revealed that Process Intelligence implementations reduced decision latency by 63% and improved process visibility by 78%, enabling organizations to identify improvement opportunities that were previously undetectable through traditional means [3]. This capability extends beyond conventional business intelligence by offering prescriptive guidance rather than merely descriptive insights. Advanced implementations achieved 42% higher first-time-right rates and reduced process variance by 31% compared to traditional approaches, demonstrating the transformative potential of intelligent process monitoring [3]. The technology enables continuous learning from process execution patterns, automatically identifying deviations, bottlenecks, and optimization opportunities without human intervention.

Predictive Analytics

Predictive Analytics within the BPM context fundamentally transforms process management from retrospective evaluation to forward-looking optimization. Coombs et al. documented that organizations implementing predictive process analytics reduced process disruptions by 37% and decreased mean-time-to-resolution by 41%, representing significant operational advantages [4]. Their comprehensive evaluation across 56 implementations found that predictive systems identified 73% of potential process bottlenecks at least 48 hours before their materialization, allowing for preemptive intervention rather than reactive troubleshooting [4]. This proactive capability translates to an average cost avoidance of \$1.2 million annually for large enterprises, demonstrating substantial financial benefits. The technology leverages machine learning algorithms to analyze historical process data, environmental factors, and real-time indicators to forecast future process states and potential disruptions.

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Cognitive Automation

Cognitive Automation represents perhaps the most profound extension of traditional BPM capabilities, mimicking human judgment in knowledge-intensive processes through natural language processing, pattern recognition, and decision-making algorithms. Khabbaz found that cognitive systems achieved 83% accuracy in unstructured document classification and reduced manual processing requirements by 67% across the organizations studied [3]. These systems extended process optimization into domains previously resistant to automation, fundamentally altering the scope of what can be systematically managed. Knowledge work processes experienced productivity improvements of 26% following cognitive automation implementation, as reported by Khabbaz [3]. This capability bridges the gap between structured process automation and unstructured knowledge work, enabling organizations to apply process management principles to creative and analytical tasks previously considered unsuitable for systematic optimization.

Dynamic Workflows and Hyperautomation

Dynamic Workflows represent a departure from static process definitions, enabling real-time adaptation based on changing conditions and contextual factors. Coombs et al. demonstrated that dynamic workflow implementations improved process adaptability scores by 47% and reduced exception handling costs by 52% compared to static process designs [4]. Hyperautomation—integrating AI, RPA, and advanced analytics—extends this concept to comprehensive end-to-end automation. Organizations implementing comprehensive hyperautomation achieved 3.3 times higher return on investment compared to discrete automation initiatives, with cost reductions averaging 41% and cycle time improvements of 59% across end-to-end processes [4]. This approach creates interconnected automation ecosystems that can adapt, learn, and optimize across multiple process domains simultaneously.

Process Mining and Self-Healing Processes

Process Mining leverages AI to discover actual process flows from system data, revealing the reality of process execution rather than theoretical designs. Khabbaz's evaluation revealed that Process Mining implementations discovered an average of 18 previously unknown process variants and identified non-compliance instances that represented 23% of total process executions [3]. This capability provides objective insights into process behavior, uncovering hidden inefficiencies and compliance gaps. Self-Healing Processes represent the autonomous extension of process optimization, automatically detecting and correcting process deviations without human intervention. Coombs et al. found that Self-Healing Processes reduced error rates by 43% and decreased manual intervention requirements by 62%, creating substantially more resilient operational environments [4]. Their evaluation of Digital Twins of Organizations (DTOs) demonstrated that simulation-based process design reduced implementation failures by 51% and accelerated change implementation by 37%, enabling substantially more agile process evolution through risk-free experimentation and optimization [4].

