Industry 4.0

How Do Edge Computing Solutions Enhance Business Resilience?

Syscons Group, Digital Operations Leader, answers this question sharing success stories

Experience the Future Today

SYSCONS

CONNECTED SUPPLY CHAIN SOLUTIONS

Who We Are

SYSCONS
CONNECTED SUPPLY CHAIN SOLUTIONS

SYSCONS
CONNECTED SUPPLY CHAIN SOLUTIONS

SINCE
2001

OUR EXPERTISE ON...

We are an SAP Partner with strong background on **SCM**, **Manufacturing**, **ERP** and **analytics**.

4
BEST PARTNERSHIPS

We are proud to be ...

Google Partner

IBM Registered Business Partner

SAP Silver Partner

OneTrust

13%

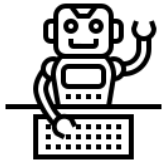
RESEARCH & DEVELOPMENT

Every year we invest **more than 13%** of our revenues in research and development for providing our best products and solutions to our local and international Clients.

Our Vision

Connected Supply Chain solutions

Deep Dive Business Process Knowledge + Cutting Edge Technologies



Robot Process Automation

Mobile APPs

Enterprise Integration

Industrial Automation

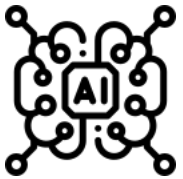
Product & Portfolio Management → **Integrated Planning** → **Scheduling** → **Manufacturing** → **Logistics Execution** → **Industrial & CPG**

Collection Development → **Show Room & Open to Buy** → **Manufacturing & Supply Management** → **Allocation** → **Logistics Execution** → **Fashion & Retail**

Cloud Re-platforming

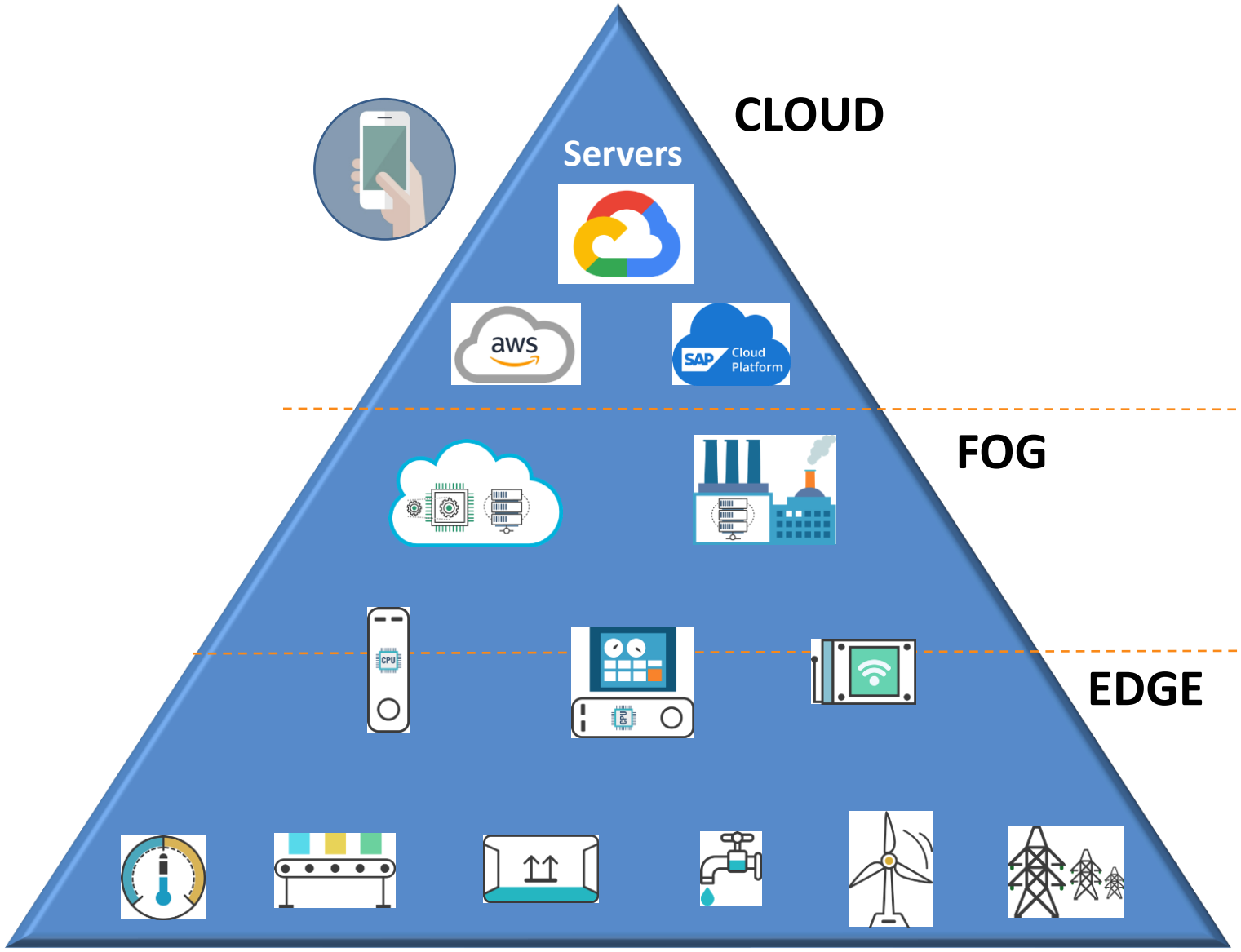
Data Insights

IoT



AI & ML

Cloud vs Fog vs EDGE



CLOUD

- Data is processed on a central cloud server far away from the source of information
- Preferred for for storing, analyzing, and processing data if not required real-time information and business resilience
- It requires 24/7 internet availability

