



Instant future

Leading the 5G low-latency edge



Financiado por
la Unión Europea

NextGenerationEU



Plan de
Recuperación,
Transformación
y Resiliencia

Our Speakers



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Head of Communications & Cybersecurity



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The impact of innovation

01.

Focus on client

Detecting the most innovative business and technology needs of our customers

02.

An innovative team

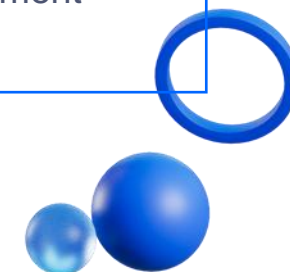
- + Latest technologies mix
- + Telefónica's value proposition and strategy

03.



Real proofs of concept

Solving challenging customer needs through **innovation** as the path to business development



Understanding Telco Edge

On Premises

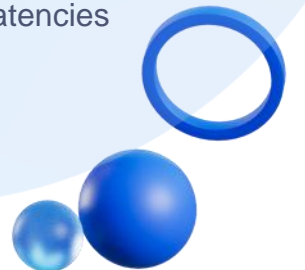
(Industrial Edge, onprem deployment)

- ✓ High performance & low latencies
- ✓ Residence and data control
- ✗ High levels of investment for deployment and operation
- ✗ Use of customer space, complex scalability

Cloud Computing

(Central standard cloud)

- ✓ High elasticity
- ✓ Low barriers to entry
- ✓ Immediate backup, recovery and redundancy
- ✗ Remote data centers, which affects data sovereignty and latencies



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Edge Computing

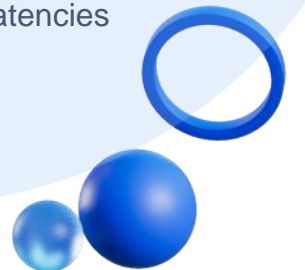
(Telco Edge)

- ✓ National network of regional data centers
- ✓ Smart deployment, integrated with 5G and Fiber connectivity
- ✓ Sovereignty + low latency

Cloud Computing

(Central standard cloud)

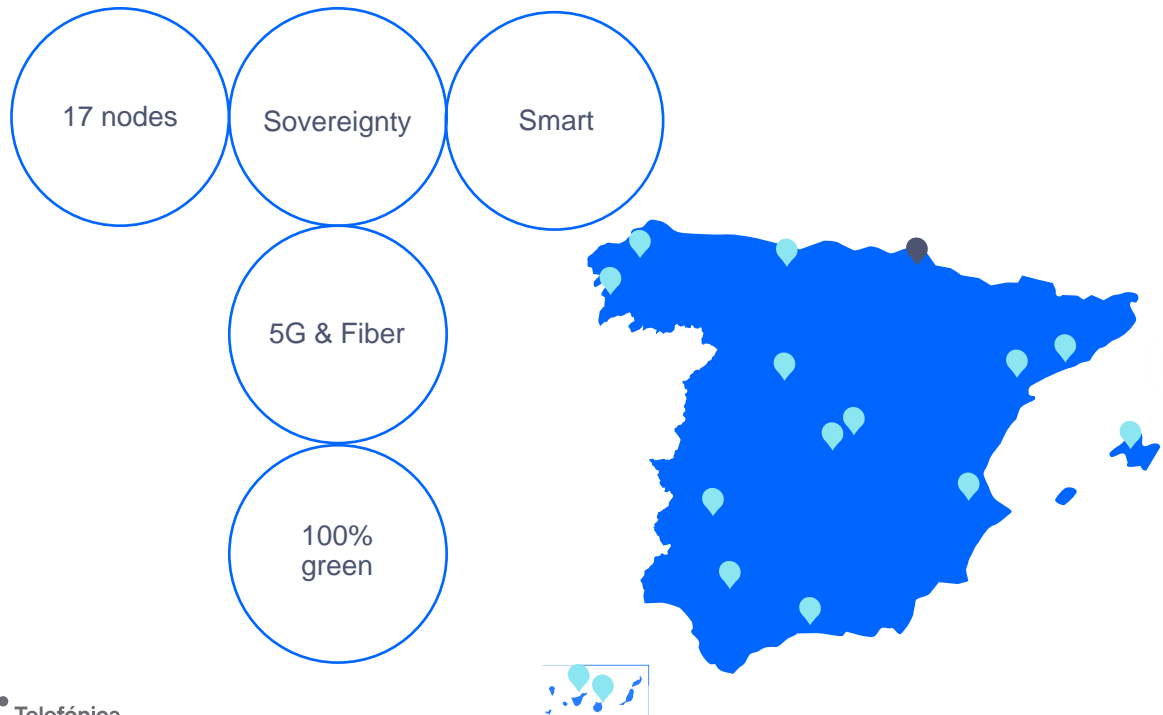
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Leading in Europe

