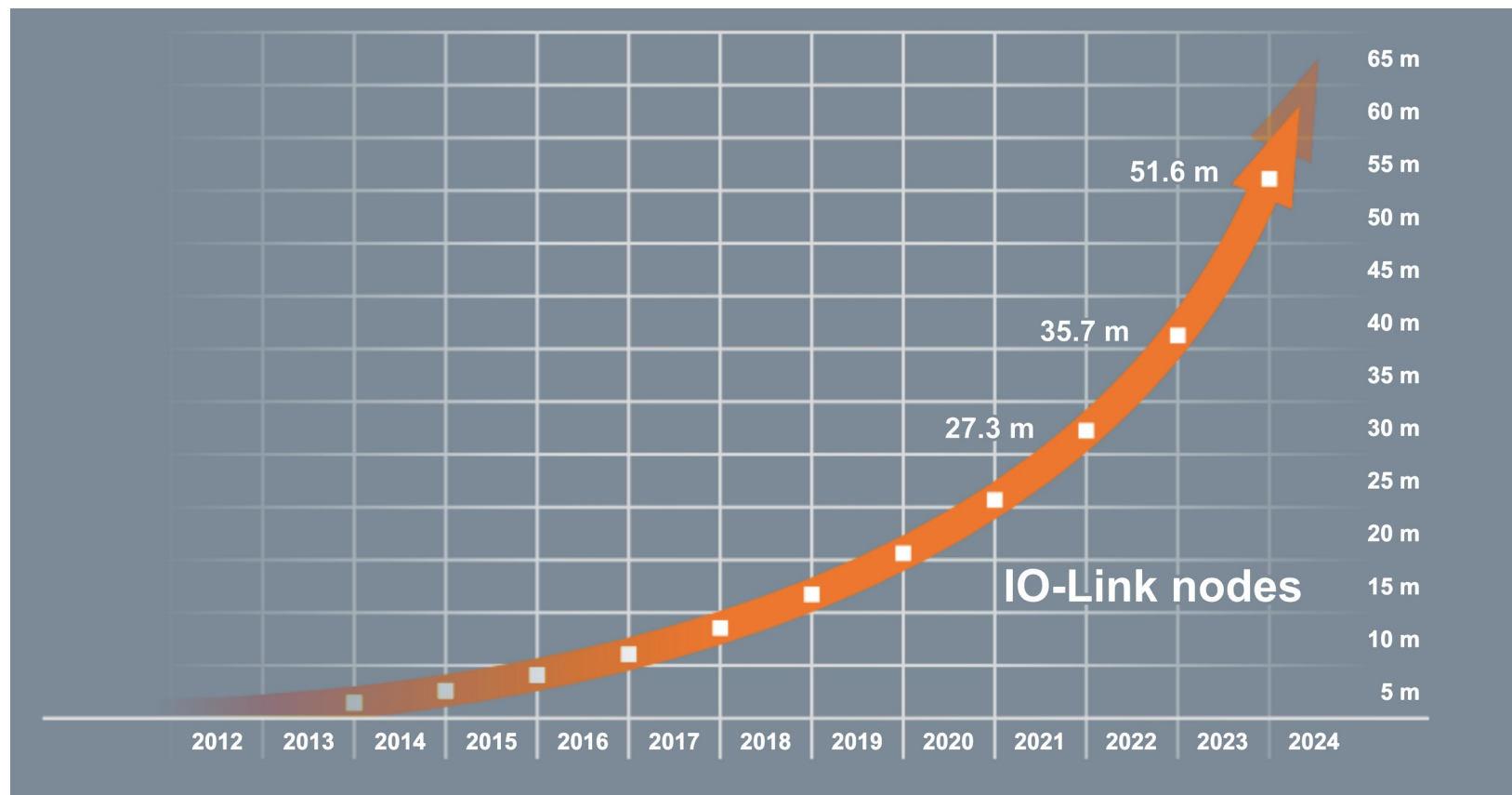roundSolutions
FOR A WIRELESS WORLD

CUMULOCITY

Round Solutions + Cumulocity
For Irish Rail

GET STARTED >

IO-LINK BUILT TO SCALE SENSORS

The IO-Link communications protocol has grown tenfold over the last decade from 5 million installed nodes to more than 50 million installed nodes for many reasons.

