

AI Ready Data Platform with Microsoft Fabric

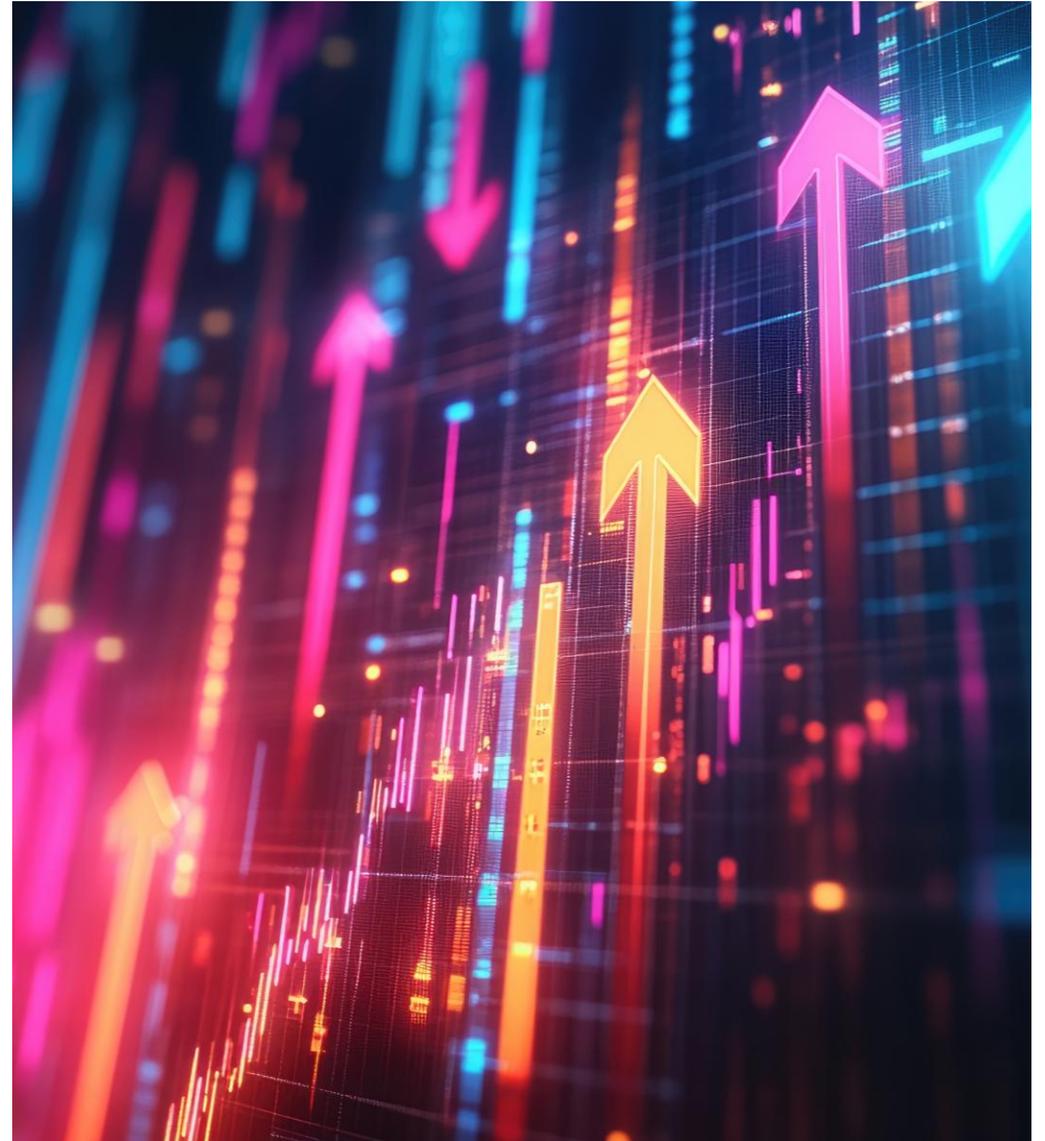
LAUNCH CONSULTING
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Why is Data Important?

