



# ABB Ability™ Edgenius Operations Data Manager

Connect and compute at the point of production



- Speeds up decisions
- Lets your real-time control do its job
- Enables smart, data-driven analytics



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**To release the full potential of your operational data, you need an edge. ABB Ability™ Edgenius offers you that edge - it connects and computes at the point of production. With Distributed Control System market leadership, deep domain expertise and automation experience, Edgenius helps you use data to make asset, process and risk improvements in your plant operations.**

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# Transforming data into business value

In today's global marketplace, industrial plants are under pressure to deliver continuous operational efficiency improvements. Data-driven knowledge is an essential part of delivering these improvements.

Industrial producers use thousands of connected devices and hundreds of systems and applications in their operational technology (OT). Operational decision makers end up managing large volumes of data with no way to visualize and analyze it quickly. That means vast amounts of data – with the potential to deliver operational improvements – go unused.

This is why we developed ABB Ability™ Edgenius, a scalable edge and cloud solution that releases the full potential of your operations data.

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## State of data utilization



**75%\***

of data will be processed  
at the edge by 2025

**45%+**

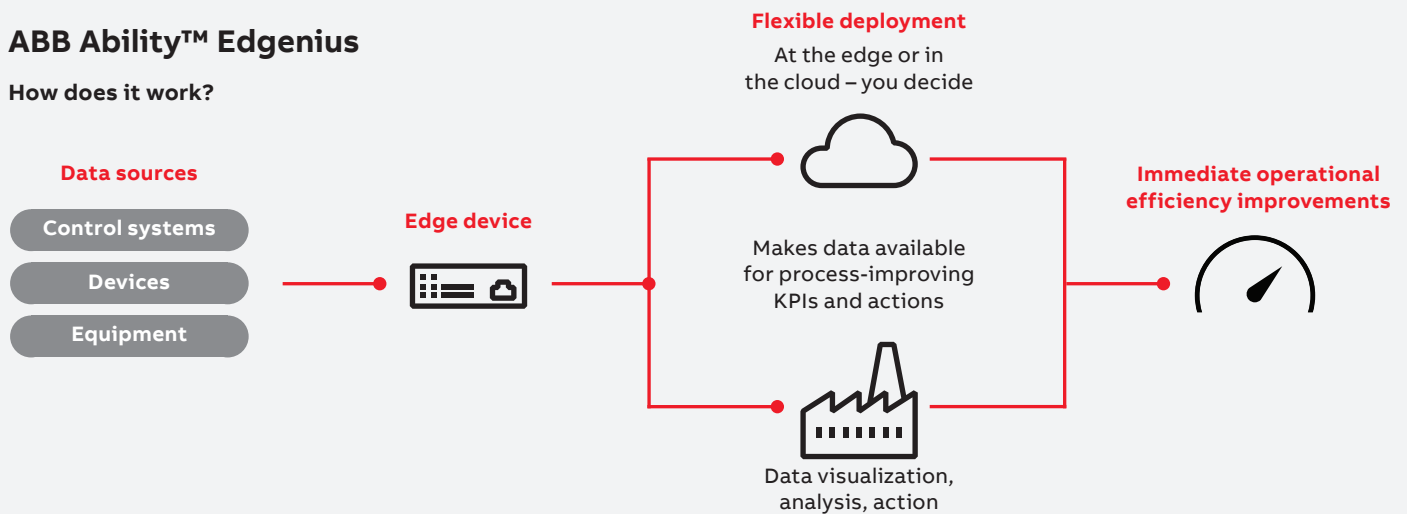
of the data created by  
IoT devices will be  
stored, processed,  
analyzed and acted on  
at the edge in 2020

# What is it?

ABB Ability™ Edgenius is the digital enabler for automation offerings, either hosted on the edge or in the cloud. You decide. Edgenius connects, collects and computes data from a large number of systems and devices. You can realize increased insights and performance through advanced applications utilizing Edgenius. You subscribe to the applications as required by your operation, and manage and deploy your applications using intuitive self-service tools.

