

Leading Change
Inspiring Progress



Driving the development of a European Cloud-Edge Continuum



Funded by
the European Union
NextGenerationEU



Leading Change Inspiring Progress



Cristina Santana Casillas
Head of Telco Edge Computing - CTIO



Lara Grohe
PM IPCEI-CIS & 8ra - DTAG



Ana Lucía Vilchez Parra
Head of JVS Governance & Technical Performance - CTIO



Roberto Procopio
Head of Technology Innovation - TIM



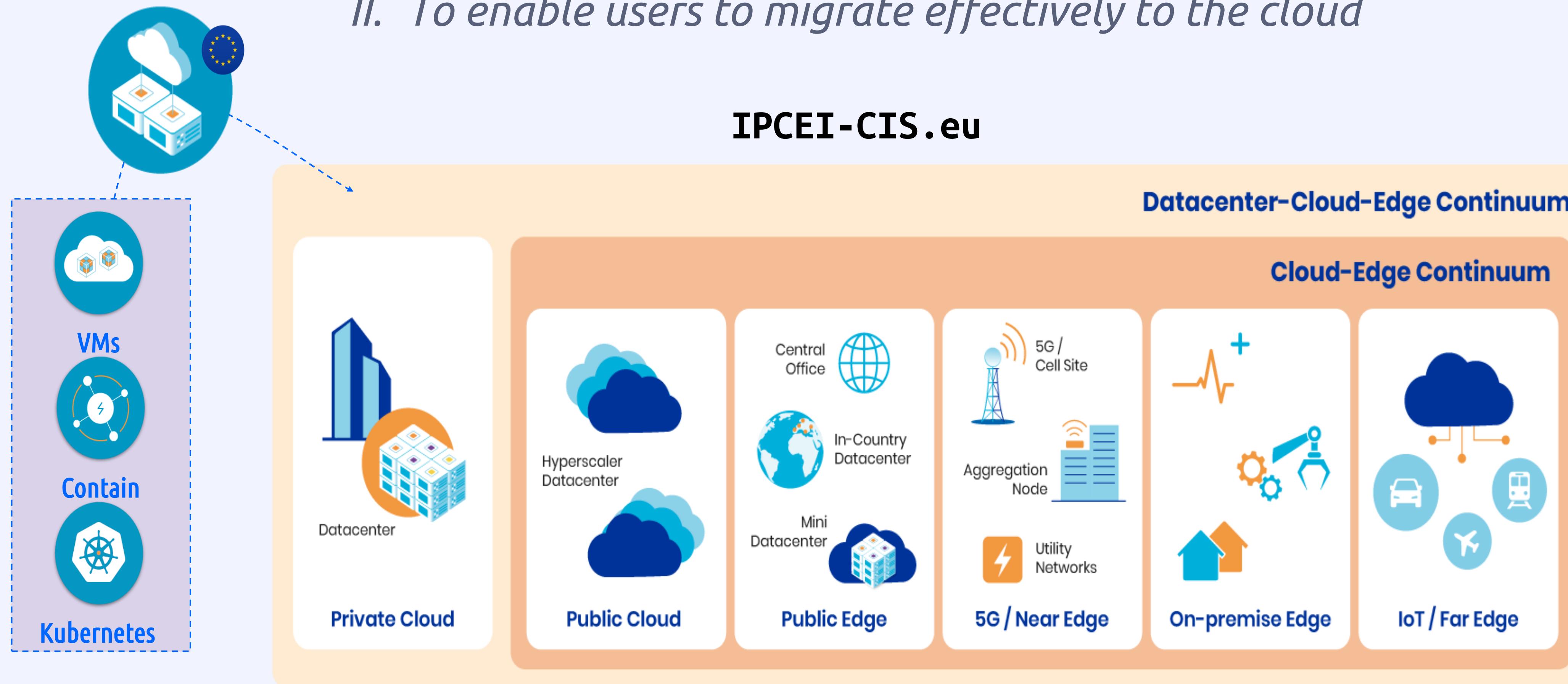
Driving the development of a European Cloud-Edge Continuum

Edge Cloud Continuum



*It is a completely interoperable, **open**, multi-vendor cloud platforms and services, based on European, international and **open-source standards**:*

- I. *To address the need for more data sharing and decentralised data processing, **closer to the user (at the edge)**"*
- II. *To enable users to migrate effectively to the cloud*



Creating the next generation EU edge cloud with over 120 partners from 12 member states



