

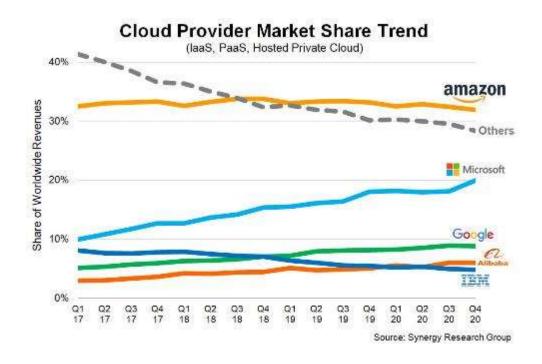
Vision for competitive cloud markets and digital strategic Autonomy

EUCLIDIA, 29 September 2022

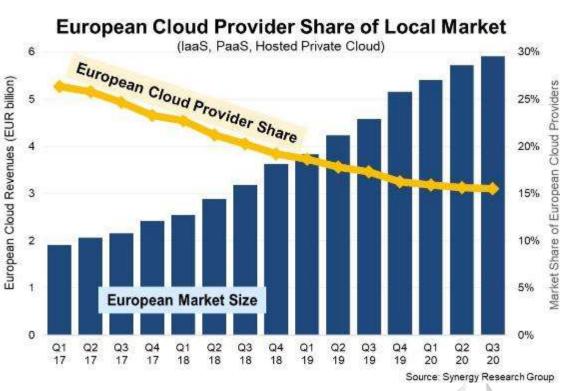
Pierre Chastanet Head of Unit – 'Cloud & Software' DG CONNECT, European Commission

Market vulnerabilities and strategic dependencies

Globally



In Europe





A new paradigm for EU action on cloud and edge: high ambition & coordinated approach



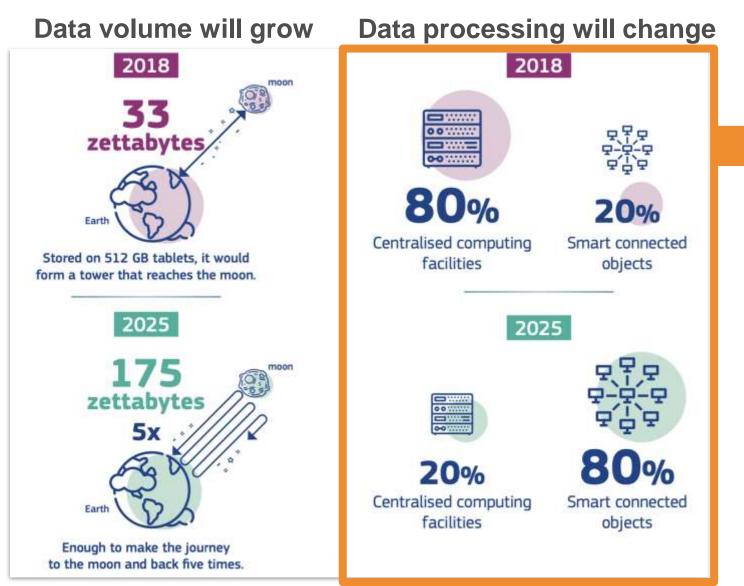


Feb. 2020 European Strategy for Data aims to build a single market for data May 2020 Recovery and Resilience Facility 20% Digital EU Flagship "Scale-up" Oct. 2020 Member States Declaration for European cloud March 2021 Digital Decade Strategy sets targets on edge and cloud for 2030

May 2021 Updated EU Industrial strategy evidences strategic dependencies



A single market for data to ensure Europe's global competitiveness and data sovereignty



Cloud and edge technologies are becoming a critical infrastructure and constitute a priority area for investment and reforms by the EU and its Member States for the coming years...