DATA DRIVEN ORGANIZATIONS ARE FAR MORE LIKELY TO SUCCEED

- Data is crucial for organizations, enabling them to adapt to changing markets effectively.
- The impact of artificial intelligence on businesses greatly depends on the quality of the underlying data.
- An AI Ready Data Platform ensures data is organized, secure, and ready for use by AI models.
- Organizational data includes intellectual property and confidential information, making it essential to protect and manage it as a key asset.
- Properly managed data enhances analytics, provides insights, and supports informed decision-making



What Drives the Value?

TOP 5 BENEFITS OF ADOPTING AN AI READY DATA PLATFORM

- 1 Drive Growth** Accelerates AI and analytics adoption, unlocking new revenue streams and business models with real-time and predictive insights.
- 2 Save Cost** Optimizes cloud storage, compute, and automation to reduce operational expenses and improve return on investment
- 3 Increase Productivity** Eliminates data silos, automates workflows, and enhances decision-making with AI-driven insights for faster execution.
- 4 Reduce Risk** Strengthens data security, governance, and compliance to protect against breaches, fraud, and regulatory penalties.
- 5 Enhance Customer & Employee Experiences** Enables personalized experiences, intelligent automation, and AI-powered engagement to drive satisfaction and loyalty.

What is an AI Ready Data Platform?

An **AI Ready Data Platform powered by Microsoft Fabric** is a modern, scalable data infrastructure designed to store, structure, process, secure, and govern enterprise data, making it readily available for AI, analytics, and automation. Unlike traditional data platforms, which often struggle with siloed data, inconsistent governance, and slow processing, Microsoft Fabric ensures seamless data integration, high-quality data availability, and efficient AI model deployment. It enables organizations to harness the full potential of artificial intelligence by providing a foundation that supports real-time insights, predictive analytics, and generative AI applications.

Built as a Microsoft Azure cloud-native platform, Microsoft Fabric combines advanced data engineering based on the medallion architecture, machine learning operations (MLOps), and AI governance frameworks to optimize performance, security, and compliance. It facilitates the ingestion and storage of structured and unstructured data, supports large-scale processing with minimal latency, and ensures data is discoverable, contextualized, and actionable. By eliminating data bottlenecks and ensuring AI-driven insights can be quickly operationalized, businesses can drive growth, improve efficiency, and innovate faster in an increasingly AI-driven world.



Solid Foundational Approach



CLOUD FOUNDATION

The first step to enabling an AI First enterprise is to adopt the cloud. Our Cloud Foundations offering sets the stage to take advantage of the power of modern cloud services in a secure and scalable.



AI READY DATA PLATFORM

The next step in the transformation journey is to implement an AI Ready Data Platform that delivers high-quality, cleaned, standardized, and governed enterprise data to power AI and analytics.



AI KNOWLEDGE FOUNDATION

Once you have an AI Ready Data Platform it is critical to curate your enterprise data for use in AI models, and agentic frameworks to unlock AI-powered experiences, applications, and automation.



AI AGENTS AND AUTOMATION

With access to modern cloud services, and your enterprise data ready for use by AI models and agentic frameworks it is now possible to transform enterprise operations through agentic task and process automation.



