



# Future of Automation Siemens Industrial Edge

Unrestricted

[www.siemens.com/industrial-edge](http://www.siemens.com/industrial-edge)

# Future of Automation

*...Siemens vision of future manufacturing processes based on key technology elements e.g. Edge Computing*

*Products and technology part of Future of Automation are not yet available for buying, but will be part of our portfolio in the future.*

# What is Edge Computing?

Edge Computing combines both local and cloud computing

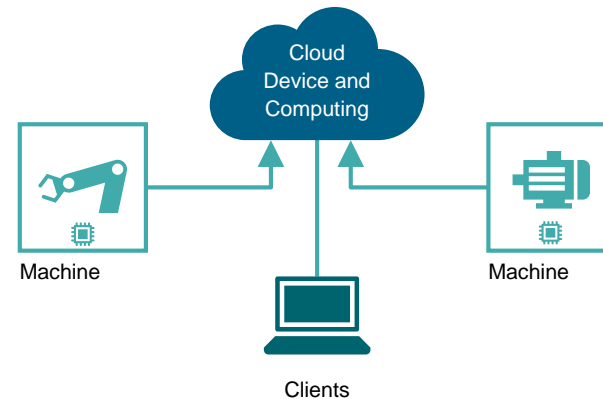
## Local computing



Device Installed once – never or seldom updated

- Data transferred per USB stick or local network

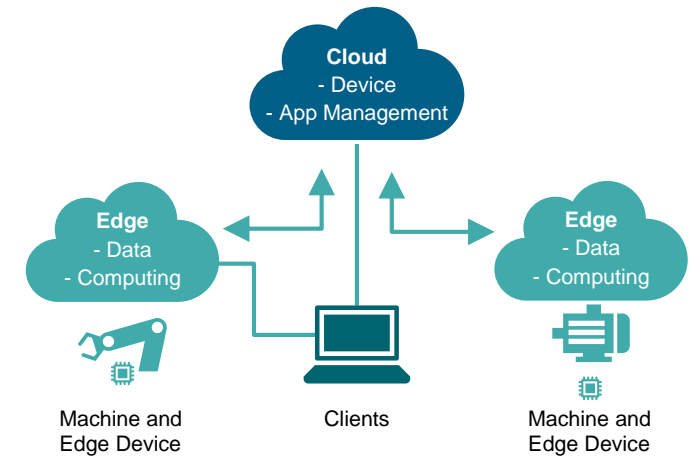
## Cloud computing



App installation & deployment on-demand

- Central data and global intelligence
- Quick updates in the cloud
- Low frequency data/high latency of decisions
- Cloud dependency

## Edge computing



App installation & deployment on-demand

- Local data and global data (if wanted)
- Shift from global to local intelligence
- Quick software update cycles for edge devices
- High volume data and low latency decisions

# Siemens Industrial Edge

Enhanced shop floor functionality with full data control



## Edge Management

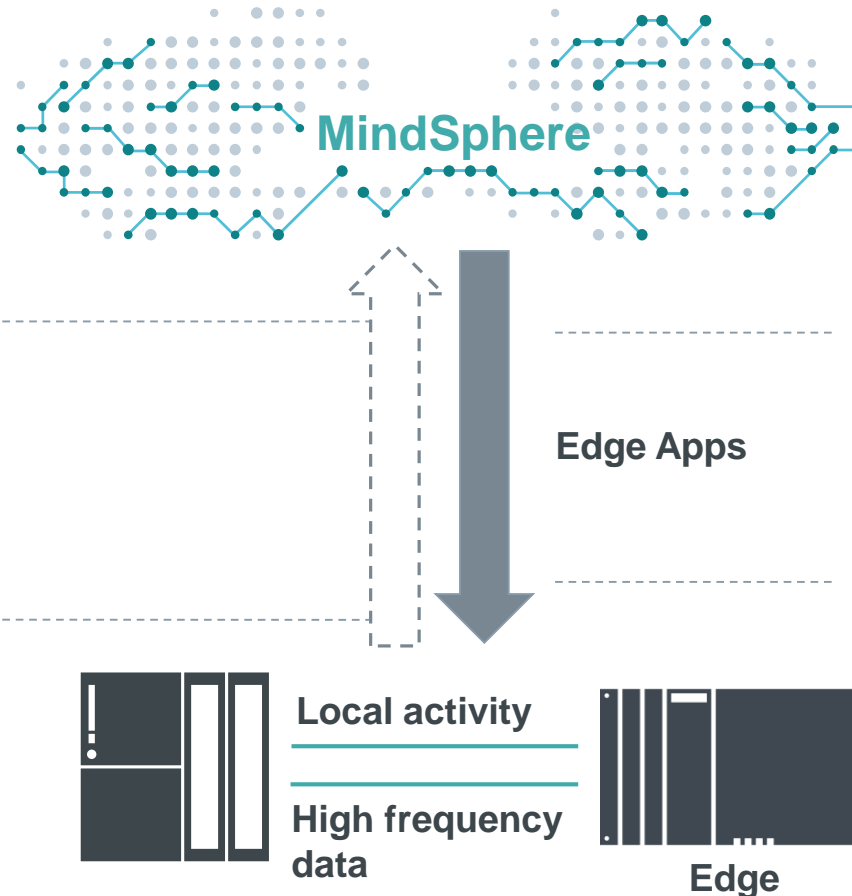
- Device Management
- Edge-App-Management
- Edge-App-Store