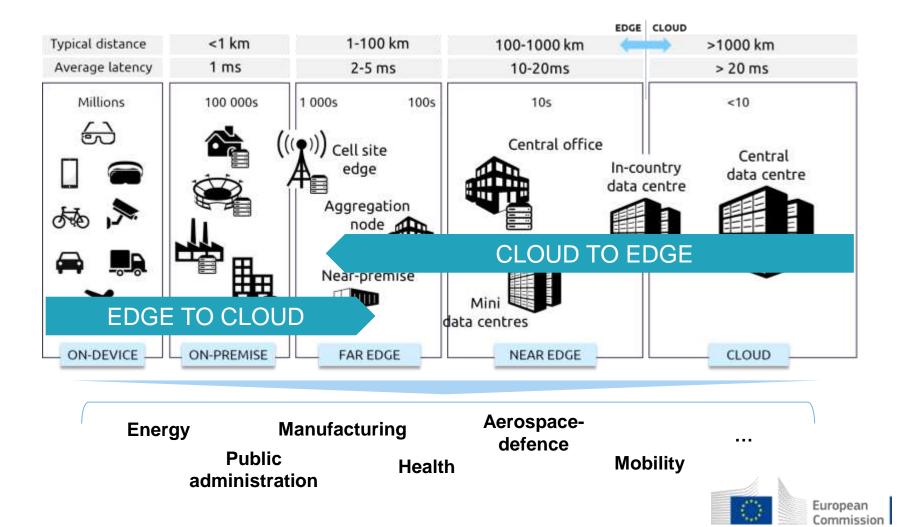
€4-6 billion to be invested in total

in common European data spaces and a European federation of cloud infrastructure and services

Our vision: Digital Decade objectives by 2030



- ✓ >10.000 edge
 nodes by 2030
- ✓ 75% of cloud uptake by EU enterprises in 2030