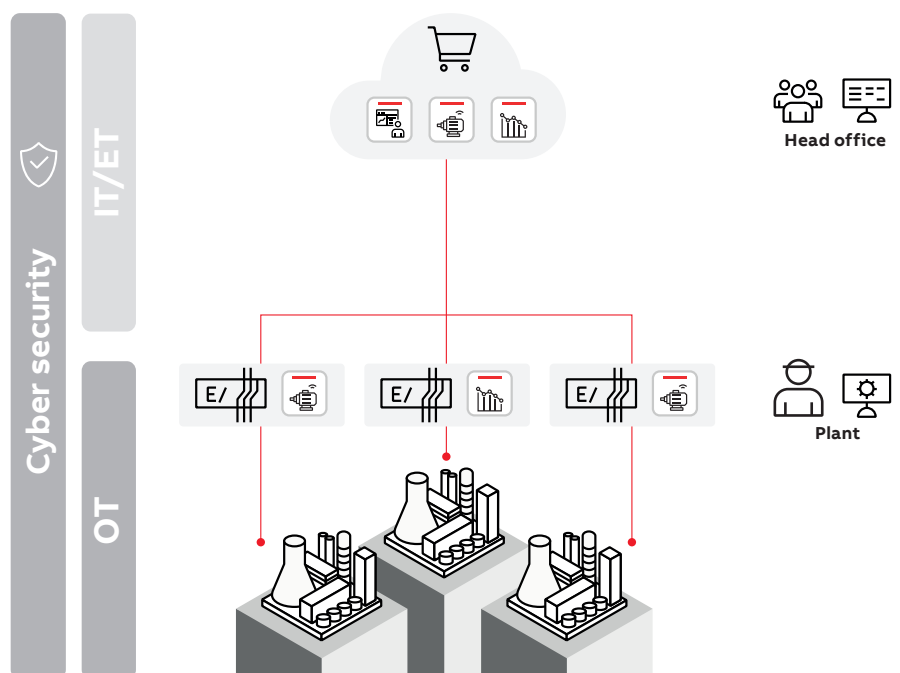
## ABB Ability™ Edgenius

How does it work?



# How it works

- Bridges the OT and IT efficiently to connect and compute data from control systems and smart devices to edge and cloud applications. Delivers more value from real-time data by applying it to other meaningful uses
- Provides reliable and safe operations - No interference with process control, low latency and built-in cyber security. Protects your existing investment in ABB control systems
- Drives smart, real-time performance and enterprise visualization and analytics through powerful edge computing. Edgenius applications can also run at the point of production





## Easy to deploy and connect



Edgenius is easy to deploy and simplifies complex data connectivity. Self-service solutions allow for easy deployment of edge nodes and applications across the entire enterprise.

Edgenius is managed from the cloud using the **Edgenius Management Portal**. This is a comprehensive self-service tool for administration, configuration and diagnostics of Edgenius capabilities and applications, as well as remote monitoring of the fleet of Edgenius hardware nodes. One central Management Portal manages the fleet of edge nodes and applications across the enterprise.

### **ABB Smart Information Model – connects anything, always in the right context**

ABB control systems are normally large with 50,000-100,000 connected assets. Edgenius protects this investment – a simple press on one button will share the ABB Smart Information Model to the edge or cloud. This means that you can carry out analytics in a paper machine context, create a report in a batch reactor context or apply optimization algorithms in a PID loop context. In other words, you add value with digital solutions into your OT context across systems in the enterprise.

Edgenius provides OT connectivity to ABB System 800xA and Symphony Plus control systems with automatic mapping to the ABB Smart Information Model. It also offers a general OPC UA connectivity tool for OPC compatible systems and devices. Edgenius supports industrial protocols such as OPC UA and ModBus TCP that make it a general IIoT connector to the edge for other manufacturer's smart devices and systems.

### **Easy and agile deployment of industry-specific Edgenius application solutions**

Application deployment offers flexibility: on the edge or in the cloud, enabling customers to optimize investment, reduce risks and address regulatory and security concerns.

Software as a service (SaaS) applications are available for a range of industry-specific solutions through the ABB Marketplace e-commerce platform. Here you can purchase, manage and deploy applications for your operations. All applications are centrally hosted and delivered, via the cloud, to a fleet of edge hardware nodes. These are installed on-premise and connected to the OT layer of systems and devices.

## Your data. Our concern

Edgenius is built on ABB's high cyber security standards and robust privacy policy, providing constant security at all levels.