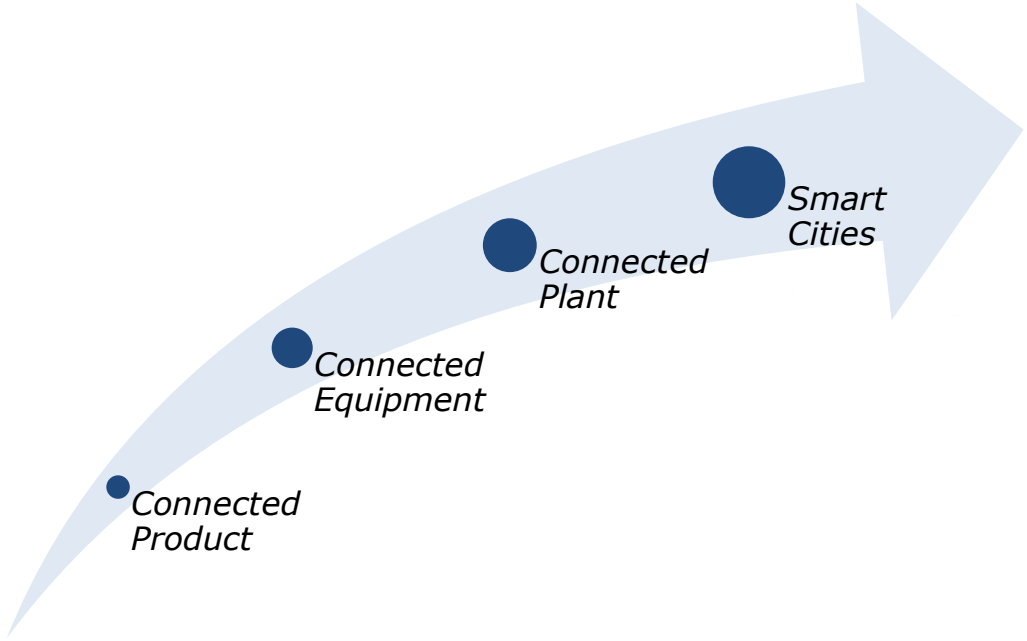
FOG

- Not depending on Internet availability
- Higher level of data security vs Cloud
- Near real time elaboration of huge stream of data

EDGE

- Shift processing of data closer to the source of data generation
- Not depending on Internet availability
- Guarantee business resilience
- Highest level of data security
- Responsiveness