Reduced complexity
Scalable technology, from simple binary on/off devices up to smart IO-Link-enabled sensors, provides complete process transparency that quickly integrates into existing controls architecture.

Minimal changes
Replacing analog communication requires few changes to controls architecture. And each device can be connected using standard 3-wire unshielded cabling.

Improved product quality
The 100% digital signal is more accurate and reliable than an analog signal. Processes are more repeatable. Predictive information from sensors provides continuous instrument verification.

Increased efficiency
Bidirectional communication between the process instruments and the controller allows for reduced cycle times for recipe changes.

FROM SENSOR TO CLOUD IN MINUTES: PLUG & PLAY WITH IO-GATE

IO-GATE summary of features

Hardware

- IO-Link & analog sensors
- Camera option
- Digital IOs
- Wireless LTE -> 5G
- Positioning
- IP65+

+Firmware

- **U-Boot** – Bootloader optimized for fast, reliable startup

- **Custom Debian Kernel** – Tailored build for performance and hardware compatibility

- **IO-Link** – Seamless industrial sensor integration

- **Highest Security** – Hardened OS and communication protocols

- **Machine Learning** – On-device analytics and edge AI capability

+Server Side

- Connected to Cumulocity
- Upgradable architecture
- Device Management included

CERTIFIED DEVICE

CUMULOCITY

CUMULOCITY

roundSolutions
FOR A WIRELESS WORLD

IO-GATE AND CUMULOCITY - VISIBILITY ACROSS THE INFRASTRUCTURE

Partner company and devices

Based in Germany, RoundSolutions supports infrastructure operators with robust industrial gateways and connectivity solutions designed for long life, remote environments, and mission critical assets.

Popular applications:
- Condition Monitoring
- Environmental and Equipment Monitoring
- Predictive maintenance
- Liquid Monitoring

Sales Regions: Europe, North America

Device: IO-GATE

4 x IO-Link (M12)

4 x Digital Input (4 pins of the M12 connector)

4 x Digital Outputs (4 Pins of the M12 connector

1 x Ethernet (M12)

3 x SMA for Cellular and GNSS

12 Status LEDs

Integration

- Ready to use thin-edge.io integration
- Integration Scope:
  Alarms, Measurements, Events, File Based Configuration, Restart

Your Benefits

- Secure Connection
- 4G, 5G Support
- IP 65+ built for harsh environments
- Certified Compatibility with Cumulocity
- Creator of the ioKey - now owned by IFM

- IO-Link Sensors
- IP Cameras
- Ethernet interface

IO-GATE.IO

C

CERTIFIED DEVICE

CUMULOCITY

Cumulocity Introduction

CUMULOCITY

Who we are

Since 2012
Originally founded in 2012, management buy out from Software AG in 2024

