

# I4.0 - Where AI meets 5G

# Ericsson and SAS Solution Architecture & Pilot



Fredrik Pettersson, Ecosystem Manager  
Ericsson Dedicated Networks

Kevin Kalish, Sr. Industry Consultant  
SAS Global IoT Division



# World leader in ICT



38.5 billion  
SEK R&D budget

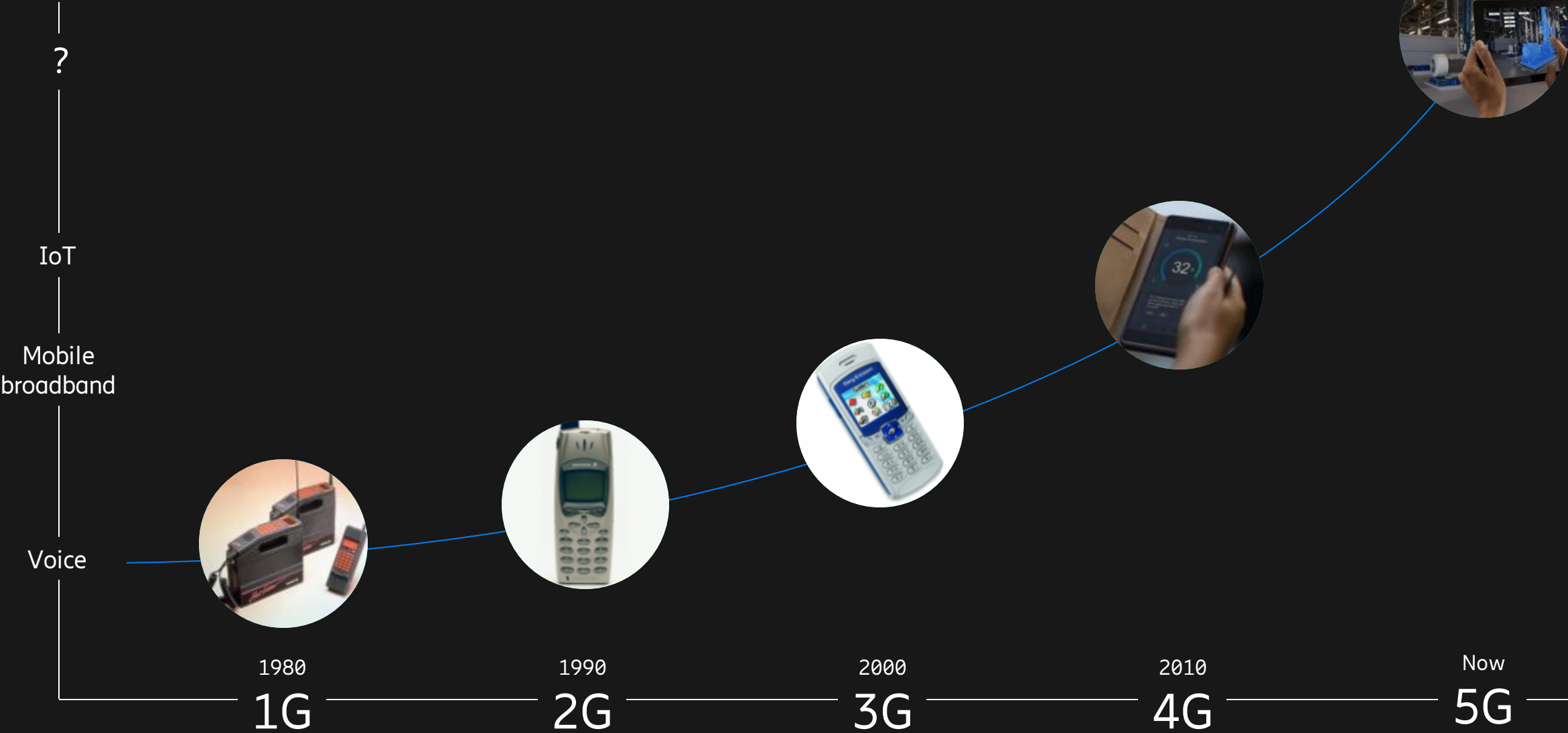
25,000  
Employees within  
R&D

54,000  
patents

1 billion  
users in networks  
