

O I in Action

#IoTinActionMS



IoT Continuum:

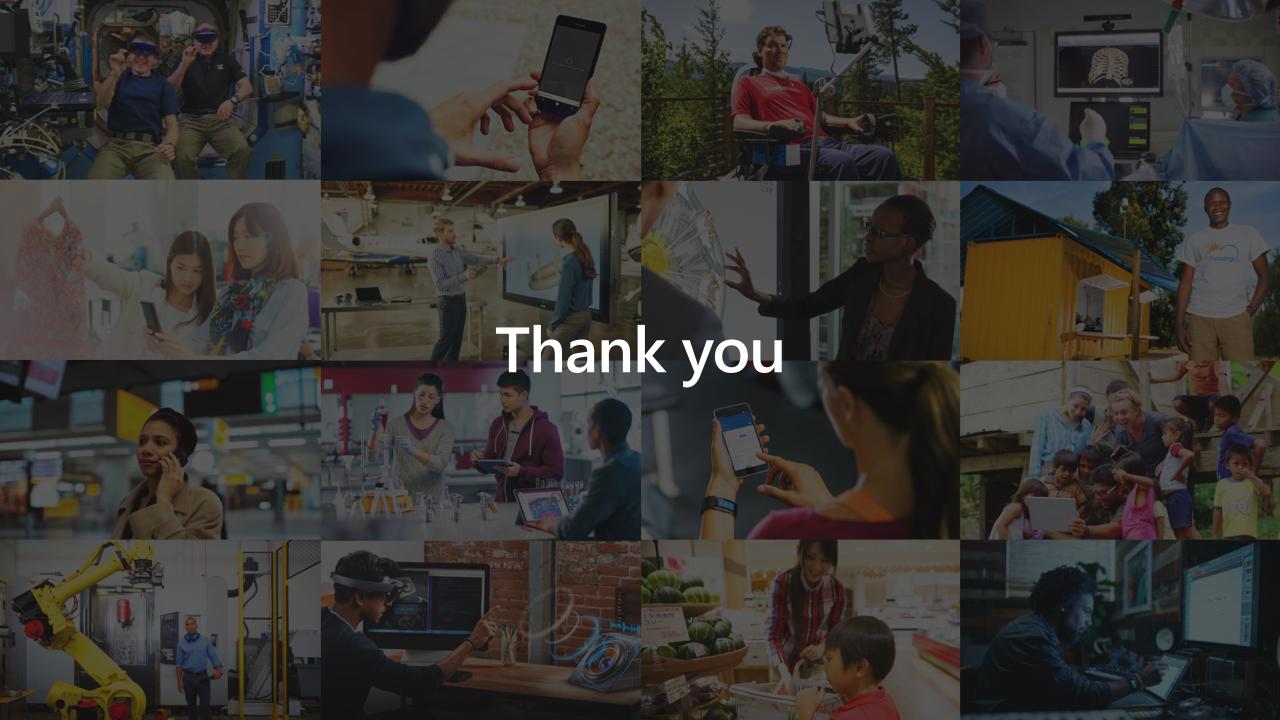
Evolving Business

Oliver Niedung

IoT Device Experiences EMEA



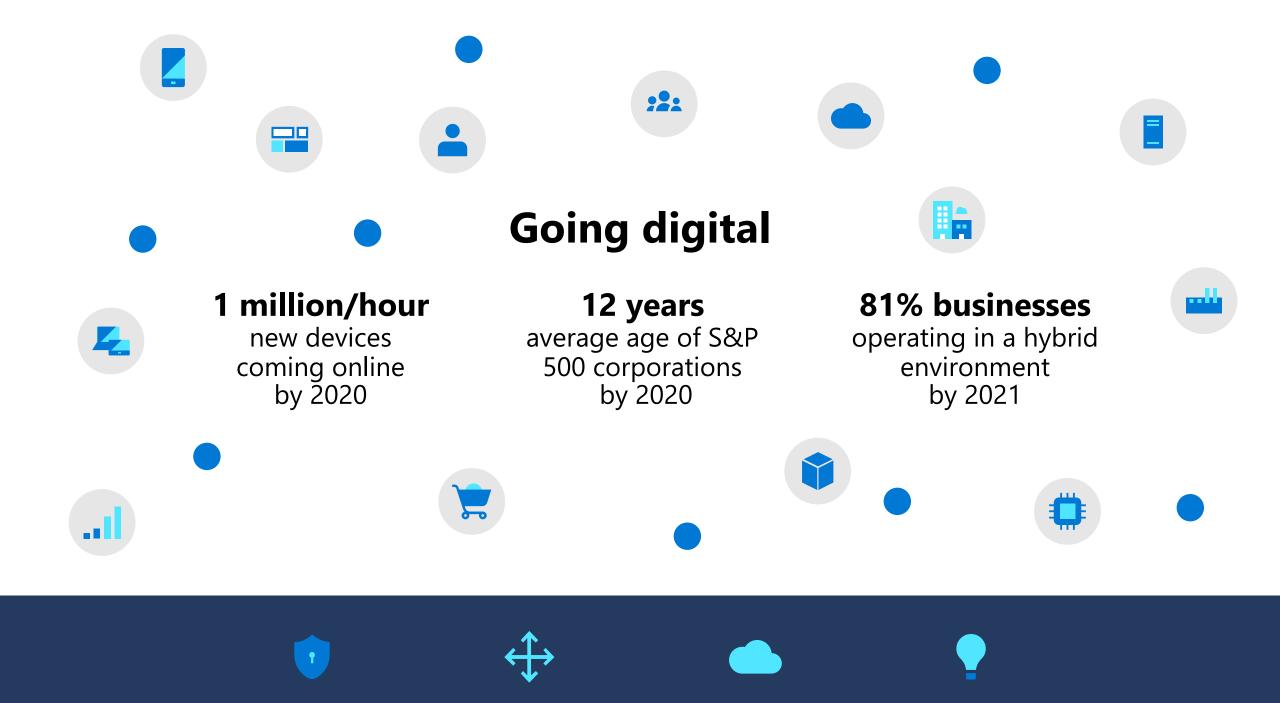




IoT in Action, Frankfurt, October 21 – Event Agenda

Executive Keynote – Oliver Niedung, Hans-Jürgen Hilscher (Hilscher Gesellschaft für Systemautomation mbH)	13:00–14:00
Business Transformation in Action – Oliver Niedung, Dr. Tobias Adam (Magnify Innovation)	14:00-15:00
Networking Break	15:00–15:30
Architecting the Intelligent Edge to Create Scalable Repeatable Solutions - Jürgen Mayrbäurl, Christian Lutz (Crate)	15:30–16:30pm
Activating Resources & Programs to Accelerate Time to Market and Co-sell – Oliver Niedung, Stefani Eisele (Intel)	16:30–17:15pm
Partner-Customer Matchmaking & Sponsored Partner Solution Showcase	All day





Fueling opportunities



\$267 billion

Predicted USD spend on IoT by manufacturers by 2020¹

Boston Consulting Group, 2017



80B

Connected "things" by 2025 generating 180ZB of data