12 member states committed

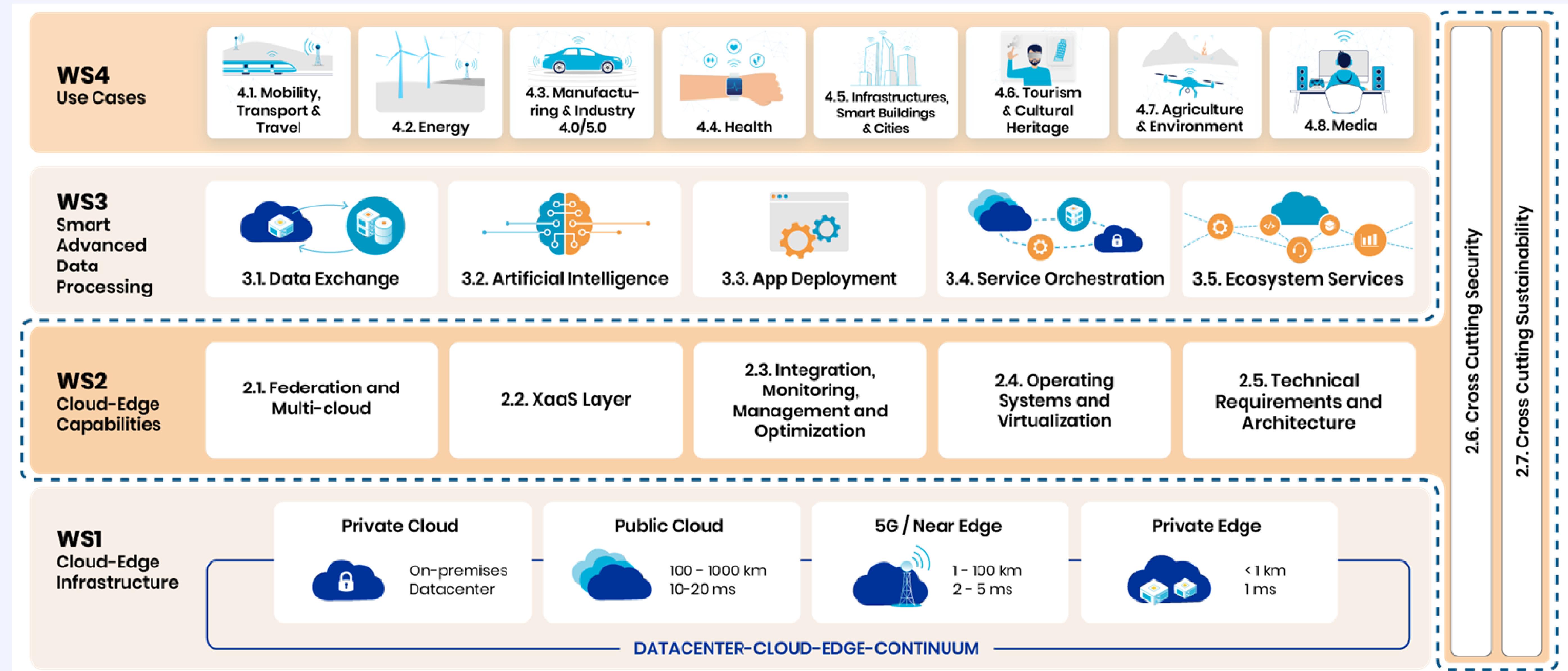
Overall, 110 national projects
 ≈ 7.8 billion EUR total investment

19 projects approved by EU Commission
 ≈ 1.2 billion EUR in public funding
 ≈ 1.4 billion EUR in private investments



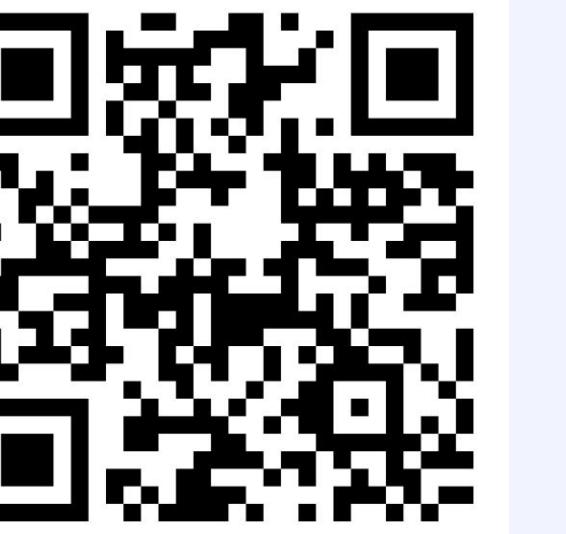
IPCEI CIS brings value across 4 workstreams

