

Red Hat
Summit

Connect

Atos Edge AI & IoT

8 Nov. 2022

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Cloud Consultant – Cloud Enterprise Solutions – Italy

Atos

 Red Hat | [intel.](https://www.intel.com)

Atos at Glance

Atos

Global leader

- Secure and decarbonized digital
- Cloud and managed security services worldwide
- IoT Services & Solutions
- Identity governance and administration

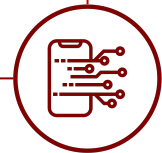
Pioneer in

- **Edge server** technology
- Quantum technology with the Atos Quantum Learning

Best-in-class computing power

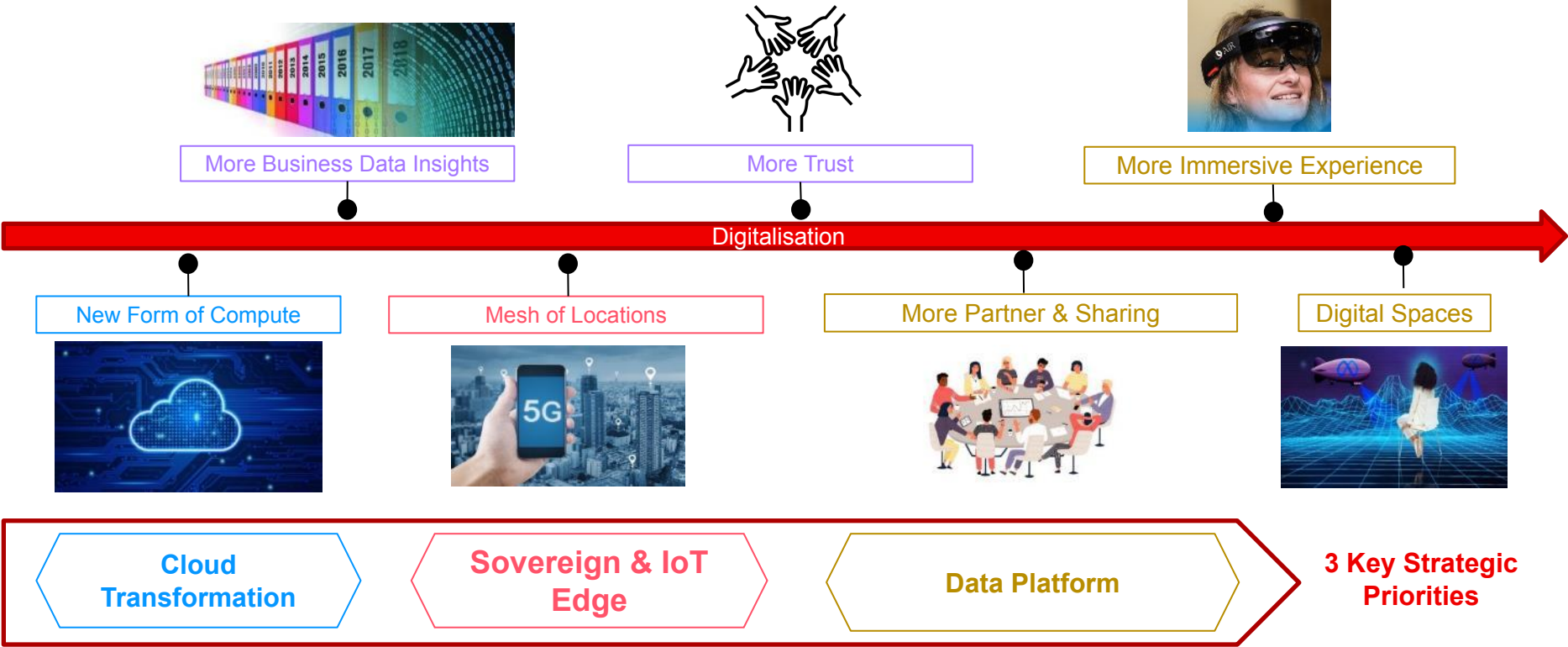
Supported by the talent and diversity of 107,000 employees in 71 countries we generate an annual revenue of €11 billion.

We offer our clients a range of market-leading digital solutions and products alongside consultancy services digital security and decarbonization offerings.



Atos Strategic Technology Vision aligned with Red Hat Strategy

Clients' path to Digital Transformation





IoT Offerings for every industry

Transforming data into business outcomes










IoT4RS

- **Remote inspection** 
- Smart Grid 
- Smart Metering 
- Water waste management 
- Connected Vessels 
- **Autonomous stores** 
- Intelligent Supply Chain 







IoT4PSD

- **Video Surveillance** 
- **Incident detection** 
- **Crowd Control** 
- Smart Mobility solutions 
- **Smart building** 
- Smart Parking 
- Connected Soldier 








IoT4HLS

- Digital Process Twin Pharma 
- **Temperature monitoring & Compliance** 
- Virtual care & monitoring 
- **Digital Hospital** 



IoT4MAN

- **Predictive maintenance aaS** 
- Smart Control Room 
- **Connected Vehicles** 
- Digital Shopfloor 
- Remote Expert Support 



IoT4TMT

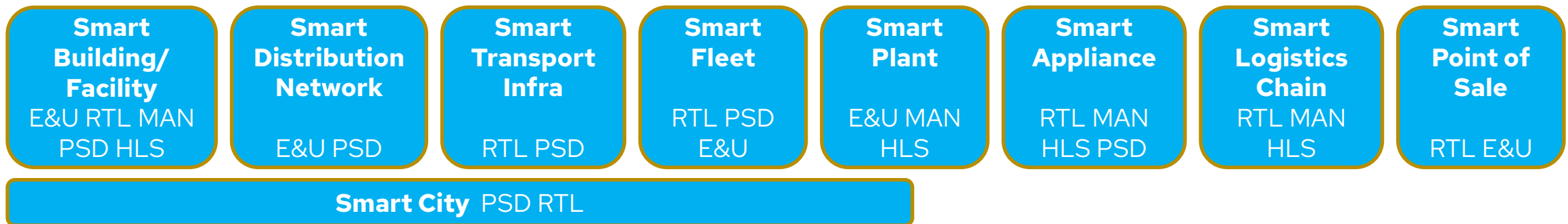
- Remote Production 
- Predictive Maintenance Entertainment infra 
- **5G/Edge/MEC** 
- Data Intelligence 
- **Digital Twin Networks** 