that we manage

2.5 billion  
users in networks  
that we support

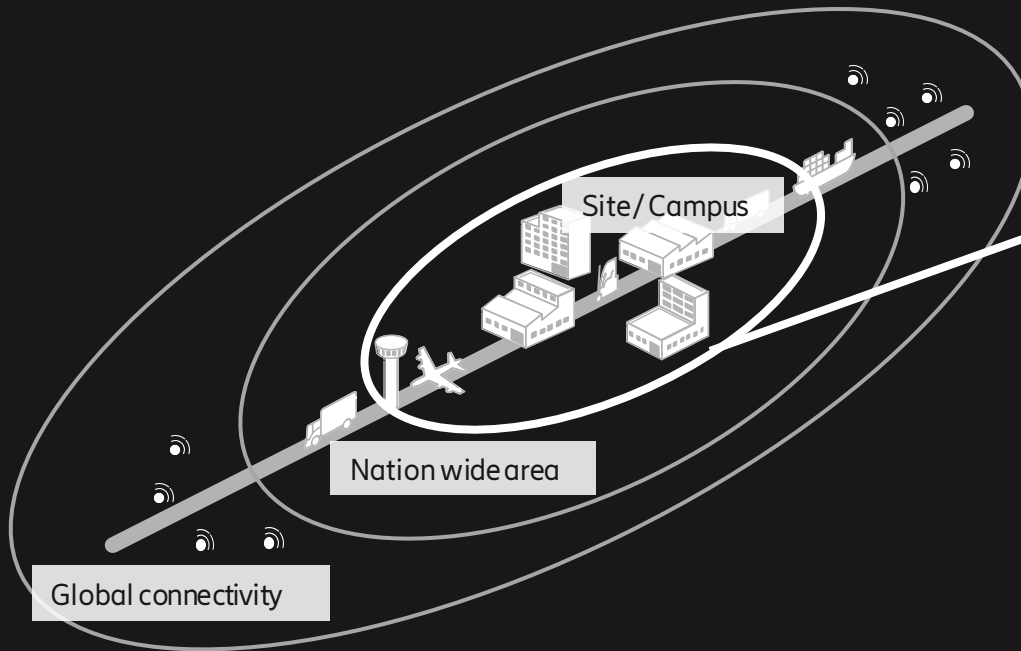
# An industry driving change



# Dedicated 4G/5G Networks



## • *Our focus*



Manufacturing



Mining



Oil & Gas



Energy plants



Ports



Airports



### Dedicated Networks

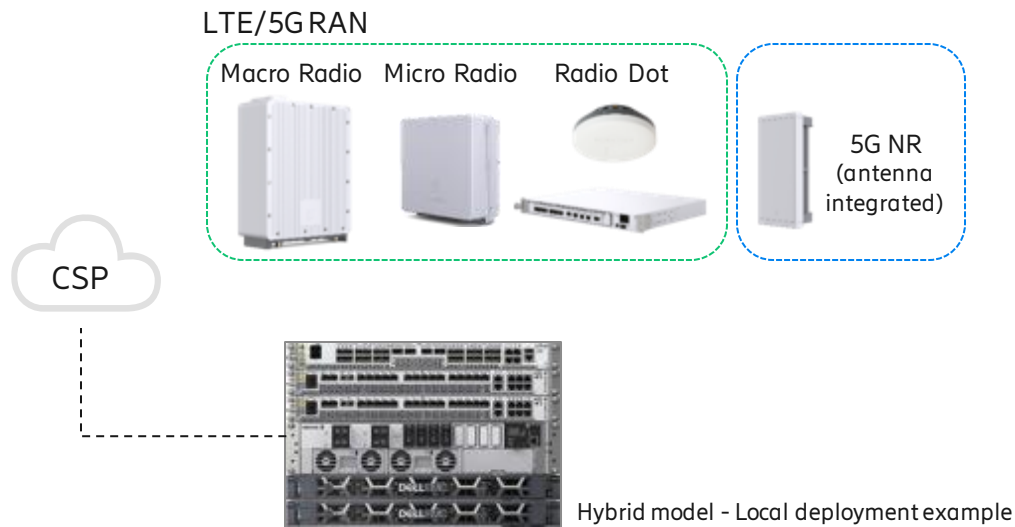
- Ericsson Private Networks (on-prem / hybrid)
- Ericsson Industry Connect