Application Areas through Business Cases

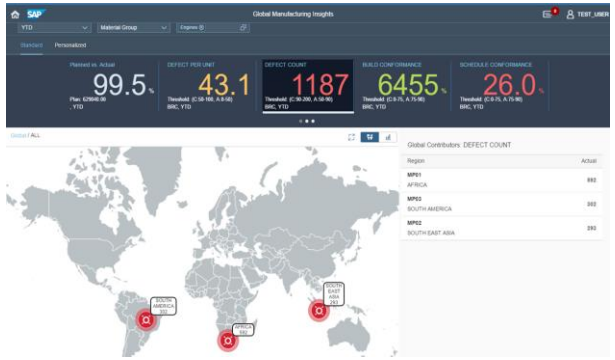


Connected Products

Regional Cloud

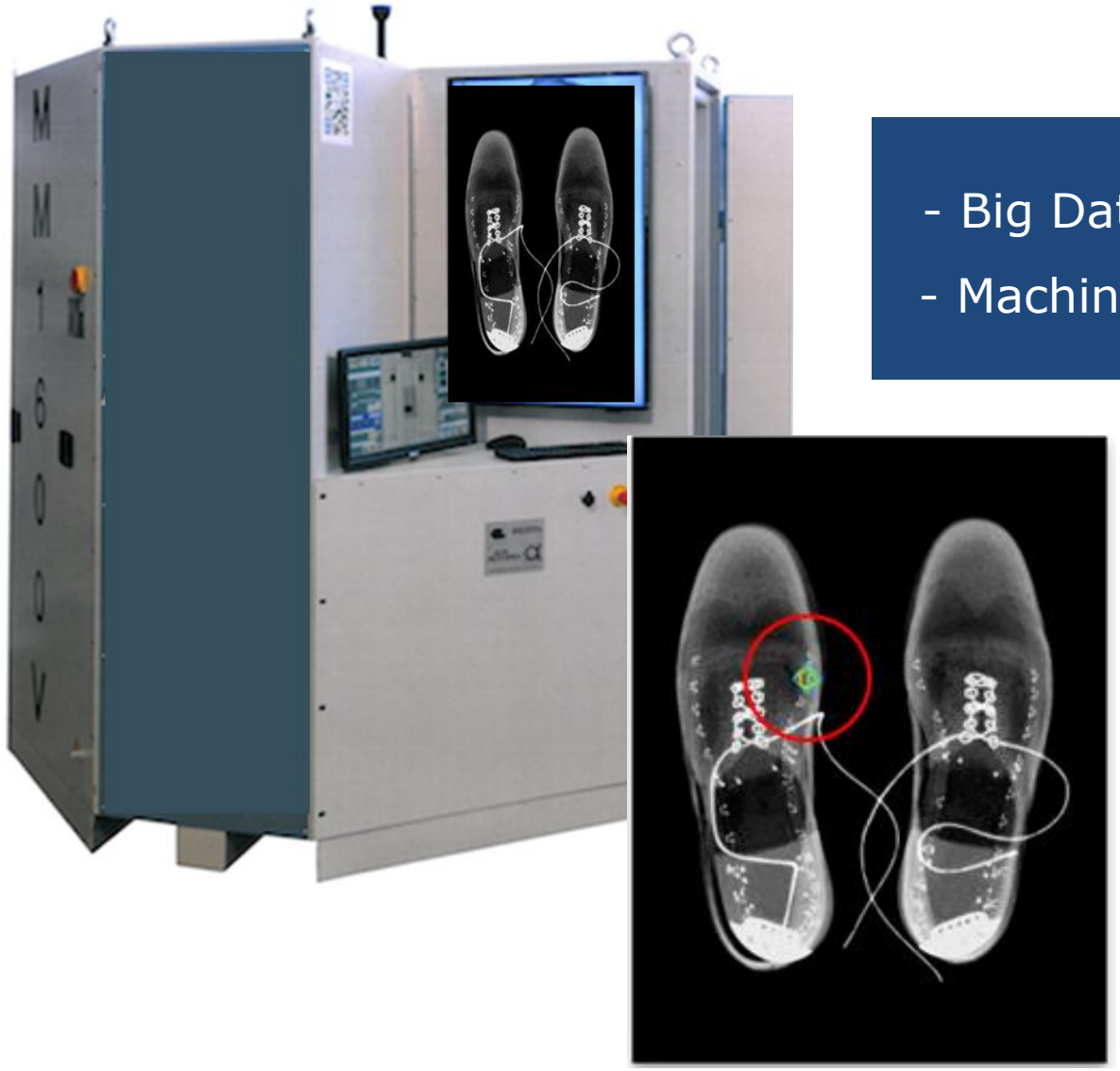
Global Cloud

- Big Data analysis
- Machine Learning
- Predictive Models

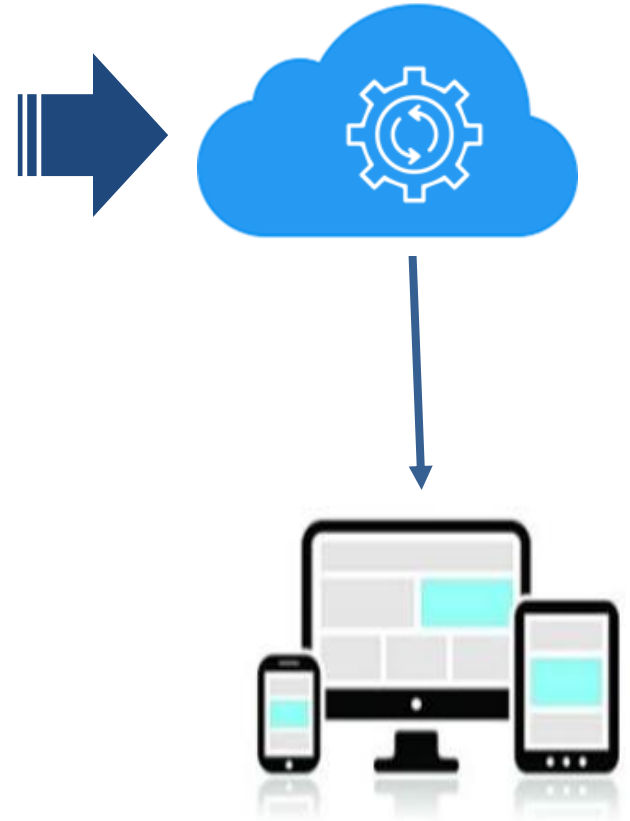


Predictive Maintenance tool

Connected Equipment / Quality Management