IoT4FS

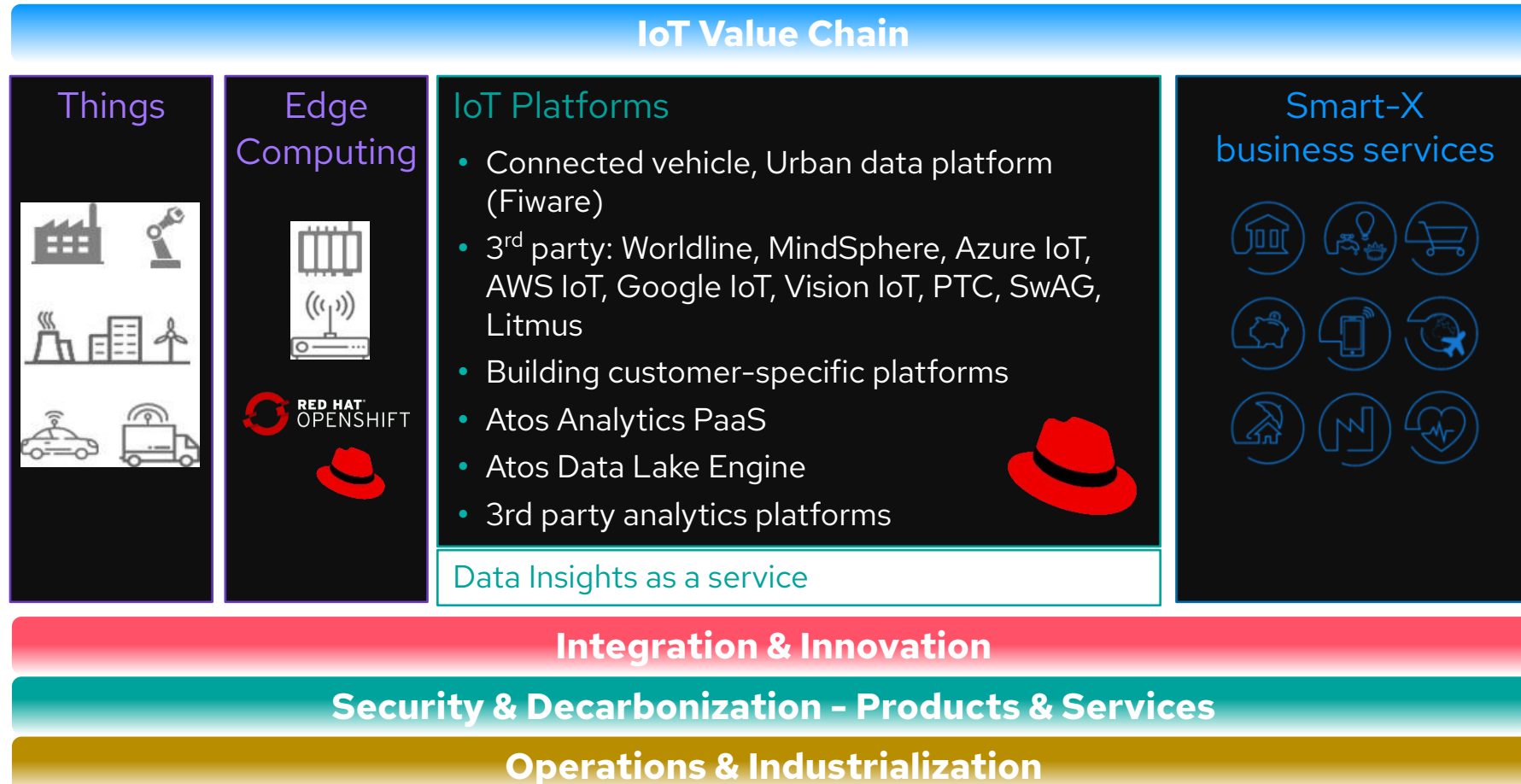
- Pay how you drive 
- Smart Performance Finance 
- Fraud prevention 
- Smart Branch banking 
- Customer Loyalty services Networks 

Go-to-Market: Use Cases bundled into Smart X Themes



IoT is the key enabler for Digital Journey for Customers

We cover the end-to-end Value Chain for our customers' IoT Use Cases



AI and IoT analytics at the Edge

Atos is delivering end to end solutions – focused on outcome as a service



Smart Cities
Video Protection,
Violence detection,
Traffic management



Factories
Quality Inspection, Physical
Security, Access Control,
Predictive maintenance



Energy & Telco
Augmented
Technician,
Perimeter
Inspection



Retail
Shelf Monitoring,
Retail analytics



Healthcare
Patient
Monitoring



Transport
Intelligent train
station



Smart venues
Contactless access
control
Crowd management

Services

Atos Strategy, Consulting, Integration, ML-Ops, Data Science, Managed Edge ...

