

# Data Modernization

## Turning Data into Action: A Guide to Building AI-Ready Foundations



# Introduction

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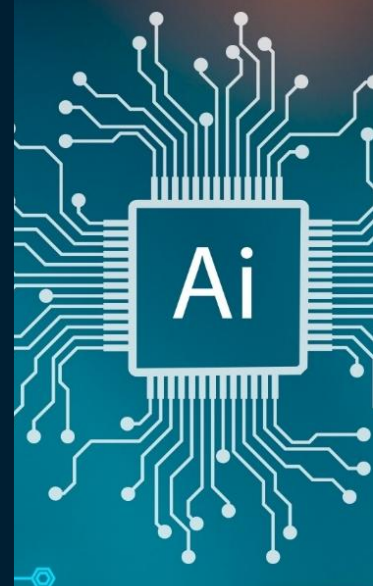
In today's real-time, AI-enabled landscape, data modernization is not just an IT initiative - it's essential for transformation, resilience, and competitive advantage.

As Parijat 'Roy' Chowdhury, National Solution Lead for AI and Analytics at Akkodis, explains: **"Data is the lifeblood of an organization. It's the most scientific way to understand performance, value, and vision."**

Explore how forward-thinking organizations unlock their data potential - not merely as passive storage, but as a dynamic, governed, real-time ecosystem supporting intelligent decision making and automation.

Modernization is more than technology - it's about structure and ownership. "Every business unit is the steward of their own data," Roy notes. "They know their data better than anyone else." This unified approach ensures quality, trust, and accessibility, critical for AI, automation, and compliance.

**Parijat 'Roy' Chowdhury**  
National Solutions Lead  
Data & AI  
Akkodis Australia



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## Key Benefits of Data Modernization with Akkodis

### Unified Data Integration

Centralizing diverse data (structured and unstructured) into a cohesive ecosystem, removing silos and duplication.

### Data Ownership

Empowering business units with domain-specific data accountability, enhancing relevance, accessibility, and trust.

### Real-Time Readiness

Enabling agile decisions, anomaly detection, and predictive analytics through real-time data capabilities.

### AI-Ready Architecture

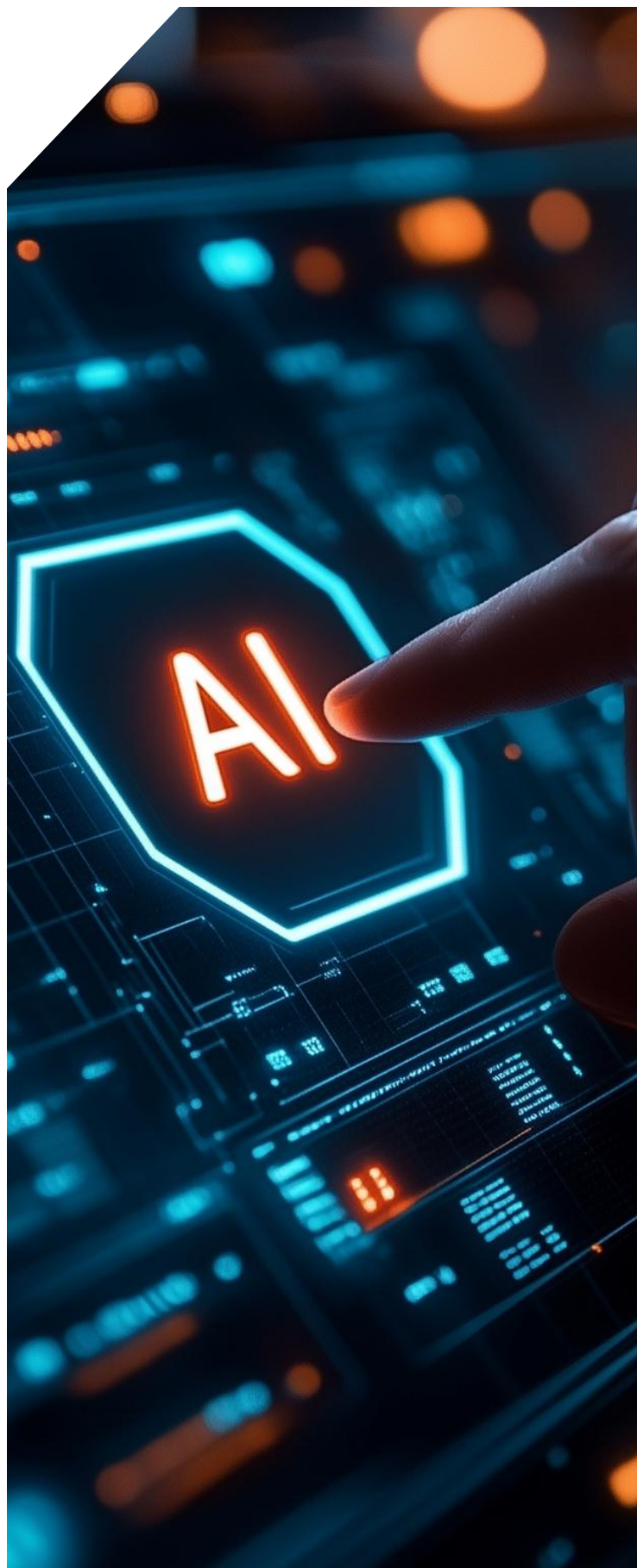
Leveraging modern data platforms (e.g., Microsoft Fabric) to transition fragmented data into valuable, real-time insights.