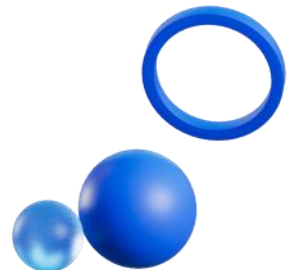
Edge Computing: A distributed cloud close to the customer

Telefónica as national leader



Hand in hand with client

First national Telco Edge productive scenario in Europe



From on-premises to telco edge



An international leader in the design and supply of comprehensive sustainable mobility systems

Need

As AI use cases grow, so does the **need for computing power**.

Thereby increasing the cost of deploying and maintaining on-premises equipment.

Opportunity

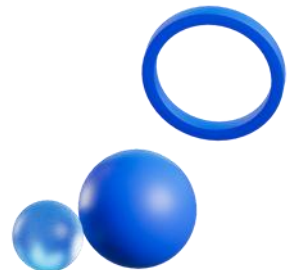
Thanks to 5G and Telco Edge, CAF sees it as feasible to outsource processes.

That, until now, were executed in the train itself (on-premises)

Solution

CAF highly values a **prioritized connectivity**, integrated with dedicated and distributed **computing capacity**.

Providing data sovereignty and low latency

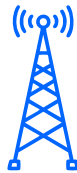


From on-premises to telco edge



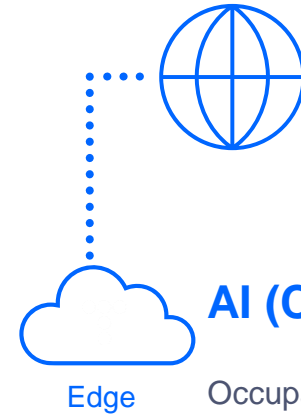
Savings

CAPEX savings and increased scalability



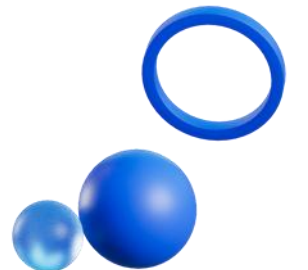
Bandwidth

High bandwidth on the move, with national prioritization capability.



AI (Computer Vision)

Occupation detection and suspicious packages on trains.



Real innovation, pioneers in Europe



Innovations

Results and feedback

Low-latency 5G deployment in Bilbao.
5G Intranet over public network, prioritized via Slicing.

97%

Latency reduction compared to non-prioritized devices in case of congestion

~0% packet loss

Sovereign cloud edge space dedicated to CAF deployed at Telefónica Edge Centre, Bilbao.

10ms

One-way latency between UE and Edge

Use of Operator Platform (**Smart Edge**) for deployment based on CAF requirements

