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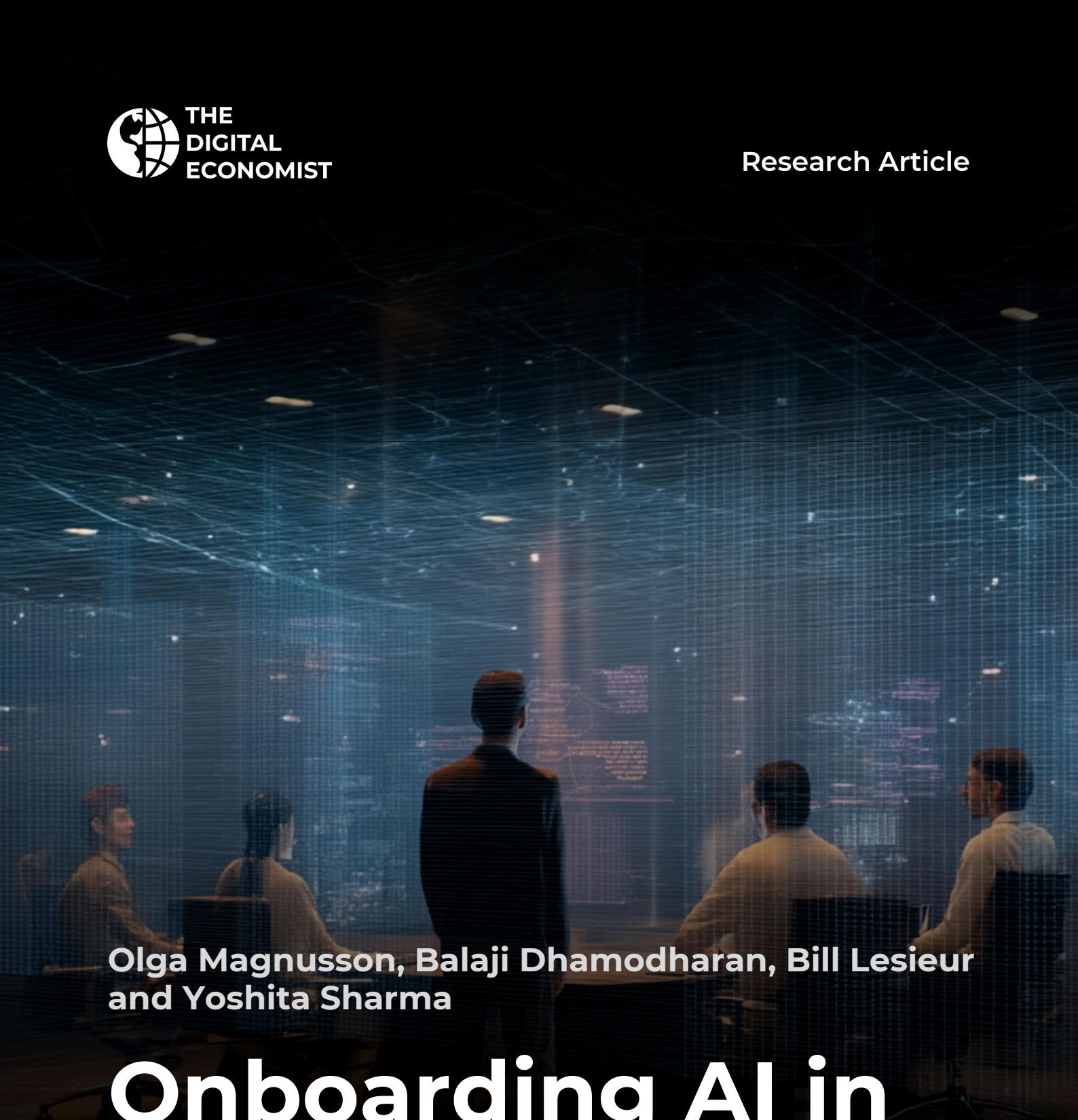

Olga Magnusson, Balaji Dhamodharan, Bill Lesieur and Yoshita Sharma

Onboarding AI in your Business

It’s not about the Technology

AI ADOPTION STRATEGY | HUMAN-CENTERED AI | AI GOVERNANCE

1.0 Introduction

Understanding artificial intelligence (AI) is not just important—it is essential for leveraging its potential to transform businesses and improve lives. While AI lacks a universally accepted definition, this ambiguity has fueled its rapid and expansive evolution. This flexibility has enabled AI to adapt and advance across industries, making it imperative to examine key attempts at defining its scope and capabilities (Stanford University 2016).

