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Manufacturing in focus

Accelerate AI Readiness with Microsoft Fabric

To stay competitive in an industry that's facing unprecedented challenges, such as global labor and skills shortages and rising production targets, manufacturers need a real-time overview of their systems. Yet only 23% of manufacturers have achieved more than a basic level of OT and IT convergence.

AI can help organizations optimize production, minimize cost and waste and meet customer demand. But taking advantage of AI in this way requires accurate information and effective data management – and 70% of manufacturers struggle to make operational data accessible for analysis.

This industry holds a goldmine of data. And unifying all structured and unstructured OT and IT data can keep manufacturers productive, precise and customer focused.

Break down silos across supply chains with Microsoft Fabric

Microsoft Fabric can transform the data landscape within your manufacturing business by bringing together your data and analytics tools on a single platform. While its generative AI capabilities make it easier for everyone to work with data and uncover its value.

With clearer insights from a stronger data foundation, your organization can successfully use AI tools to accelerate issue resolution, improve production performance and make superior products while reducing waste.

3x
reduction in data duplication, plus improved data quality, trust and ownership

50%
of the world's largest manufacturers work with Avanade

50%
increase in analytics efficiency and time-to-insight

85%
increase in productivity with Copilot-assisted development

A data-driven, agile approach is the key to unlocking and maintaining a prosperous, innovative future, particularly in manufacturing.
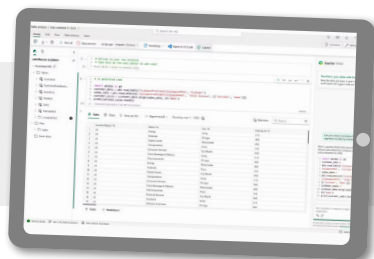
With Microsoft Fabric and Avanade, you can:

- Unify your teams
- Reduce complexity
- Improve the accuracy and speed of decisions
- Minimize costs
- Avoid data duplication
- Embrace low code / no code

- Integrate with Microsoft 365
- Create workspaces for different data domains
- Detect process anomalies and predict equipment failures
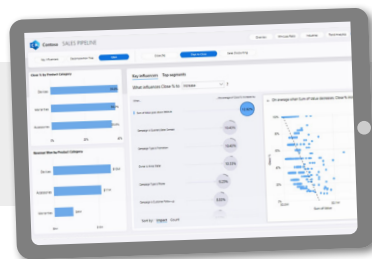- Identify inefficiencies and minimize costs

Do what matters

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Here are some ways that Microsoft Fabric can help you stay ahead in the AI era and deliver manufacturing excellence
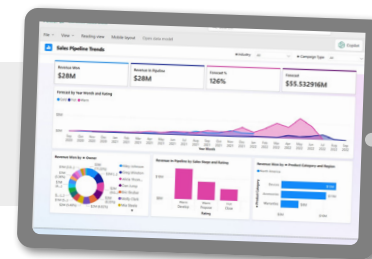
Align with market demands

With capabilities for demand forecasting, inventory and logistics optimization and supply chain design, teams can predict and align with supply constraints and identify optimal strategies. Access to factory and business data enables improved production performance to better meet fluctuating customer demand and drive cost-efficiencies across global plants.
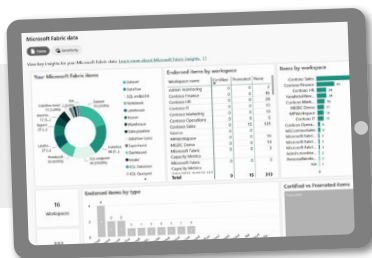
Improve workforce management and experience

Empower factory shift managers with real-time reports on global machine, production and plant performance and enhance collaboration across the business. Meanwhile, with skills gap analysis, management teams can pinpoint necessary training and recruitment opportunities.
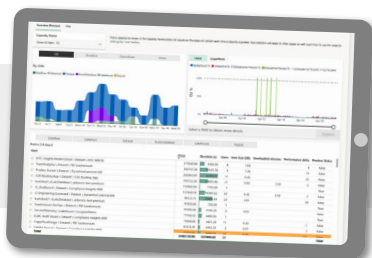
Make faster, more accurate operational decisions

Leveraging the power of unified data and AI, operational teams can balance scheduling and quality control, energy and carbon reduction, resource availability and other constraints through informed decision-making. Enable automated defect detection and troubleshooting, detect process anomalies and predict equipment failures to minimize downtime and maximize utilization.

Enable quicker time to insights

Operations, credit control and IT teams can build and operate real-time analytics, data lakes and tools without replication. It's a complete analytics platform, enabling every user with AI such as Copilot. And with Power BI natively built in, users can seamlessly go from data to AI-powered insights and stunning visuals embedded in Microsoft 365 apps.

Minimize costs

Your teams have all the tools they need in a unified data platform. Instead of paying for excess and untransferable capacity in each of several data analytics systems, Microsoft Fabric users purchase a single pool of computing to power all their Fabric workloads. Any capacity not needed for one workload can be consumed by others.

Discover how Avanade collaborated with a manufacturer to modernize its data management and democratize information access for factory workers with generative AI – boosting the business' performance.

Read the case study ⊙

Unlock the potential of your data and move forward in the AI era. Explore what Microsoft Fabric can do for your organization.

Discover more ⊙