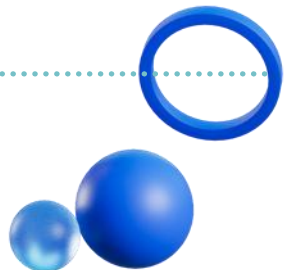
Sovereignty

in Critical Data

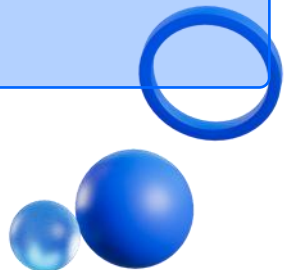
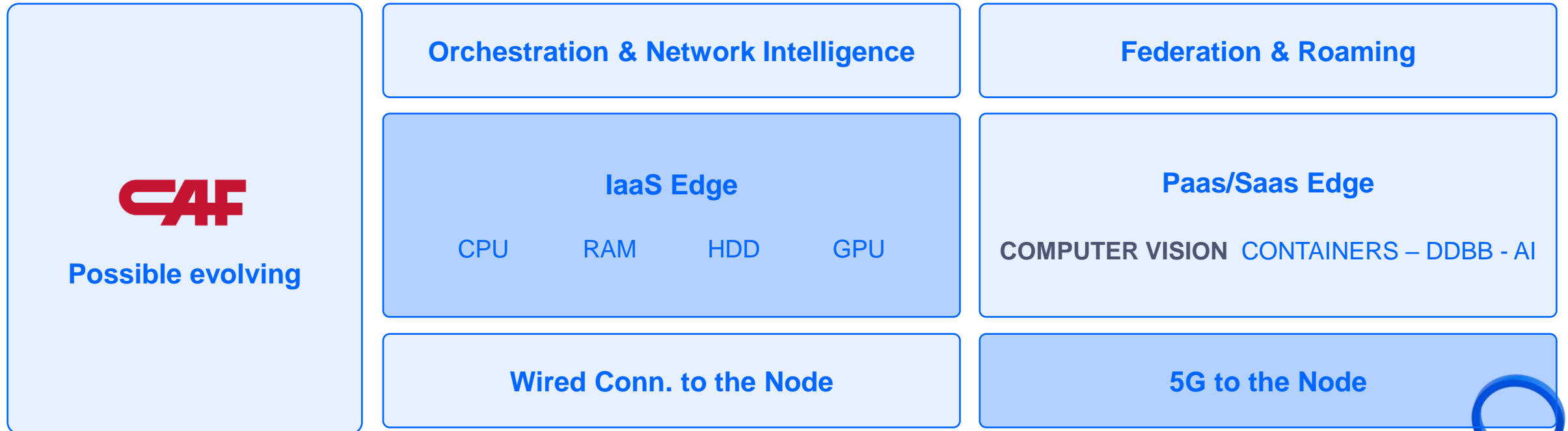
Offloading of **AI Computer Vision** application from on-premises to edge.

Hybrid

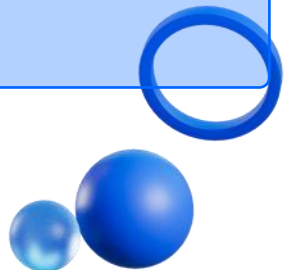
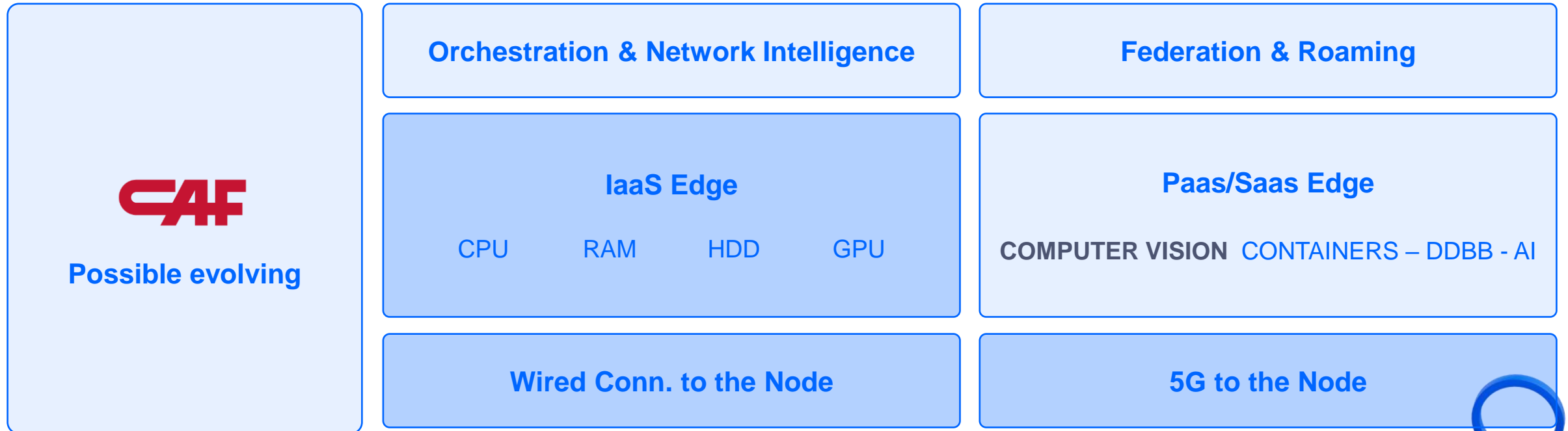
deployments explored