## Edge Apps

Siemens-, Partner (OEM)-, 3<sup>rd</sup>-party- and own developed Edge-Apps

## Edge-Devices

Secure and decoupled edge runtime infrastructure for edge apps



## Application Examples:

### Workpiece Analytics App for machine tool system

Intelligent workpiece analysis based on its digital twin

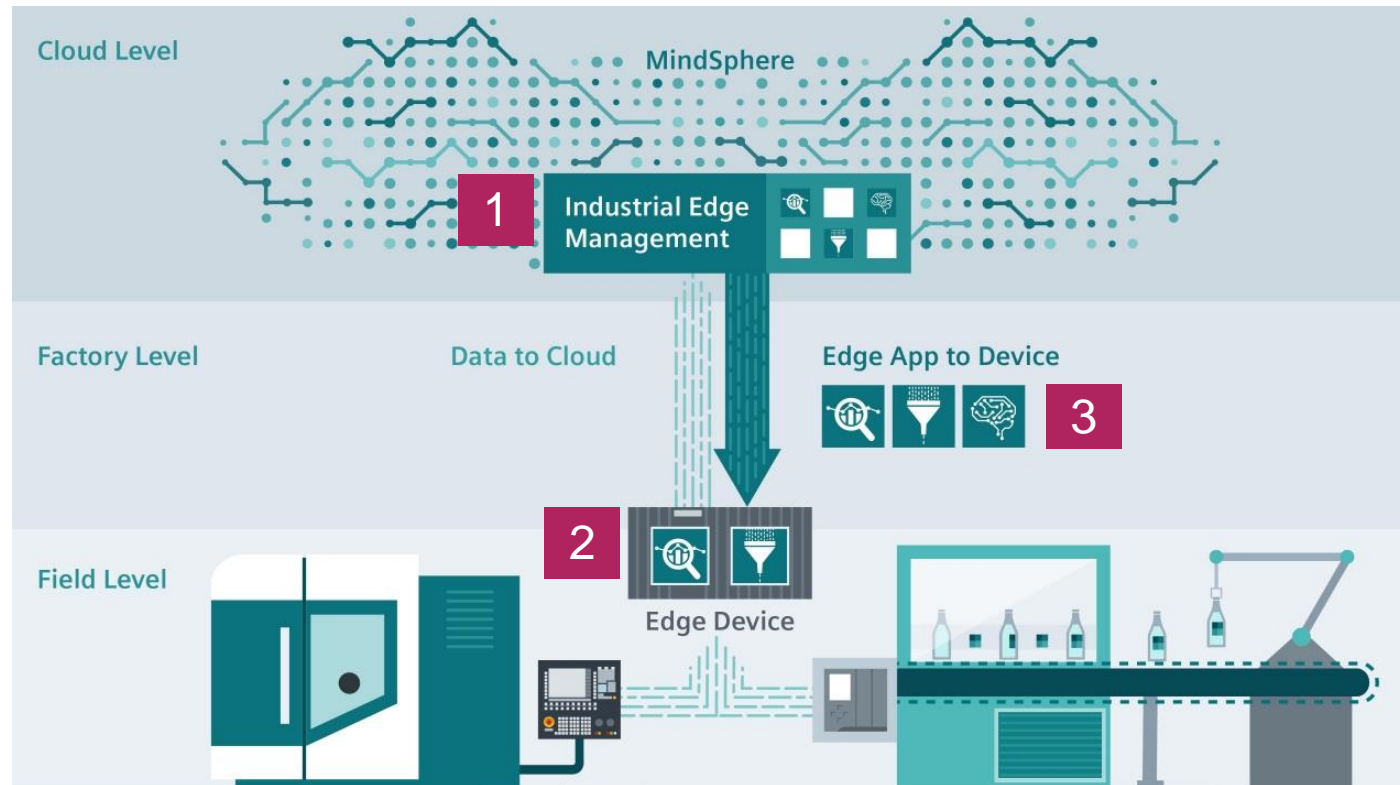
### Inventory App

Inventory listing of connected automation components

### Benefits

- Converting big data to smart data
- Enhanced data analysis in the shopfloor
- Full data control