AI EXPERIENCES AND APPLICATIONS

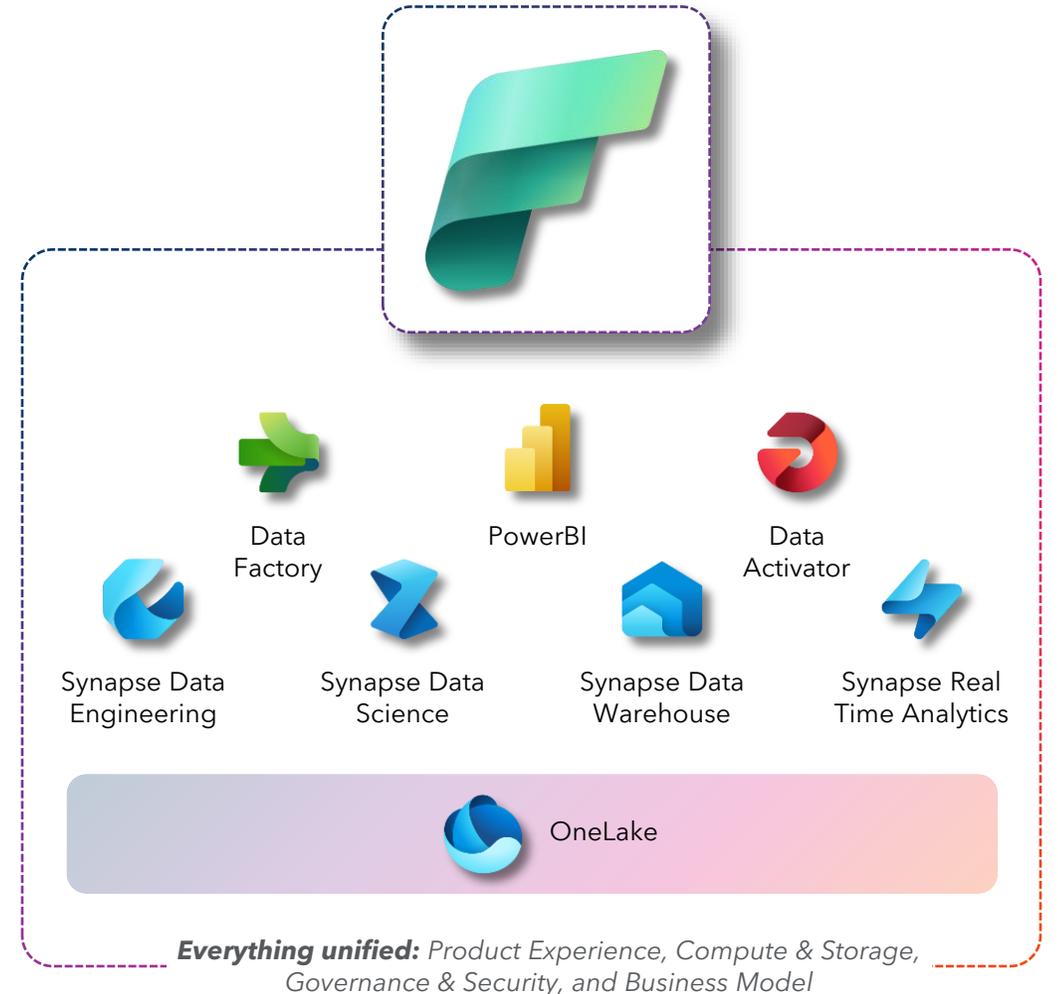
Leverage your new AI and Agentic capabilities to implement AI-powered applications and innovations that transform experiences for employees and customers through self-service and efficient access to information.

What is Microsoft Fabric?

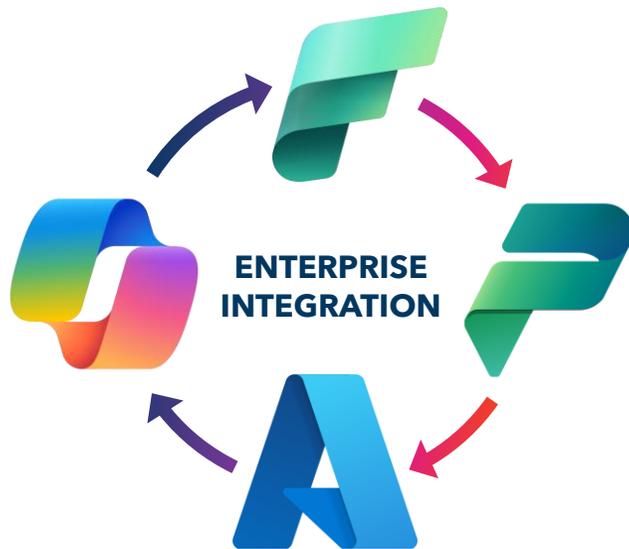
Microsoft Fabric is an all-in-one data analytics platform that unifies data movement, data engineering, data science, real-time analytics, and business intelligence, built on Microsoft OneLake and deeply integrated with Power BI and Microsoft 365.