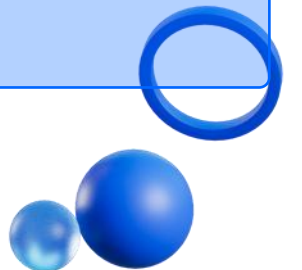
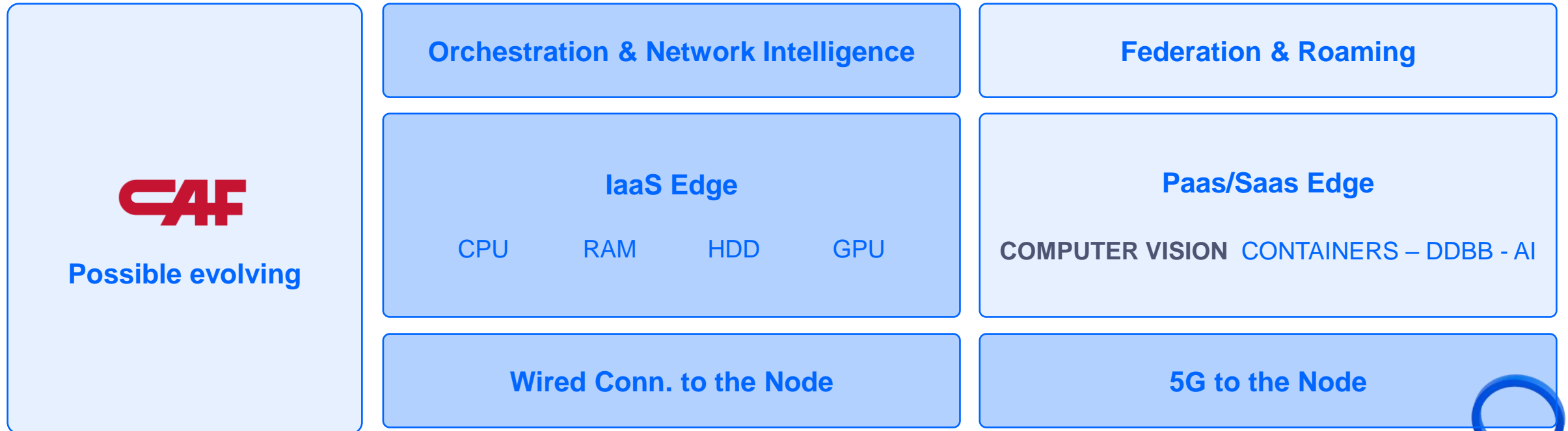
Telefónica offers an Edge solutions Suite