To understand what AI can be effectively onboarded, it is essential to define what AI is and how it has evolved. Though AI lacks a universally agreed-upon definition, this very ambiguity has allowed it to grow expansively. The term was first introduced in 1995 by emeritus Stanford Professor John McCarthy and MIT researcher Marvin Minsky, who described it as “the science and engineering of making intelligent machines” (Stanford University 2016).

Today, when we refer to AI, we imply that machines can learn in similar ways that humans do, and we are looking to have them perform tasks that were previously only reserved for humans (Stanford University HAI).

Artificial Intelligence is transforming industries by driving efficiency, enabling data-driven decision-making, and fostering innovation. Businesses could leverage AI to automate tasks, enhance productivity, and generate new revenue streams. A Forbes survey indicates that 96 percent of C-Level executives expect AI to enhance employee productivity and efficiency (B. Robinson 2024).

However, while AI onboarding presents significant opportunities, its successful integration extends beyond technological advancements. Companies must navigate AI adoption with a strategic framework that balances innovation with ethical governance, workforce readiness, and leadership-driven decision-making.

This paper provides a structured roadmap for organizations looking to onboard AI integration responsibly, ensuring they maximize its transformative potential while addressing challenges related to strategy, governance, and human collaboration.

2.0 Do It Right

Successfully onboarding artificial intelligence requires more than just technical implementation—it demands a strategic, human-centered approach that aligns with business objectives, workforce empowerment, and ethical AI governance. Organizations that fail to establish clear goals, assess readiness, or define success metrics struggle with high onboarding costs, employee resistance, and a lack of measurable benefits.

Beyond simply managing AI risks, companies that adopt dynamic AI governance as a competitive advantage can position themselves ahead of the curve. Rather than treating governance as a compliance necessity, businesses can use it to enhance innovation, build customer trust, and differentiate themselves in the market. AI governance, when approached strategically, enables proactive risk management, ensures ethical AI deployment, and strengthens regulatory compliance, making it a key driver of sustained business growth. The following sections explore essential aspects of AI adoption, including governance frameworks, balancing regulation with innovation, and the role of trust in driving market success.

3.0 Developing an AI Strategy: Aligning Business Objectives

Before implementing AI, businesses must understand the goals behind implementing AI. AI can drive value in multiple ways:

- Product and market development: Enhancing innovation and creating new revenue streams.
- Customer experience improvement: Personalizing interactions and optimizing customer service.
- Processes and operations efficiency: Automating workflows, reducing costs, and improving productivity.
- Risk management: Strengthening cybersecurity, fraud detection, and regulatory compliance.

Without a clear purpose and success metrics, businesses risk inefficient AI deployment, high onboarding costs, employee and customer skepticism, and poor returns on investment (ROI). A Forbes article highlights that 75 percent of businesses are not seeing ROI from AI yet. This is attributed to several factors, including the complexity of AI integration, the need for substantial upfront investment, and the challenges in measuring AI's impact on productivity (Poinski 2025).

3.1. Establishing AI Objectives

Establishing an objective for the implementation of AI within a business needs to align with the business's overall strategy. An analysis of the company's maturity in terms of strategy, processes, technology readiness, data collection and management, and workforce development and management is essential to establish the best solutions and implementation approach to drive the highest returns while ensuring sustainable business benefits.

However, many companies overlook this discovery phase, leading to misguided investments in AI solutions that fail to deliver real value. The lack of ROI from AI investments is often due to the early stages of AI adoption and the challenges in integrating AI into existing workflows.

Despite these challenges, some companies have successfully leveraged AI to drive business growth. For instance, Walmart reported a 4.8 percent increase in revenue growth and a 21 percent boost in e-commerce, attributing part of this success to AI–driven inventory management and supply chain optimization (English 2024).

3.2. Understanding the Best Solution for Your Business

As AI is an umbrella for different technologies like generative AI, agentic AI, and others, understanding the best solution for your business is pivotal in ensuring successful AI onboarding.

Generative AI: Enhancing Creativity

Best suited for marketing, content creation, design, and personalized user experience.

- Content creation
- Design and prototyping
- Data augmentation
- Personalization
- Creative assistance

Agentic AI: Automating Decision-Making and Process Optimization

Best suited for operations, predictive analytics, and autonomous systems.