Software

Atos VISuite
(from Atos Computer Vision Platform)



Partner
solutions



Platforms

Atos Atos Computer Vision Platform Predictive analytic
solutions (Zdata, BDSS, Codex Smart Edge)

Ecosystems



Edge and Fog
Hardware

Atos



Technology
Partners



Atos Red Hat Partnership over 10 years

Average 30% Growth per year: Atos Contract value > €400M

Major Cloud Successes :

- Atos Managed OpenShift AMOS (since 2018)
- Built in Red Hat Open innovation Labs
- All Industry sectors across EMEA
- Strong Collaboration with Red Hat services



Red Hat - Premier Global System Integrator Partner



Global Innovation Award Winner



Dedicated Atos team for Bus Dev / Pre-Sales Architecture



Approximately 2000 certification and accreditations

Atos and Red Hat for Edge Computing

Average 30% Growth per year: Atos Contract value > €400M



Innovative Edge Infrastructure

A swarm of μ Edge streaming data captured from any device to powerful Edge servers for analytics inference designed to run anywhere



Extensive 5G Capabilities

Private bubbles from a few meters to kilometers, with network slicing to service multiple core functionalities on an effective and scalable environment



Outcome-as-a-Service

Business outcomes are driving our efforts, from initial engagement, technology to consumption model, it only matters if the customer wins



Flexible Cloud Enabled Edge Platform

From Edge to Cloud, we build reusable components on seamless scalable cloud-based architecture



Codeless Secure Data Pipelines

Modern data pipelines are like a copy-paste, from anything to cloud. No need for hundreds of lines of code.



Cloud Native Build

Using containers from μ Edge to Cloud allows a great flexibility and synergy between all components along the data chain



DevSecOps

Planning, designing and building modern secure CI/CD pipelines for app dev environments with regulatory support

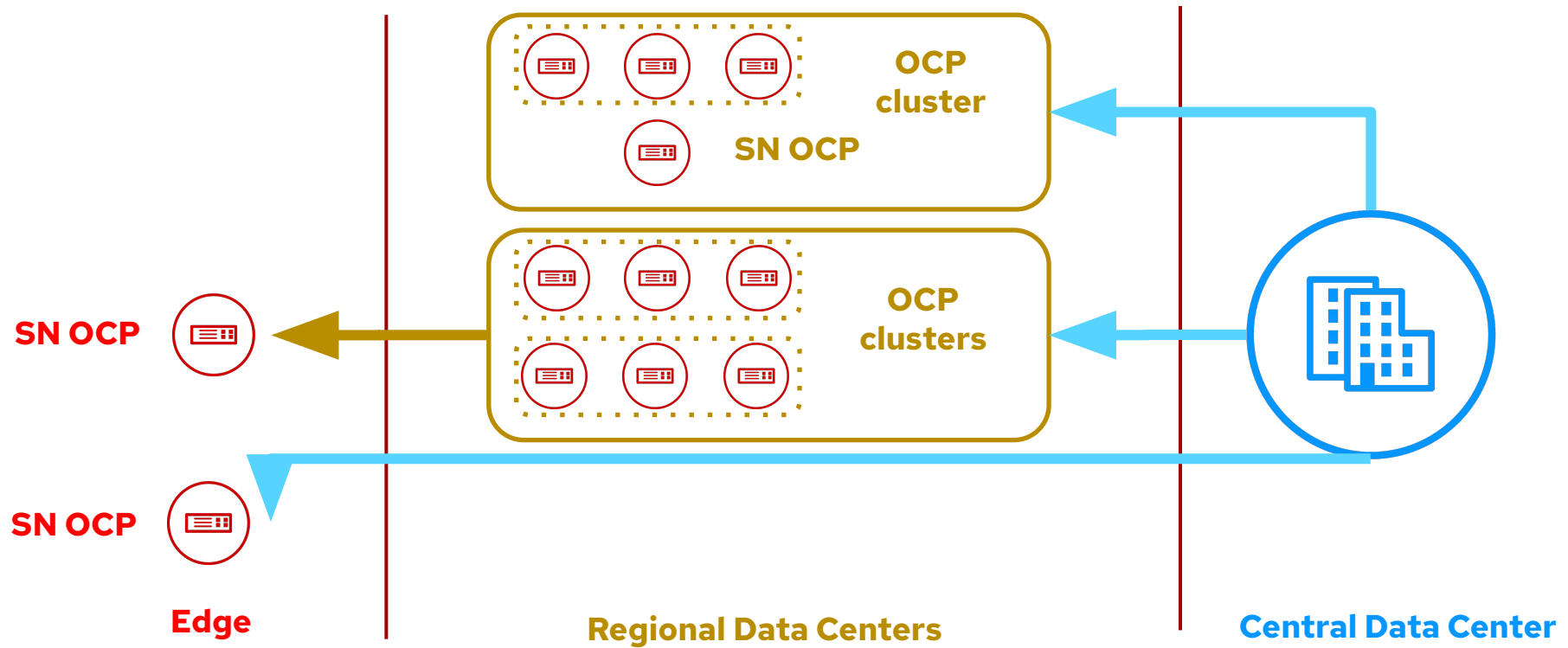


Managed Services

World's most comprehensive catalog of services based on Kubernetes to support build and management of modern applications

Single Node OpenShift

Platform consistency between datacenters and edge



AMOS Value Added Features

Container Image Handling

static analysis of vulnerabilities
advanced container registry
image signing

Application Migration Tooling

Atos Cloud Assessment (ACAT)
Remediation Tools (CCAT)
Migration from OCP 3.x to 4.x