Companies structured along the workstreams and contributing to the overall goals



Evolution EU Edge Cloud – 8ra

It does not end with the funding Initiative

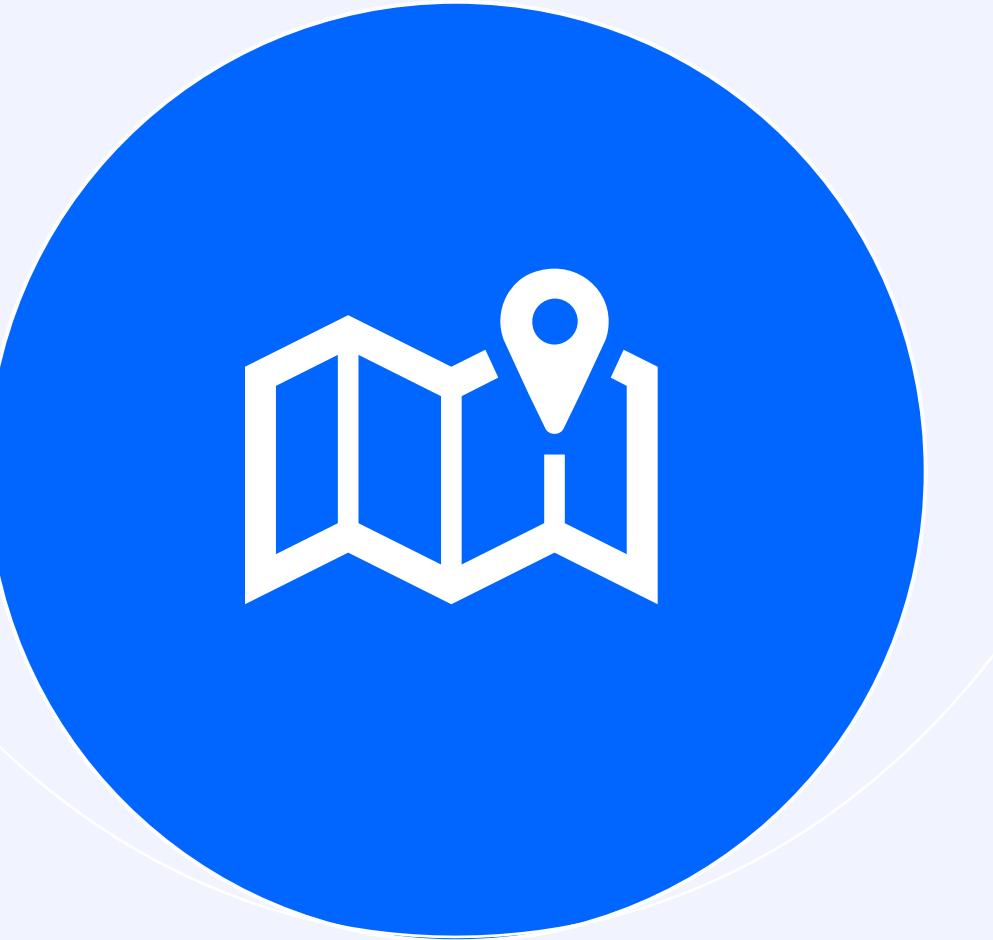


8ra - the first ever Multi-Provider Cloud-Edge Continuum

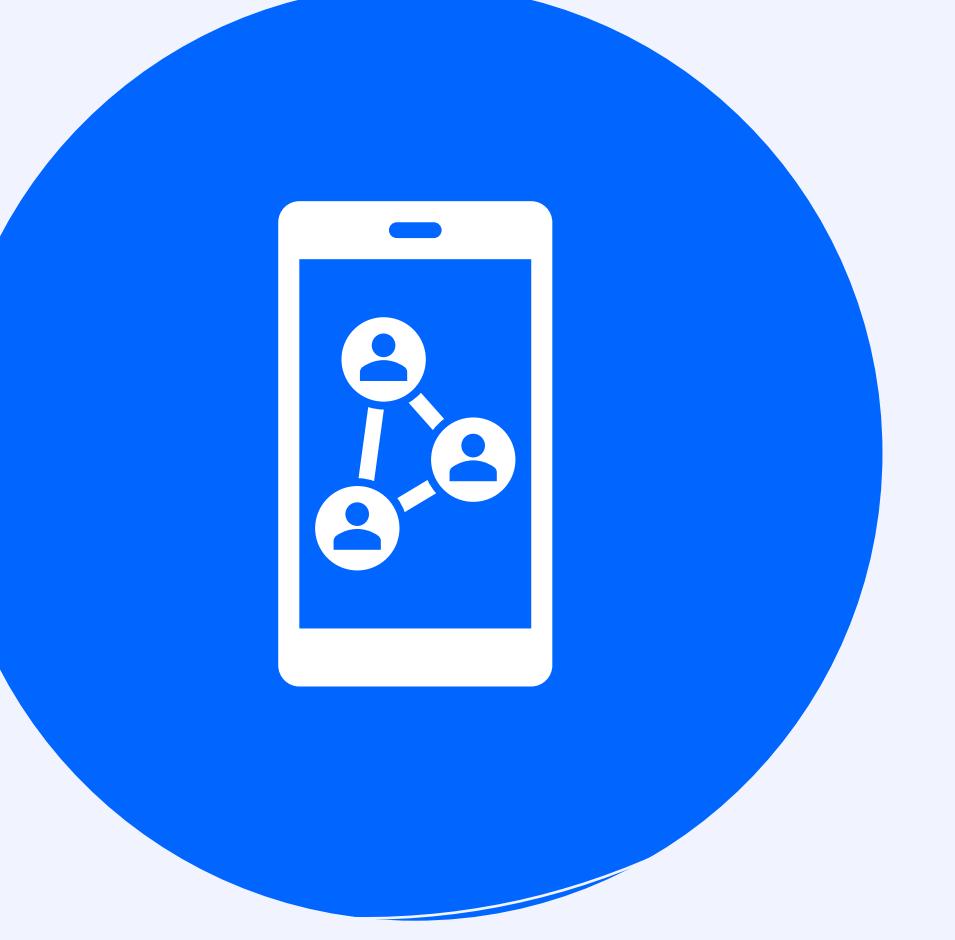
- IPCEI CIS funding initiative ends YE 2026
- Using basis from IPCEI CIS to build new generation of high-performance digital infrastructure
- The EU edge cloud evolution will continue under the “trademark” 8ra
- 8ra offers unprecedented open access to most advanced cloud & edge technologies
- 8ra is open for other initiatives, follow-up IPCEIs (e.g. AI, infrastructure, ...), other projects, partner etc. to strengthen the overall goal of ***Multi-Provider Cloud-Edge Continuum***