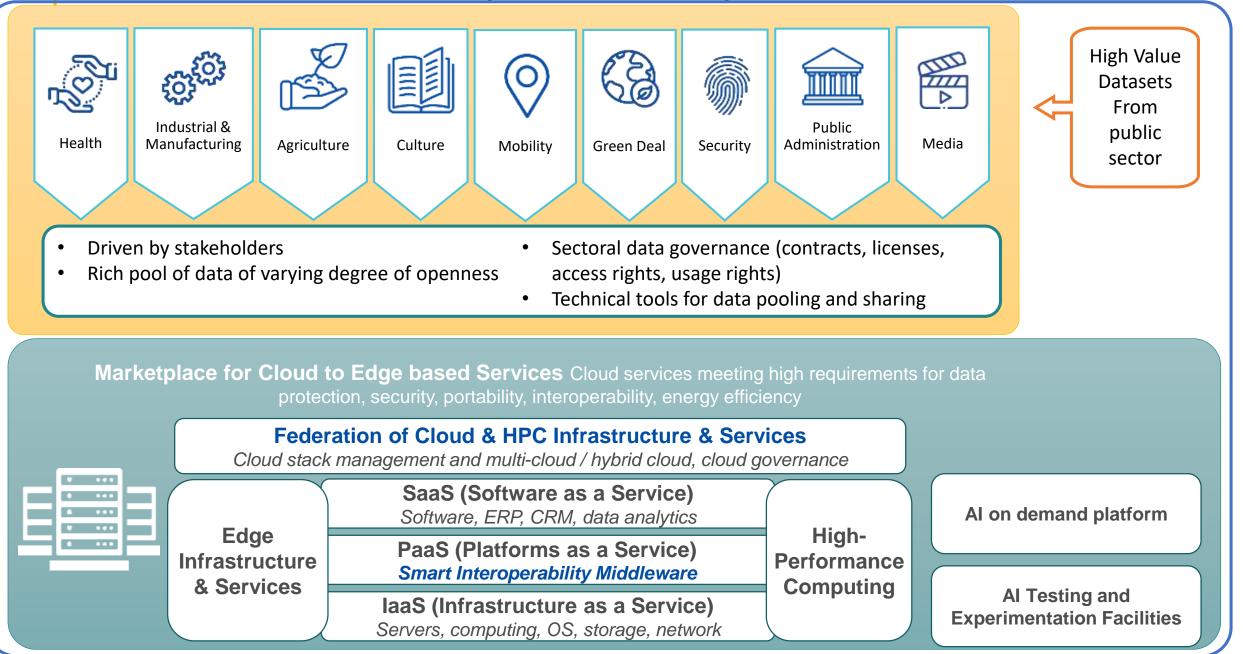


The EU Data policy framework

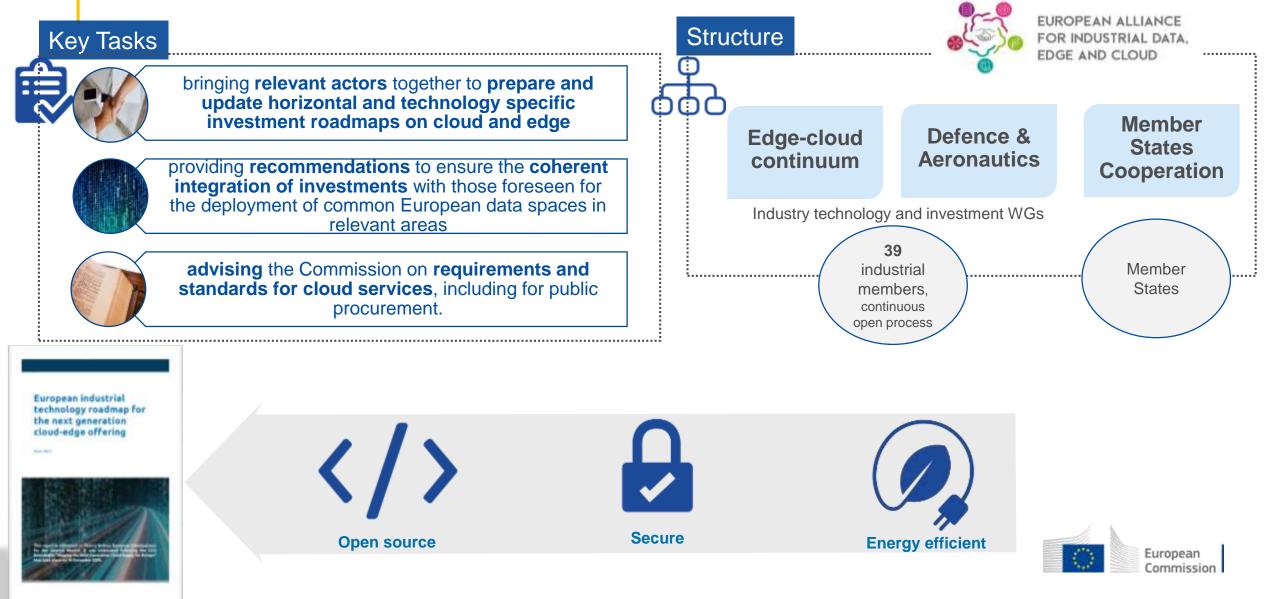
EU legal fundament \rightarrow GDPR (2016) + Free Flow of Non-Personal Data Regulation (2018): you can store and process your data wherever you want in the EU.



Cloud, Common European Data Spaces and Al



European Alliance of Industrial Data and Edge

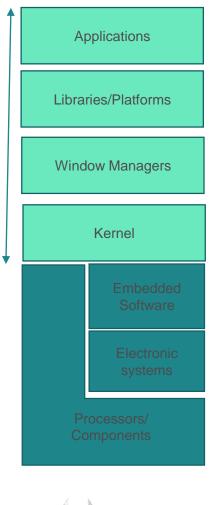


Study on the Economic Impact of Open Source in the EU economy (September 2021)

- Confirmation of big impact: EU companies invested over €1bn in OSS
- Cost Benefit ratio above 1:4
- Impact between €65 and €95bn
- Positive correlation with GDP and confirmation of causality
- Open Source \rightarrow Public good
- EU policies required.
- Case studies confirm TCO reduction, avoid vendor lock-in and increase digital autonomy.

