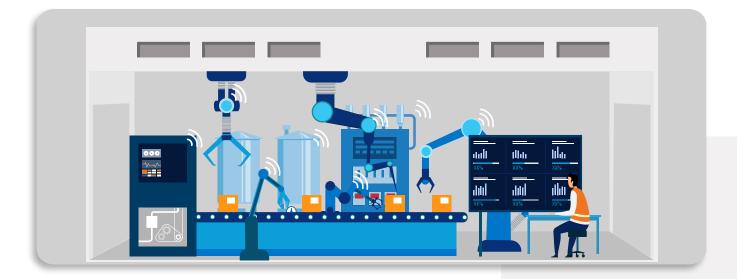
## **Edge-enabled real-time process control**

Industry leaders leverage edge to monitor high-precision manufacturing processes and make automatic adjustments in real time, avoiding the significant yield loss and reduced product quality caused by aberrations in assembly.



## How real-time process control works

Mechanical and electrical signals are continuously streamed from high-precision IoT sensors, process data, environmental data and other data sources

Data is sent to the edge solution to perform advanced analytics and keep the optimal value for different process control variables

Operational system receives optimized process control variables, adjusting parameters in real time to maximize yield and product quality

Sensor data and results of analyses are periodically transmitted to the public cloud and used to improve inference models

## **Potential benefits**

Boosting yield by an average of



Improving product quality by



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<sup>1</sup>McKinsey manufacturing expert interviews, January 2022

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