Interoperable No Log-in



Mobility embedded



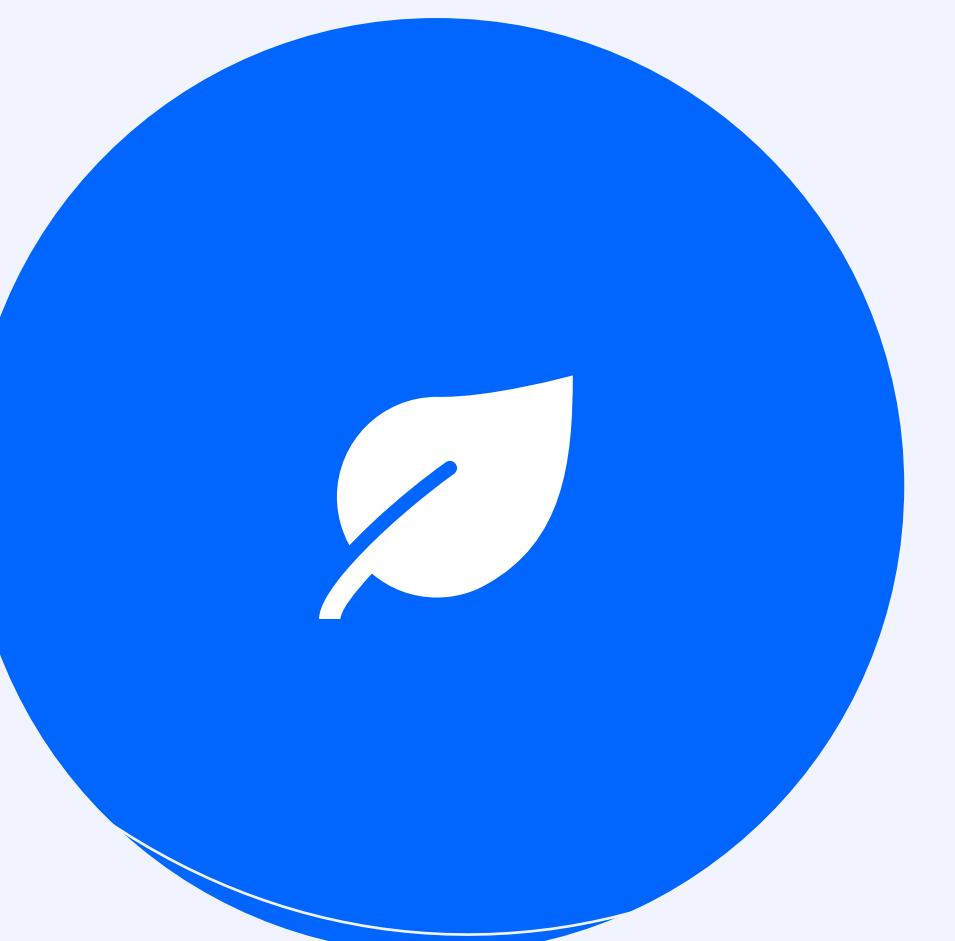
Open-Source



Federated, multiprovider



Secure



Sustainable

Edge Cloud Continuum characteristics



Cloud Edge Continuum

- Homogeneous technologies
- Simple network operation
- Includes Telco distributed edge infrastructure



