

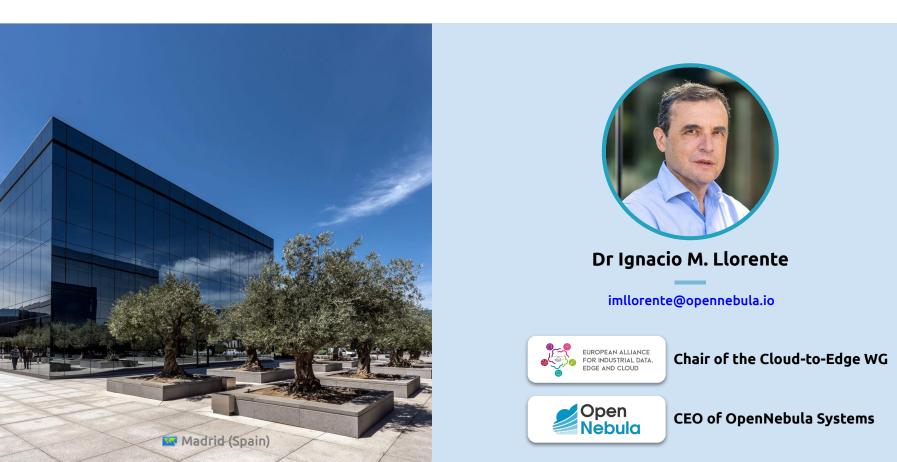
EUROPEAN ALLIANCE FOR INDUSTRIAL DATA, EDGE AND CLOUD

Fostering the Development of Next-generation Edge & Cloud Technologies in Europe

Horizon Europe Info Day, 30 January 2023

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Increasing Dependence on Cloud Computing

Cloud is a key enabling technology of strategic importance to Europe's industry

- Data processing and sharing capacities required for **data-driven innovation**.
- **Digital transformation** of businesses and the public sector.
- New, added-value products and services.
- Uptake and effective execution of new technologies such as AI and IoT.



73% are 'highly dependent' on cloud



Cloud Computing - Statistics on the use by enterprises (December 2021)

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Cloud_computing_-_statistics_on_the_use_by_enterprises

Strategic Dependency of EU Cloud Market

The EU is **heavily dependent on non-EU** cloud services, infrastructure, and technologies

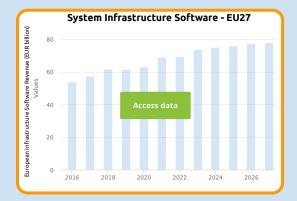
Cloud Services



Source: Synergy Research Group (September 2022)

European share has declined from 26% to <13%

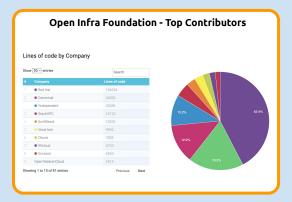
Infra Software



Source: Statista (October 2022)

None of top competitors are from EU Led by US companies

Open Source Software

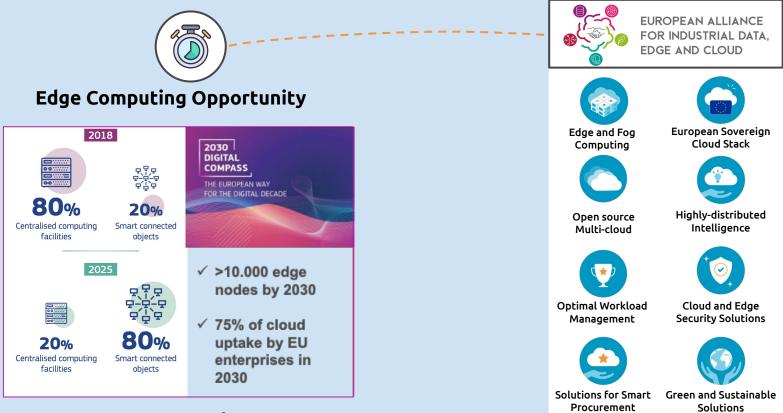


Source: Stackalytics (January 2023)

Marginal (<5%) role of EU Code Led by non-EU companies US-based foundations

Edge Computing Opportunity

Opening up **new opportunities** while **disrupting current business models**



EU Cloud Alliance Aim



Defining the **enabling technologies** for the **next generation edge-to-cloud continuum**

WHO

 To bring together Businesses, Member States representatives, and relevant experts.