- Big Data analysis
- Machine Learning

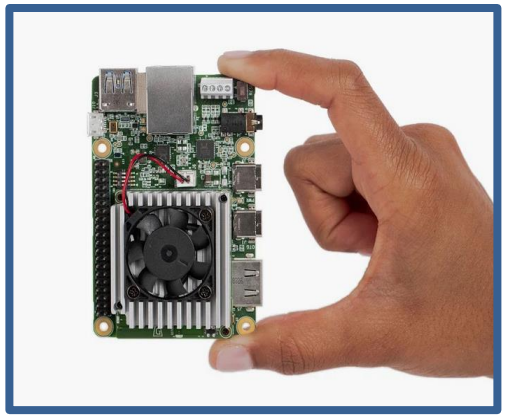


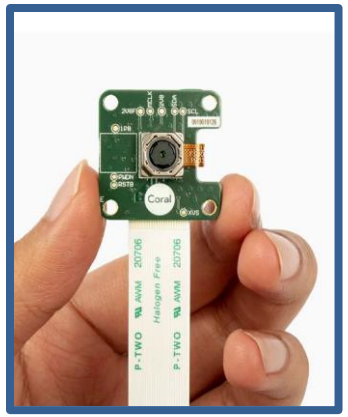
Tensor Flow

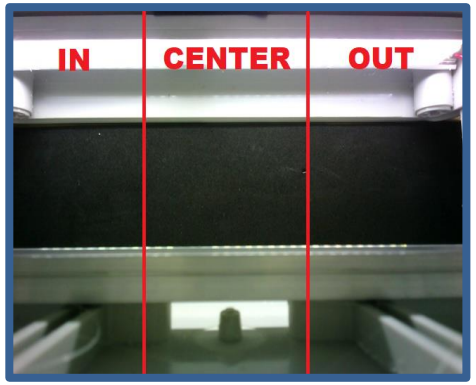
Coral

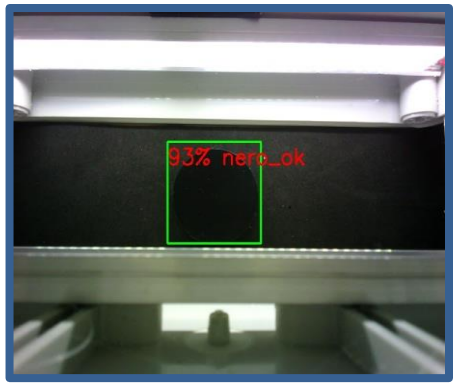
Vision API

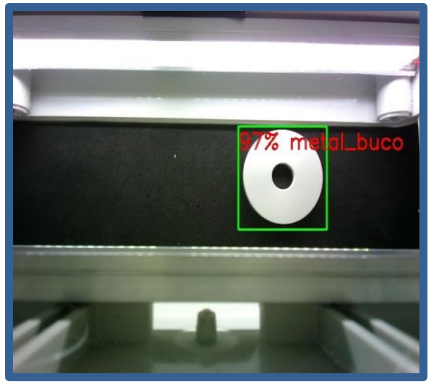
Auto ML









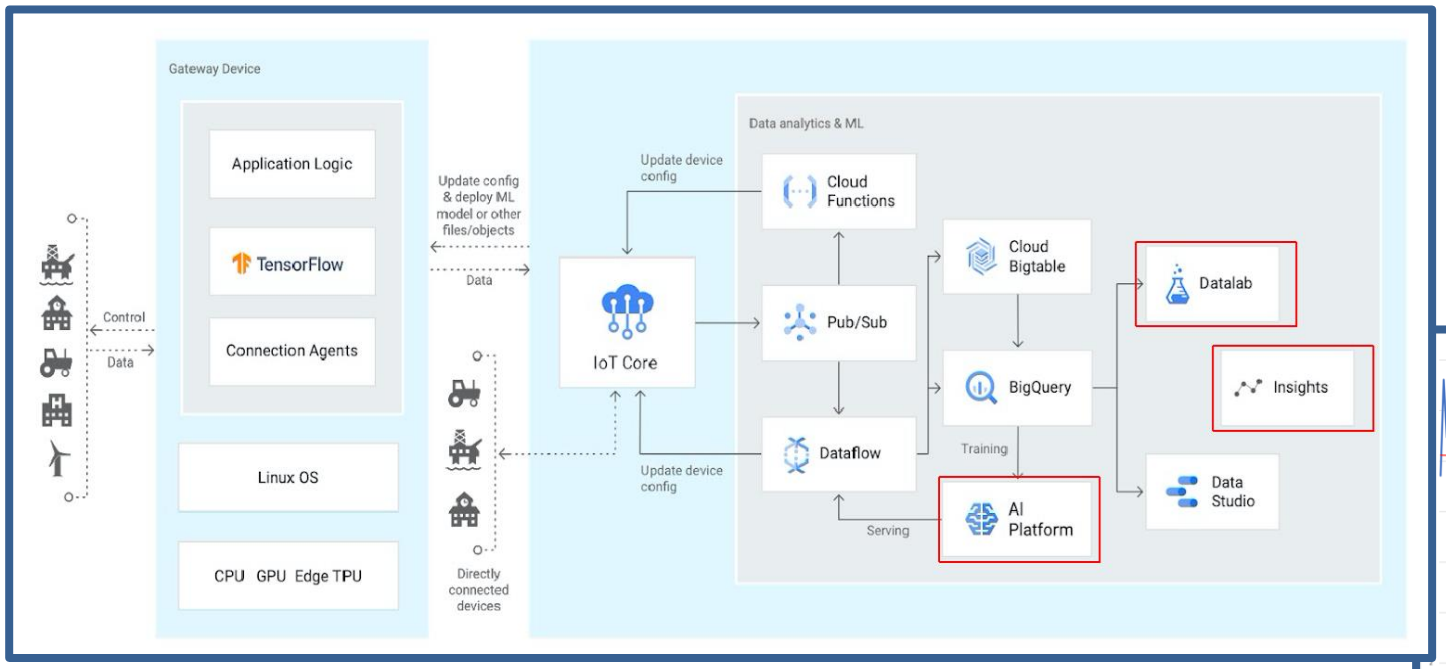


