Microsoft Power Platform PBILab

Power BI

Microsoft Power BI in Manufacturing

Discover new efficiencies with
data-driven analytics and insights

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Embracing the transforming manufacturing landscape

Digital transformation has created a wave of opportunity for manufacturing businesses. Industry leaders have embraced the new digital landscape with data-driven tools that deliver **increased productivity, resilience, and security** during a time of unprecedented uncertainty.

Competing on a global level requires a data-first strategy that unlocks powerful insights to capitalize on opportunity and elevate processes.

Challenges

Building a future-proof strategy for tomorrow

Empower frontline workers with intelligent tools to deliver fixes in a safe, secure, and compliant environment

Keep pace with change at every stage of the supply chain by optimizing processes for data-driven growth opportunities

Drive sustainable business initiatives by eliminating waste and delivering end-to-end value throughout the supply chain

Enhance engagement and seller performance with best-in-class solutions that help create loyal, lifetime customers

Implement autonomous and transparent supply chain processes to enable greater accuracy and control in demand forecasting

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Solutions

How Power BI can help

Transform your workforce

- Minimize downtime from the frontline
- Accelerate time-to-insight
- Uncover cost savings with greater visibility

Engage customers in new ways

- Generate upsell and cross-sell opportunities
- Improve customer service effectiveness
- Create accurate and personalized sales solutions

Build more agile factories

- React instantly to reduce scrap and re-work
- Drive greater productivity and innovation
- Deliver efficiency while addressing skill gaps

Create more resilient supply chains

- Optimize forecasts to reduce overstock
- Spot production problems before they occur
- Reduce costs by maintaining optimal stock and on-time delivery

Unlock innovation and deliver new services

- Improve process and product iteration through data insights
- Eliminate waste and improve sustainability
- Speed decisions with improved connectivity

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Transform your workforce

Reduce downtime from the frontline

Report on frontline processes with Power BI, quickly getting insights into the right hands with Teams. Leverage shared data to uncover insights and deliver strategic actions that reduce downtime and enable first-time fixes.

Accelerate time-to-insight

Provide remote workers with a secure and connected interface to diagnose issues on the go. Enable notifications for personal Power BI alerts that accelerate time-to-insight and boost productivity in the field.

Uncover cost savings with visibility

Eliminate intelligence bottlenecks with real-time access to value-driving insights. Dive deeper into reporting and know what's happening now with AI and IoT-enabled analytics helping you uncover cost-saving efficiencies.

Enhancing self-service reporting for data-driven decision making

"Power BI was more powerful on light ETL functionality and its usability than other tools, which helped win it over in the company."

Morten Hannibalsen Olsen,
Application Consultant
Grundfos

GRUNDFOS

Build more agile factories

Reduce scrap and re-work with predictive analytics

Revolutionize manufacturing with digital tools that leverage data to predict equipment failures and eliminate costly defects, helping employees reduce scrap and re-work while improving on future processes.

Drive greater productivity and innovation

Modernize factories with deeper AI and IoT insights in Power BI. Test novel production processes with digital twin models to discover new efficiencies in a low-risk environment and quickly share reports and dashboards with project stakeholders.

Close skill gaps to improve team efficiency

Address skills gaps with secure, data-driven decisions at every level of the organization. Analyze Power BI reports collaboratively in Teams while encouraging experienced workers to share insights with their peers for efficiency and operational gains.

Instilling a data-first mindset to uncover key information for critical business solutions

"[With] Power BI, no longer is it just that centralized IT or business intelligence team that's able to go in and produce some powerful insights, but now that's being democratized and users at all skill levels are able to go in and build out Power BI content to help grow and drive your analytics culture and drive your business."

Chris Wagner, Enterprise Architect
Rockwell Automation

Rockwell Automation

Create more resilient supply chains

Reduce overstock through optimized forecasts

Leverage a complete view of operations in Power BI to drive greater production efficiency. Visualize products at every stage with AI capabilities in Azure to identify customer trends and optimize forecasts for reduced overstock.