External Log-aggregation

OpenShift generated artifacts can be stored on external Aggregator

Self Service Portal

Available for Project and User management

Customer Identity

Management integration
Integrate the existing customer's directories with SSO

Sovereign & IoT/Edge

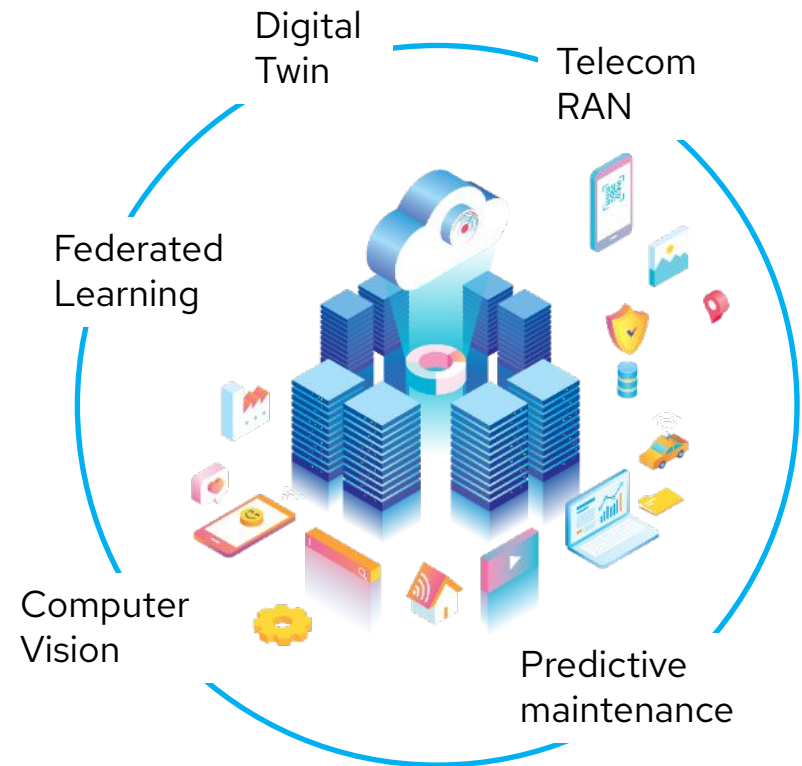
To get the real value of the local or sovereign data

FROM
Data-centers
Public cloud
IT OT



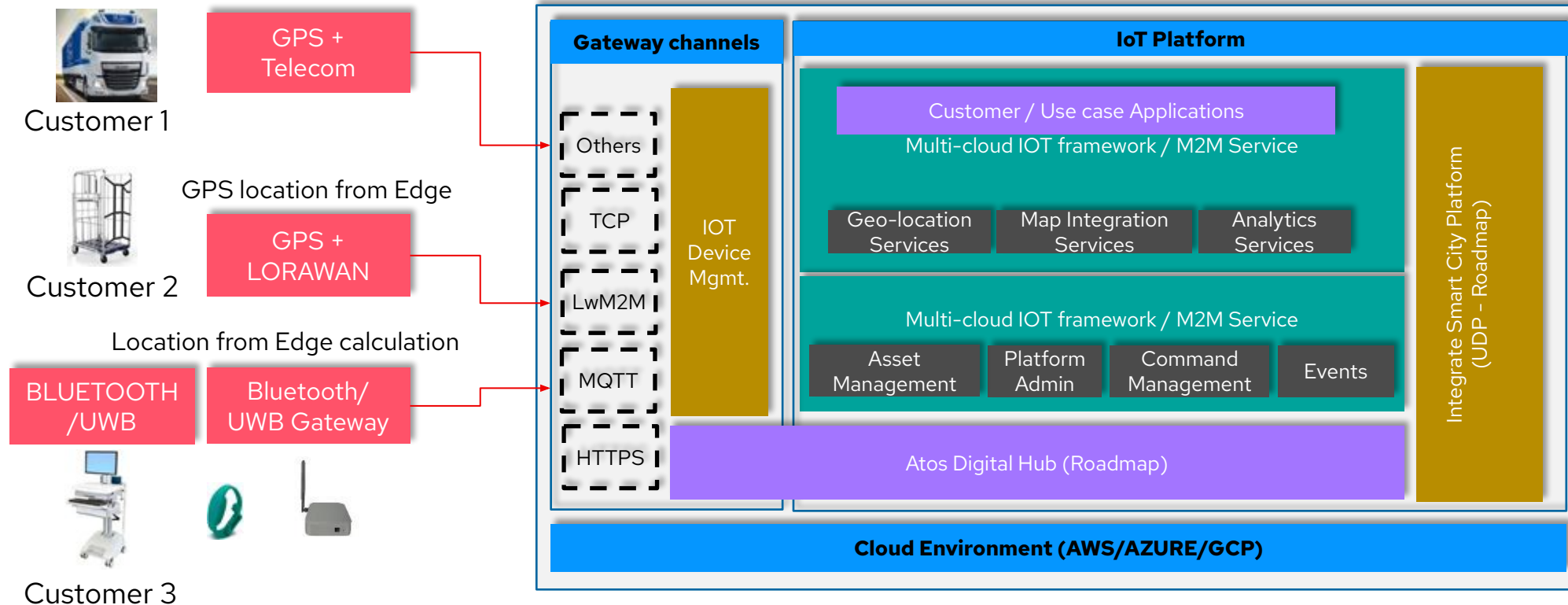
TO
Computing Continuum with interconnected ecosystem
Edge & Cloud distribution
Energy efficient local data processing (data gravity)
Low latency services (5G/IoT)
Sovereignty

Cybersecurity mesh, IAM, MDR
Private Network/5G
IT & OT convergence to IoT
Edge platform & intelligence
Predictive maintenance
Sovereign Cloud
Trusted Data Spaces