# Our Dedicated Networks



## Private Networks

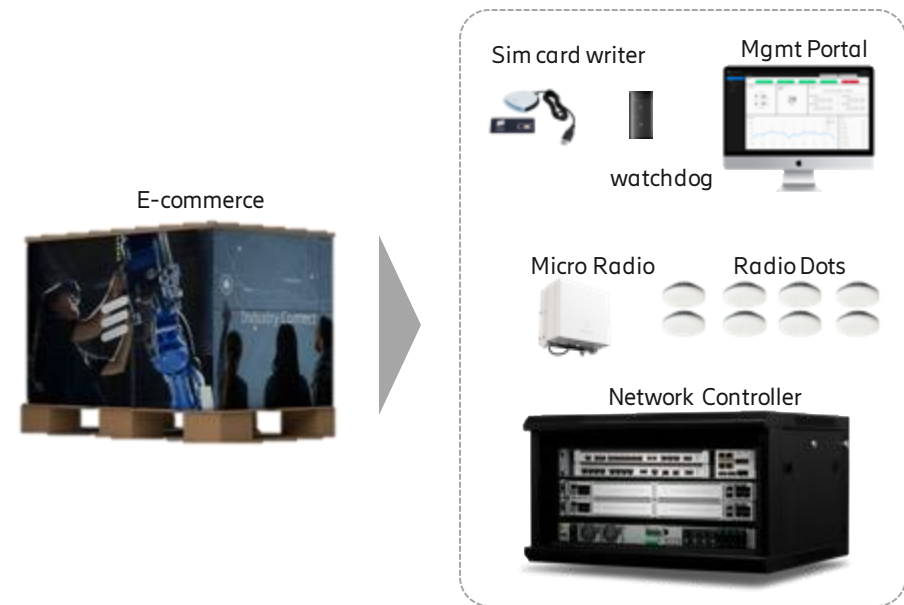
Integration to CSP network and "premium" solution using existing life-cycle management



White box, modular

## Industry Connect

Optimized turnkey "off the shelf" solution with IT/OT management for CSP as reseller



Black box, pre-packed

# SAS for Asset Performance Management

## Broad Industry Experience



### Turbine Engines

- Model drivers of unscheduled downtime
- Identify optimal maintenance scheduling
- Predict failures



### Wind Turbines

- Identify turbines performing below average
- Model drivers of capital component failures
- Improve planned maintenance



### Gas Treatment

- Identify predictors of failures
- Identify optimal operational parameters
- Optimize amine utilization



### Oil Wells

- Identify Wells performing below expectations
- Model drivers of pumps failures
- Automate early-warning detection
- Identify optimal operational parameters

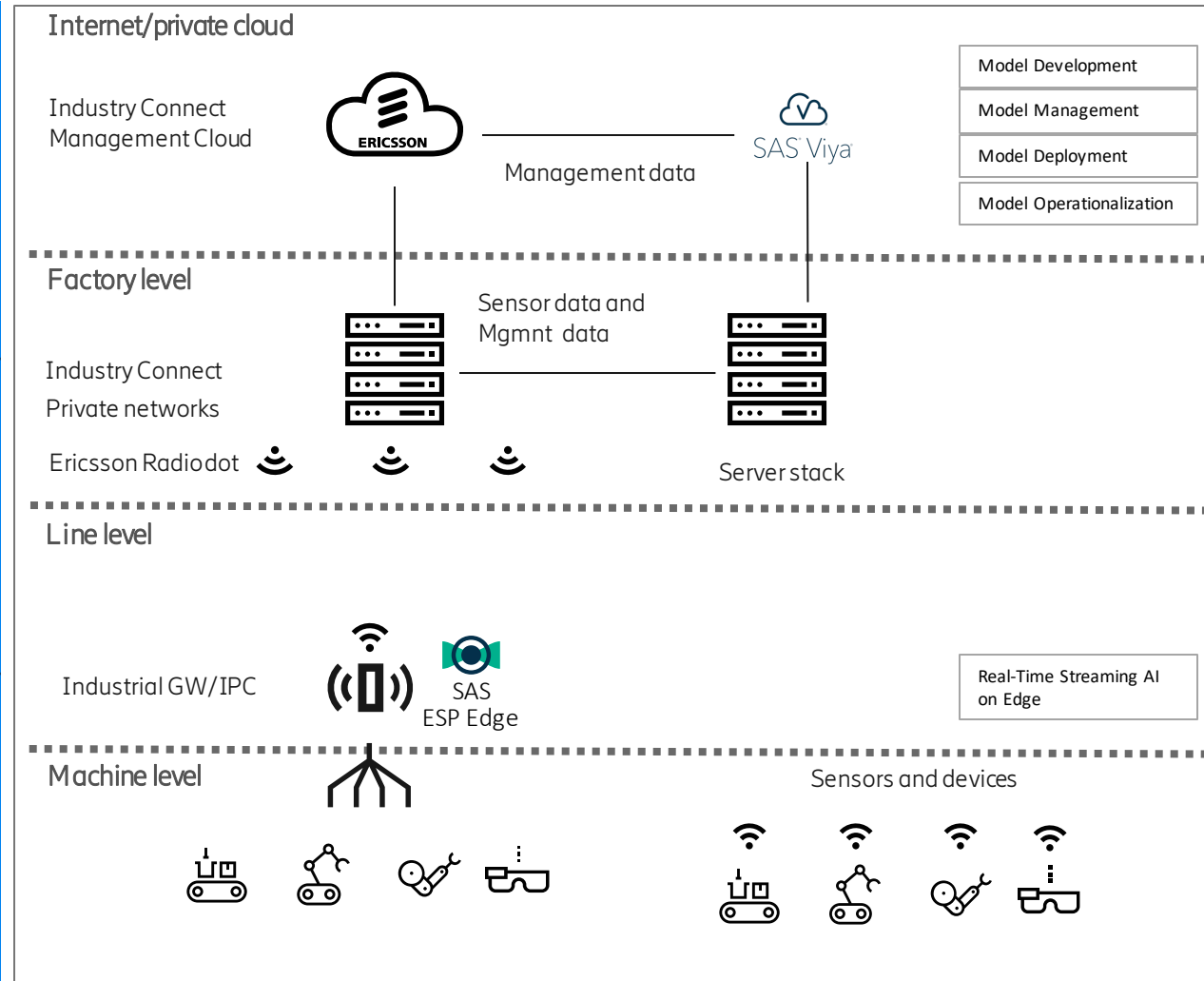
# Industry Connect and SAS Joint architecture (Cloud)