### Security by Design

Embedding robust governance, lineage tracking, and sensitivity controls from inception, ensuring secure and compliant data environments.

### Scalable Innovation

Modern, unified data ecosystems enable continuous operational optimization and experimentation at scale.



# AI Readiness: Why Data Modernization Matters

To harness the transformative potential of Artificial Intelligence, organizations must first modernize their data foundation. Without a unified, governed, and scalable architecture, AI initiatives often stall at the proof-of-concept stage - unable to deliver sustainable value at scale.

A modern, AI-ready architecture - such as that enabled by platforms like Microsoft Fabric - is purpose-built to overcome this challenge. It ensures that every layer of the data ecosystem is aligned to support automation, real-time intelligence, and continuous learning.

## Quality Data for Reliable AI

AI models are only as good as the data they consume. A modernized data infrastructure ensures that this data is clean, complete, and trustworthy - reducing bias, avoiding inaccuracies, and meeting compliance obligations.

## Real-Time Capabilities

AI requires low-latency, high-frequency data to deliver timely insights. Modern platforms like Microsoft Fabric enable seamless ingestion, transformation, and analysis of streaming data - powering real-time decision-making, anomaly detection, and predictive analytics across business functions.

## Unified Data Environment

An AI-ready data platform breaks down data silos by integrating structured and unstructured sources - such as CRM, IoT sensors, video, and text - into a cohesive ecosystem. This unified data architecture supports seamless flow from ingestion to insight, dramatically increasing AI readiness and agility.

## Scalable and Agile Infrastructure

Platforms like Microsoft Fabric enable continuous ingestion and processing of live data streams - supporting real-time alerts, predictive models, and automated decisions in scenarios such as fraud detection, equipment failure, or public safety incidents.

## Built-in Analytics and Automation

With native tools such as Azure Data Factory, Power BI, and Fabric Notebooks, AI workflows are streamlined - from raw data to actionable intelligence. Teams across data science, engineering, and operations can collaborate in a single platform.

# AI Readiness: Why Data Modernization Matters cont.

## Accelerating Innovation

Modern data ecosystems shorten development cycles and reduce experimentation costs. With a strong foundation, organizations can rapidly prototype, test, and operationalize AI use cases across departments and domains.

## Building Trust in AI

Transparent, well-governed data practices are fundamental for ethical, responsible AI enablement. Modern platforms embed governance, lineage tracking, and role-based access control—ensuring that AI outcomes are auditable, fair, and aligned with regulatory standards.

# Unified Data in Action

## Intelligence-Led Policing Powered by Data

A leading Australian policing agency partnered with Akkodis to unify disparate systems—Computer Aided Dispatch, incident management, CCTV, and more—into a centralized, governed platform powered by Microsoft Fabric. The project transformed fragmented data into actionable intelligence, significantly enhancing real-time operational responsiveness, agility, compliance, and public trust.

- Real-time intelligence: Enabled rapid, informed frontline decisions.
- Improved governance: Robust compliance and public confidence.
- Operational efficiency: Reduced complexity and cost through streamlined data processes.

[Read the full case study](#)

# Why Akkodis

## End-to-End Expertise:

We guide you from strategy to deployment, ensuring tangible operational impact through data ecosystem assessment, solution architecture, and continuous optimization.

## Partnerships with Impact:

As partners with Microsoft and AWS, we unify and transform complex data into scalable, intelligence-ready platforms.

## Responsible by Design:

Our robust governance frameworks are embedded at every stage, ensuring secure and compliant data ecosystems.

## Industry & Domain Expertise:

With deep industry and domain expertise our solutions deliver real-world impact, embedding intelligence-led operations into daily workflows.

For further information, please contact:

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Akkodis' commitment to delivering exceptional value to clients has been recognized on a global scale. Akkodis was awarded "Microsoft Global Data Analytics Partner of the Year" in 2019, validating Akkodis' expertise in leveraging Data & AI to drive meaningful business outcomes.

Microsoft  
Partner  
 Microsoft

2019 Partner of the Year Winner  
Data Analytics Award

2019 Partner of the Year Winner  
Australia

2019 Partner of the Year Finalist  
AI and Machine Learning Award

## Ready to turn fragmented data into actionable intelligence?

Akkodis's proven expertise helps you unify complex data systems, enhancing decision-making and operational agility. Leverage our partnerships with Microsoft and Informatica to transform your data ecosystem today.

# Engineering a Smarter Future Together

Leveraging the power of connected  
data to accelerate innovation and  
digital transformation.



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