- Autonomous decision-making
- Process automation
- Predictive maintenance
- Customer service
- Resource management

While the benefits of both technologies differ, it is important to understand that the highest returns depend entirely on selecting the right solution for your business goal, whether this implies one technology or a combination of them.

4.0 Assessing Business and Technology Readiness

Successful AI onboarding hinges on a company's ability to assess its preparedness across multiple dimensions. Before integrating AI, businesses must evaluate strategic alignment, infrastructure readiness, and workforce capabilities to ensure a seamless transition to AI–driven operations.

A McKinsey report emphasizes that while AI has the potential to add $4.4 trillion in productivity growth, only 1 percent of companies consider themselves "mature" in AI deployment. This statistic indicates that many organizations remain in the early stages of AI adoption, struggling to fully capitalize on its potential (Mayer et al. 2025).

4.1. Strategic Alignment

Strategic alignment ensures that AI initiatives support overarching business objectives rather than deployed in isolation. Organizations must do the following:

- Clearly define how AI adoption aligns with business priorities.
- Establish measurable success metrics, such as Key Performance Indicators (KPIs) or Objectives and Key Results (OKRs), to measure AI's impact on operations.
- Develop ethical AI governance frameworks to guide responsible AI use, regulatory compliance, and risk mitigation.

One of the main benefits of strategic alignment is that it prevents misallocation of AI resources and ensures AI initiatives deliver measurable business value rather than becoming expensive experiments with unclear outcomes.

4.2. Infrastructure and Data Readiness

Infrastructure and data readiness form the foundation for AI implementation. Businesses must assess the following:

- **Technology readiness:** Ensuring the availability of cloud computing, processing power, and AI–specific tools necessary for AI workloads.

- **Sustainable AI infrastructure:** Implementing energy-efficient and scalable AI models that can adapt to evolving business demands.

- **Data Quality and Governance:** Establishing robust data frameworks to manage AI inputs, reduce biases, and ensure regulatory compliance.

A well-prepared infrastructure prevents bottlenecks in data-driven decision-making and enables scalable AI applications, ensuring that AI solutions can grow alongside the organization.

4.3. Workforce and Organizational Readiness

AI adoption is not just about technology—it requires an AI–ready workforce that is both trained and adaptable. Successful integration depends on the following:

- **Upskilling employees:** Providing AI literacy programs to enhance technical proficiency across departments.

- **Change management strategies:** Encouraging organizational buy-in through leadership engagement and structured transition plans.

- **Cross-functional collaboration:** Encouraging collaboration between AI specialists and business teams to ensure practical AI applications.

Workforce readiness minimizes resistance to AI adoption and accelerates seamless AI integration into business operations. It creates a space for creativity and collaboration.

5.0 Implementation Approach: AI as a Human-Technology Partner

Successful AI implementation goes beyond technology deployment—it requires a strategic approach that integrates AI as a human-technology partner, enhancing human decision-making, optimizing business processes, and aligning with corporate objectives.

5.1 Learning from the Past: Centralization vs. Decentralization in AI Adoption

Looking back before looking forward

The revolution of technology reveals an ongoing tension between decentralized and centralized systems. During the PC era of the 1980s, the widespread use of decentralized spreadsheets in large

corporations led to several problems, which eventually prompted a shift toward centralized databases. Decentralized, spreadsheet-based systems created data silos, inefficiencies, risk of errors, and compliance exposures. The swing between centralized and decentralized technologies surfaced rapidly again with the introduction of generative AI (O'Reilly 2024; Džanko et al. 2024). Recognizing these patterns can help businesses strategically implement AI in ways that maximize efficiency without sacrificing control, compliance, or scalability.

5.2 Defining the Right AI Implementation Model

The effectiveness of AI onboarding depends on the level of maturity of your business. There are three high-level approaches, each requiring a different management strategy.