**Dedicated connectivity**  
IoT networks including connectivity management and local private networks

**Faster time to value**  
Deploy, manage and scale cellular IoT connected devices and applications globally through one network

**Device ecosystem**  
Large ecosystem of module, chipset, device ecosystem which enables a vision to become a reality



**Faster time to value**  
Streamline the analytic lifecycle and reducing the time between development and deployment, on a large scale

**Better and justifiable business outcomes**  
Bring more governance to the analytic lifecycle and continuously monitor the performance and the business impact of the models deployed

**Analytics driven, Automated decisions**  
Intelligent decisioning actuates in back-end systems, or deployment of models on edge to support decisions and automate actuation



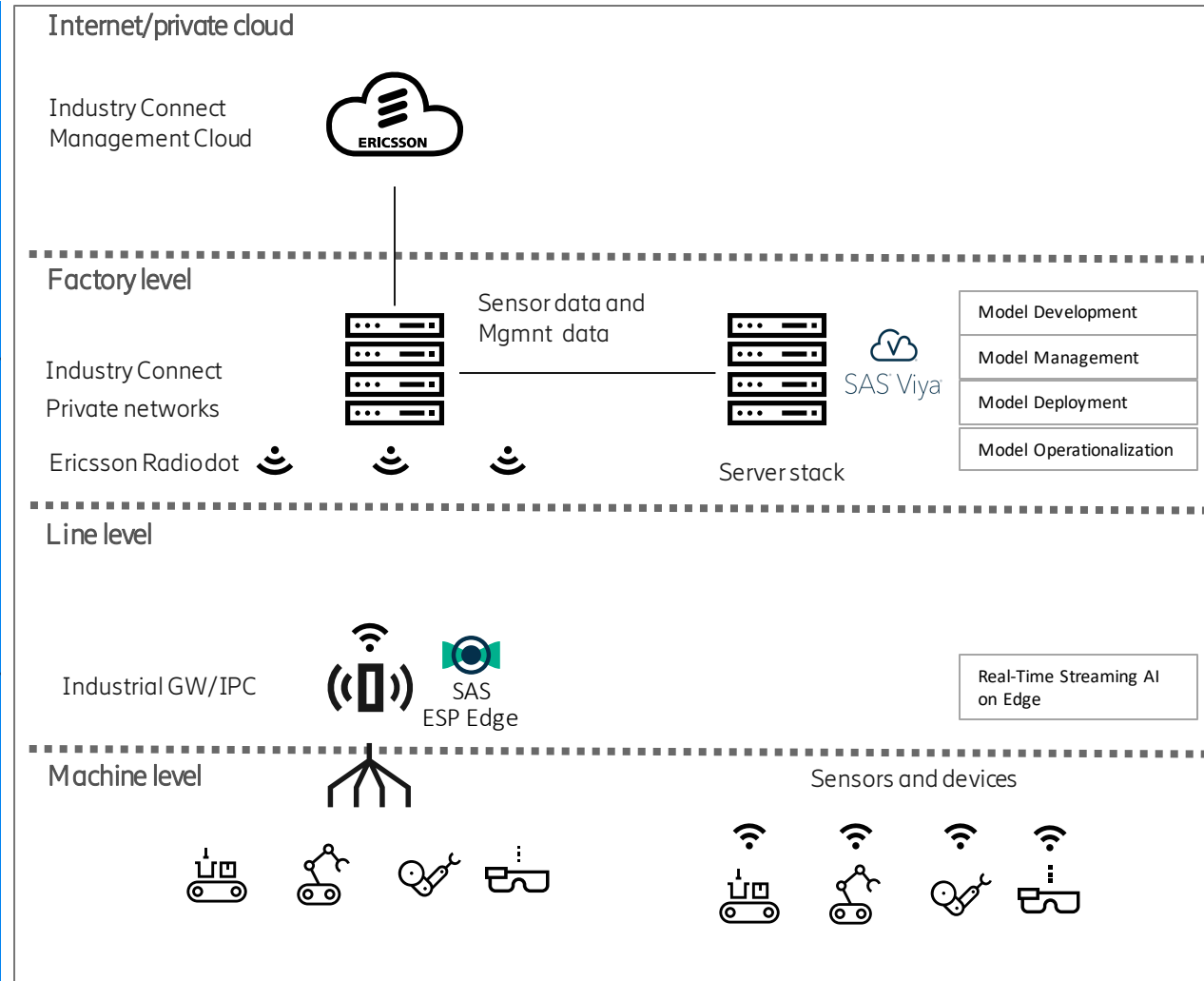
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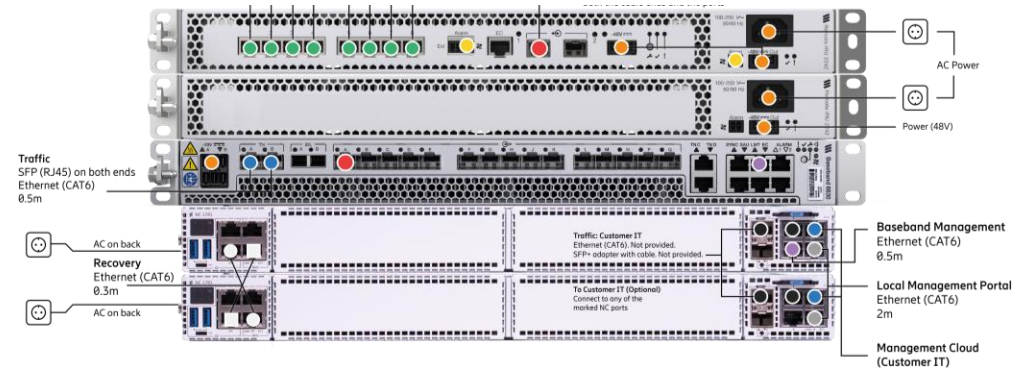


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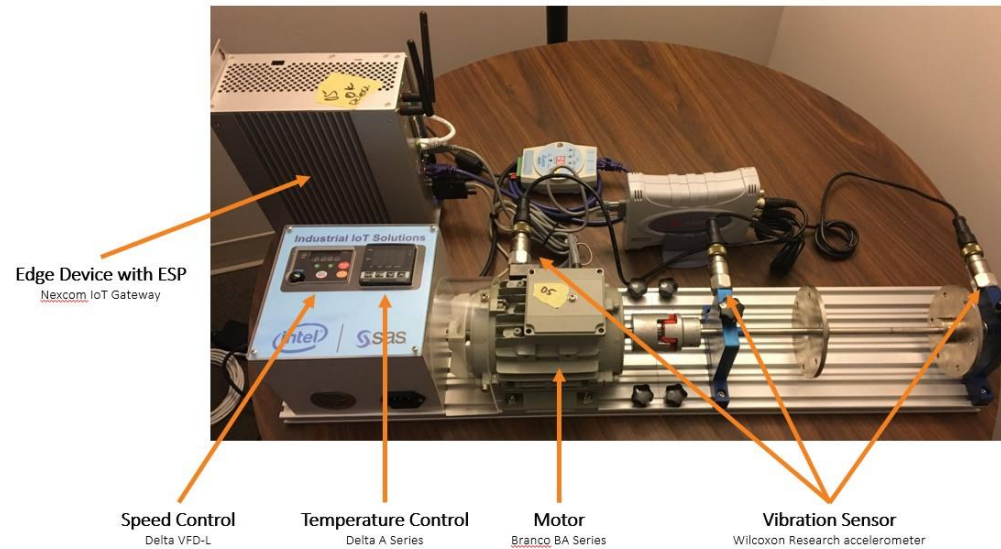
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# Pilot