M2M Gateway on the Cloud

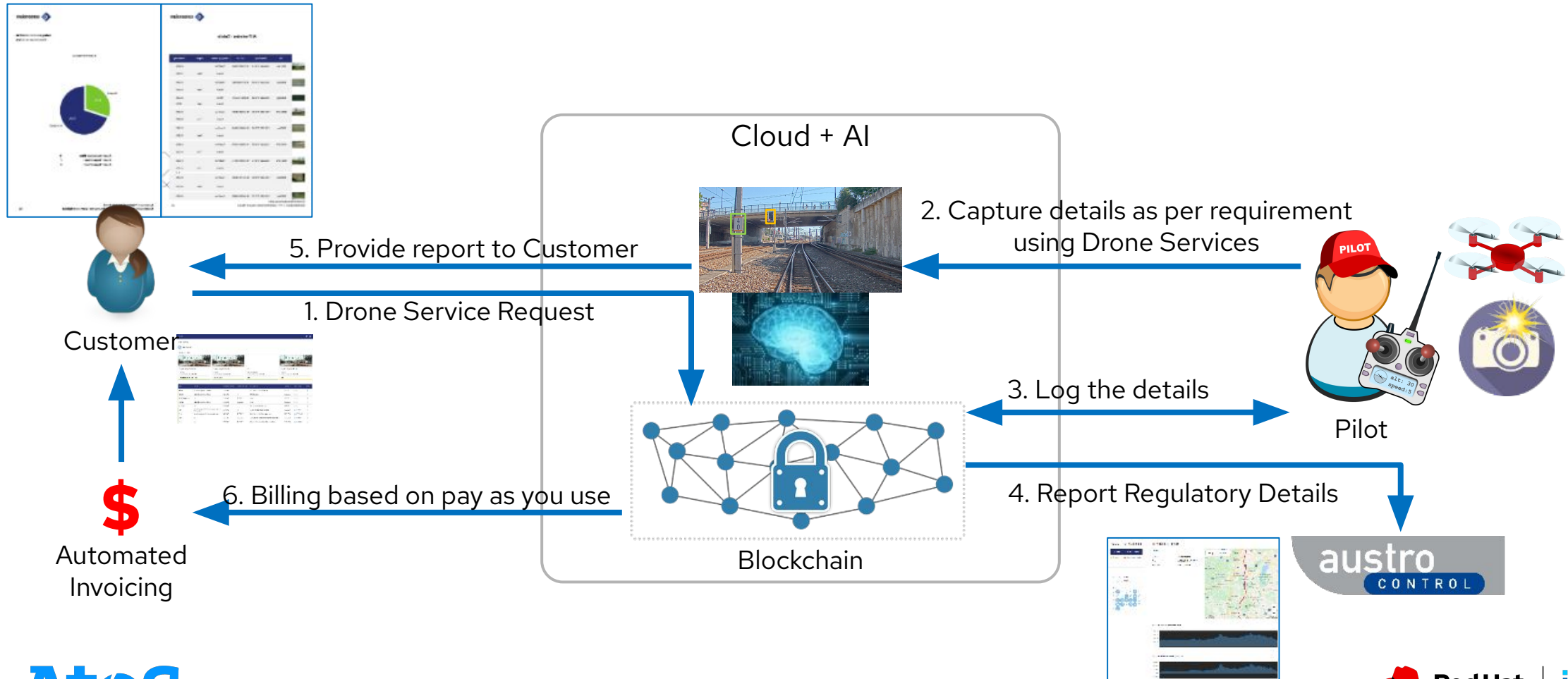
Enables device management for diverse range of IoT devices & use cases



- Handling of Upstream sensor data & Downstream Device Management
- Plug & Play Communication Layer to handle Indoor/Outdoor scenarios and Connectivity Protocols