- WHAT
 - To assist the European Commission in designing the detailed business, investment and implementation plan to deploy the next generation cloud capacities for the public and private sector to achieve the 2030 European Digital Compass targets.



 To foster the development and deployment of the next generation of secure, low-carbon, and interoperable cloud and edge services and infrastructure for Europe as envisaged in the European Data Strategy.

EU Cloud Alliance Technology Focus



Achieve Technology Leadership in three main trends



- Increase distribution and decentralisation of data processing capacities across of the computing continuum.
- Promote an **alternative European model** to the offerings of **cloud hyperscalers**.
- Meet the highest standards in terms of:
 - ✓ data protection, security, climate neutrality.
 - resource efficiency, interoperability and portability.

EU Cloud Alliance Timeline

Built on the European Data Strategy and endorsed by the Declaration on European Cloud

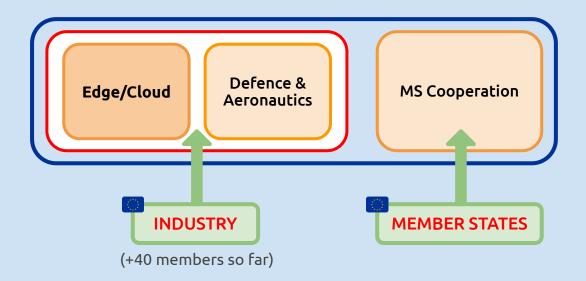






Working Groups and Task Forces working on specific topics

- The work is facilitated by the European Commission's Directorate-General for Communications Networks, Content and Technology (DG CONNECT).
- The operational work is driven by an appointed **Steering Committee** and relevant **Working Groups** and **Task Forces**.



Cloud to Edge WG Objectives

Defining the **enabling technologies** for the **next generation edge-to-cloud continuum**

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• To bring together the **main EU Industry players in cloud computing**

WHAT



• To prepare a **strategic cloud and edge technologies roadmap**, which should be regularly updated after the first version is made available

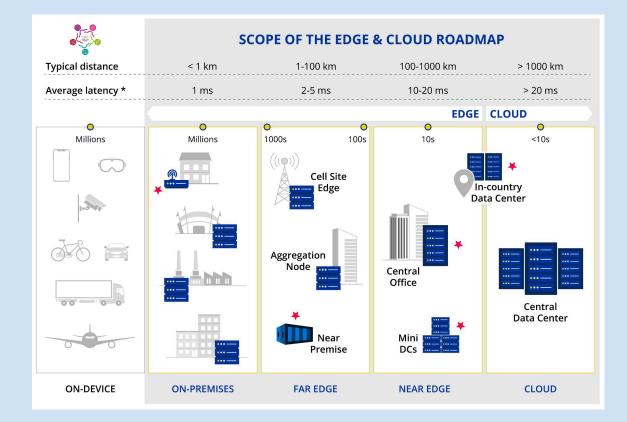


 To identify investments for joint development and deployment of the next generation of European cloud and edge technologies that meet the needs of European businesses