### Security at all levels. As always

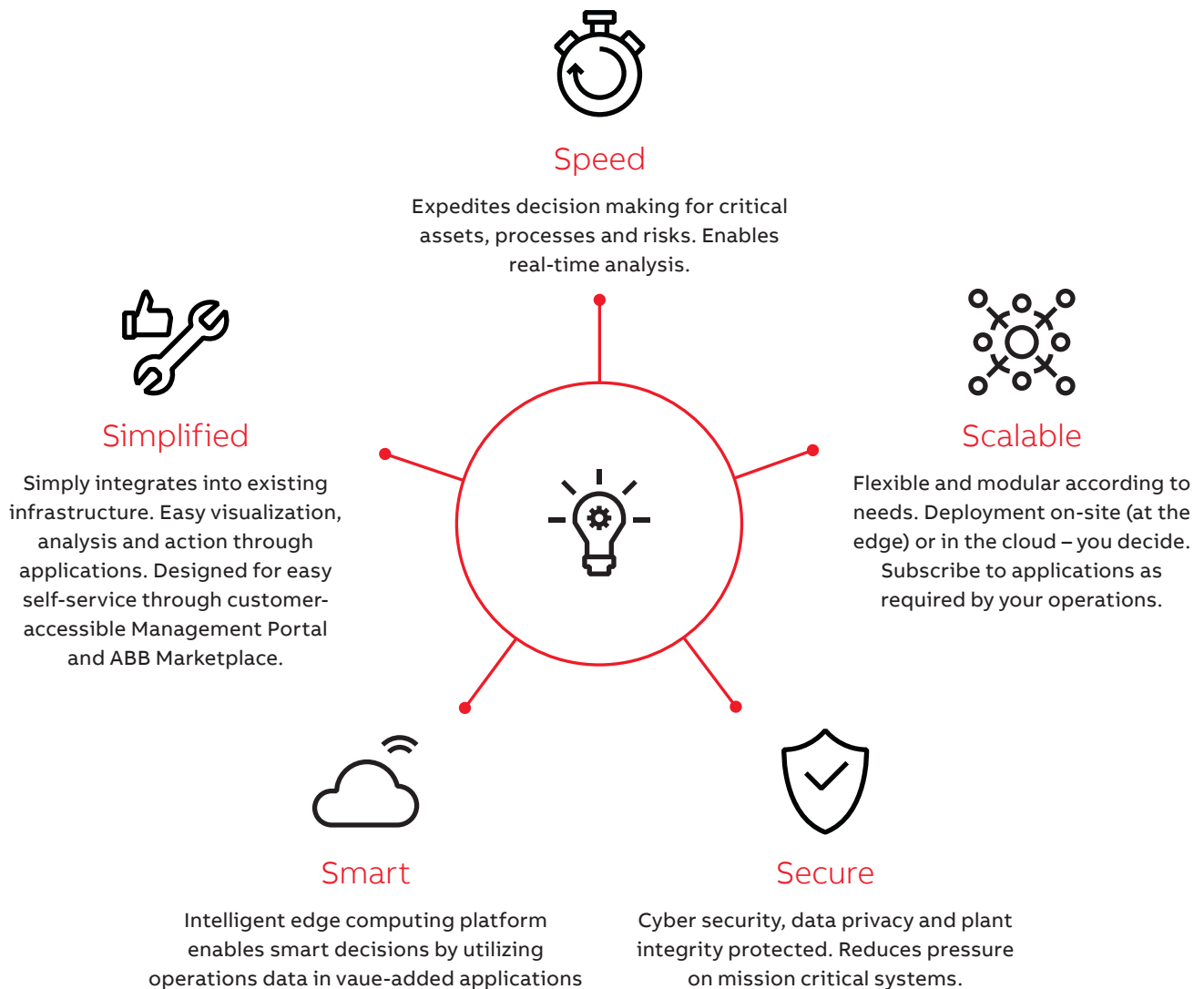
- Robust protection from cyber infiltration and unauthorized access
- Plant integrity and confidentiality through inherent security features
- Improves products compliant with the latest cyber security standards

### Privacy of your data. Extremely important

- Your data remains yours
- You know what we do with your data
- We will not disclose your data without your consent

## Edgenius delivers operational improvement

With Edgenius, you'll find the edge you need to optimize overall equipment effectiveness for immediate productivity and efficiency.





# How will Edgenius help you?

How will Edgenius help you to connect and compute at the point of production?  
Speak with ABB now to learn more.