Identify production problems before they occur

Transform IoT data into actionable insights using Power BI and Dynamics 365 to connect, combine, and analyze insights direct from the production line and alert employees of potential problems before they occur.

Save money by maintaining optimal stock levels

Provide products just-in-time with minimal disruption using real-time analytics in Power BI. Visualize inventory levels, forecast backorder costs, and leverage underutilized suppliers to maintain optimal stock levels and on-time delivery.

Driving data insights across all levels of the organization

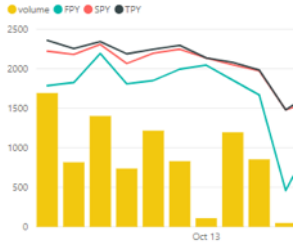
"Power BI has proven itself as being a very powerful tool. It's easier for top managers to use the reports and has helped our company to become more data-driven."

Mathias Johansson, CIO
Sandvik Coromant

SANDVIK Coromant

Explore Power BI reporting and dashboards

Start with pre-built data stories and customize to acquire key value insights for your company

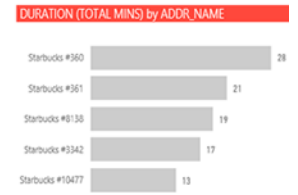


Equipment testing and QA analysis

Help electronics and electromechanics equipment manufacturers analyze data from tests and quality checks to derive insights and take proactive actions that reduce costs associated with internal inefficiencies and warranty claims.

Manufacturing operations dashboard

Spend more time delivering value instead of building complex projects. Give your operations and accounts teams the ability to centrally analyze general ledger, procurement, order fulfillment, and deliveries of manufactured goods.



Supply chain and remote resource management with IoT analytics

Run your manufacturing business more efficiently by analyzing ERP data collected with Dynamics NAV or Dynamics AX, such as production costs, capacity, output, and bill-of-materials impacts.