Cloud to Edge WG Vision

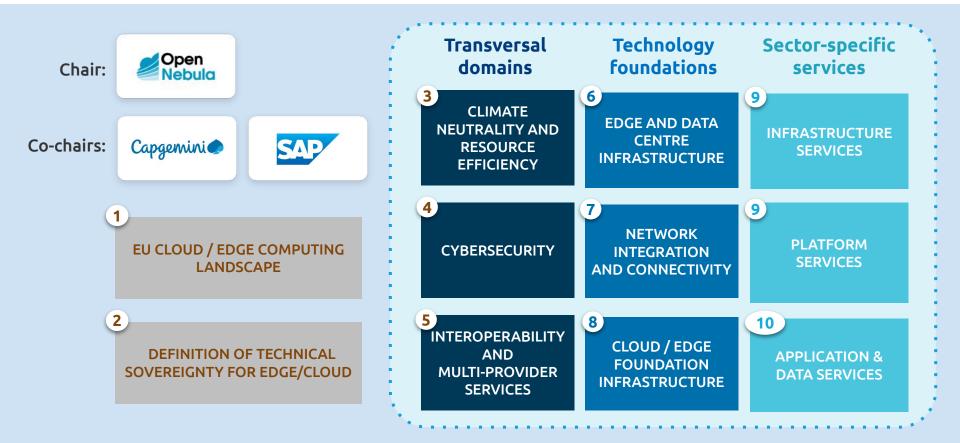
Datacenter, Cloud, and Edge are part of the same Computing Continuum that integrates various types of cloud capabilities





Cloud to Edge WG Task Forces

Working Group lead by 3 companies, with Task Forces of 5-10 members coordinated by 2-3 co-leaders



Cloud to Edge WG Members

45 industrial members representing cloud providers, telco operators, technology providers and services providers



Cloud to Edge WG New Roadmap



Working on an **updated roadmap** that will provide recommendations to EC Programmes



Cloud to Edge WG New Roadmap



Working on an **updated roadmap** that will provide recommendations to EC Programmes

- **Use Cases** that will be strategic for future edge-cloud in the EU.
- **Technology Priorities** with activities for the specification, research, development, and innovation of the next-generation cloud-edge continuum capabilities.
- **Deployment Priorities** with activities for the coordination and deployment of cloud-to-edge infrastructure and services to enable the initial roll-out of next-generation use cases on a European-wide scale.
- **Deployment Challenges** of the cloud-edge continuum in the European market.

EU Cloud Alliance Join Us!



https://digital-strategy.ec.europa.eu/en/policies/cloud-alliance

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European Alliance for Industrial Data, Edge and Cloud

The European Alliance for Industrial Data. Edge and Cloud aims to foster the development and deployment of next generation edge and cloud technologies.

The Alliance brings together businesses, Member States representatives and relevant experts. It will strengthen the position of EU industry on cloud and edge technologies. It aims to serve the needs of EU businesses and public administrations that process sensitive categories of data, and has the objective to increase Europe's leadership position on industrial data

Cloud and edge technologies are strategic innovation enablers for the uptake of emerging technologies, such as artificial intelligence, the Internet of Things, and 5G. They provide the infrastructure for highly innovative use cases. Europe needs to strengthen its position of EU industry on cloud and edge technologies.

Cloud and edge technologies are key enablers for Europe's digital transformation. The Alliance aims to bring together relevant stakeholders from the private and public sector to jointly define strategic investment roadmaps to enable the next generation of highly secure, distributed, interoperable and resource-efficient computing technologies. In addition, the Alliance will serve as a platform for exchange on issues of cloud governance, for example relating to the public procurement of cloud services



ERESTS?

- Interoperability & multi-cloud approaches.
- Climate-neutral & sustainable cloud.
- Edge deployment.
- Sovereign cloud stack, encompassing the edge.
- Defence cloud.
- Governance rules and standards for data processing services.
- Cloud for European common data spaces, including coordination with the Support Centre for data sharing and the European Data Innovation Board.
- Telco edge cloud.







"It may be too late to replicate hyperscalers, but it is not too late to achieve technological sovereignty in some critical technology areas"

President Ursula Von der Leyen

My Agenda For Europe: Political Guidelines For The Next Commission (2019-2024)



"When it comes to digital, Europe's resilience will depend on our ability to develop the next generation of cloud and edge capacities and invest massively in developing European alternatives to reduce our current dependencies"

Commissioner Thierry Breton

A European Sovereignty Fund for an industry "Made in Europe" (September 15, 2022)



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