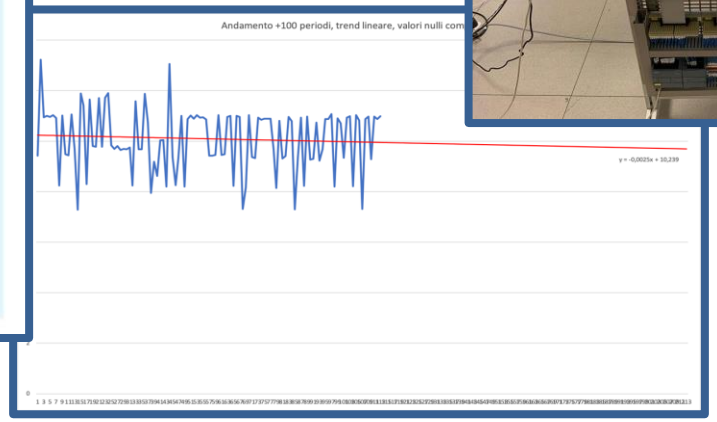
Connected Equipment / Predictive

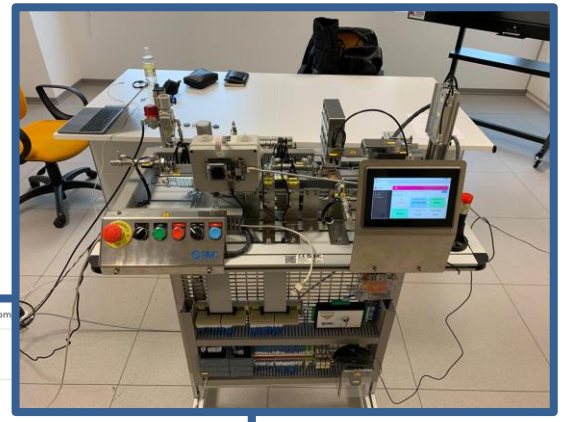
AI Platform

Datalab

Insights







Connected Plant / Monitoring

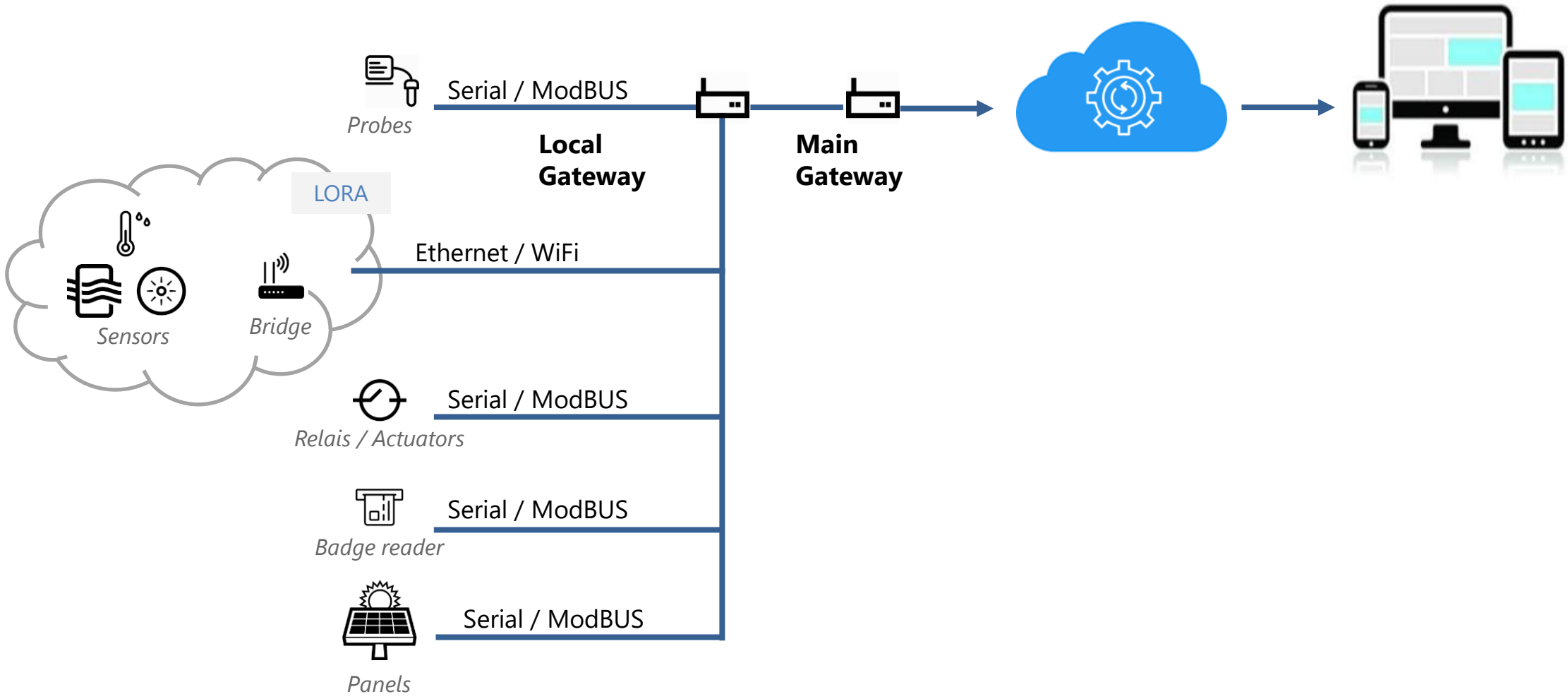
- Production progress
- Workload Distribution
- Set up and Downtime
- Overall Efficiency (OEE)