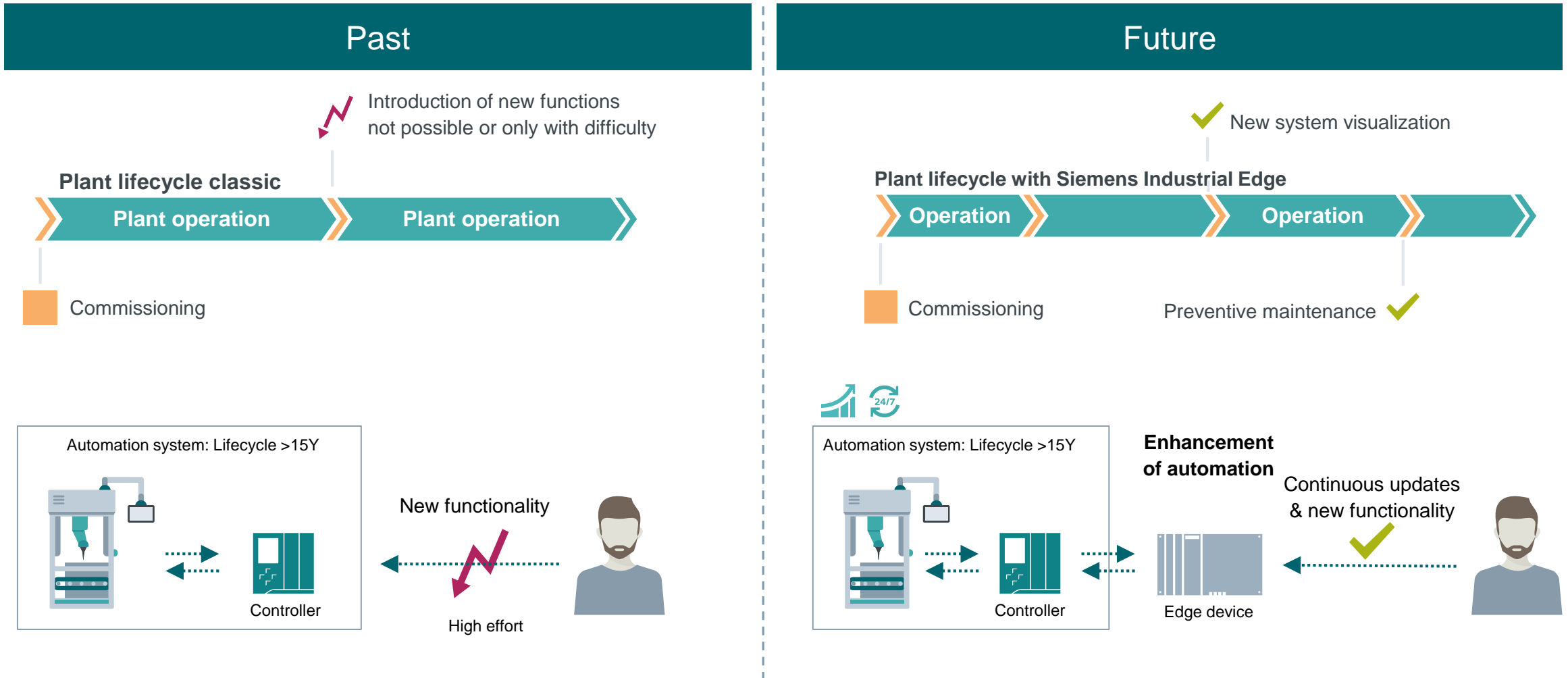
# Siemens Industrial Edge Concept Overview



- 1 Edge Management**  
Central infrastructure to manage Edge devices
- 2 Edge Devices**  
Secure, future-proof basis for running Industrial Edge applications
- 3 Edge Apps**  
Applications for intelligent data use