1000+
Active customers

~300 people operating in **20+ Countries**

ARR growth rate

25M+
Connected devices
3 Billion
Messages per day

Worldwide
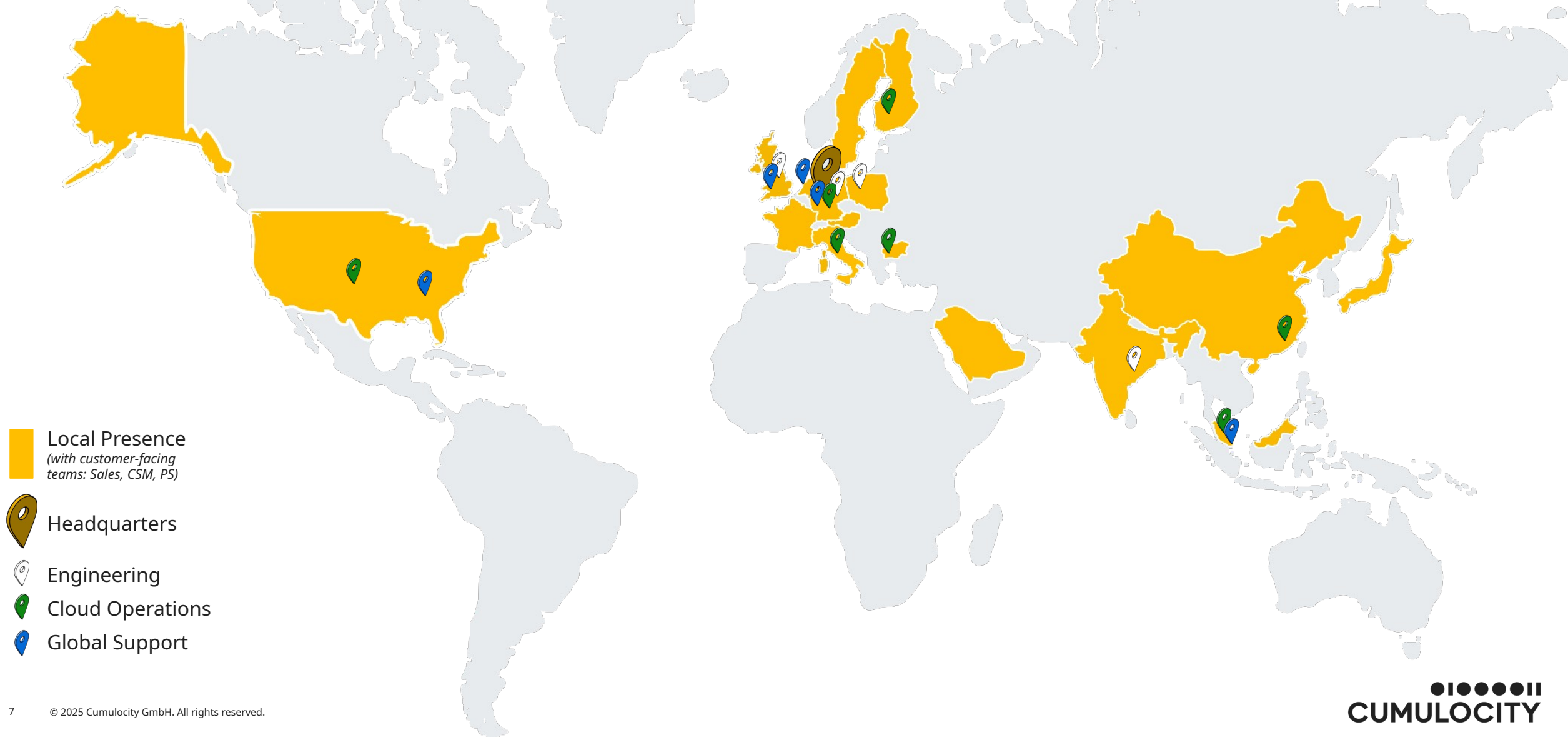Ecosystem of Device, Solution & Implementation partners