+\$100 million

Average increase operating income among the more digitally transformed enterprises²

Keystone Strategy, 2018



94%

Percentage of businesses projected to be using IoT by the end of 2021³

Hypothesis, 2019



\$130B

New monetization avenues due to IoT-related services



80%

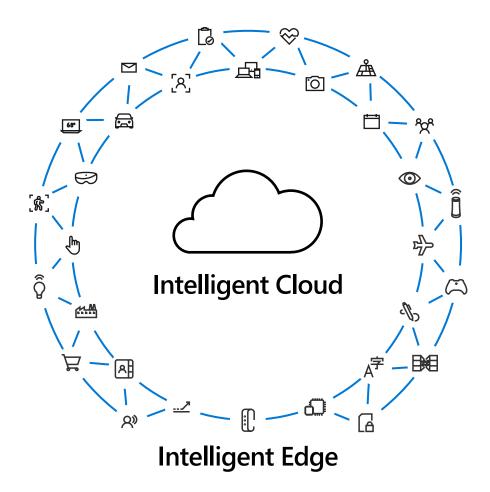
Companies that increased revenue as a result of IoT implementation

"By 2020, 30 percent of G2000 companies will have allocated capital budget equal to at least 10 percent of revenue to fuel their digital strategies.

This shift toward capital funding is an important one as business executives come to recognize digital transformation as a long-term investment.

This commitment to funding digital transformation will continue to drive spending well into the next decade."

—Shawn Fitzgerald: IDC, Research Director, Worldwide Digital Transformation Strategies



"Building applications for multi-device, multi-sense experiences is going to require a very different form of computing architecture.