5.2.1 Top-down approach (leadership-driven, centralized control)

Best fit for: Large enterprises and regulated industries (e.g., finance and health care)

Guarantee: Compliance, resource allocation, and strategic alignment with business goals

Benefits: Streamlines decision-making, optimizes resource efficiency, and strengthens risk management

Risks: May suppress innovation, create operational disconnect, and face employee resistance

5.2.2 Bottom-up approach (employee-driven, flexible experimentation AI tools)

Best fit for: Organizations prioritizing innovation and adaptability (e.g., start-ups and agile companies in dynamic markets like software development firms)

Guarantee: AI adoption is tailored to real-world challenges and fosters innovation

Benefits: Encourages diverse solutions, increases employee engagement, and improves adaptability

Risks: May lead to resource fragmentation, misalignment with strategy, and scalability challenges

5.2.3 Hybrid approach (balanced governance and innovation)

Best fit for: Organizations seeking structured AI adoption with room for creativity

Guarantee: AI adoption aligns with long-term goals while allowing for bottom-up innovation

Benefits: Maintains compliance while driving creativity, strengthens collaboration, and improves AI integration

Risks: Requires careful coordination, may create conflicts between leadership and employees, and challenges in balancing resources

Many enterprises are shifting toward hybrid AI adoption, seeking to balance strategic control with localized innovation. As evidenced by McKinsey's findings, 65 percent of organizations are regularly using generative AI across business functions. This demonstrates a growing trend of blending AI experimentation with structured governance to drive business functions.

5.3. The Importance of a Human-First Approach in AI Implementation

A human-first approach ensures AI enhances human capabilities rather than replacing them with the potential to help us redefine what makes us human. Organizations that prioritize human-centered AI design achieve greater workforce engagement, improved ethical considerations, and more sustainable AI adoption.

According to an article published by M. Esposito and D. De Cremer in California Management Review, this requires businesses and individuals to "embrace a paradigm shift—from viewing humans as task-doers optimized for efficiency to recognizing them as beings capable of growth, creativity, and profound connection" (De Cremer and Esposito 2025).

These are the key principles of a human-first AI approach:

1. Human-augmented AI: AI should complement human skills rather than act as a substitute. While AI can easily take over repetitive tasks, the human aspect of business, which is found in managing relationships and creatively finding solutions, should be the main driver for the adoption of AI.

2. Employee upskilling and inclusion: AI onboarding should include workforce training to ensure adaptability and empowerment. According to an article published by the Economist, the initial belief that AI will reduce the disparity in workers' productivity has been swamped by new findings that show an increase in the gap between the benefits of AI for senior and junior individuals (The Economist 2025).

3. Transparent decision-making: AI systems must be explainable and align with ethical business values. Explainable AI (XAI) can help with this endeavor (Krzyzanowski et al. 2025).

4. Human oversight in AI operations: Continuous human oversight (human in the loop) ensures AI decisions are aligned with company goals and societal values (Li Meng 2023).

5. AI as a human empowerment tool: AI should be positioned as a strategic ally that amplifies human decision-making rather than automating jobs without oversight. This ensures AI adoption is sustainable, widely accepted, and generates long-term organizational value.

5.4. Transforming Business Processes with AI

AI is revolutionizing business operations across multiple departments, enhancing efficiency, decision-making, and customer engagement. Key areas of transformation include the following:

1. Sales and marketing: AI–driven analytics optimize lead generation, personalize customer outreach, and automate ad targeting, increasing conversion rates and ROI.

2. Product development: AI accelerates innovation by analyzing market trends, predicting consumer preferences, and optimizing design processes.

3. Operations and supply chain: AI–powered predictive analytics enhance demand forecasting, inventory management, and logistics, reducing costs and improving efficiency.

4. Customer service and support: AI chatbots, virtual assistants, and sentiment analysis tools improve response times, enhance customer satisfaction, and automate routine inquiries.

5. Risk and compliance: AI strengthens cybersecurity measures, detects fraud, and ensures compliance with evolving regulations by automating risk assessments and audits.

By integrating AI across these departments, businesses can drive efficiency, foster innovation, and create seamless customer experiences, ensuring sustained competitive advantage.

5.5. Generative AI

Generative AI represents a significant advancement in artificial intelligence, allowing machines to create content, generate insights, and simulate humanlike interactions. However, to leverage these capabilities effectively, businesses must ensure proper implementation, oversight, and optimization.

How to Implement Generative AI for Human-Computer Interaction

1. Identify use cases: Define specific areas where generative AI can add value, such as customer service, content generation, or business intelligence.

2. Select the right models: Choose AI models tailored to business needs, whether for text, image, audio, or video generation.