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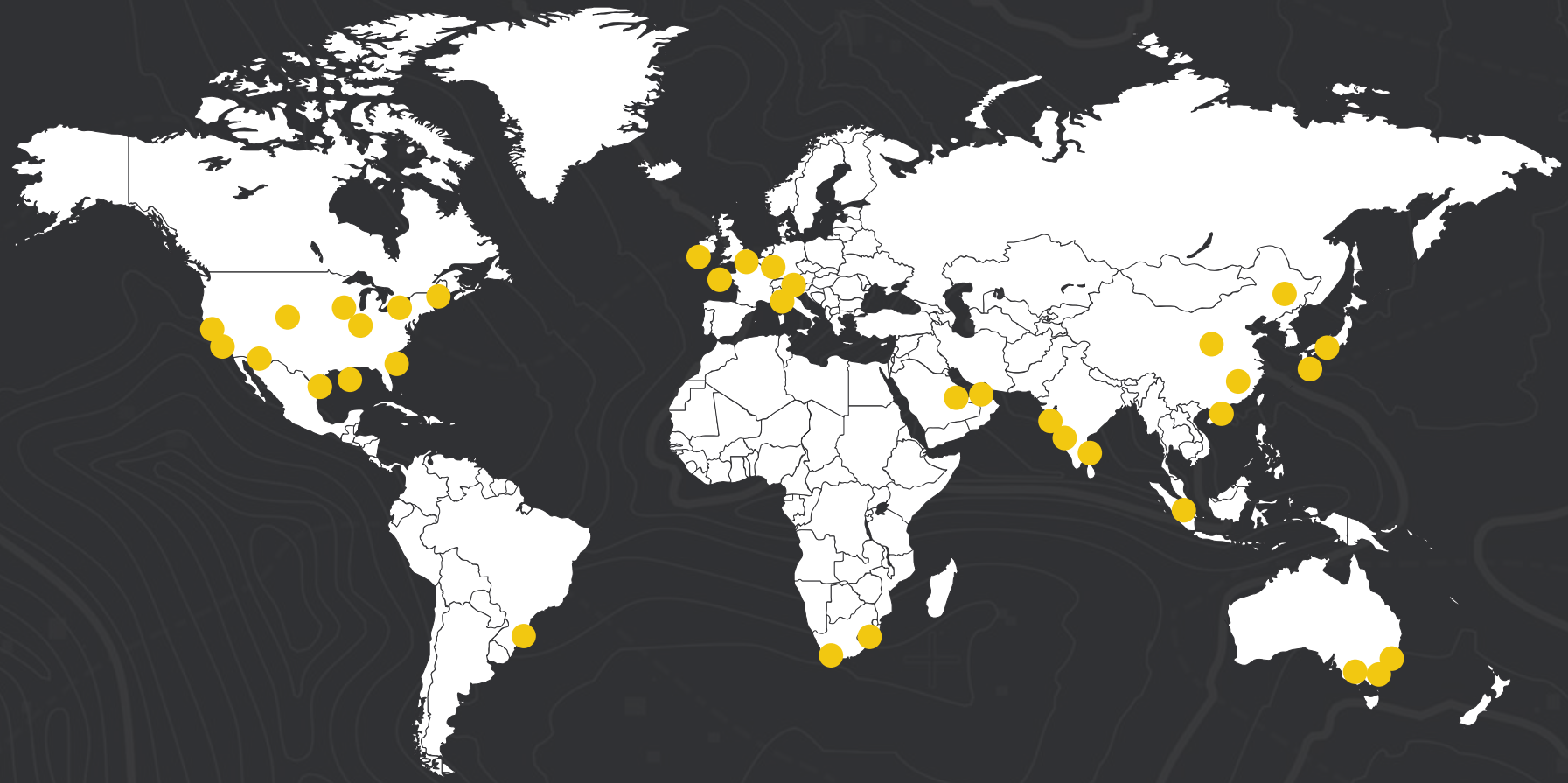
Secure

Better protect Power BI data with Microsoft Information Protection and Microsoft Cloud App Security, one of the most trusted choices in the world.



44 Languages

40 Primary and backup datacenters worldwide

National Clouds US Government, China & Germany

ISO 27001 Certified · China GB 18030 · HIPAA · PCI Security Standards Council · European Commission · CSA cloud security alliance® · FedRAMP · irap® · Bundesamt für Sicherheit in der Informationstechnik · W3C® (WCAG) 2.1

5 ways

to transform your manufacturing processes with analytics and insights

Transform your workforce

Enable workers to deliver fixes in a safe, secure and compliant environment.

Engage customers in new ways

Build lasting relationships with a 360-degree view of customers.

Unlock innovation and deliver new services

Reduce time-to-market with faster iteration, validation and product delivery.

Create more resilient supply chains

Optimize the supply chain with powerful insights that facilitate innovation.

Build more agile factories

Enhance safety and productivity with smart and powerful insights at every level.