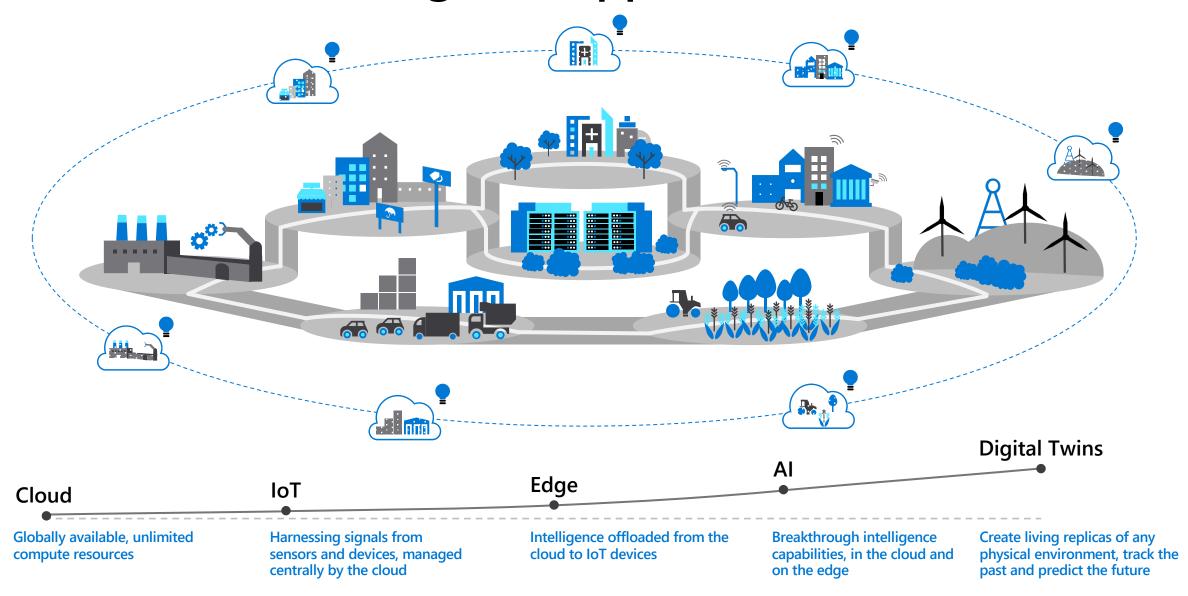
That's the motivation for bringing together all of our systems and people.

Silicon in the edge to the silicon in the cloud architected as one workload that is distributed—that's the challenge in front of us."

—Satya Nadella, Q&A Session, April 2018

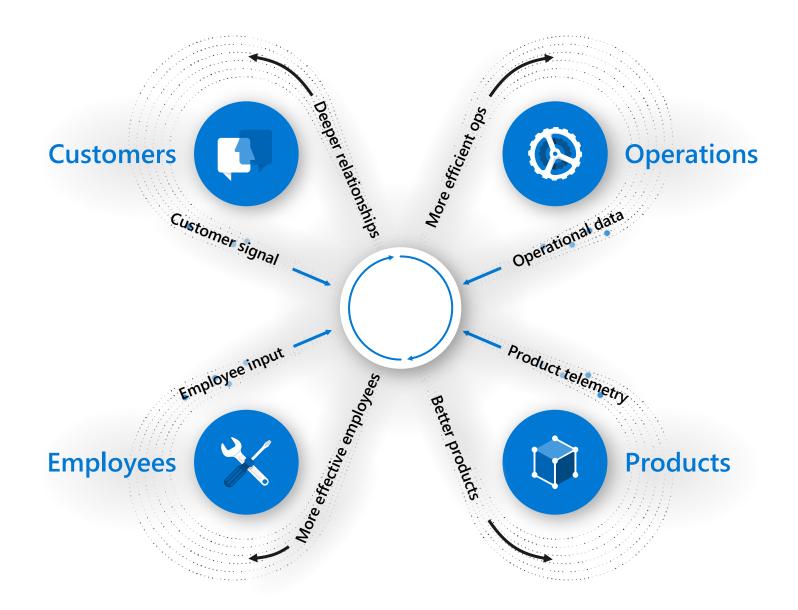


Innovations enabling new opportunities

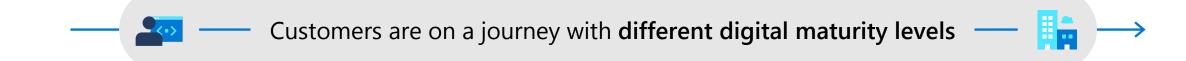


These catalytic innovations enable a Digital Feedback Loop

- 1 Data: Capture digital signal across business
- 2 Insight: Connect and synthesize data
- 3 Action: Improve business outcomes