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Graph 1: Performance Improvements from AI-Based BPM Foundational Technologies [3,4]

Applications and Industrial Implementation of AI-BPM Integration

The theoretical promise of AI-based BPM is being realized across diverse industries through implementations that demonstrate its transformative potential. In financial services, organizations employ AI models to monitor transactions in real-time for fraud and compliance breaches. Rosemann et al. documented that financial institutions implementing AI-BPM for compliance monitoring experienced a 53% reduction in false positives and a 41% improvement in fraud detection rates compared to rule-based approaches [5]. Their research across banking sector implementations revealed that process mining and AI-driven analytics identified an average of 26% more regulatory compliance issues than traditional audit approaches, while reducing monitoring costs by 31% [5]. The banking sector has further leveraged predictive process management for loan approvals, with Rosemann et al. noting that institutions implementing these solutions reduced processing time by 37% and improved decision consistency by 42% across diverse customer segments [5].

Manufacturing has emerged as a fertile domain for AI-BPM integration. Kalluri's examination of 34 manufacturing organizations implementing AI-BPM solutions revealed an average reduction in production downtime of 23.7% and improvement in first-pass yield quality of 18.2% [6]. The study found that self-healing production systems implementing low-code AI solutions reduced quality-related production stoppages by 27.4% and improved throughput by 13.8% through automated rerouting and reconfiguration capabilities [6]. These implementations transform the relationship between human oversight and automated systems, with Kalluri reporting that 73% of organizations were able to shift quality control personnel from routine inspection to process improvement activities, resulting in 42% more improvement initiatives being implemented annually [6].

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In logistics and supply chain management, intelligent decision-making systems have delivered substantial value. Rosemann et al. documented that AI-enhanced inventory management systems reduced fulfillment costs by 22% and decreased delivery time by an average of 26 hours across the organizations studied [5]. Their analysis revealed that predictive demand algorithms achieved 89% accuracy in 5-day forecasts, enabling proactive inventory positioning that reduced stockouts by 33% and excess inventory by 27%, with significant improvements to working capital efficiency [5]. Similarly, transportation service providers implementing dynamic routing systems have realized meaningful benefits, with Kalluri reporting that these implementations increased driver utilization by 17.3% and reduced empty miles by 21.8% across the logistics companies in the study [6].

Customer experience domains have seen widespread adoption of AI-BPM approaches. Kalluri found that organizations implementing AI-driven customer journey orchestration increased conversion rates by 31.4% and reduced customer churn by 23.7% through personalized experience design [6]. Rosemann et al. noted that 67% of customer experience implementations delivered measurable improvements to Net Promoter Scores within six months of deployment, with an average improvement of 18 points [5]. Document-intensive processes have achieved similar transformative outcomes, with Kalluri reporting that cognitive automation reduced document processing costs by 62.8% and accelerated processing times by a factor of 4.6 across implementations [6]. Process mining deployments across sectors have uncovered significant improvement opportunities, with Rosemann et al. finding that initial implementations identified cost-saving opportunities averaging 17.3% of process operating expenses [5].

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Industry	Application	Performance Metric	Improvement
Financial Services	Fraud & Compliance Monitoring	False Positive Reduction	53%
	Regulatory Compliance	Monitoring Cost Reduction	31%
	Loan Processing	Processing Time Reduction	37%
Manufacturing	Production Systems	First-Pass Yield Quality Improvement	18.20%
	Self-Healing Production	Quality-Related Stoppage Reduction	27.40%
	Workforce Optimization	Quality Personnel Shift to Improvement	73%
	Improvement Initiatives	Annual Initiatives Increase	42%
Logistics & Supply Chain	Inventory Management	Fulfillment Cost Reduction	22%
	Demand Forecasting	5-Day Forecast Accuracy	89%
	Inventory Optimization	Stockout Reduction	33%
	Transportation	Empty Miles Reduction	21.80%
Customer Experience	Journey Orchestration	Customer Churn Reduction	23.70%
	Customer Satisfaction	NPS Improvement (6 months)	67%
Document Processing	Cognitive Automation	Processing Cost Reduction	62.80%

Table 1: Sector-Specific Performance Improvements from AI-BPM Solutions [5.6]

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The AI-Enhanced Process Improvement Lifecycle

The traditional process improvement cycle undergoes significant transformation when enhanced with AI capabilities, creating a more dynamic, data-driven, and autonomous approach to process optimization. Filippucci et al. documented that organizations implementing AI-enhanced process improvement methodologies completed optimization cycles 3.7 times faster than those using traditional approaches while achieving 29% higher performance improvements [7]. Their economic analysis across 142 organizations revealed that AI-augmented processes demonstrated 31% higher adaptability to the market changes and contributed to an average productivity growth of 2.4% annually, significantly outpacing the 0.9% average for organizations using conventional improvement methodologies [7].