> 30%

CUMULOCITY

International Team for Global Reach and Operations

We serve you around the globe with 24/7 support & operations and local presences in more than 15 countries
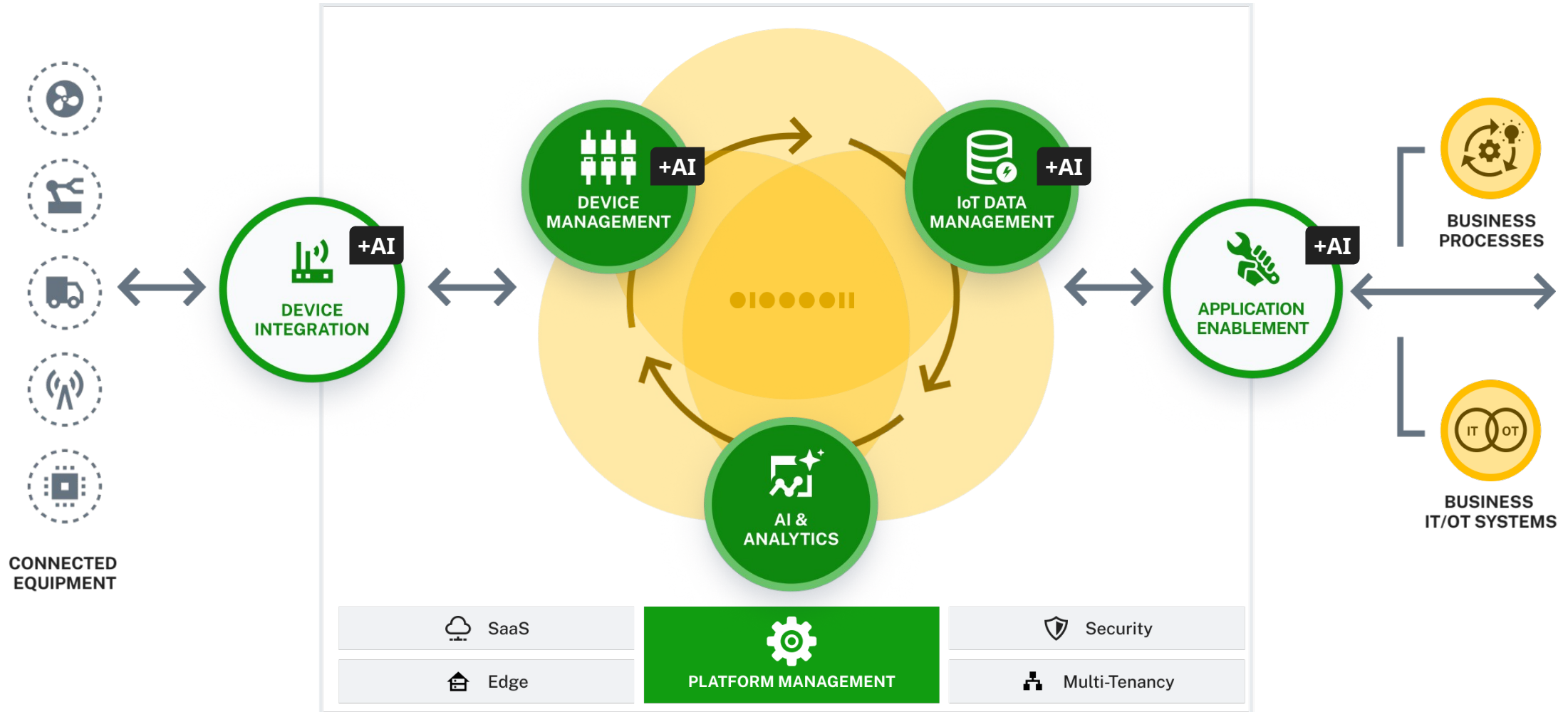

Local Presence
(with customer-facing teams: Sales, CSM, PS)

Headquarters

Engineering

Cloud Operations

Global Support

CUMULOCITY

Cumulocity Serves the World's Strongest Brands

Cumulocity enables a broad spectrum of use cases across many industrial sectors and all geographies

CUMULOCITY

Cumulocity as Hub between OT and IT

Cumulocity connects equipment and machinery, enabling data-driven business optimizations and services