**1. Have you defined your cloud and edge strategy for managing your operations data from plant to region to enterprise?**

☐ Yes ☐ No ☐ Not sure

**2. Are you getting full value from your operations data now to improve plant productivity?**

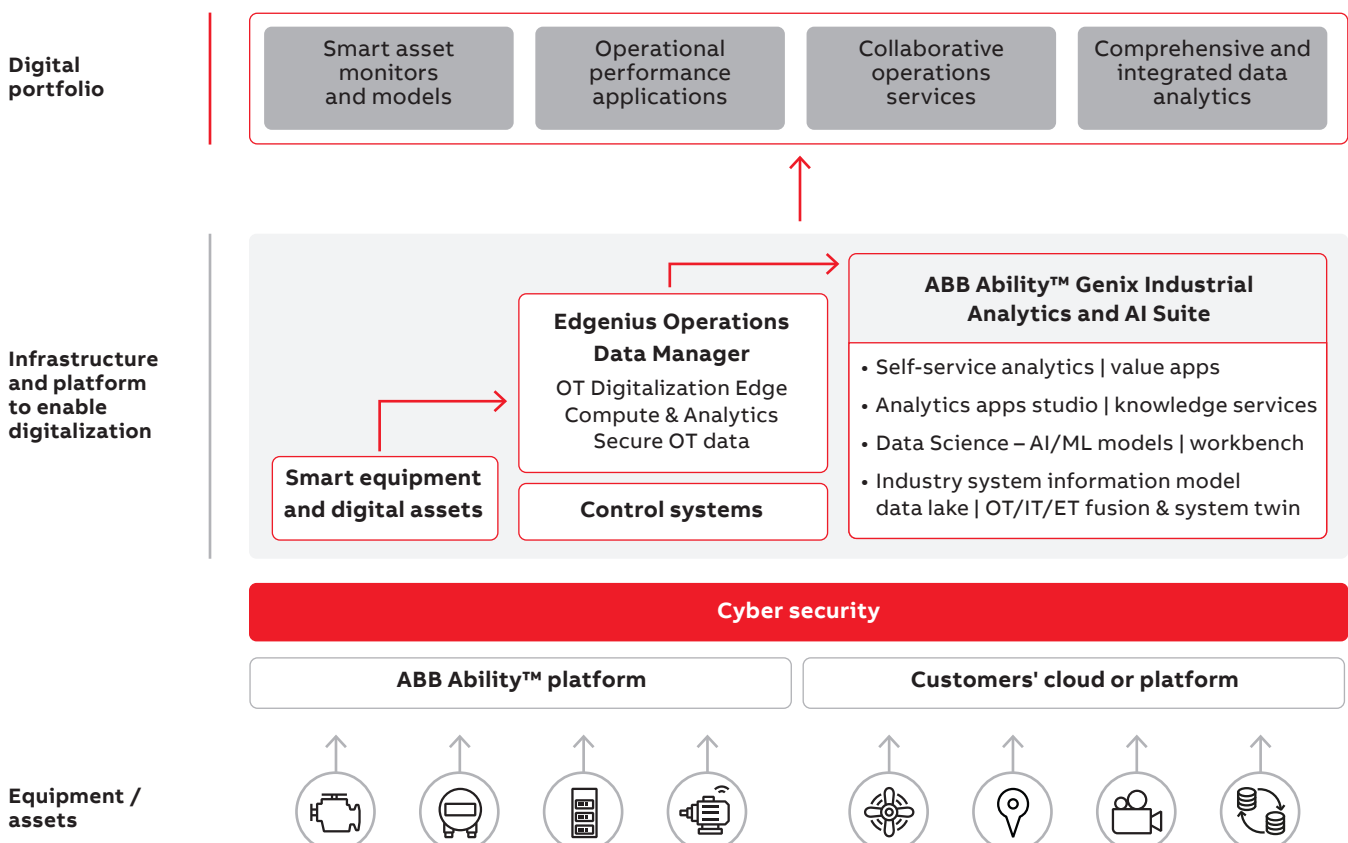
☐ Yes ☐ No ☐ Not sure

**3. Would you like to learn about new ways of using your operations data – for example Mobile Operations or Asset Monitoring?**

☐ Yes ☐ No ☐ Not sure

## The bigger picture

As Edgenius is part of Genix, you can scale for strategic enterprise value. ABB Ability™ Genix brings together data, technology and digital capability to build rapidly deployable analytics and artificial intelligence / machine learning applications. These allow you to boost productivity, reduce costs and improve sustainability and safety compliance.





**You can find the address of your local sales organization  
on the ABB homepage**



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**[solutions.abb/edgenius](https://solutions.abb/edgenius)**

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