- Emissions
- Detection points (quality/ risk assessment)
- Environmental impact

- Energy vectors measurement
- Consumption analysis
- Environmental Balance

- Environmental parameters
- People flow management

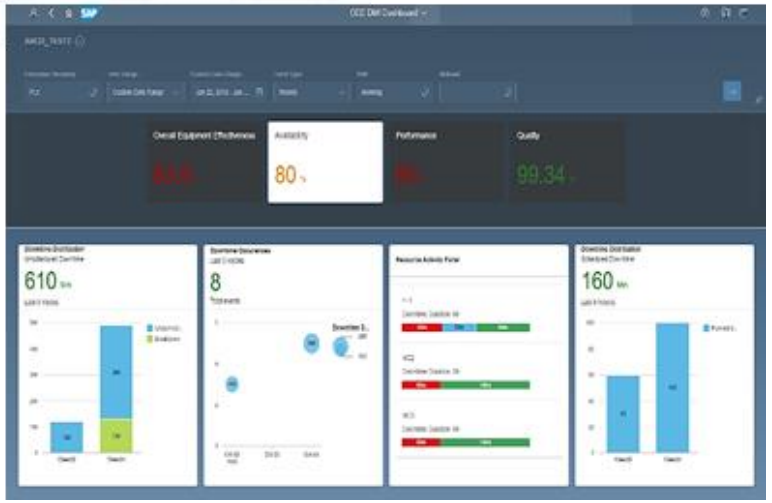
Connected Plant / Energy Management



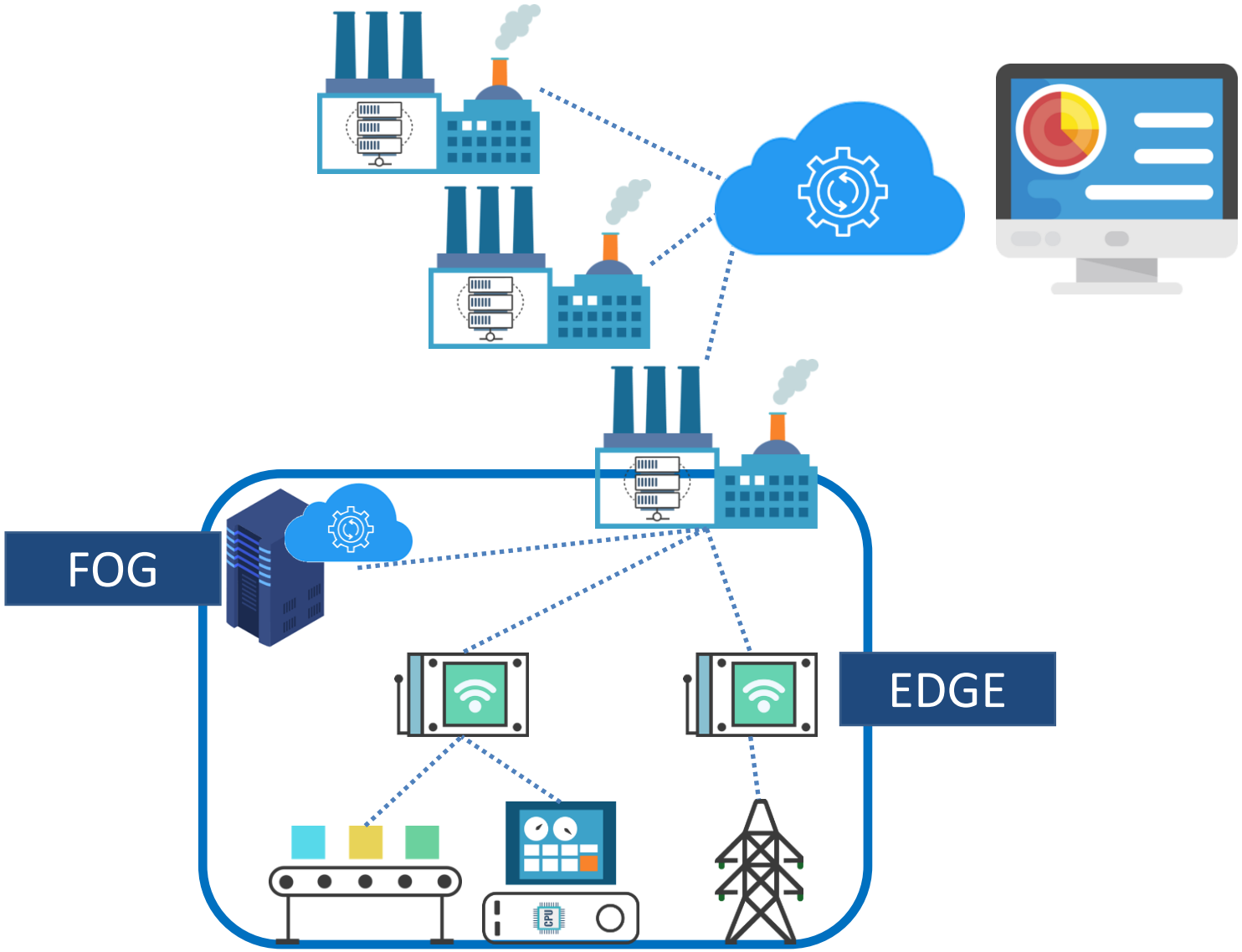
Connected Plant / Energy Management

SAP Cloud Platform

- Big Data analysis
- Machine Learning
- Predictive Models



Connected Plant



- Multitenant Data Segregation
- Aggregated data analysis
- Overall Performance indicators
- Servitization

- Overall Efficiency
- Manufacturing Execution Systems
- Maintenance
- Energy Management
- Local Data Elaboration / Storage

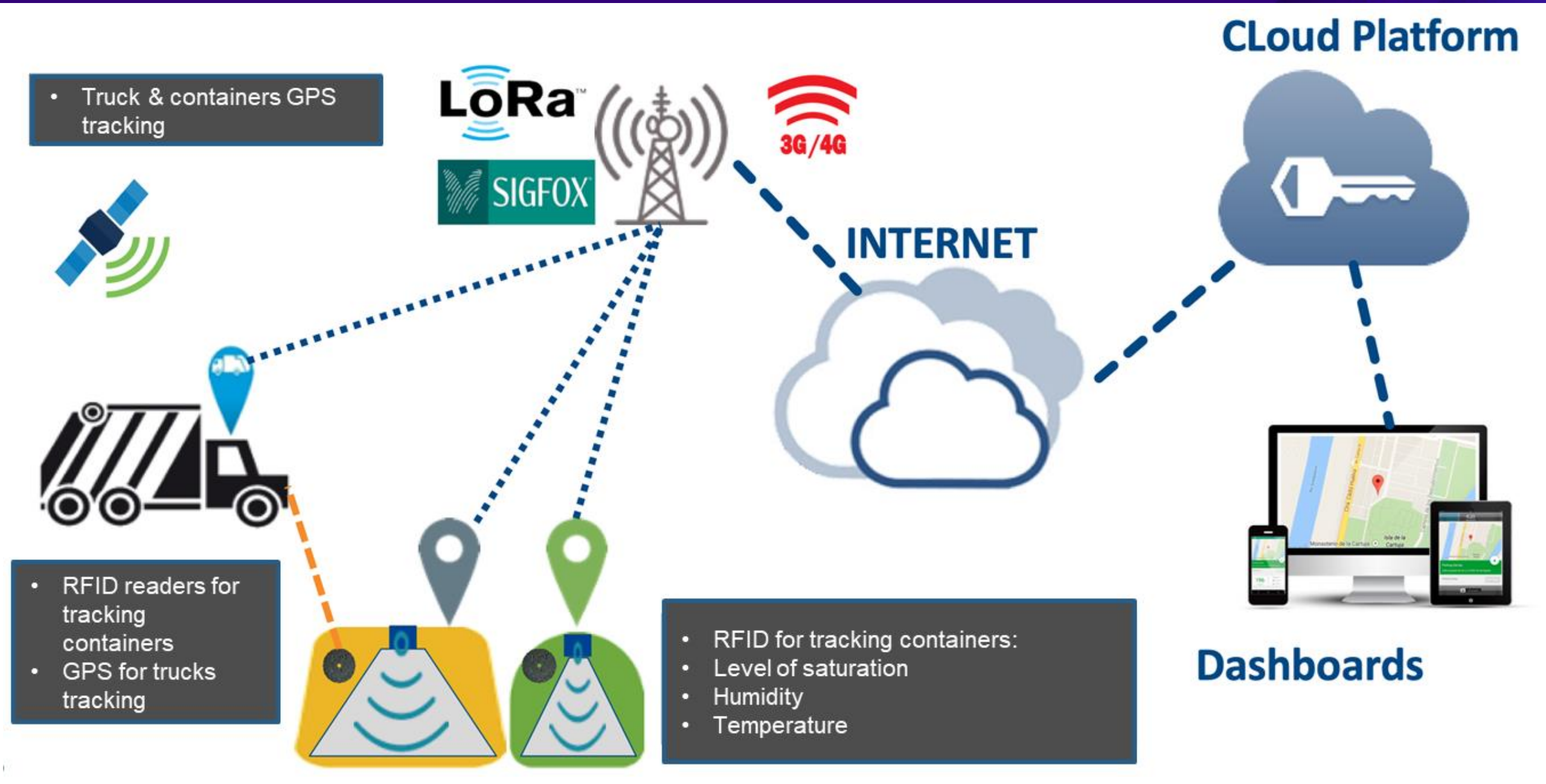
accelerometer — cabling
inclinometer — cabling
extensometer — cabling

