BOSCH
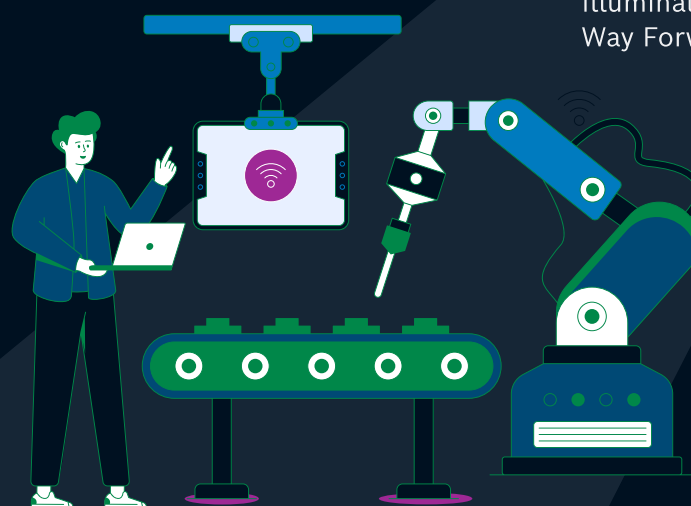
Lighthouse Factories: Illuminating the Way Forward

Building the Future Factory, Sustainably and Profitably

Bosch's expertise in Industrial Technology meets AWS Cloud Computing leadership

Software Digital Solutions

What Makes a Lighthouse Factory?

- Advanced technology integration
- Sustainability (ESG)
- Efficient operations
- Talent development

Bosch leads this transformation with two recognized Global Lighthouse facilities

Wuxi, China (2018)
Suzhou, China (2021)

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aws

AWS Cloud's has been instrumental in Lighthouse success:

- Real-time Data Processing
- Continuous Monitoring
- Carbon Footprint Tracking

Accelerators for Sustainability

Sustainability Framework

The Carbon-Neutral Achievement

AI-Powered Efficiency Gains

BOSCH
aws

A Powerful Duo for Sustainable Transformation:

Bosch's Manufacturing DNA ➕ AWS Cloud Scale

Real-World Impact	The Profitability Promise	Manufacturing Network Advantage

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The Future Factory Ecosystem
Technology Integration

IoT Sensors
Real-time data collection from manufacturing equipment

AI Analytics
Predictive maintenance and quality optimization

Cloud Computing
Scalable processing and storage capabilities

Digital Twins
Virtual factory modeling for optimization

Steps Towards The Future Factory

15% Cycle time reduction

- Sustainability drives profitability
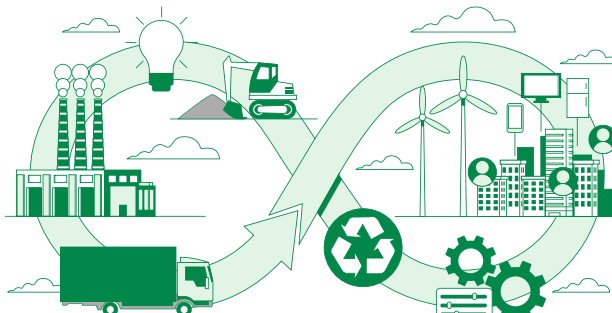- AI + Cloud = Manufacturing Transformation
- The lighthouse effect is scalable

Sustainable Management

Carbon Accounting
Automated ESG reporting and compliance

Circular economy
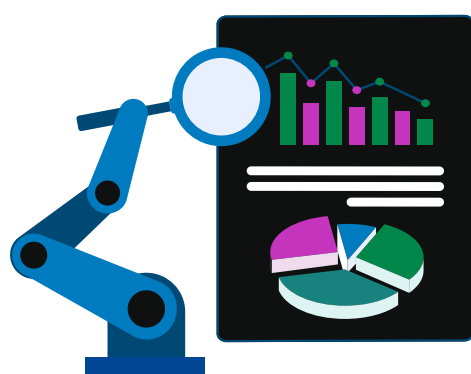Sustainability principles in action

Resource & Utility Optimization
Smart grid integration and renewable energy optimization

Bosch Deepsights
The AI Analytics Powerhouse

A digital suite that targets
- Energy
- Sustainability
- Utility conservation

enables

- Enterprise wide accountability, transparency

promotes

- Sustainable value creation