KEY FEATURES

- **OneLake (Unified Data Lake):** Single data lake for the entire organization
- **Lakehouse Architecture:** Combines the benefits of data lakes and data warehouses.
- **Data Integration:** Built-in data pipelines via Dataflows Gen2 and Data Factory capabilities.
- **Synapse Data Engineering:** Spark-based notebooks and pipelines for big data processing.
- **Synapse Data Warehousing:** High-performance SQL-based data warehousing.
- **Real-Time Analytics:** Analyze streaming data with no ETL required.
- **Power BI Integration:** Native integration for visualizing and sharing insights.
- **AI & Machine Learning:** Built-in support for ML models and Python/R notebooks.
- **Governance & Security:** Unified data governance via Microsoft Purview.
- **Copilot Integration:** AI-powered experiences across all workloads.



Microsoft Fabric Specific Value Levers



KEY BUSINESS VALUE DRIVERS OF MICROSOFT FABRIC

1. Improved Data Governance & Compliance

- Integrated with Microsoft Purview for end-to-end data lineage, cataloging, and security.
- Simplifies data policy enforcement and auditability across all domains.

2. Faster Time to Insights

- Native integration with Power BI and real-time analytics enables faster decision-making.
- Built-in AI and Copilot features help users generate insights with natural language.

3. Lower Total Cost of Ownership (TCO)

- OneLake eliminates data duplication, reducing storage and compute costs.
- Unified governance and security reduce compliance overhead and operational risk.

4. Future-Ready Architecture

- Supports both structured and unstructured data with lakehouse flexibility.
- Scalable for advanced analytics, machine learning, and AI workloads.

5. Simplified, Unified Data Platform

- Reduces complexity by consolidating multiple tools (data lake, warehouse, BI, etc.) into one integrated platform.
- Minimizes vendor sprawl and tool switching, improving data team productivity.

6. Enhanced Collaboration and Accessibility

- Deep integration with Microsoft 365 tools (e.g., Teams, Excel) enables data democratization.
- Business users can self-serve insights without heavy IT involvement.

7. Accelerated Innovation

- Unified data foundation enables rapid experimentation with AI/ML models and real-time use cases.
- Shortens development cycles for data products and digital services.

Key Use Cases Enabled by Microsoft Fabric

1. End-to-End Business Intelligence

- Unify data from multiple sources and deliver interactive dashboards and reports via Power BI.
- Empower business users with self-service analytics, supported by Copilot.

2. Customer 360 & Personalization

- Aggregate customer data from CRM, web, social, and support systems into a unified view.
- Enable segmentation, churn prediction, and personalized engagement.

3. Supply Chain Visibility & Optimization

- Connect data from ERP, IoT devices, logistics partners, and warehouses.
- Enable real-time monitoring, demand forecasting, and inventory optimization.

4. Financial Analytics & Forecasting

- Centralize finance data for budgeting, forecasting, and real-time performance tracking.
- Streamline regulatory reporting and scenario modeling.

5. Sales & Marketing Performance Analytics

- Combine sales activity, pipeline data, marketing campaigns, and web analytics.
- Analyze ROI, attribution, and conversion effectiveness.

6. Workforce Analytics & HR Insights

- Integrate HRIS, engagement surveys, and productivity tools for talent insights.
- Improve retention strategies and workforce planning.

7. IoT & Real-Time Analytics

- Ingest and analyze sensor, device, or machine data for predictive maintenance and monitoring.
- Drive efficiencies in manufacturing, energy, or field operations.

8. Data Science & Machine Learning at Scale

- Enable data scientists to build, train, and operationalize models using notebooks and pipelines on a shared lakehouse.
- Accelerate AI use cases like fraud detection, recommendations, and demand forecasting.