Three emerging patterns of digital transformation



Build digital capabilities

Build digital businesses

Modernization

Foundation for Digital Transformation

Common initiatives:

- Digital workplaces
- Digital customer experiences
- Transforming the infrastructure
- Application innovation

Industry & horizontal

Solution-centric opportunities

Industry Solution examples:

 Predictive Maintenance, Customer Insights, Citizen Services

Horizontal Solution examples:

 Digital Marketing, Employee Self-Service, Smart Buildings, Security & Surveillance

Transformational

Reimagine their businesses

CXO sponsorship

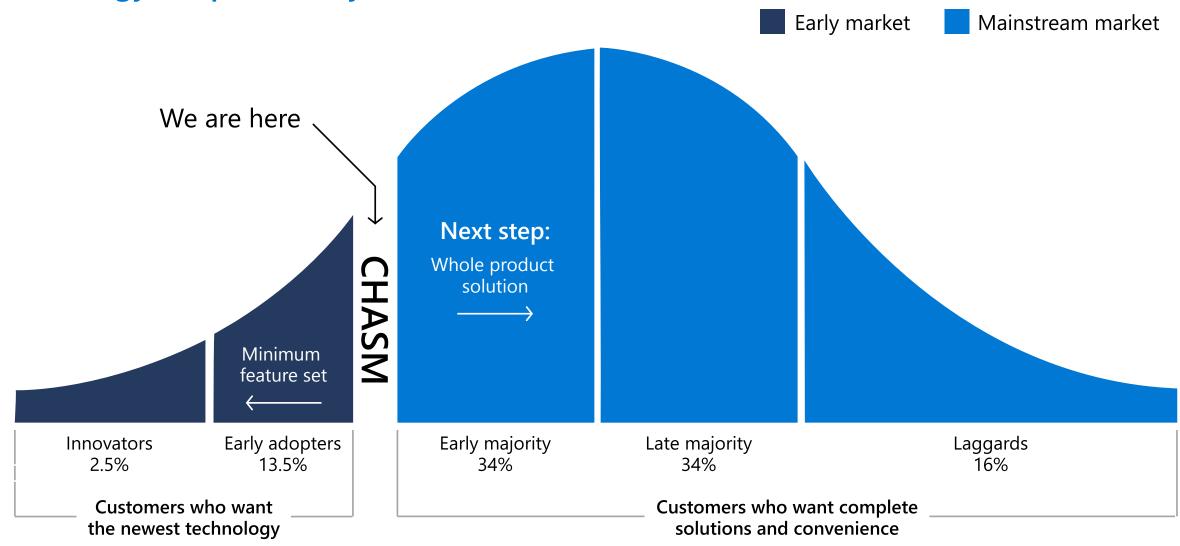
Digital Maturity Model assessment

Comprehensive program of change

Evolves into new commercial business models

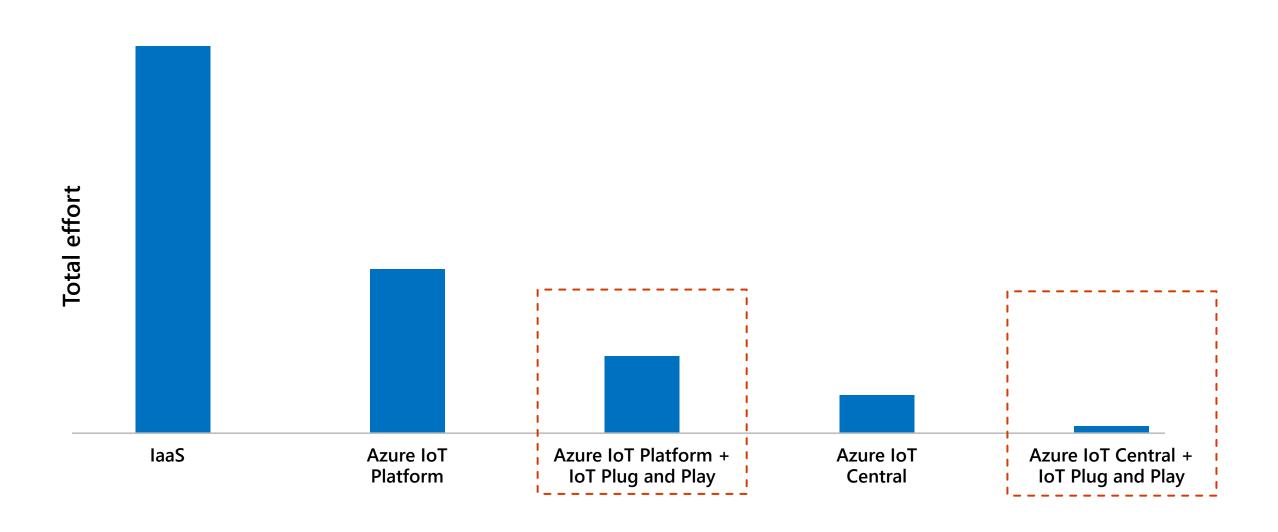
Preparing for mainstream market customer needs in IoT