DATA COLLECTION

DATA ANALYSIS

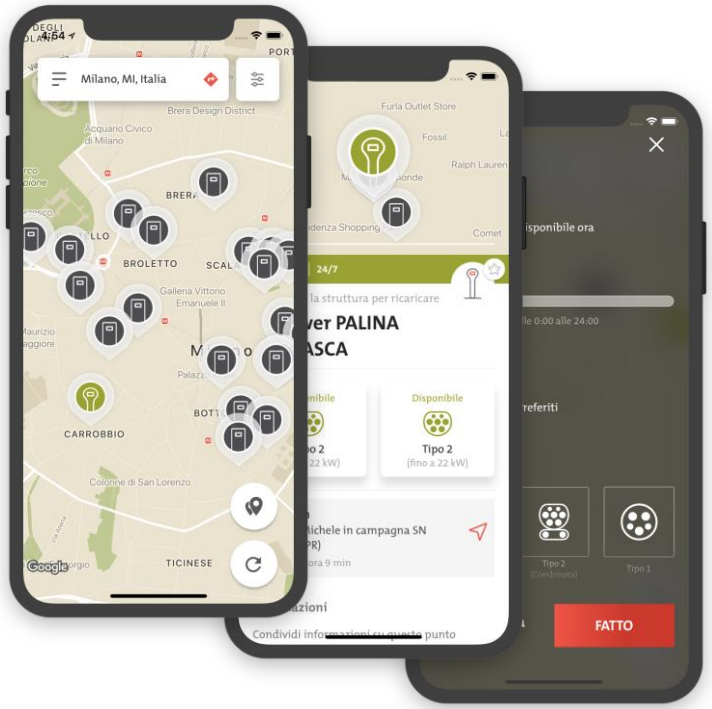
MAINTENANCE TASK

SYSCONS
CONNECTED SUPPLY CHAIN SOLUTIONS



Recharge Around provides information of thousands of charging station

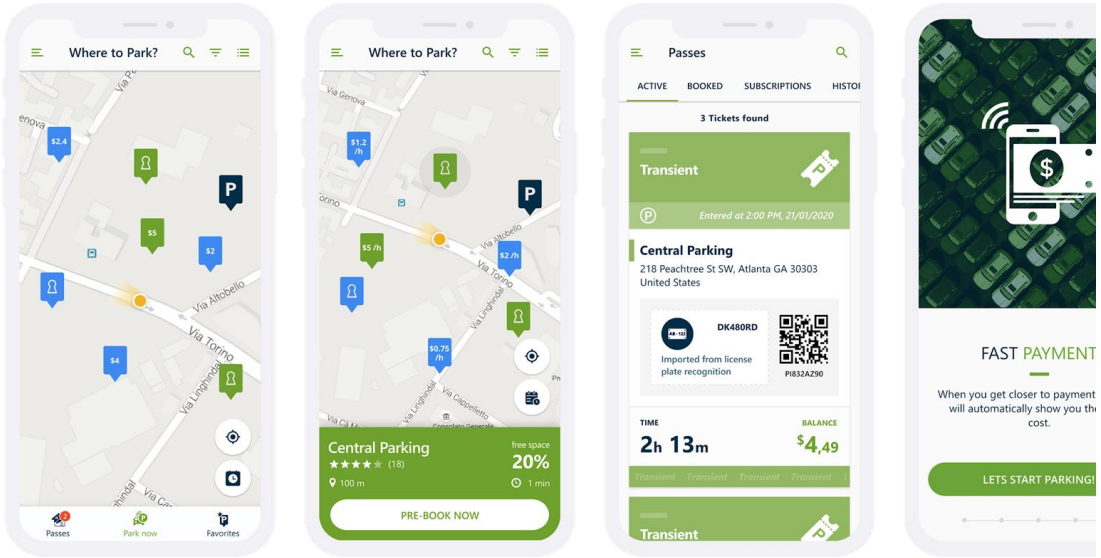
Recharge Around

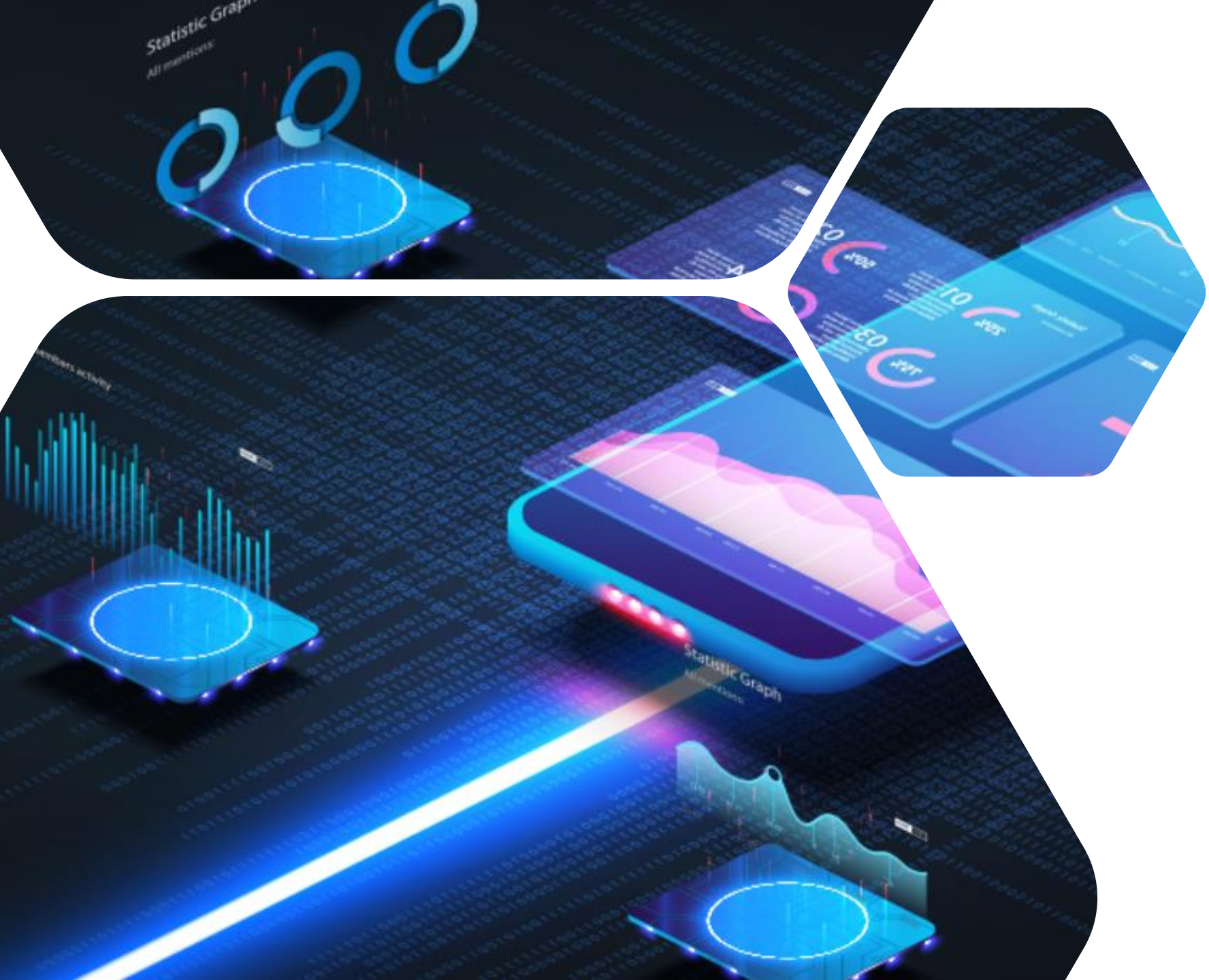


- Search charging points by position, provider, socket…
- Identify them visually on the map by energy provider and status/availability
- Show charging point details (socket, accessibility, working hours, feedback…)
- Manage directions to charging points
- Manage charging points reservations
- Manage Start&Stop of charging points
- Manage Payments & Invoices & Reports

JPass allows users to easily, smoothly and securely **book**, **find**, **enter**, **pay** and **exit** a designated parking garage by simply using a smartphone:

- Frictionless user experience using **Bluetooth** technology, **License Plate recognition** or **QR** for entry and exit the parking.
- Find parking sites
- Booking a parking session