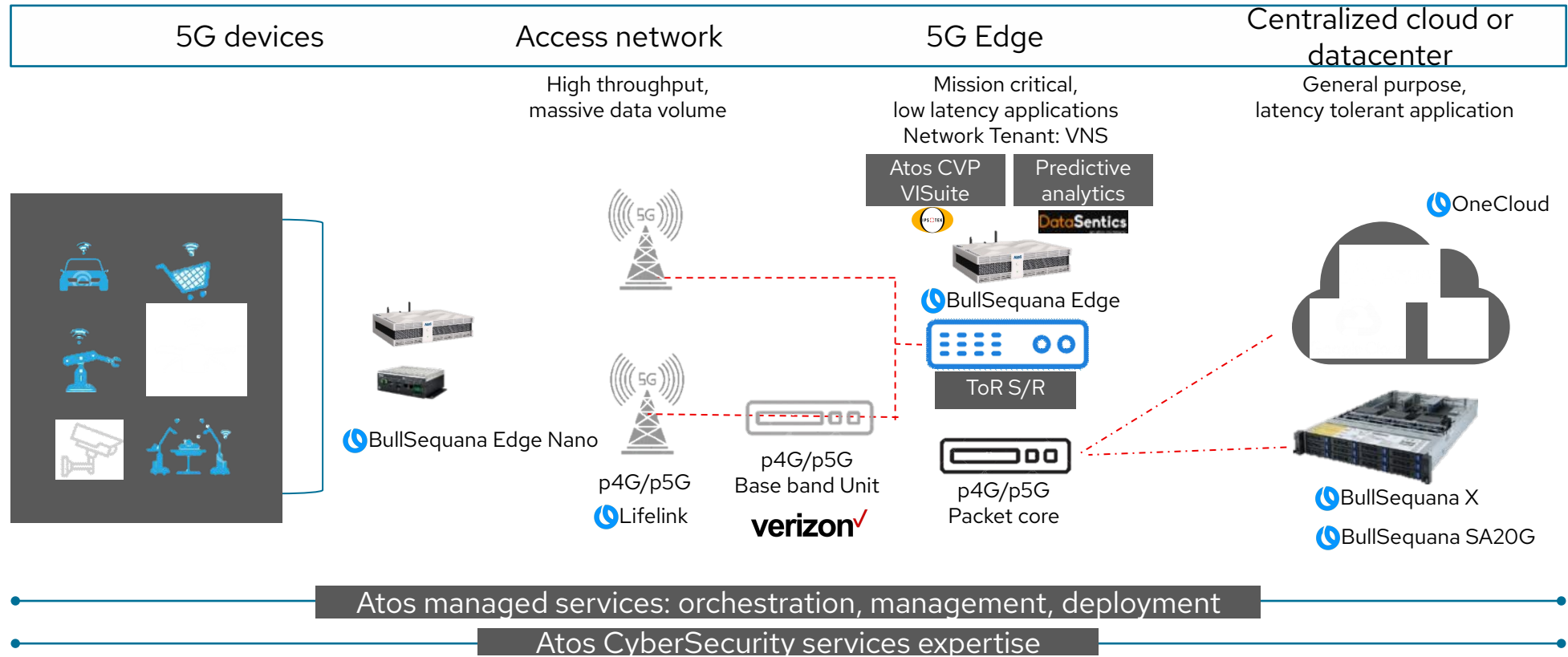
The Atos UAV Solution - ARCA ingeniosa

A Scalable End 2 End Automated Service Delivery Platform



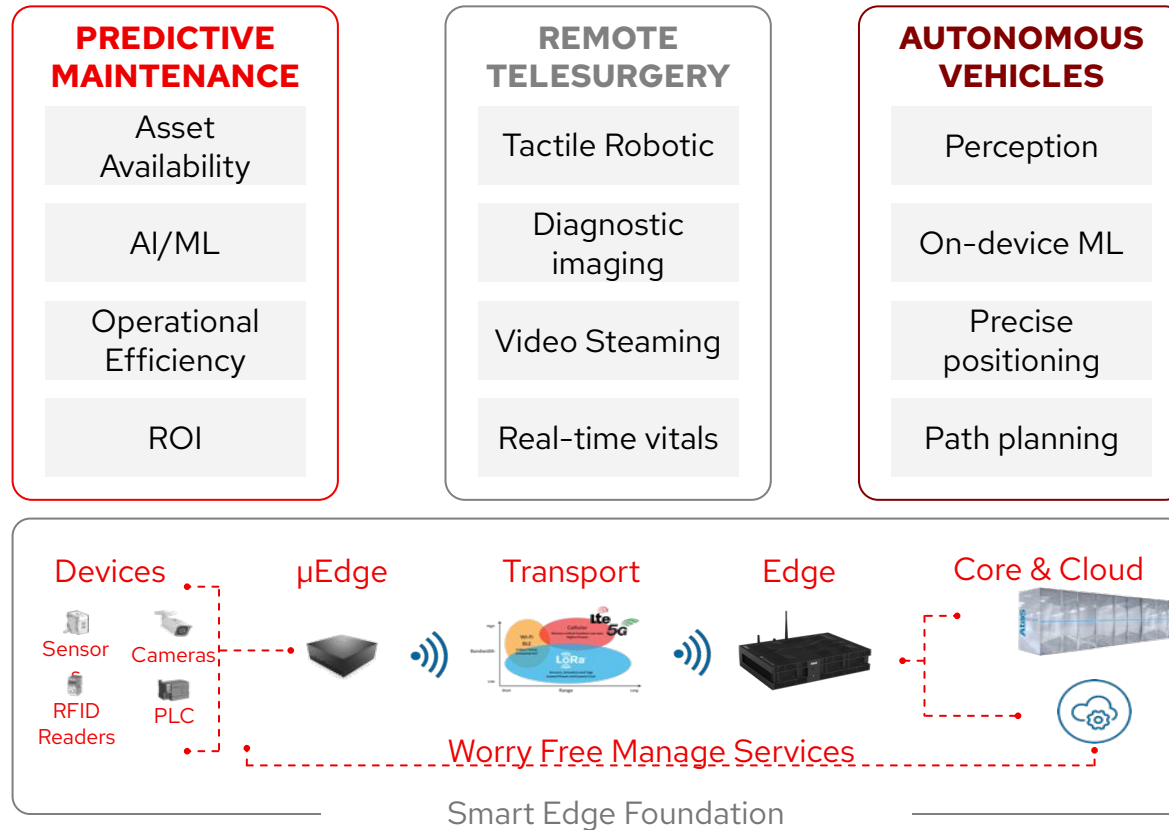
Atos 5G Private MEC architecture

All-in-one easy to deploy architecture



Smart Edge Services enabled by Atos and Red Hat

Focus on new value chains



Consulting

Product ownership, agility discipline, change management

Data Engineering

Architecture, ETL, analytics

Data Science

Feature extraction, model development

IaaS/PaaS

Core infrastructure, DevSecOps, CI/CD

Experience Design and Delivery

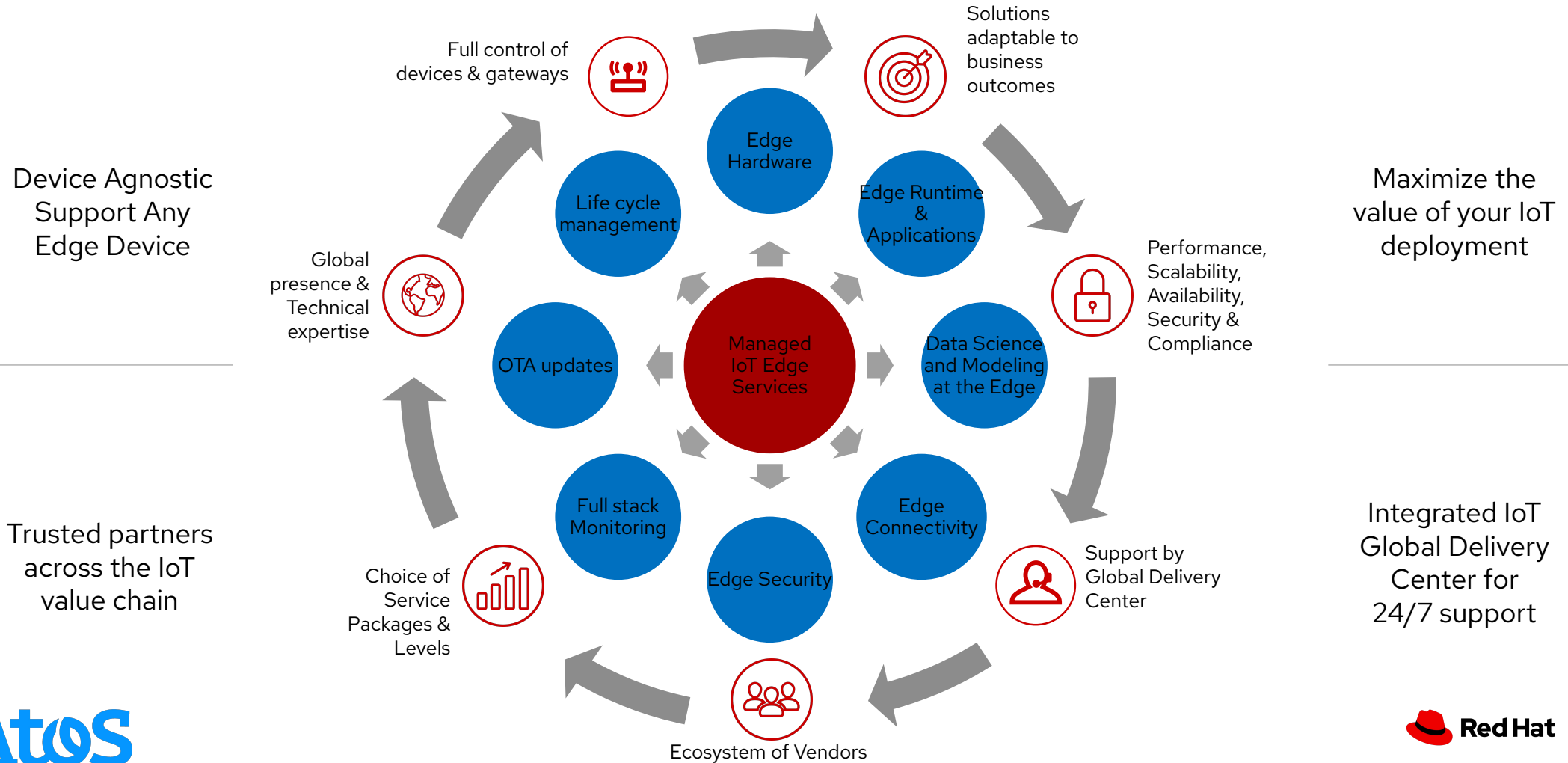
Journey mapping, visual design, app dev