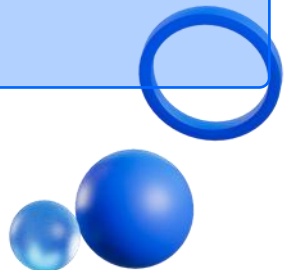
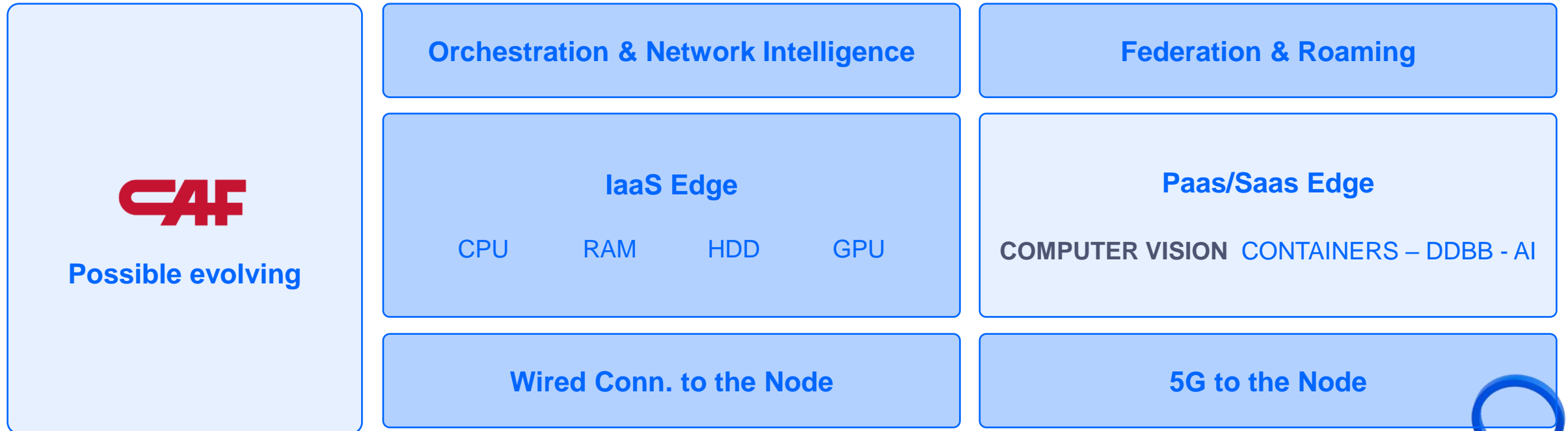
Telefónica offers an Edge solutions Suite