The discovery phase transcends traditional manual process mapping through AI-powered process mining. Kanellopoulou et al. found that organizations implementing their APSS methodology with process mining capabilities identified 76% more improvement opportunities than those using traditional workshop-based

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approaches [8]. Their research revealed that AI-driven process discovery reduced analysis time by 67% while uncovering an average of 24 previously unknown process variants that explained 36% of performance variations across implementations [8]. This approach transforms discovery from subjective assessment to objective analysis, with Filippucci et al. noting that organizations leveraging AI for process discovery experienced 42% higher confidence in their understanding of process execution reality [7].

Analysis becomes predictive rather than merely diagnostic through AI capabilities. Kanellopoulou et al. documented that predictive process analytics forecasted disruptions with 83% accuracy up to 96 hours in advance [8]. Their research across 36 implementations found that organizations leveraging AI-enhanced analysis reduced process incidents by 47% and improved resource utilization by 33%, representing substantial operational benefits [8]. This predictive orientation fundamentally transforms process governance, with Filippucci et al. reporting that organizations implementing predictive process monitoring reduced operational losses by 3.2 million euros annually on average through earlier intervention in emerging issues [7].

The design phase transitions from static modeling to dynamic simulation through digital twins. Kanellopoulou et al. found that organizations using their APSS methodology for process redesign reduced implementation risk by 64% and accelerated innovation cycles by a factor of 2.7 compared to traditional design approaches [8]. Their research revealed that AI-optimized process designs outperformed human-designed alternatives by 21% across key performance indicators, particularly in complex processes with numerous decision points and variants [8]. Organizations implementing simulation-based design reported 45% fewer failed process changes and 37% faster time-to-value for process improvements.

Automation expands beyond rules-based execution to incorporate cognitive capabilities. Filippucci et al. documented that cognitive automation implementations increased straight-through processing rates by 51% and reduced exception handling costs by 74% compared to traditional automation approaches [7]. Their economic analysis demonstrated that organizations implementing cognitive automation realized productivity gains averaging 3.6% annually, substantially higher than the 1.2% achieved through conventional automation [7]. This expanded automation capability fundamentally alters the scope of what can be automated, with Kanellopoulou et al. reporting that organizations using their methodology automated an average of 63% of previously manual knowledge work through AI-enhanced capabilities [8]. The monitoring and optimization phases become increasingly autonomous, with Filippucci et al. finding that continuous AI-driven optimization delivered compounded performance improvements of 23% annually versus 8% for traditional improvement cycles [7]. This continuous evolution fundamentally transforms process management from episodic initiatives to perpetual adaptation, creating significant competitive advantages for early adopters.

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Graph 2: Improvements across Process metrics with AI-enhanced approaches [7,8]

Challenges and Considerations in AI-BPM Implementation

Integrating AI with business process management can really change the game, but it's not without its challenges. One major issue is the technical complexity involved. Bringing AI into BPM implies the need to link up different systems, data sources, and departments. A study by Sumarlin and Kusumajaya looked at 87 cases of Industry 4.0 implementation and found that 74% of the organizations faced serious integration problems. In addition, 58% ended up taking about 8.3 months longer than their plan for completing their projects. Their analysis identified that technical complexity constituted the primary challenge in 42% of implementation failures, particularly in environments with legacy systems that lacked standardized data exchange capabilities [9]. This complexity creates substantial risks, with Wijayanayake reporting that 63% of organizations implementing AI-BPM solutions faced interoperability issues across existing systems, resulting in fragmented process visibility and inconsistent performance [10].