Learn more ›

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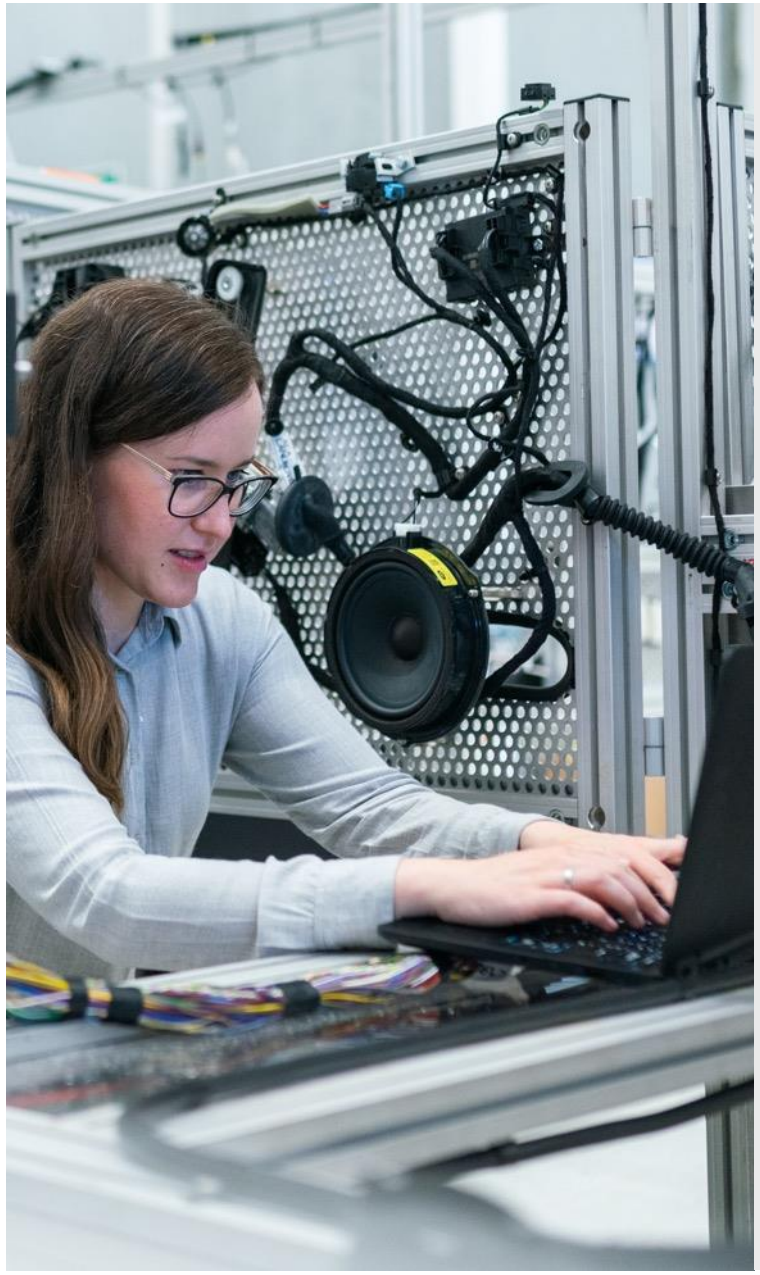

Get Started with Power BI

Create a data-driven culture throughout your organization with collaborative and interactive data visualizations.

Try for Free

Walk through the extensive and powerful capabilities of Power BI with self-paced courses for every level.

Start Learning

Learn how Microsoft is empowering transformation in the manufacturing industry.

Explore Manufacturing Solutions

Connect, learn and discuss best practices with business intelligence experts from a variety of industries.

Join the Community

Register for upcoming live webinar events and watch recorded sessions on-demand.

Watch Webinars

Take your data to the next level with the best tips and tricks from our Power BI experts.

Get the Latest Insights

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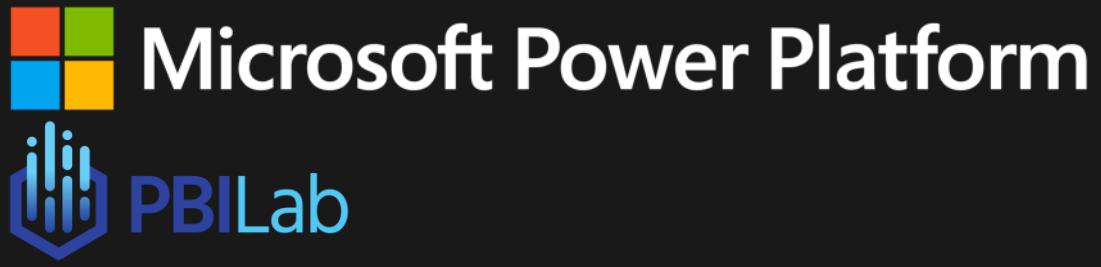

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