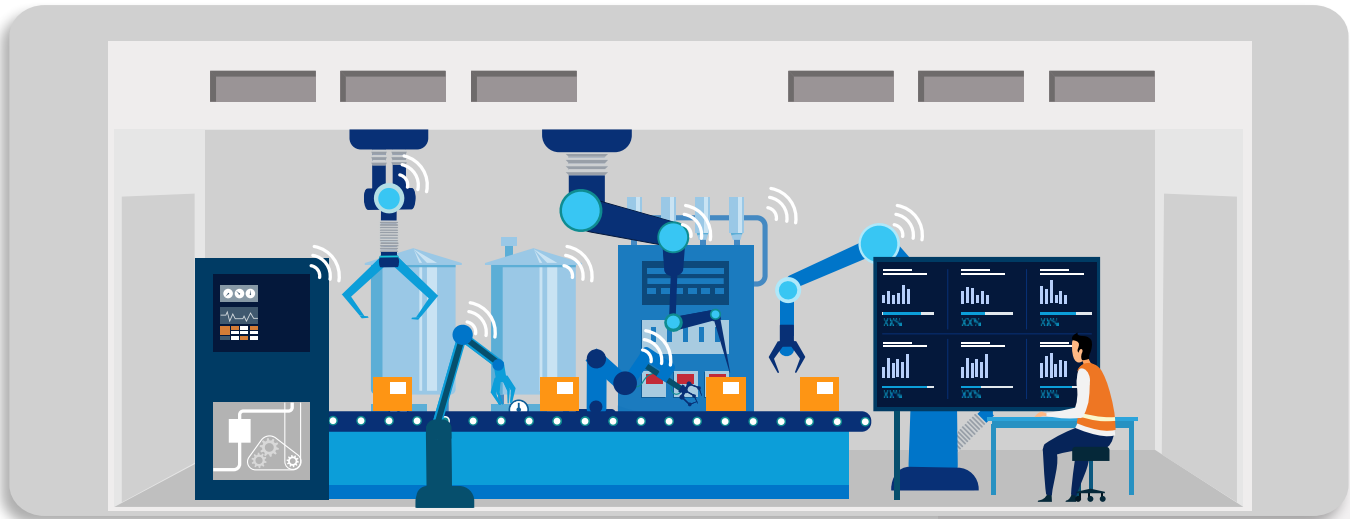


Edge-enabled predictive maintenance

Leading manufacturers leverage AI/ML in combination with edge computing and sensors to support predictive maintenance workflows—preempting potential equipment failures and avoiding costly downtime.



How predictive maintenance works

- 1 Plant equipment such as motors and pumps with external or OEM sensors installed (e.g., heat, vibration) transmit data to on-premises edge solution
- 2 On-premises edge cloud solution collects, normalizes and analyzes data from connected assets
- 3 Factory employees are sent an updated maintenance schedule optimized to prevent machine failures
- 4 Plant equipment data is periodically sent to the public cloud to improve predictive ML models and analytics

Potential benefits

Saving on equipment repair costs up to

▶ **10-30%**¹

Reducing MRO parts kept in inventory by up to

▶ **10%**¹

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¹McKinsey manufacturing expert interviews, January 2022

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