Data quality and accessibility represent fundamental prerequisites for effective AI-BPM implementation. Sumarlin and Kusumajaya found that 81% of organizations cited data-related challenges as significant barriers, with specific issues including inconsistent data formats (67%), limited historical data availability (53%), and insufficient data granularity for effective machine learning (48%) [9]. Their research revealed that organizations typically spent 42% of total implementation resources on data preparation activities, significantly higher than the 18% initially budgeted in project plans [9]. Wijayanayake's analysis corroborates these findings, noting that organizations implementing AI-BPM solutions discovered that an average of 46% of their process data required substantial cleansing or restructuring before being suitable for AI applications [10].

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Organizational readiness constitutes a critical success factor, encompassing both skills availability and cultural alignment. Sumarlin and Kusumajaya documented that 79% of organizations reported significant skills gaps, with the most acute deficiencies in AI development (73%), data engineering (68%), and process mining specialists (59%) [9]. Their research indicated that organizations required an average of 14.7 months to develop internal capabilities for effectively maintaining AI-BPM systems [9]. Cultural resistance presents equally significant barriers, with Wijayanayake finding that 66% of organizations encountered moderate to severe employee resistance to AI-driven decision-making, particularly among mid-level management concerned about reduced autonomy or role displacement [10].

Ethical considerations demand careful attention, particularly regarding algorithmic transparency and potential workforce impacts. Sumarlin and Kusumajaya found that 37% of organizations implementing AI-BPM solutions had to reconfigure their implementations to address bias concerns, with 42% establishing explicit ethical governance frameworks to ensure appropriate human oversight [9]. Wijayanayake notes that organizations establishing clear ethical guidelines from project inception reported 38% higher employee acceptance and 47% fewer implementation delays related to stakeholder concerns [10]. These ethical frameworks become increasingly important as process autonomy increases, with Sumarlin and Kusumajaya finding that organizations implementing processes with high automation levels were 3.2 times more likely to face regulatory scrutiny regarding decision transparency [9].

Governance frameworks require significant adaptation to accommodate AI-BPM implementations. Wijayanayake reports that 71% of organizations needed to establish new governance mechanisms specifically for AI-BPM, including model management policies (82%), performance monitoring systems (79%), and intervention protocols (68%) [10]. Organizations with mature AI governance frameworks achieved 51% higher ROI from their implementations, demonstrating the critical importance of appropriate governance structures [10].

Challenge Category	Challenge Factor	Impact Metric
Technical Complexity	Implementation Timeline Overruns	8.3 months (average)
Data Quality	Data Requiring Cleansing/Restructuring	46%
Organizational Readiness	Capability Development Timeframe	14.7 months
	Employee Acceptance with Ethical Guidelines	38% higher
Ethical Considerations	Implementation Delays Reduced with Guidelines	47% fewer
	Regulatory Scrutiny Likelihood (High Automation)	3.2x higher
Governance	ROI with Mature Governance Frameworks	51% higher

 Table 2: Key Barriers to Successful AI-BPM Implementation [9,10]

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CONCLUSION

Bringing AI into Business Process Management is changing the game for companies. Instead of sticking to fixed routines, businesses can now have smarter systems that learn and adapt on their own. This goes beyond just automating tasks; these systems can understand what's happening, anticipate what might come next, and make decisions based on the current situation. Across different industries, it is being observed that mixing AI with BPM leads to real gains in how quickly and efficiently businesses operate, keeps them in line with regulations, and improves customer interactions. This shift touches every part of how processes are improved, leading to more flexible and data-driven ways of discovering, assessing, designing, automating, monitoring, and refining processes. There are indeed some challenges out there, like technical aspects, data issues, and ethical questions that can make implementing AI tough for companies. Businesses that are able to tackle these problems head-on can really stand out from the competition. As things change quickly in the business world, a bigger difference between companies using AI for their processes and those sticking to old methods will emerge. It'll be a bit like trying to run a factory without power-possible, but really slow and costly. Switching to AI-based business processes isn't just about making things better; it's a whole new way of thinking about work. Companies that get on board early will see big wins in speed, customer happiness, compliance, and saving money. The future of managing business processes depends on the smart integration of AI, changing how organizations do their work to adapt and succeed in a fastpaced market.

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