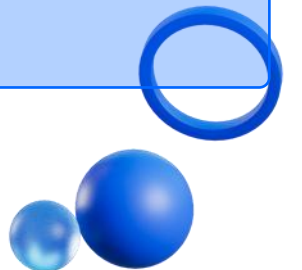
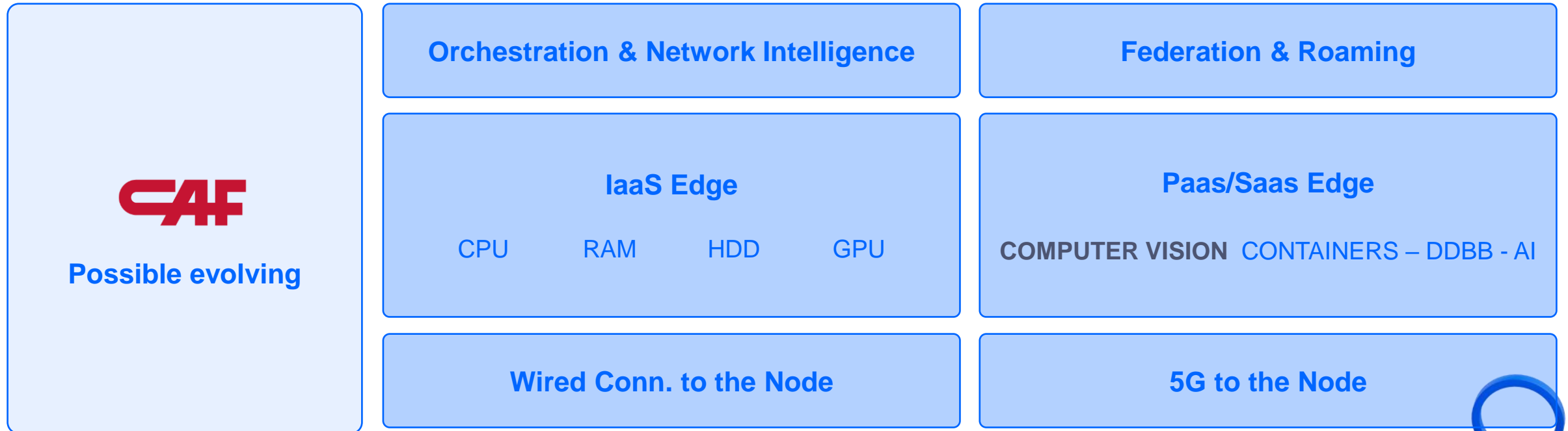
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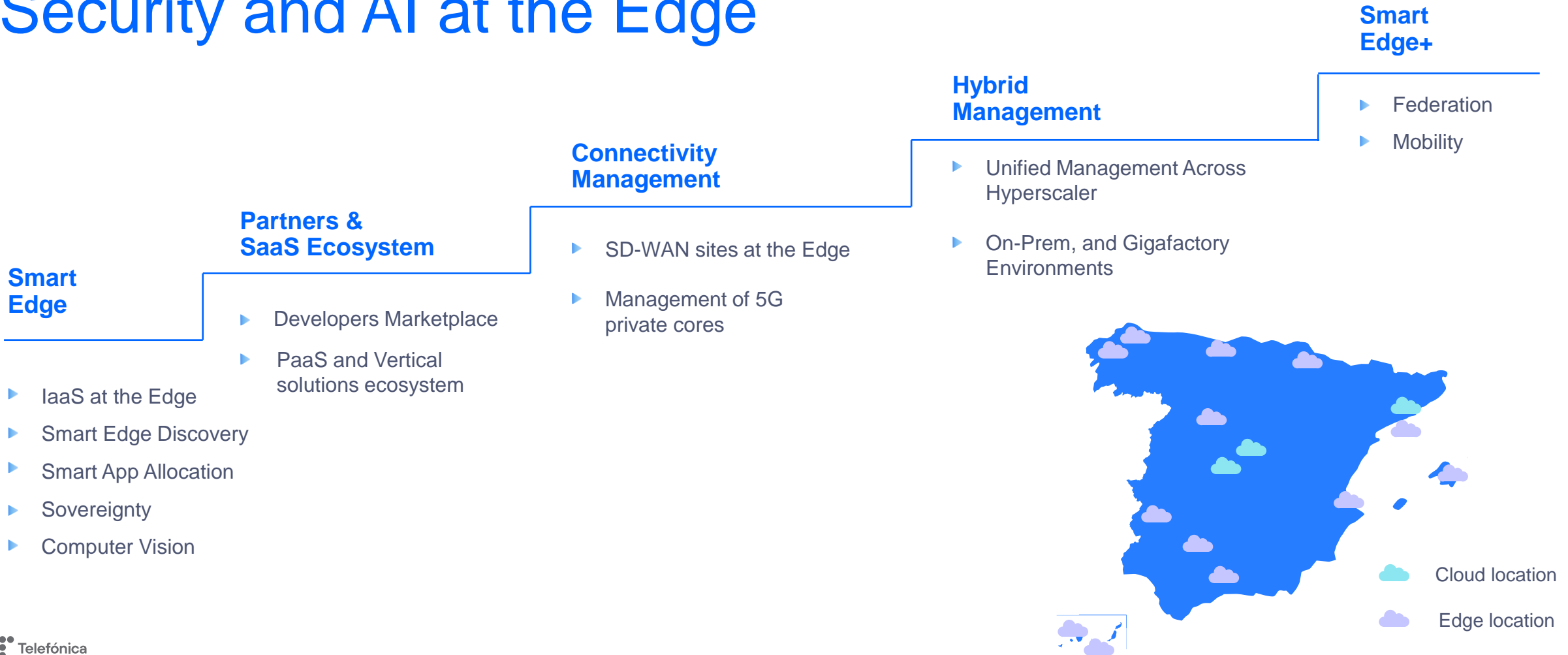


Telefónica offers an Edge solutions Suite



Next-Gen EDGE

Performance, Sovereignty, Orchestration, Security and AI at the Edge





Telefónica's Edge Plan:

European pioneer leading in sovereignty,
advanced connectivity and AI



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