- Subscription management
- Smart Ticketing
- Fast Payment
- Passes wallet
- ON & OFF street parking





SYSCONS
CONNECTED SUPPLY CHAIN SOLUTIONS

Why Syscons

Knowledge & Competences

Hardware

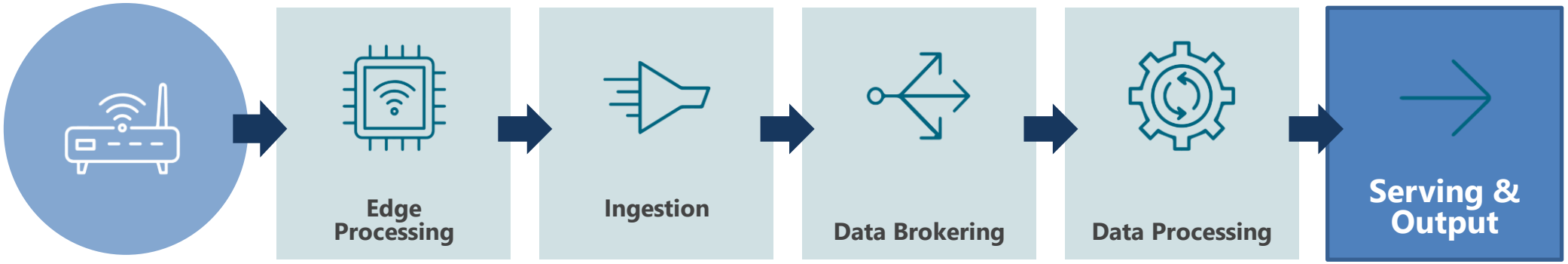
Field Protocols

Data Platforms

Business Process

Connectivity

Analytics



Field Eng.

Cloud Eng.

Process experts

Edge Computing Developers

Data scientists

Developers

Delivery

ANALYSIS → **Pilot** → **Realization & Deploy** → **Evolutions & Support**

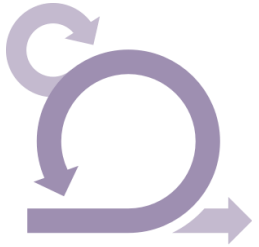
Project Definition
- Full Scope, benefits & impacts
- Technologies & Solutions
- People & Responsabilities
- Pilot and deploy plan

Deliverable
- Project Blueprint

Setup of Cloud & IIoT Platform (Dev & Prod)
Minimum Hardware installation
IIoT stream configuration

Deliverable
- Infrastructure up&runnig
- Data ingestion
- MVP data processing & visualization

Full data processing & visualization
Full scope deployment



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