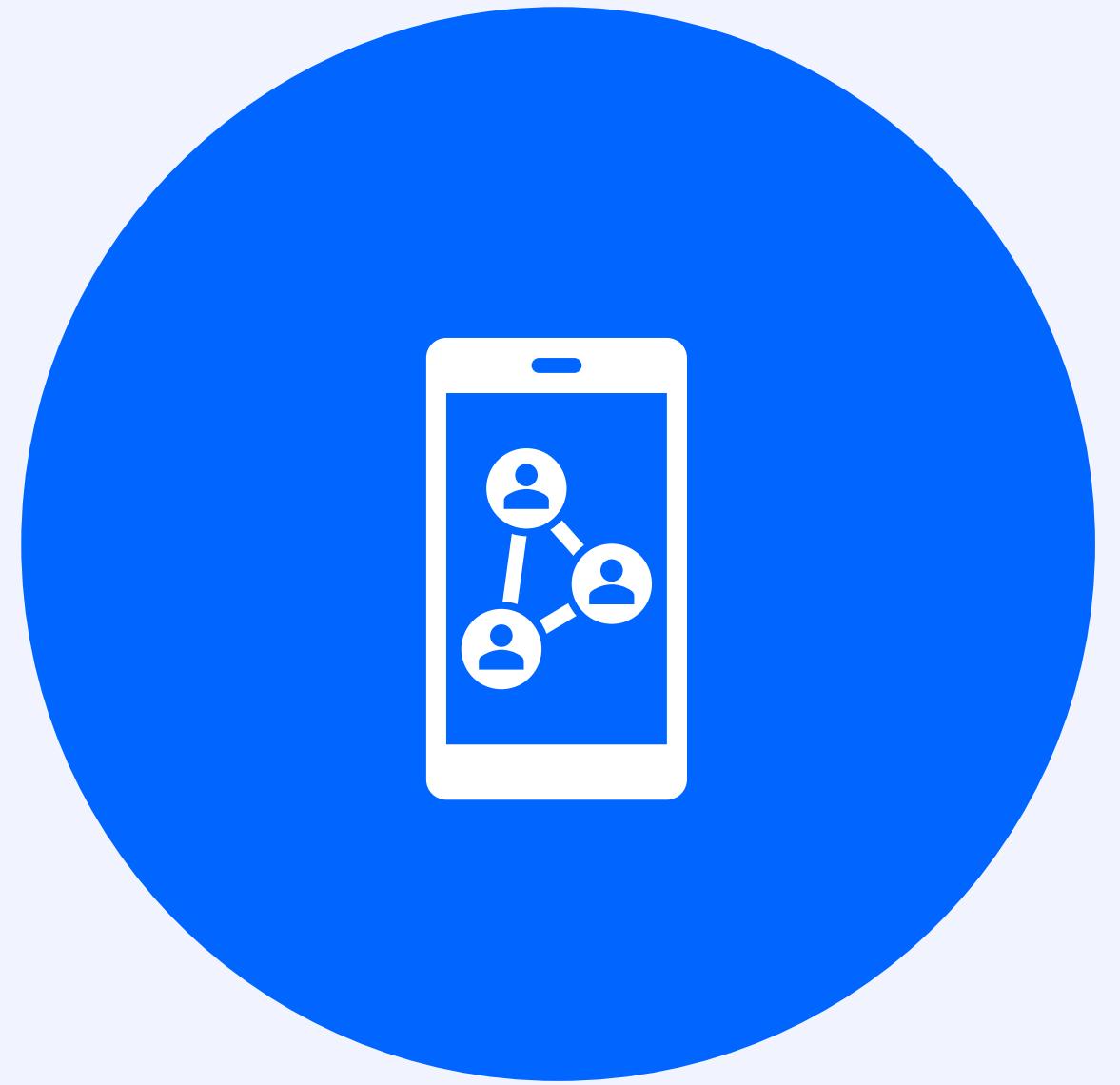
Open/Interoperable

Based on standards for interoperability, compatibility, portability



Federated

Enabling a multi-cloud multi-provider Service



Mobility

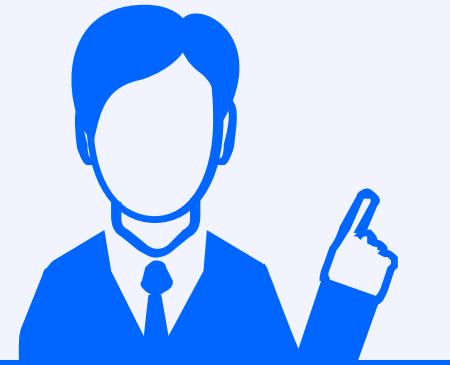
Providing best experience for Edge Applications while on the move, even beyond the operator's footprint



Integrated

Optimally integrated with the Network to ensure a proper performance that meets the Edge app requirements

Cloud and Edge Services Federation – Challenges and solutions



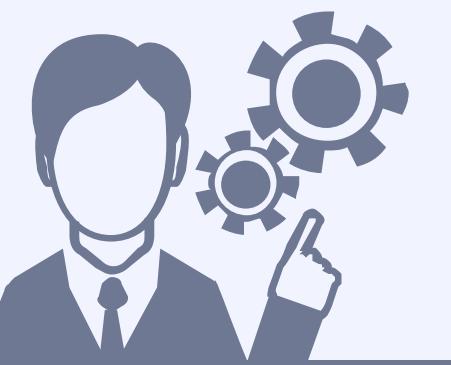
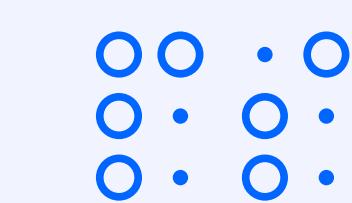
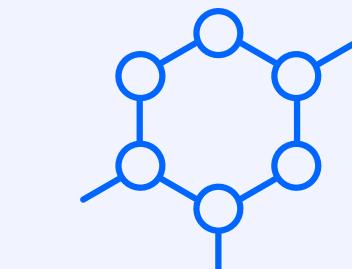
The Challenges

Homogeneous Cloud and Edge infrastructure - Same cloud infrastructure for Cloud & Edge, for Telco & Business Applications, for on network & on premises

Cloud/Edge Interoperability - Cloud/Edge interoperability shall be ensured at European level among Countries and Providers

High number of Cloud/Edge instances - From «few units» to «some hundreds» of cloud/Edge instances in the same country

Concrete Edge implementations - Edge solutions shall be applicable to real services (Use Cases)



The Solutions

Telco Cloud Stack - Open-Source Cloud Native Stack available to all, deployable everywhere and for any kind of application