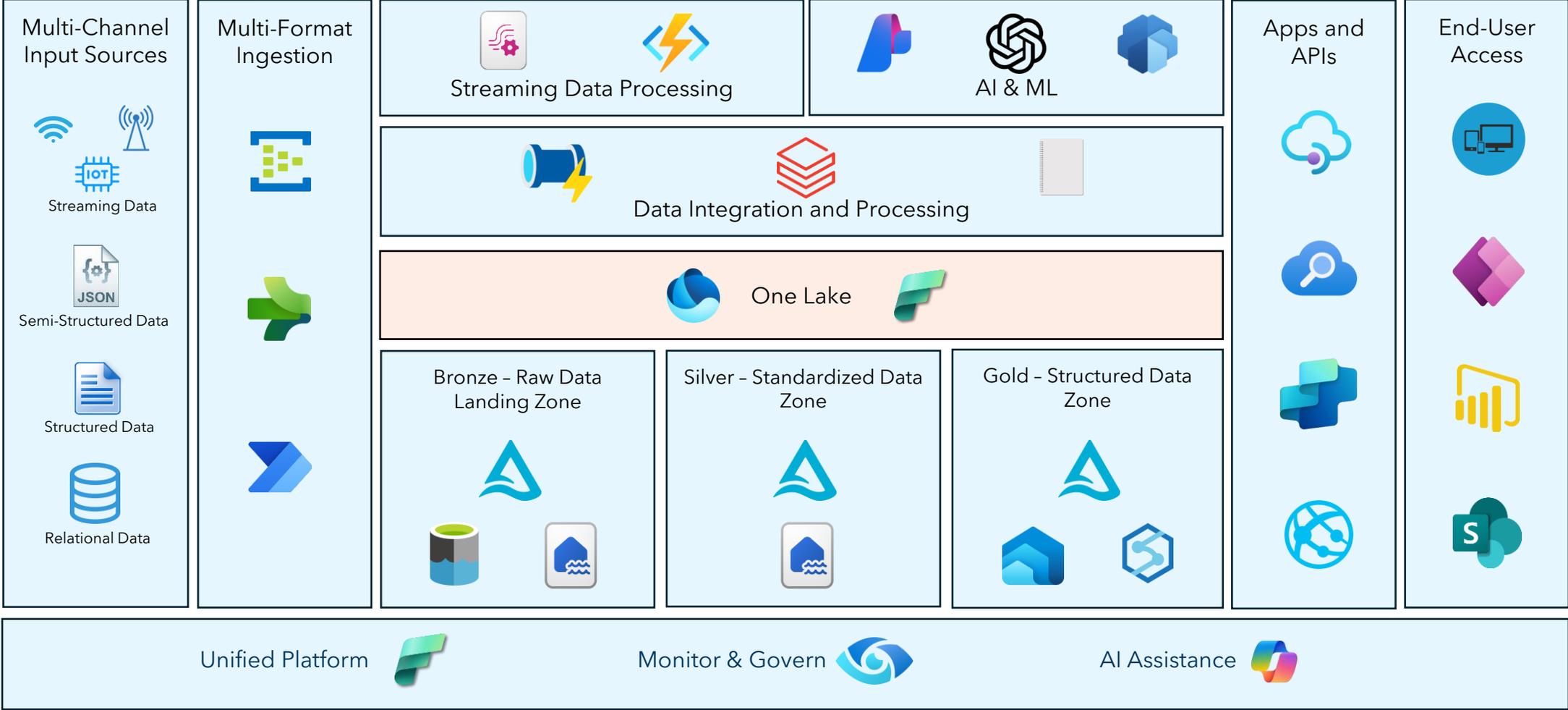
9. Regulatory Compliance & Risk Analytics

- Centralize risk-related data and ensure lineage, auditability, and reporting compliance.
- Enhance capabilities in areas like financial risk modeling or ESG tracking.

10. Data Productization & Data Sharing

- Treat data as a product with governance, discoverability, and reuse.
- Share curated datasets across teams or with external partners using OneLake and Microsoft Purview.

Azure AI Ready Data Platform Architecture - Fabric



Let's begin

launch