Managed Services

Hybrid (on-prem and cloud) management model

Managed IoT Edge Services with Red Hat

Holistic and Vendor-agnostic services



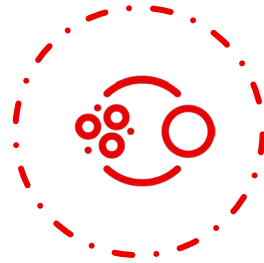
Priorities

Developer velocity
**Deploy applications
anywhere**



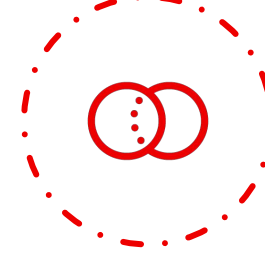
Act with speed and agility
and adapt to the needs of
the business

Operational Agility
**Minimize operational
challenges**



Provide new solutions for a
variety of distributed
application environment

Business innovation
**Address new
opportunities**

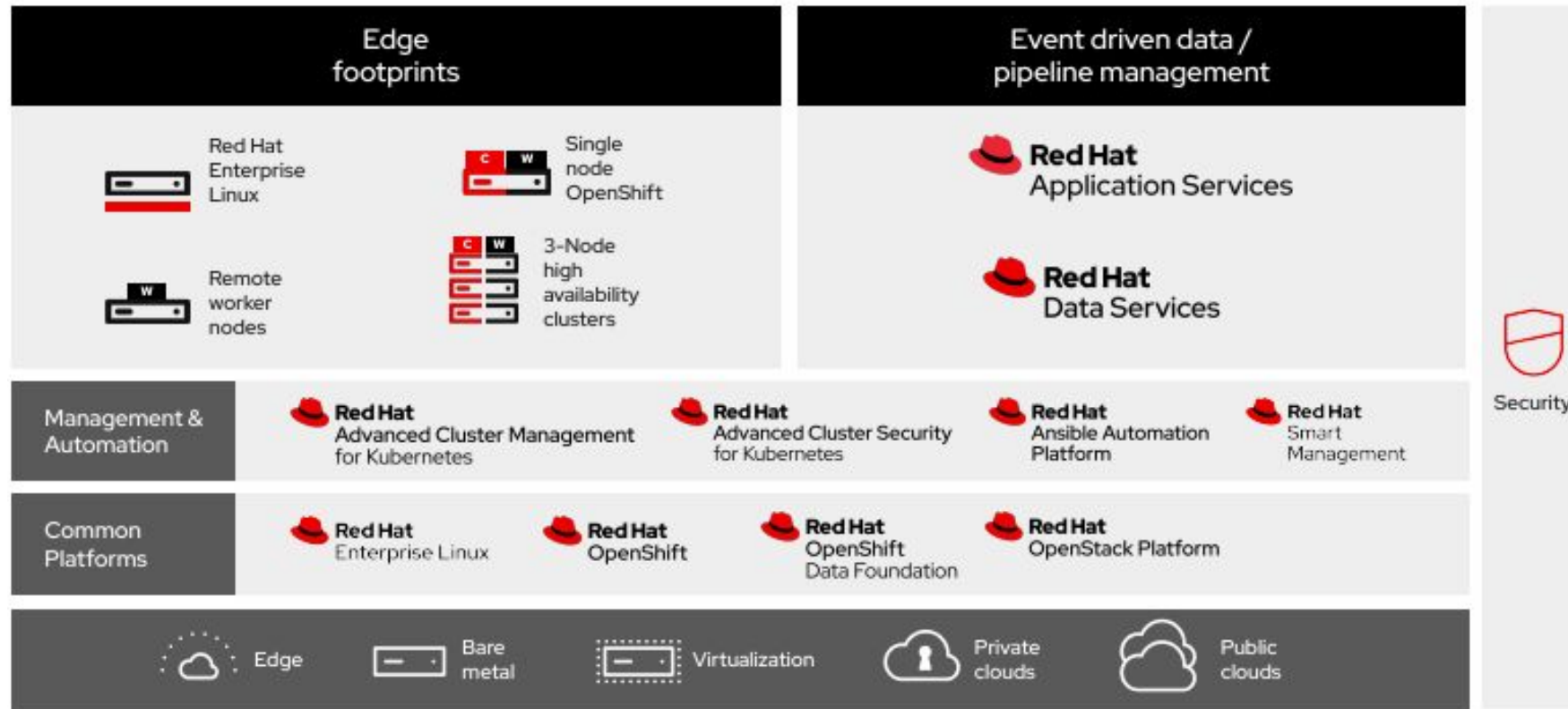


Enhance innovation, increase
productivity, and offer better
products and services