Technology adoption lifecycle



Accelerating IoT

The total effort to build and operate an IoT Solution is rapidly decreasing



IoT partner value chain

IoT presents a unique opportunity to bring together multi-disciplinary partners



End points

Silicon/Chip Manufacturers

Gateway Manufacturers

M2M Modules

Device Manufacturers

Traditional OEMs

Device SIs



Security

Software

Hardware

Regulatory experts

Privacy



Connectivity

Mobile Network Operators

Mobile Virtual Network Operators

Channel Development Providers

Application Enablement Platform ISVs



Services

Solution Architecture

Solution Integrators

Service Providers

Presentation

Dashboarding

Big Data



Business consultants

Consultants

Advisors

Professional Services

Industry Influencers



Distributors

Aggregators

Scale through VARs



Developers

ISV

In-house



Regulators

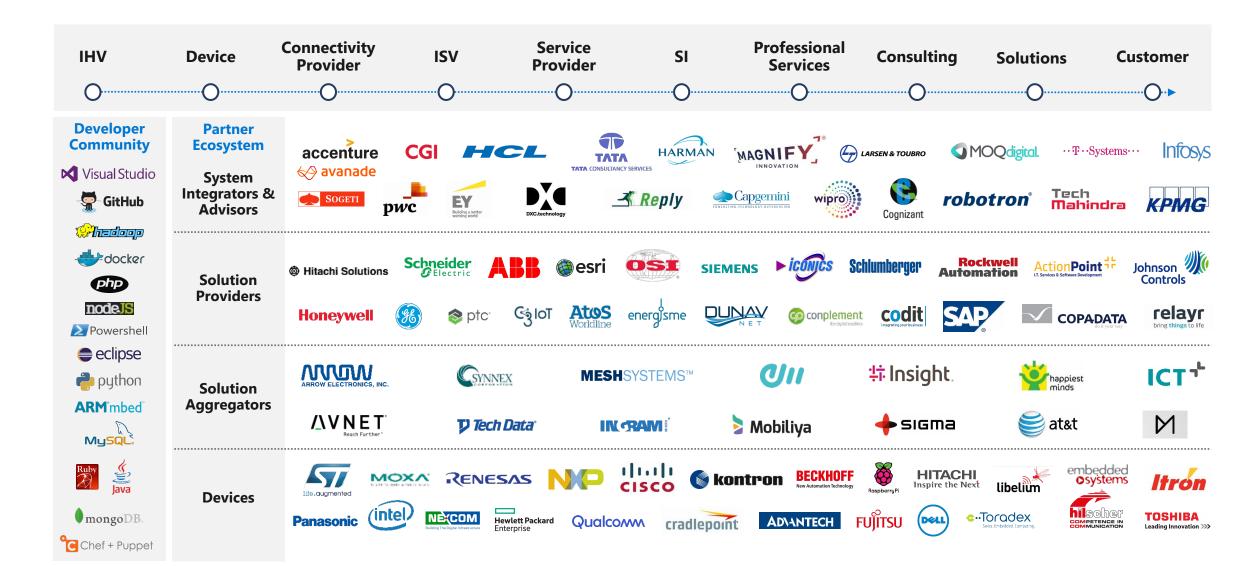
Standards organizations

Industry Bodies

Accreditation organizations

Auditors

IoT ecosystem momentum





Microsoft IoT platform innovations last year

>100



Partner provided co-sell ready solutions

>1,200



Ecosystem partners

>10,000

IoT vertical focus













Manufacturing

Field Service
Safety & Security
Process & Quality
Factory Automation

Retail

Space & Assortment
Inventory Mgmt.
Personalization

Healthcare

Patient Monitoring
Research
Supply Chain
Operation Efficiency

Energy

Oil & Gas
Utilities
Power Plants
Environment Sensors

Smart City/ Buildings

Security & Surveillance Monitoring & Safety Energy Mgmt.