→ Digital Autonomy





Open Source Stack

2020



Open Source in the European Commission Transform Contribute Contribute





Think Open

Communication (2020)

https://ec.europa.eu/info/sites/default/files/en_ec_open_source_strategy_2020-2023.pdf

A working culture based on the principles of open source

Decision (2021) https://ec.europa.eu/transparency/documents-register/detail?ref=C(2021)8759&lang=en

Commission services may make its software available for reuse, under an open source licence.

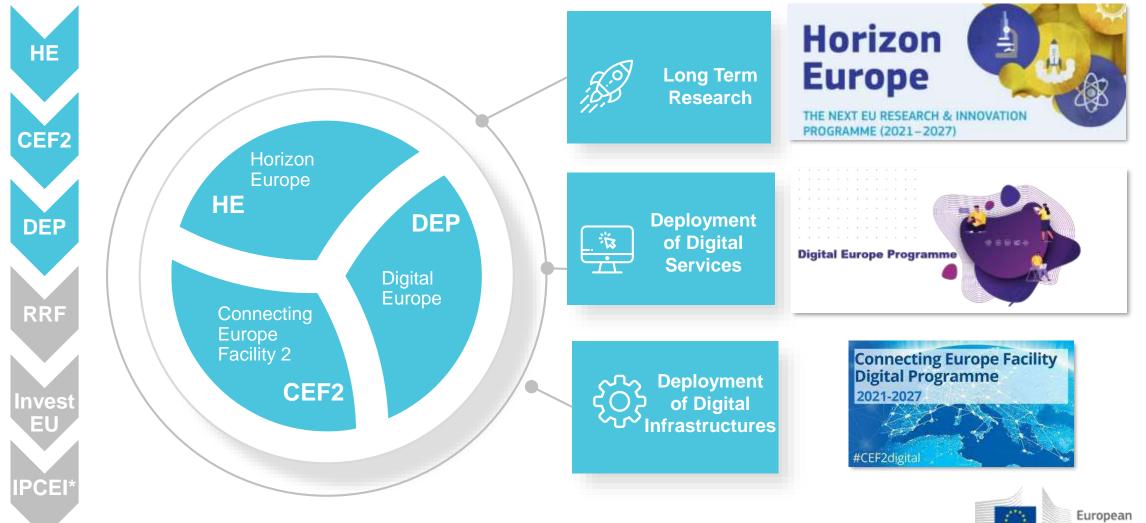


Open Source Programme Office

- Implement the action plan in the open source strategy
- Promote open source practices within
 Commission
- Provide support and guidance to open source projects
- Represent Commission in open source events and establish connections with other organisations

