



The AI revolution in enterprise systems

How AI is reshaping Core Business Operations for
efficiency & growth

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Deloitte's Tech Trends 2025 report reveals the extent to which AI is being woven into the fabric of our lives. AI is fundamentally challenging and enhancing the traditional role of core and enterprise resource planning (ERP) systems as the single source of truth in enterprises. By embedding AI into core operations, organizations can enhance efficiency, drive smarter decisions, anticipate challenges, and unlock new opportunities for growth.

"AI is no longer just an add-on to enterprise systems, it is becoming the foundation of business transformation. Organizations that embrace AI-driven core modernization will not only enhance efficiency but also gain a competitive edge by making real-time, data-driven decisions that were previously impossible."
said Aleksandar Ganchev, Director of Deloitte Consulting Central Europe.

AI-Driven Systems: A Game-Changer for Core modernization

Traditionally, core systems focused on updating legacy infrastructure. The Intelligent Core goes beyond this, leveraging AI to integrate smart, adaptive solutions that constantly learn and evolve. This brings:

- **Smarter decisions:** AI processes data in real-time, providing immediate insights for quicker, more informed decision-making.
 - **Intelligent Automation:** AI doesn't just automate; it continuously learns, optimizes, and predicts trends, improving efficiency and reducing errors.
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Enhancing Efficiency, Agility, and Predictive Capabilities

With AI at the center of business systems, organizations can:

- **Automate routine tasks:** Free up human resources from repetitive tasks and focus on strategic, value-added activities.
- **Boost operational efficiency:** Improve accuracy, reduce errors, and ensure compliance.
- **Improve agility:** Adapt quickly to market changes, enhancing both short-term flexibility and long-term scalability.
- **Predict issues and opportunities:** Anticipate system failures or threats proactively and identify growth opportunities before competitors.

Implementing the intelligent core: A strategic approach

Introducing AI into core systems requires more than just the right technology. It needs strategic planning:

- **Orchestration:** Enterprises can integrate AI through vendor-provided modules, third-party tools, or custom-developed models. Each has its own benefits and drawbacks.
- **Addressing Risks and Challenges:** Integration involves managing complex architectures, ensuring robust data governance, and addressing trust in AI systems.
- **Investing in infrastructure:** Cloud platforms, high-performance computing, and data analytics tools are crucial for AI success.
- **Aligning AI with business goals:** AI should be integrated within broader business strategies, not just operational processes.

The Role of AI in the Intelligent Core

AI has evolved from a general-purpose tool to a specialized solution embedded across core systems, influencing everything from supply chain management to customer service. For instance, AI can predict customer behavior and adjust marketing strategies or identify inefficiencies in supply chains and suggest optimizations. AI's ability to drive real-time decision-making is a key feature of the Intelligent Core. In industries such as finance and healthcare, AI can analyze data streams to make instant adjustments whether managing inventory, optimizing production schedules, or personalizing customer interactions.

Conclusion: Embracing the Intelligent Core

The Intelligent Core signifies a shift in business processes towards enhanced intelligence and scalability. AI-driven systems enable smarter decisions, trend prediction, and better reaction to changes, aiming for autonomous decision-making. Embracing the Intelligent Core helps organizations stay competitive and lead in the market.

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