Agriculture

Soil Sensors
Livestock
Equipment
Supply Chain
Connectivity

Customer momentum















































































































































































































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Hans-Jürgen Hilscher

14.0 Edge and Cloud Platforms in Automation IOT in Action, Frankfurt 21. October 2019

OT / IT Connectivity as a Service

From Sensor to the Cloud

Plug and play

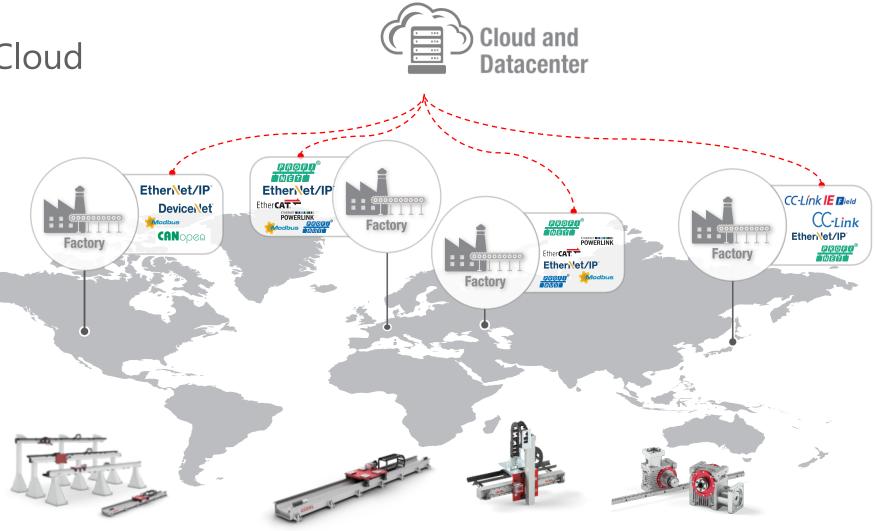
Interoperable APPs

Digital Twin

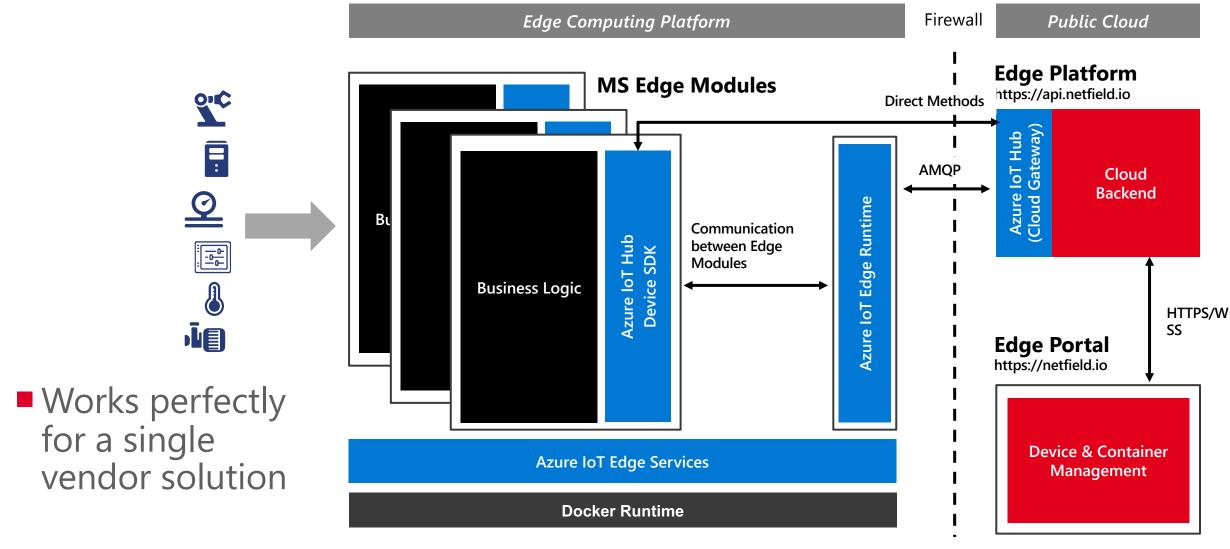
Life CycleManagement

Brown and green field applications

Business models



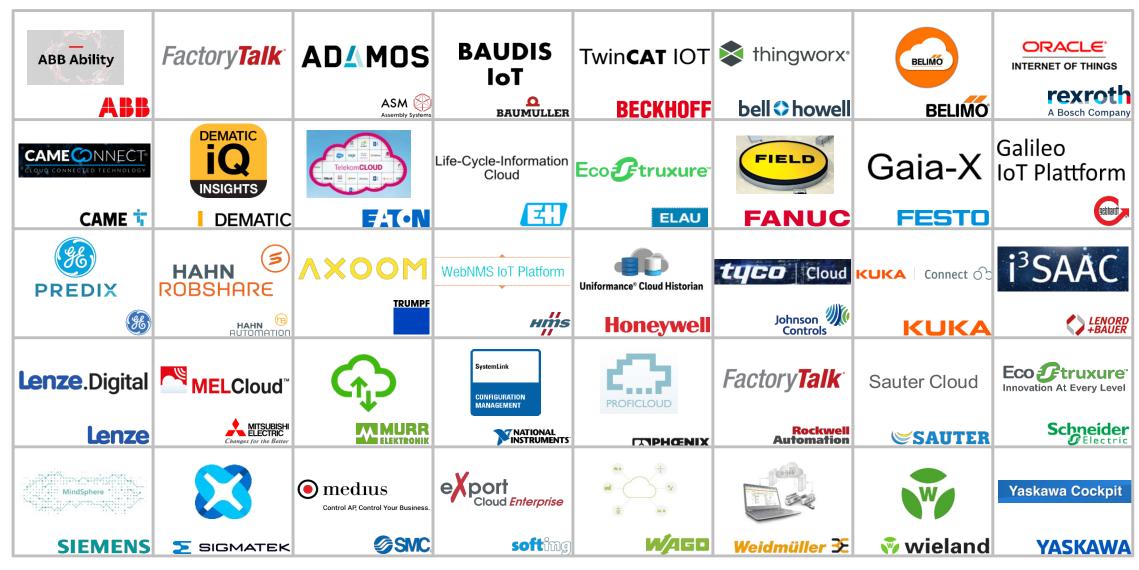
From sensor to the cloud with Azure technology



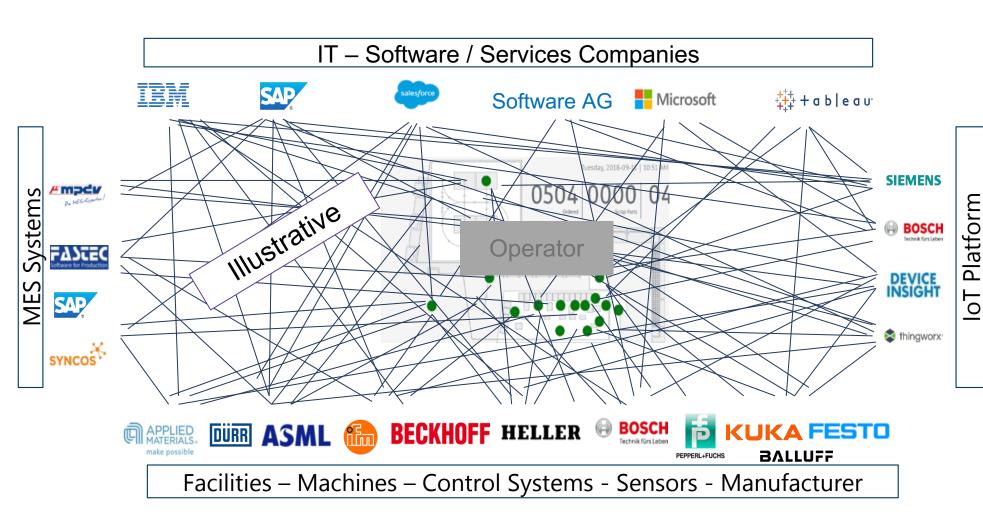
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Uses automation IoT platforms in Europe