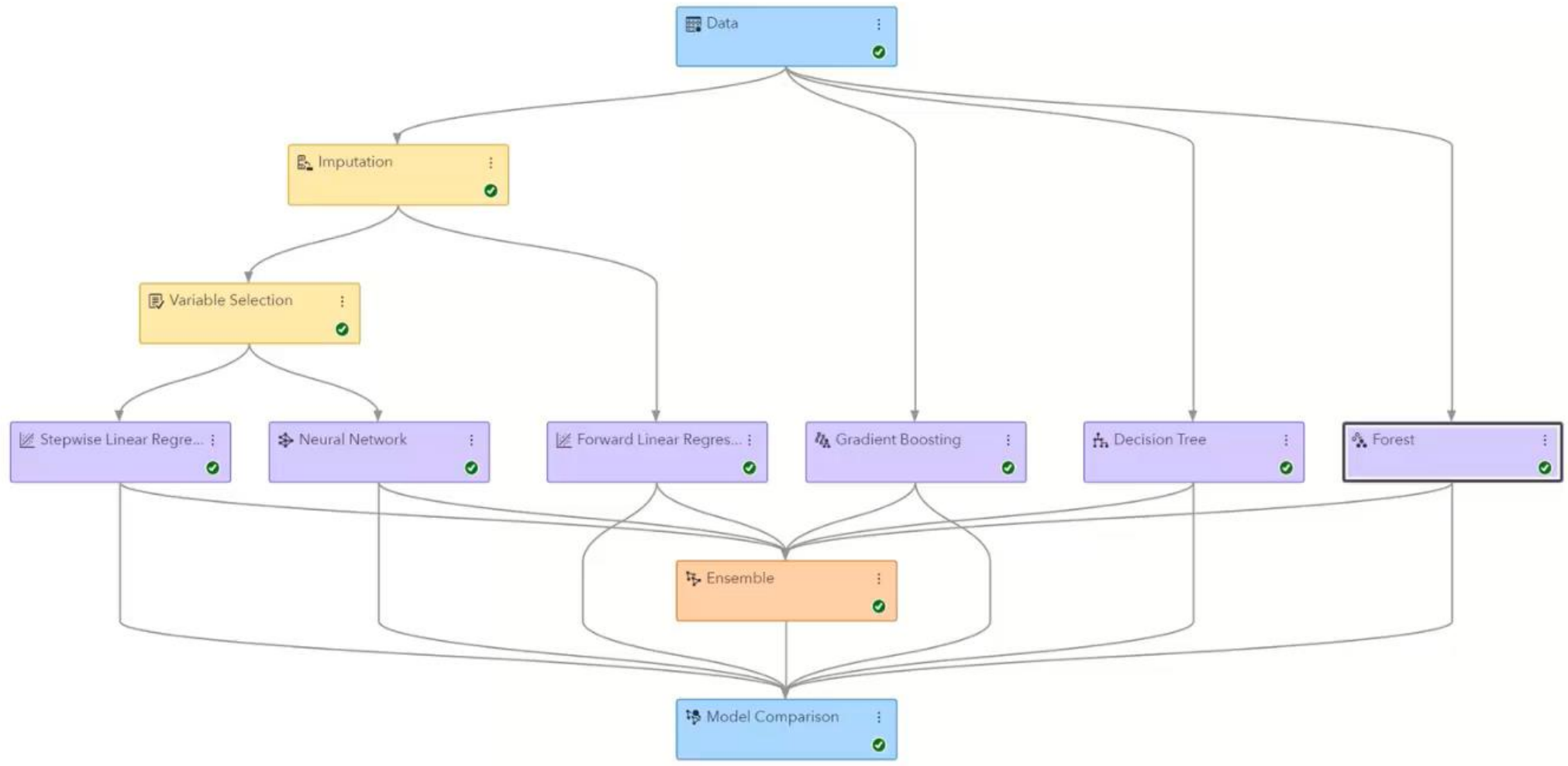
SAS Viya®





Pipeline 1 +

Run Pipeline





+



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Industry 4.0

# Contact



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Ericsson Industry 4.0