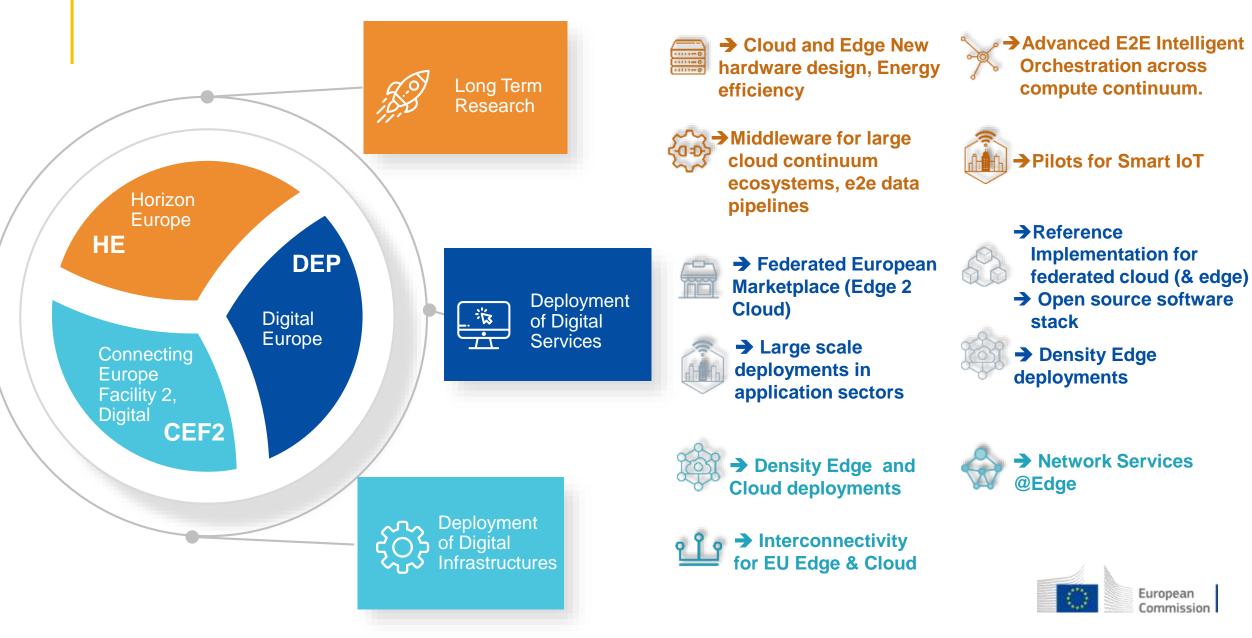


EU Funding Programmes in Digital

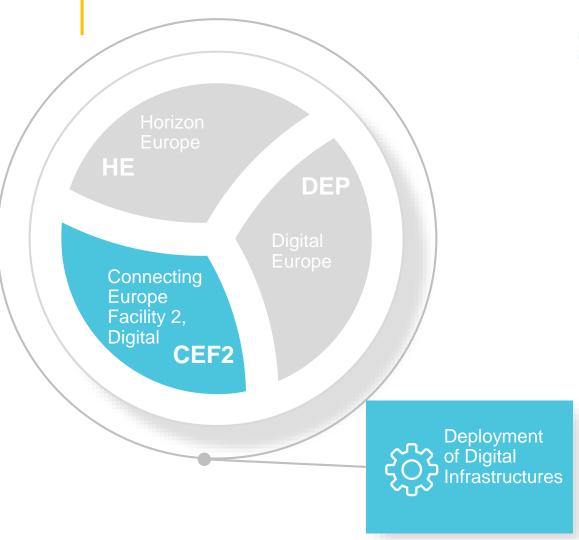


Commission

Key investment in Cloud-Edge in EU programmes



CEF2 – Edge-Cloud continuum, Roadmap





 <u>5G corridors deployment, 5G deployment including</u> when appropriate Edge
 <u>5G for smart communities</u>, 5G networks deployed with a cloud-to-edge middleware stack (from DEP)
 <u>Backbone networks for pan-European cloud</u>
 <u>federations,</u> development and deployment of crossborder and national cloud infrastructure
 interconnections at both the physical and functional levels
 <u>Integration of 5G with edge computing and</u>

federated cloud facilities

CEF homepage: <u>CEF Digital | Shaping Europe's digital future (europa.eu)</u> CEF workprogramme: <u>Multiannual work programme for 2021-2025 - Connecting Europe Facility - Digital</u> CEF Cloud Call: <u>Funding & tenders (europa.eu)</u>

Digital Europe, Smart Middleware

Baseline for EU



Deployment of Digital Services

Smart middleware for a European cloud federation and for the European data spaces

Data management and

advanced data services



Full Stack, across Edge and Cloud

Built-in

identification,

data security



Business intelligence







Tested in use case of public interest



Multi-cloud

orchestration

European Cloud Security Certification Scheme

- ENISA is currently drafting a draft European Cloud Security Certification
- Adoption by means of EC Implementing Act (expected 2022)
- Legal basis: EU Cybersecurity Act (2017)
- Preparatory work conducted by the CSPCERT Industry WG
- 3 levels of security assurance
 - Basic

Scheme

- Substantial
- High









Thank you



© European Union 2022

Unless otherwise noted the reuse of this presentation is authorised under the <u>CC BY 4.0</u> license. For any use or reproduction of elements that are not owned by the EU, permission may need to be sought directly from the respective right holders.



Slide xx: element concerned, source: e.g. Fotolia.com; Slide xx: element concerned, source: e.g. iStock.com