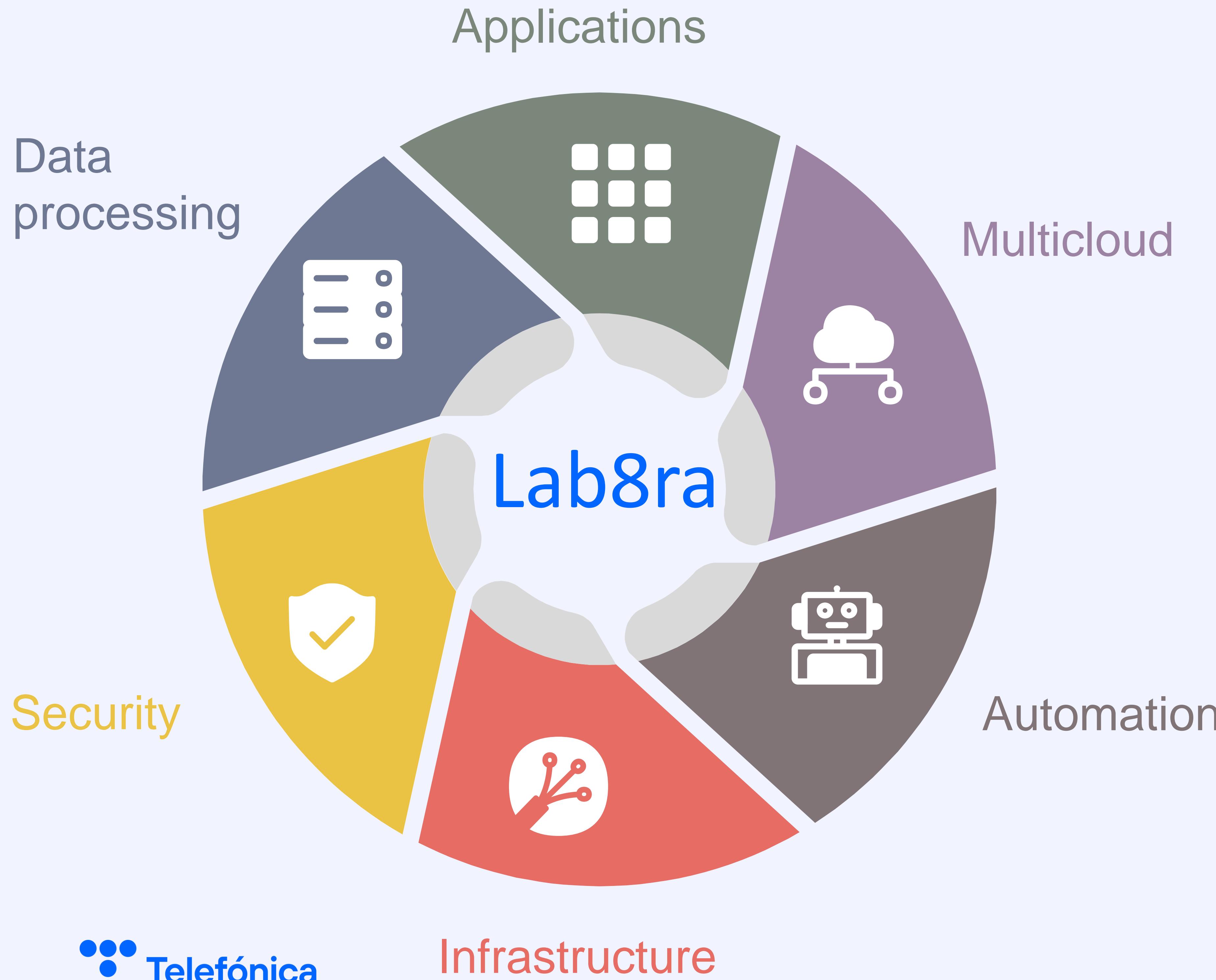
Federation and Multicloud - To ensure interoperability among different Cloud/Edge Entities in different Cloud domains

Automation and Data Analytics - Automatically and efficiently orchestrate the cloud/Edge complexity based on AI/ML solutions

End to End Use Cases - Use Cases shall immediately exploit technological solutions developed in the projects