CONNECTED EQUIPMENT

DEVICE INTEGRATION +AI

DEVICE MANAGEMENT +AI

IoT DATA MANAGEMENT +AI

AI & ANALYTICS

APPLICATION ENABLEMENT +AI

BUSINESS PROCESSES

BUSINESS IT/OT SYSTEMS

SaaS

Edge

PLATFORM MANAGEMENT

Security

Multi-Tenancy

CUMULOCITY

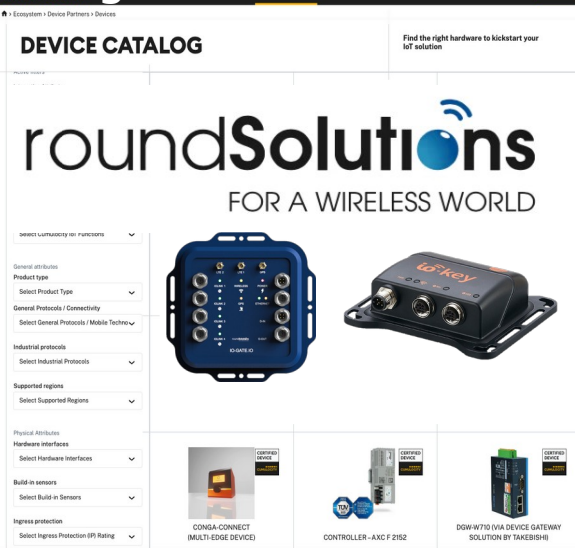# Shortening Time-to-Value with our Certified Ecosystem

Certified device integrations, validated solutions, domain expertise and best practices for faster end-to-end solutions
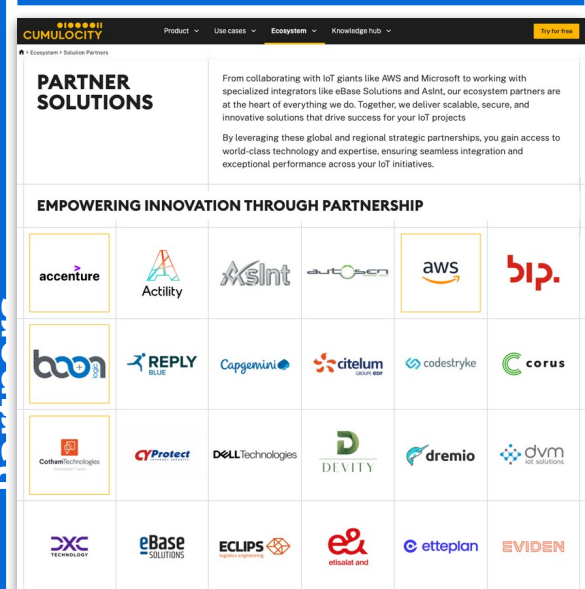
CERTIFIED DEVICE
CUMULOCITY

VALIDATED SOLUTION
CUMULOCITY

Developer Ecosystem   **Technology Partners**

Certified Device Integrations

Professional Services & Managed Services

Device Partners

IoT Gateway +AI

DEVICE INTEGRATION +AI

DATA MANAGEMENT +AI

ANALYTICS +AI

APPLICATION ENABLEMENT +AI

Platform Management & Cloud Operations

Implementation Partners

Validated Solutions

SAP   Azure   **Cloud Marketplaces**   Google   aws

Resellers & Distributors

We are pioneering IoT since 1999 and have become a leading IoT distributor, engineering house and a gateway manufacturer

+ 1,5 Mil IoT Modules shipped

+ 100 IoT Product and reference designs developed

+ Inhouse PCB prototyping assembly

Official partners
- **Telit Cinterion**
- **Cumulocity**
- **AWS**
- **Sunnyway IoT**
- **SWIFT Navigation**
- **Gateworks**

Founded in 1999 as IoT pioneers

Partnered with Telit in 2003

Design & Development services

More than 5,000 customers in 50 countries

The Round Solutions team develops, manufactures, licenses and sells intelligent Wireless IoT devices and related technologies and services.

Active in Alliances
- **IO-Link**

Based near Frankfurt am Main in the heart of Germany

Expansion in USA & MEA