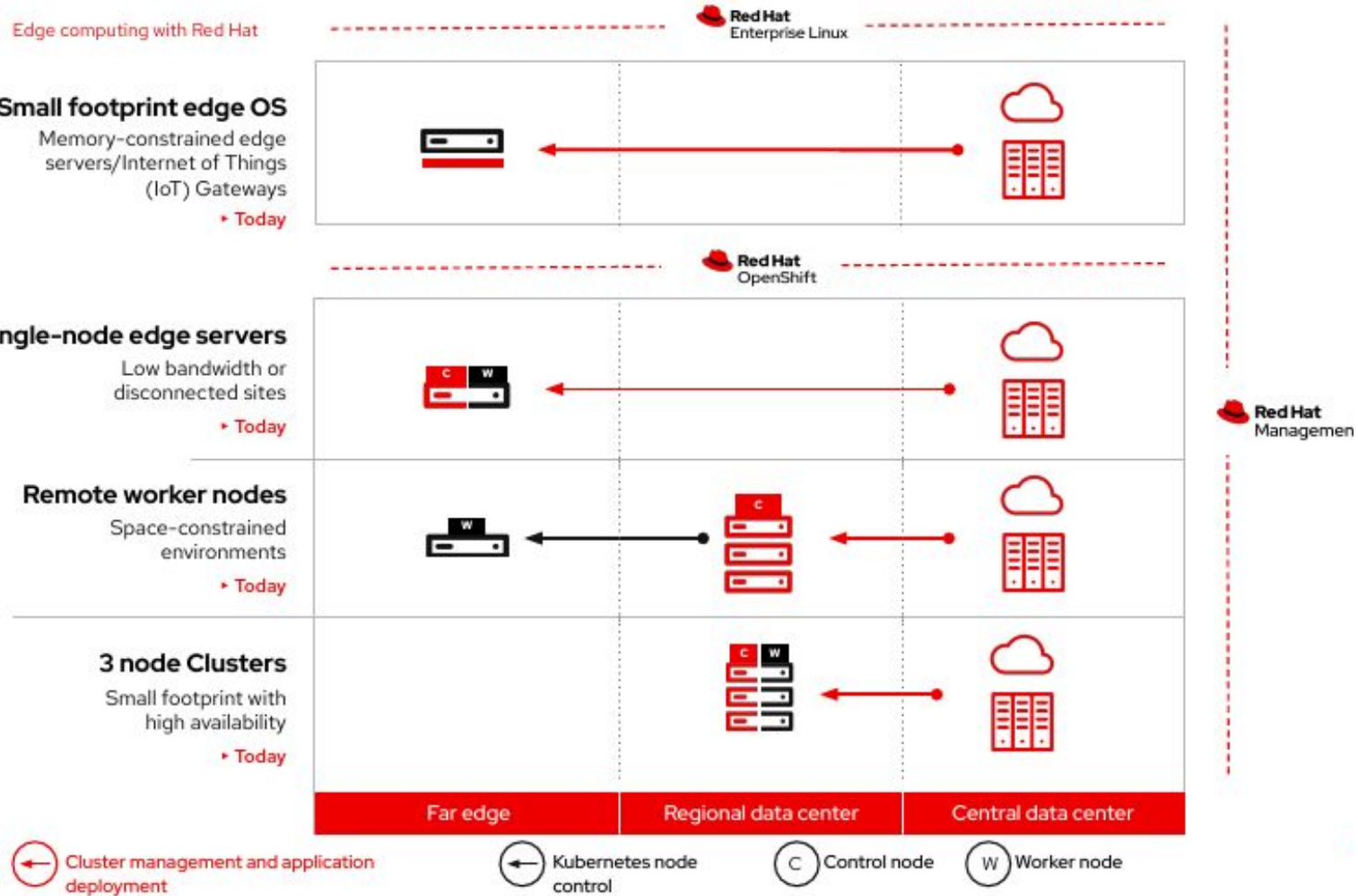
Red Hat Edge

Red Hat Portfolio



Red Hat Edge

Common Patterns



Atos IoT Capabilities at a glance



Atos addresses **customer challenges** with **end-to-end IoT capabilities**



Atos invested **pre-integrated Ready-to-go IoT solutions** with high profile brand-name customers



Atos delivers **IoT@Scale** and offers innovative right-of-use and **outcome based commercial models**



Atos has implemented **more than 100 IoT use cases**, enabling **business outcomes** in all our Industries



Unique expertise on **carbon footprint management** and **decarbonization actions**

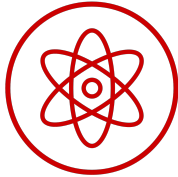
Atos a trusted partner to help drive positive change



Our **107,000 business technologists** across the globe **outstanding response to our clients' challenges**



Focus on **innovation and expertise** in IoT and Edge technologies and services to deliver proven business outcomes @ scale



Industry expertise with strength in **connected and secure services**, supporting our clients **to meet their digital transformation challenges**



Atos is committed to a **sustainable future**, enabling our clients to **achieve their decarbonization goals** through our Green IoT solutions



Investing in Human Capital to enable acceleration in digital economy; creating an **inclusive, diverse and ethical environment** to futureproof employee experience

Red Hat
Summit

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Thank you



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