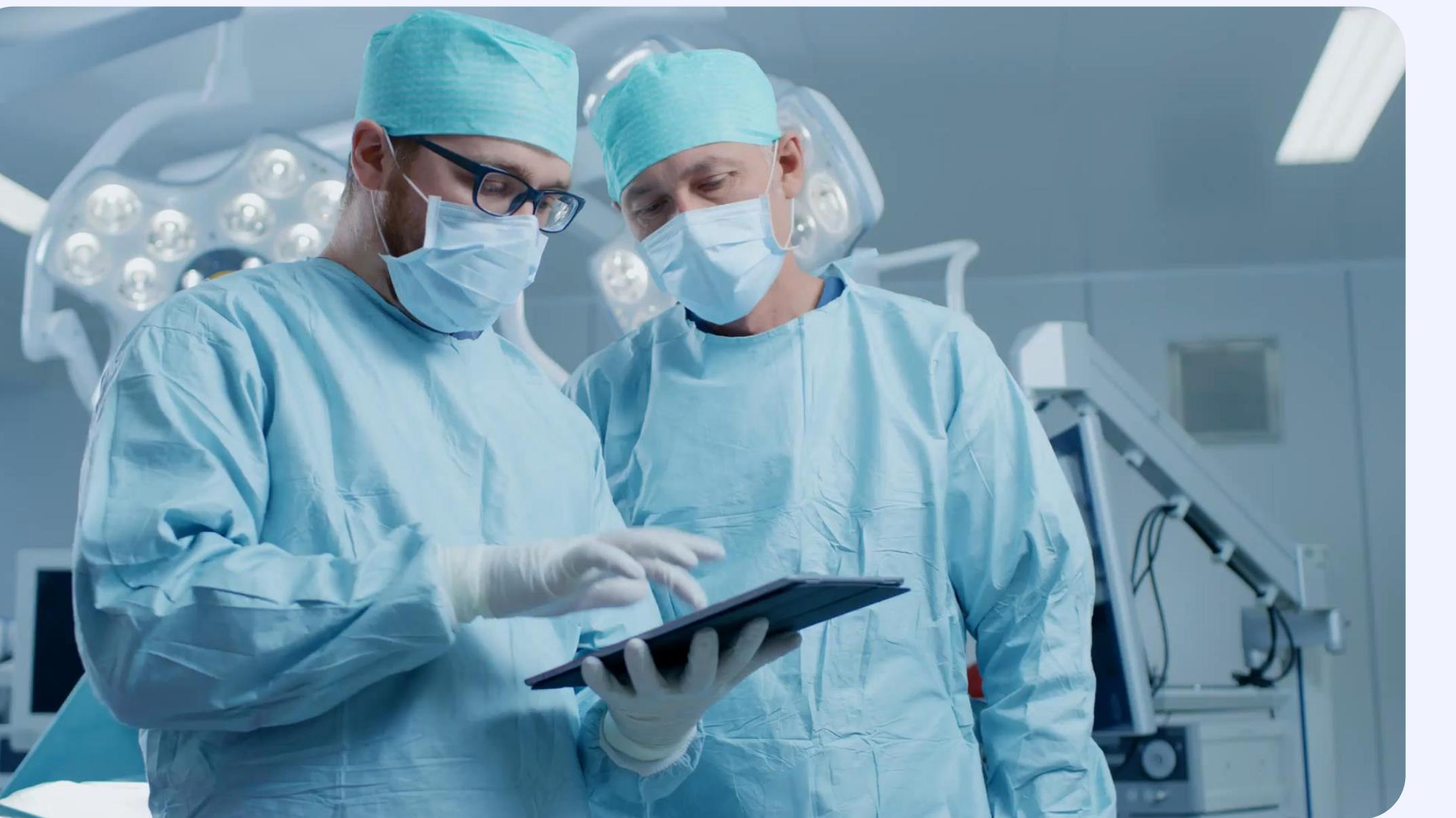
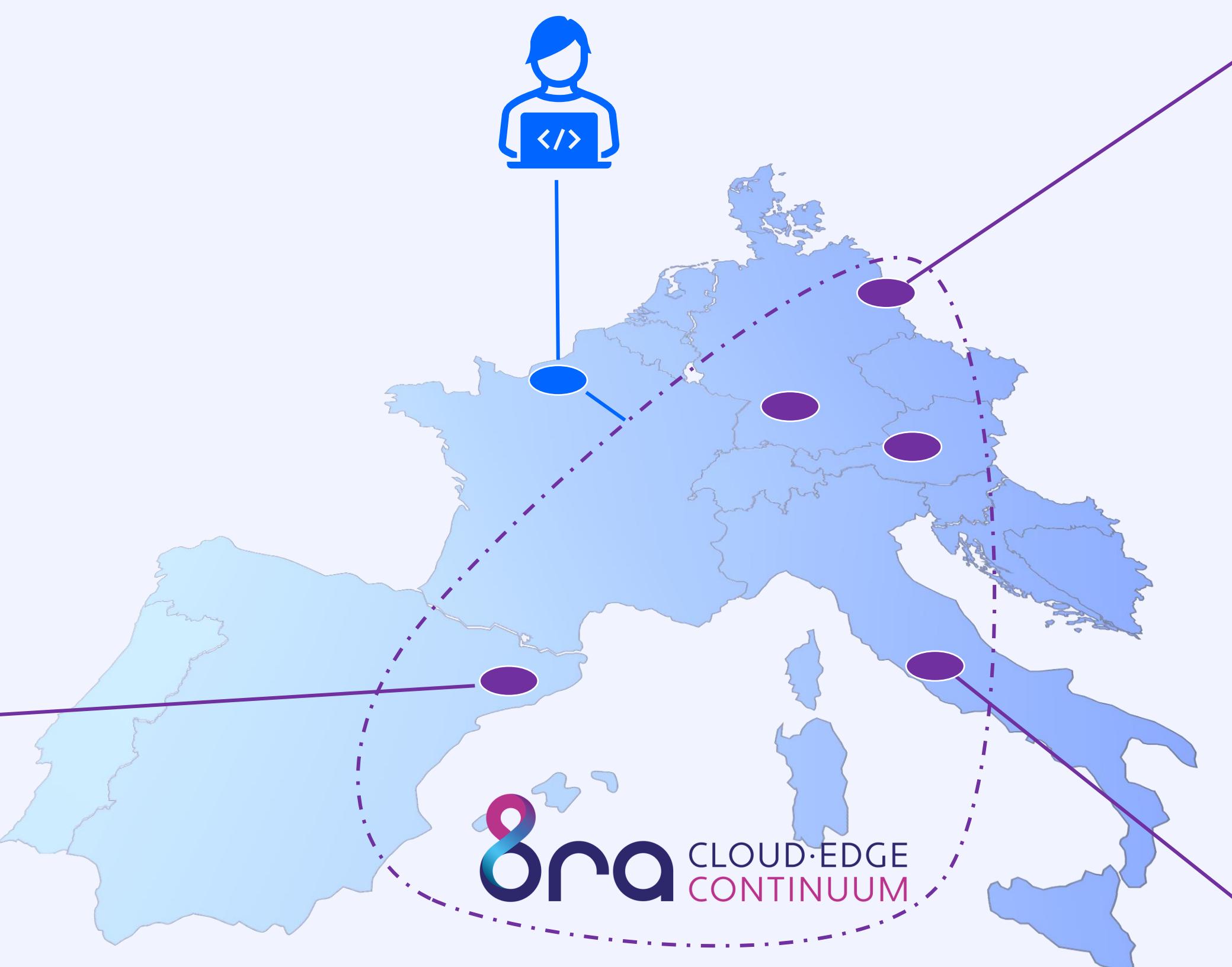
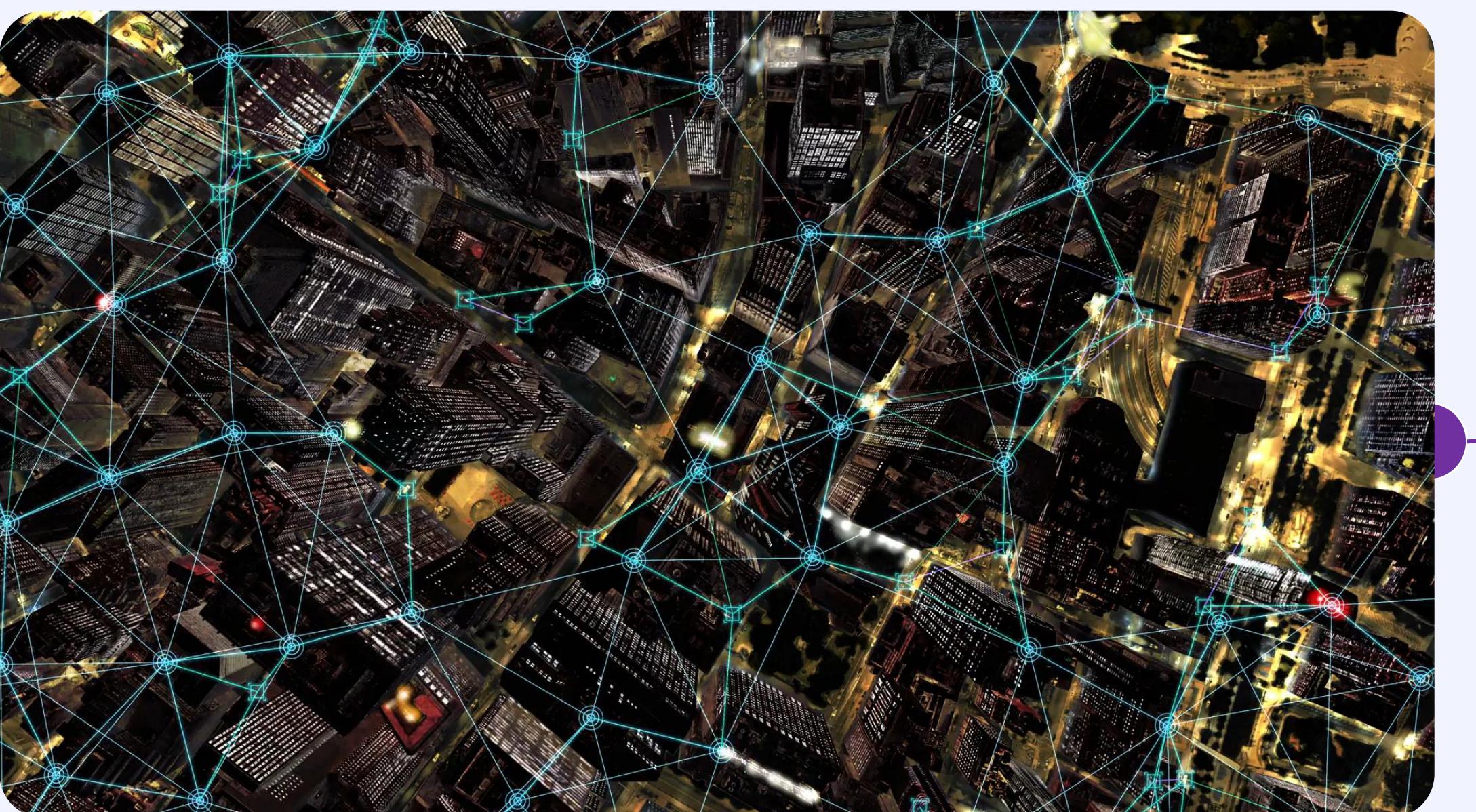
Lab8ra pilot to enhance interoperability



- 14 Companies in 5 EU Countries, actively contributing to the 8ra project, joined efforts to:
- Interconnect testing facilities
- Assess interoperability of developed technologies
- Minimize the integration efforts
- Attracting other companies/institutions
- Demonstrate the feasibility of a European Edge Continuum

EDGE Continuum enables Use Cases

- eHealth, Smart Cities, Artificial Intelligence, & co. benefit from **federation**
- Developers deploy over **only one gate** to provide **Continuum** service
- Key factor is **dynamism** supporting **mobility**





THANK YOU 😊



Lara Grohe
PM IPCEI-CIS & 8ra for
DTAG



Cristina Santana Casillas
Head of Telco Edge
Computing - CTIO



AnaLu Vilchez Parra
Head of JVS Governance &
Technical Performance -
CTIO



Roberto Procopio
Head of Technology
Innovation - TIM