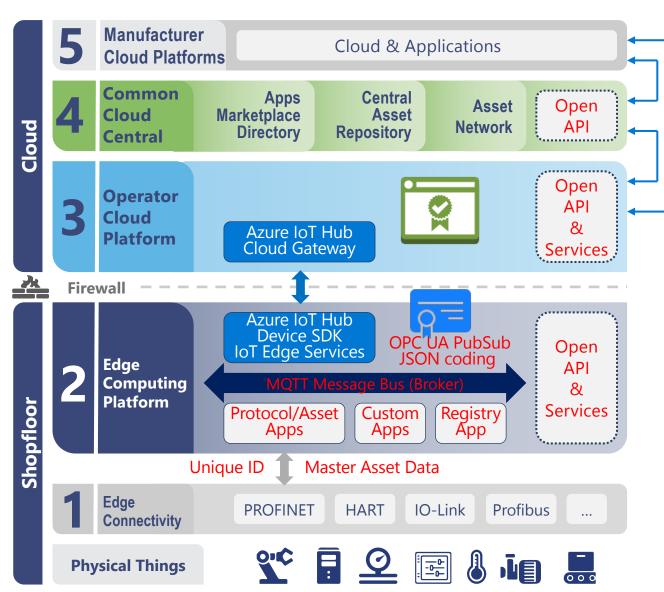
Complexity of multivendor IT – OT integration



 This is not scalable in heterogeneous multivendor plants



Industry 4.0 multivendor IoT platform solutions



- Automatic device detection and generating of an Unique ID
- Generic Master Asset description
- Container based Edge System
- Message Bus between Apps
- Standardize Communication and Information System
- Standardize Cloud to Cloud APIs
- System wide Security (PKI)

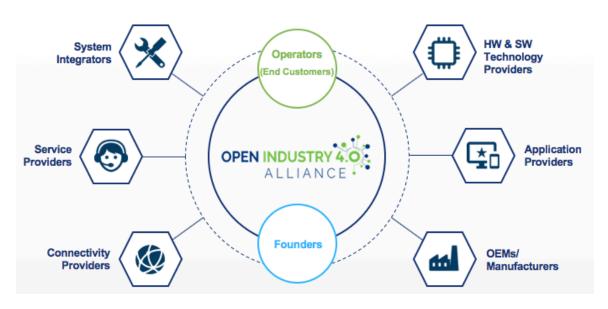


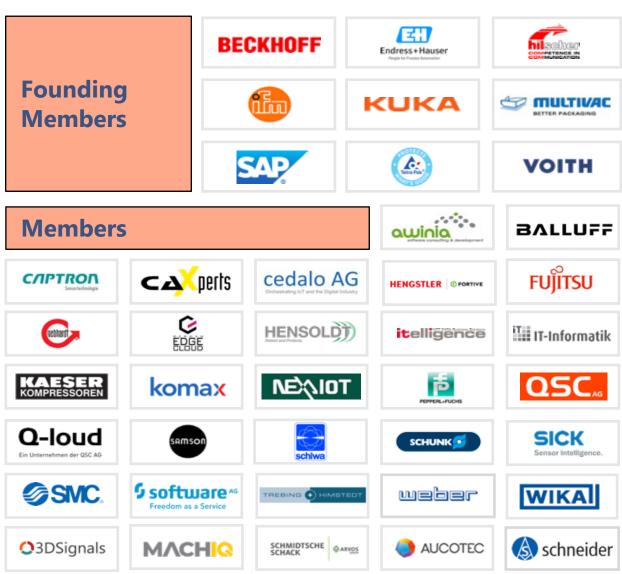
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Following the success of fieldbus organizations



Industry 4.0 relevant companies-with their interoperable solutions and services-committed to deliver customer value





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Hans-Jürgen Hilscher

We want the vision of Industry 4.0 to become reality, a common open ecosystem using industrial standards is our strategy are many other IoT Platforms with a strategy that goes in the opposite direction

For more information

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Hans-Jürgen Hilscher

CEO Hilscher Gesellschaft für Systemautomation mbH and Technical Lead of the Open Industry 4.0 Alliance

So what's stopping you from making things happen?















