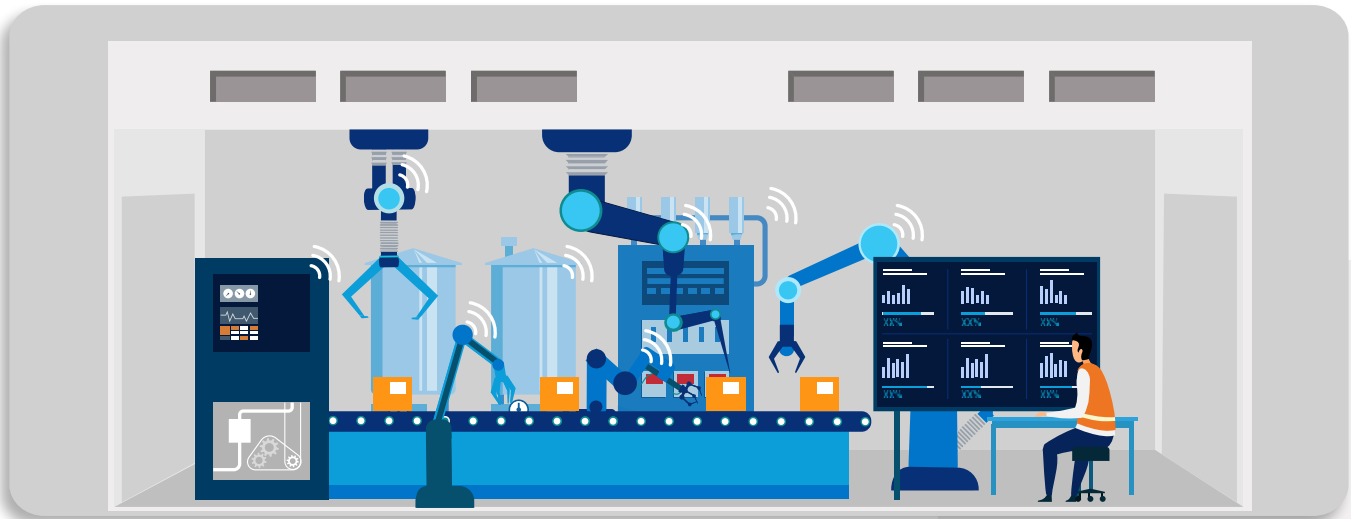# Edge-enabled predictive maintenance

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 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%***

Reducing MRO parts kept in inventory by up to

▶ **10%***

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* McKinsey expert interviews, January 2022

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