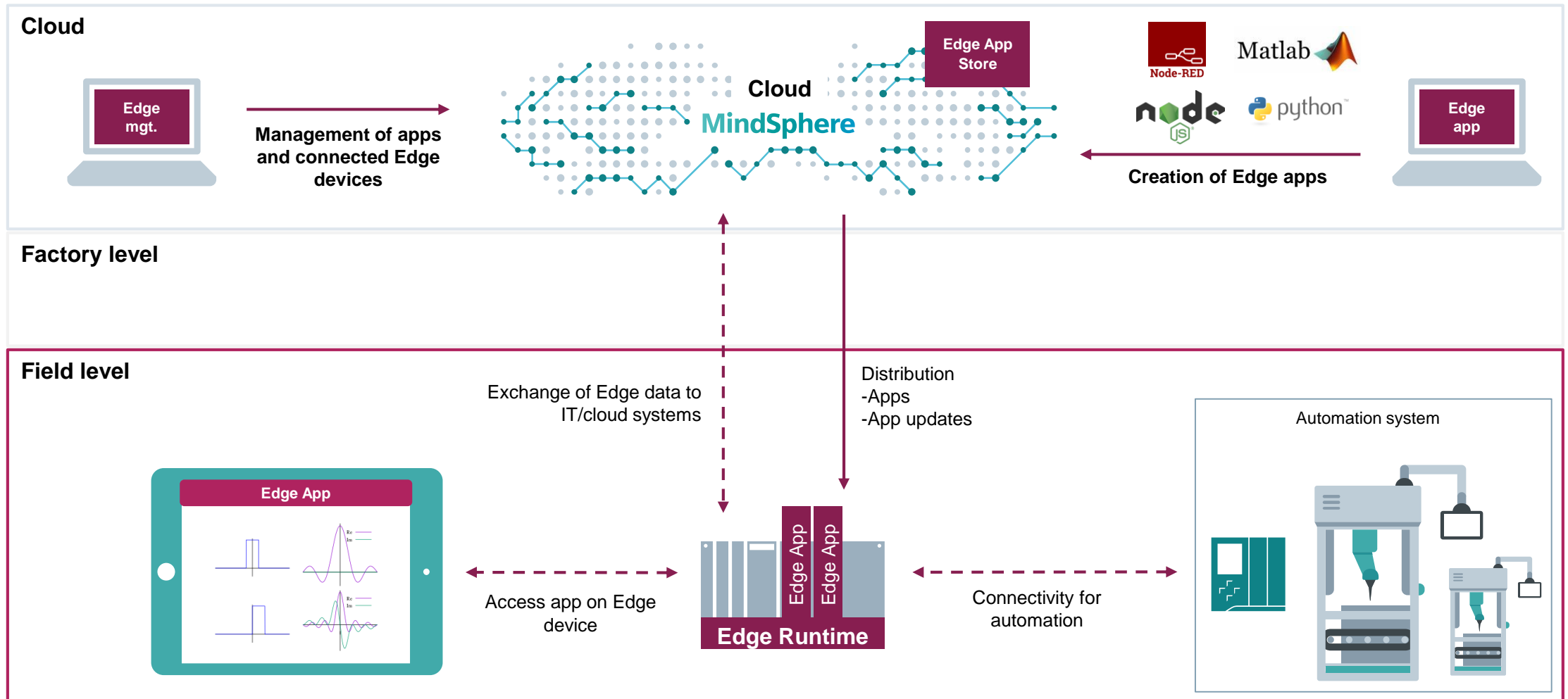
# Siemens Industrial Edge - Example Application

## Increasing flexibility of plant with continuous functional updates



# How it works...

## Reaction-free updating of functions with Siemens Industrial Edge



# Using the best of the Cloud securely in manufacturing with Siemens Industrial Edge

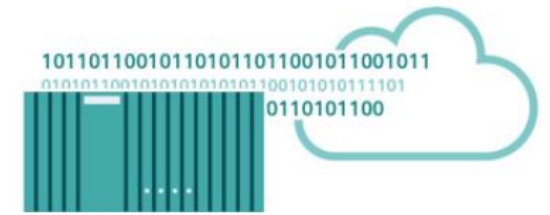
**SIEMENS**  
*Ingenuity for life*



**Analysis in close to real time**



**Always up-to-date**



**Connectivity to your IT system**



**Plug-and-play connectivity with automation systems**



**Innovative solution to suit your requirements**



**Intelligent data pre-processing**



# Siemens Industrial Edge Info Material

## Siemens Industrial Edge Podcast - Hannover Fair 2018

- DE: <https://www.youtube.com/watch?v=FIHlt8sNk34>
- EN: <https://www.youtube.com/watch?v=lrKtTg0To-A>

## Website

[www.siemens.com/industrial-edge](http://www.siemens.com/industrial-edge)

# Thank you for your attention

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