3. Ensure data quality: Train AI models on high-quality, diverse datasets to prevent bias and improve reliability.

4. Develop ethical guidelines: Establish policies that promote transparency, fairness, and responsible AI usage.

5. Incorporate human oversight: AI–generated outputs should be monitored to avoid errors, biases, and ethical concerns.

6. Optimize user interaction: Implement user-friendly interfaces that seamlessly integrate AI–driven experiences.

Benefits of Generative AI in Human-Computer Interaction

1. Enhanced productivity: Automates repetitive tasks such as content creation, report generation, and summarization.

2. Improved customer engagement: Chatbots and virtual assistants provide 24-7 customer support with natural language processing.

3. Personalized user experiences: AI–driven recommendations tailor content, marketing, and product suggestions to individual users.

4. Faster decision-making: AI–generated insights help businesses make data-driven decisions more efficiently.

5. Scalability: Businesses can expand operations without significantly increasing human resources by automating routine interactions.

By adopting generative AI responsibly, businesses can enhance efficiency, optimize customer interactions, and maintain ethical AI practices while fostering trust and innovation. Organizations must balance AI's automation capabilities with human oversight. Generative AI tools improve workflows but require prompt engineering and ethical constraints to mitigate bias and hallucinations (MIT Management).

5.6. Agentic AI

Agentic AI refers to artificial intelligence systems designed to operate autonomously, making decisions and executing tasks with minimal human intervention. Unlike traditional AI, which often requires predefined instructions, agentic AI can adapt to dynamic environments, set goals, and continuously learn from data. This capability allows it to handle complex, multistep problems and collaborate across various domains (Purdy 2024).

How to Implement Agentic AI for Human-Computer Interaction

1. Identify use cases: Define specific areas where agentic AI can deliver value, such as autonomous decision-making, workflow automation, or multi-step problem-solving in business operations.

2. Develop adaptive AI agents: Select or build AI agents capable of reasoning, learning, and acting autonomously while aligning with business objectives.

3. Ensure data integrity: Agentic AI requires high-quality, real-time data streams to make accurate and contextual decisions. Implement robust data management and validation processes.

4. Establish ethical and safety guidelines: Develop policies that ensure AI decisions are transparent, fair, and aligned with ethical principles, preventing unintended consequences.

5. Incorporate human-in-the-loop oversight: While agentic AI is designed for autonomy, human oversight should be integrated for auditing, refining, and ensuring ethical compliance.

6. Optimize user and system interaction: Design intuitive interfaces where users can interact, refine, and direct AI agents effectively, ensuring seamless collaboration between humans and AI.

Benefits of Agentic AI in Human-Computer Interaction

1. Autonomous problem-solving: AI agents can independently analyze situations, generate solutions, and execute tasks without constant human intervention.

2. Proactive decision-making: Unlike reactive AI, agentic AI anticipates challenges, adapts strategies, and takes initiative in dynamic environments.

3. Workflow automation and optimization: AI–driven agents can manage complex workflows, reducing manual intervention and improving operational efficiency.

4. Personalized and context-aware assistance: AI agents can continuously learn user behaviors, preferences, and patterns to provide tailored recommendations and proactive support.

5. Scalability and adaptability: Businesses can scale operations efficiently by deploying AI agents that autonomously handle tasks, interact with customers, and optimize resource allocation.

6. Faster innovation and strategic execution: Agentic AI accelerates business transformation by autonomously executing strategic initiatives, analyzing market trends, and optimizing decision-making at scale.

Transitioning from generative AI to agentic AI involves transitioning from content creation and insight generation to autonomous decision-making and execution, integrating adaptive learning, real-time contextual awareness, and multistep reasoning to enable AI agents to independently plan, act, and optimize workflows with minimal human intervention.

6.0 Challenges in AI Adoption for Daily Operations

While AI presents significant opportunities, businesses face multiple challenges when integrating AI into daily operations. These obstacles often stem from organizational resistance, gaps in technical expertise, and ethical concern surrounding AI–driven decision-making.
Addressing these challenges proactively is essential to maximizing AI's benefits while minimizing risks. This section explores common barriers to AI adoption and offers strategic solutions to help businesses overcome them.

AI adoption presents several organizational and operational challenges:

1. Resistance to change: Employees fear job displacement (De Freitas 2025).

Solution: Implement structured change management strategies, provide upskilling opportunities, and foster a culture of AI–human collaboration. Provide support through specialists like organizational psychologists.

2. Skills gap: Upskilling initiatives are essential for AI proficiency (McKinsey & Company 2025).

Solution: Invest in AI literacy training, workshops, and reskilling programs to prepare employees for AI–integrated roles.

3. Ethical considerations: AI governance ensures transparency and fairness (Kunchala 2025).

Solution: Establish AI governance frameworks with clear ethical guidelines and bias-mitigation strategies.

4. Data quality and privacy: Robust data frameworks mitigate security risks (Schmelzer and Walch 2025).

Solution: Strengthen data governance policies, ensure regulatory compliance, and adopt secure AI deployment practices.

The decentralized use of AI assistants has led to various problems and inefficiencies. Decentralized AI systems can create data silos and inconsistencies, leading to inefficiencies and errors in business processes. This fragmentation can hinder effective decision-making and collaboration across departments. When not properly integrated, AI assistants can end up automating dysfunctional business processes, leading to inefficiencies and suboptimal outcomes. This can result in increased operational costs and reduced productivity. Privacy and security concerns are significant challenges in decentralized AI systems (MIT Media Lab; CFlow 2025).

7.0 AI Governance: The Strategic Foundation for Innovation and Trust

AI governance ensures the responsible, ethical, and transparent use of AI through policies, risk management, and compliance. It addresses bias, privacy, security, and accountability while aligning AI with business goals and societal values. Effective governance fosters trust, mitigates risks, and ensures AI systems operate fairly and transparently.

7.1. AI Governance as a Competitive Advantage

While most AI governance discussions focus on compliance and risk management, this paper introduces dynamic AI governance as a business enabler. Organizations that integrate governance into their AI strategy can accelerate AI adoption, enhance trust, and drive innovation.

7.2. Trust as a Market Asset

- Ethical AI implementation differentiates businesses in the market.
- Companies with robust governance gain customer loyalty and investor confidence.

7.3. AI Governance and Innovation Balance

- Organizations should avoid over-regulation that hinders experimentation.
- A flexible AI governance model ensures compliance while fostering innovation.

7.4. AI Governance Framework

- **Reactive Governance**: Focus on compliance and risk management.
- **Adaptive Governance**: Align AI policies with evolving technology landscapes.
- **Proactive Governance**: Use AI governance to drive innovation and market leadership.

7.5. Case Study

Exploring AI Governance: A Mastercard case via Credo.ai

The financial services sector faces increasing pressure to establish strong AI governance from the outset, given its data-driven business models and strict regulatory environment. As one of the top IT spenders, the industry sees AI governance as a natural extension of governance, risk, and compliance (GRC) frameworks.

The Credo AI-Mastercard case study demonstrates how a leading financial services provider navigated AI governance at scale. Mastercard partnered with Credo AI to manage risks across its diverse AI systems, ensuring responsible deployment. They implemented centralized AI control through an AI registry, streamlining governance and compliance with regulatory requirements. A third-party AI vendor portal further strengthened compliance and risk management.

Balancing innovation with risk management, Mastercard formed an executive steering committee and encouraged employees to explore generative AI applications while maintaining oversight. The company has also leveraged AI to enhance secure and intelligent payments, improving internal efficiencies and providing customers with data-driven insights.

A key takeaway is the hybrid governance approach—combining top-down regulatory strategies with bottom-up innovation. This allows enterprises to maintain control while fostering an open environment for AI-driven advancements. Mastercard's case exemplifies how financial institutions can integrate AI governance to drive secure, compliant, and forward-thinking innovation.

8.0 Conclusion

AI is reshaping business landscapes, making strategic integration and ethical governance essential for long-term success. This paper provides a structured roadmap to help organizations implement AI responsibly, balancing innovation with accountability to maximize both financial and operational benefits.

Following this framework, organizations can responsibly harness AI's potential while fostering innovation, ethical integrity, and sustainable business growth.

Authors:

Olga Magnusson: Co-founder & CEO, SmartProjects

Balaji Dhamodharan: Software Analytics Lead, AMD

Bill Lesieur: Senior Executive Fellow, The Digital Economist

Yoshita Sharma: Technical Program Manager, Microsoft

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About

The Digital Economist, based out of Washington D.C. is an ecosystem of 40,000+ executives and senior leaders dedicated to creating the future we want to see: where digital technologies serve humanity and life. We work closely with governments and multi-stakeholder organizations to change the game: how we create and measure value. With a clear focus on high-impact projects, we serve as partners of key global players in co-building the future through scientific research, strategic advisory and venture build out. We are industry-agnostic as most high-impact projects touch many different industries. Our portfolio ranges from energy transition to ethics in emerging technology.

CONTACT: INFO@THEDIGITALECONOMIST.COM