

A resilient geo-information domain in a resilient digital Europe

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Slides: grnl.eu/unggim



Whose resilience?

- Our societies: gives geo-information purpose
- The geo-information domain: fitness for that purpose

Agency, the ability to act

Resilience

Agency, the ability to act

Capability

Resilience

Agility

Agency, the ability to act

Capability

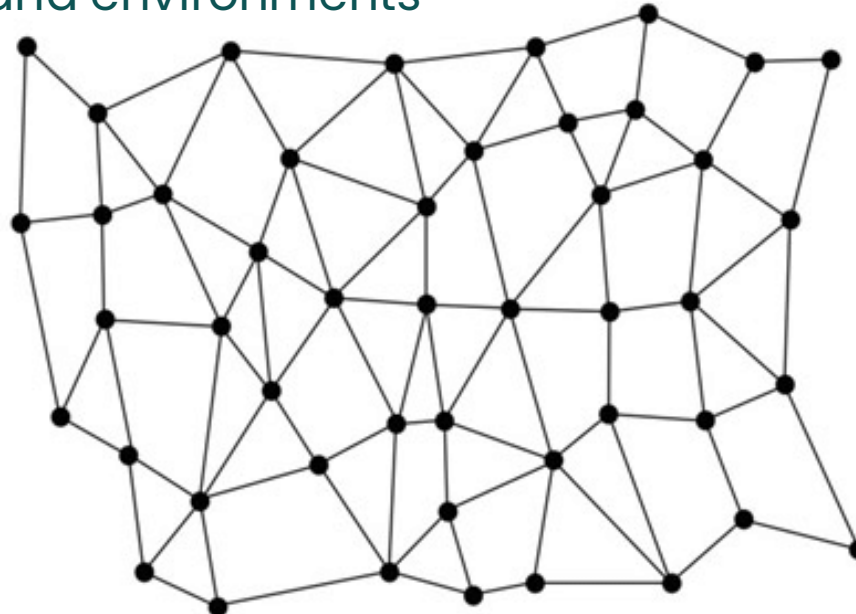
Resilience

Agility

Networked agency:

Aware of your networks, interdependency, opportunities and threats

Active in your networks and environments

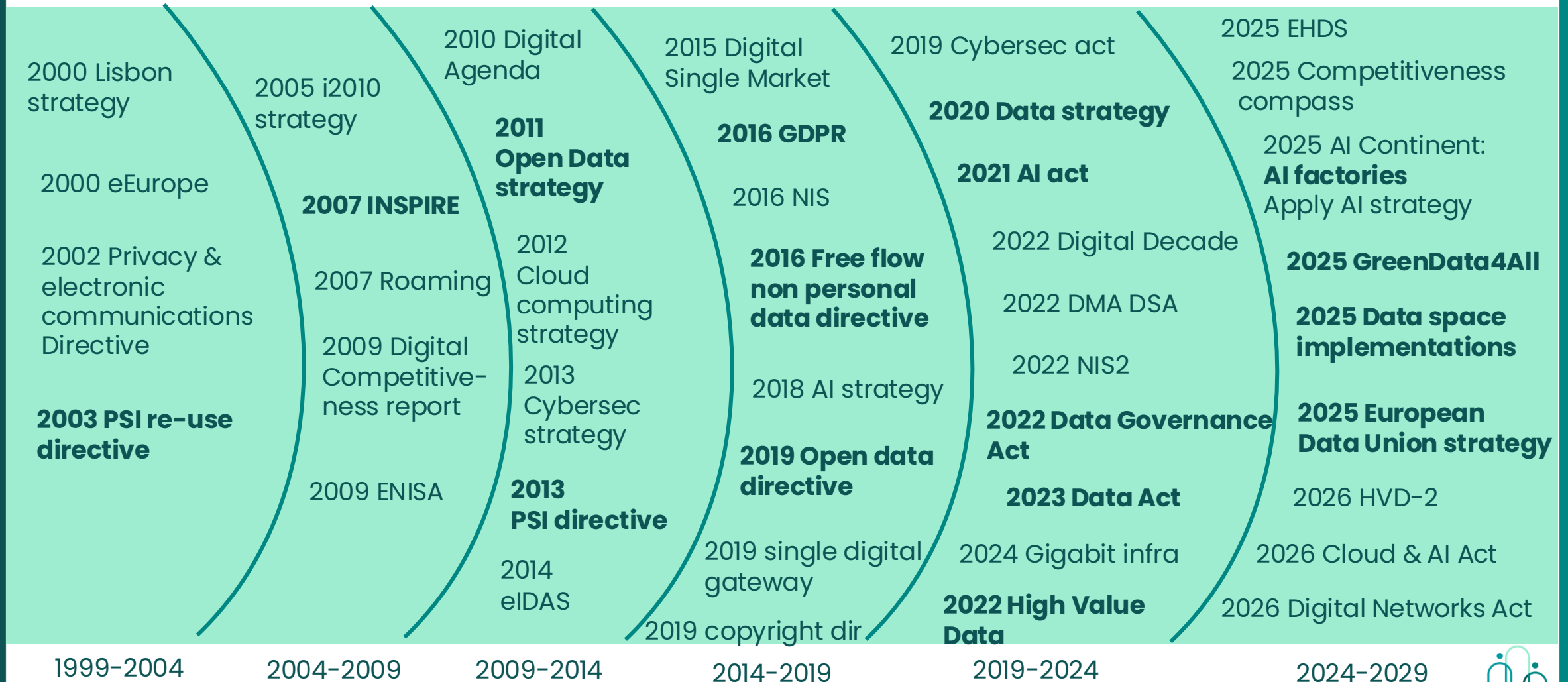


Henna Virkkunen

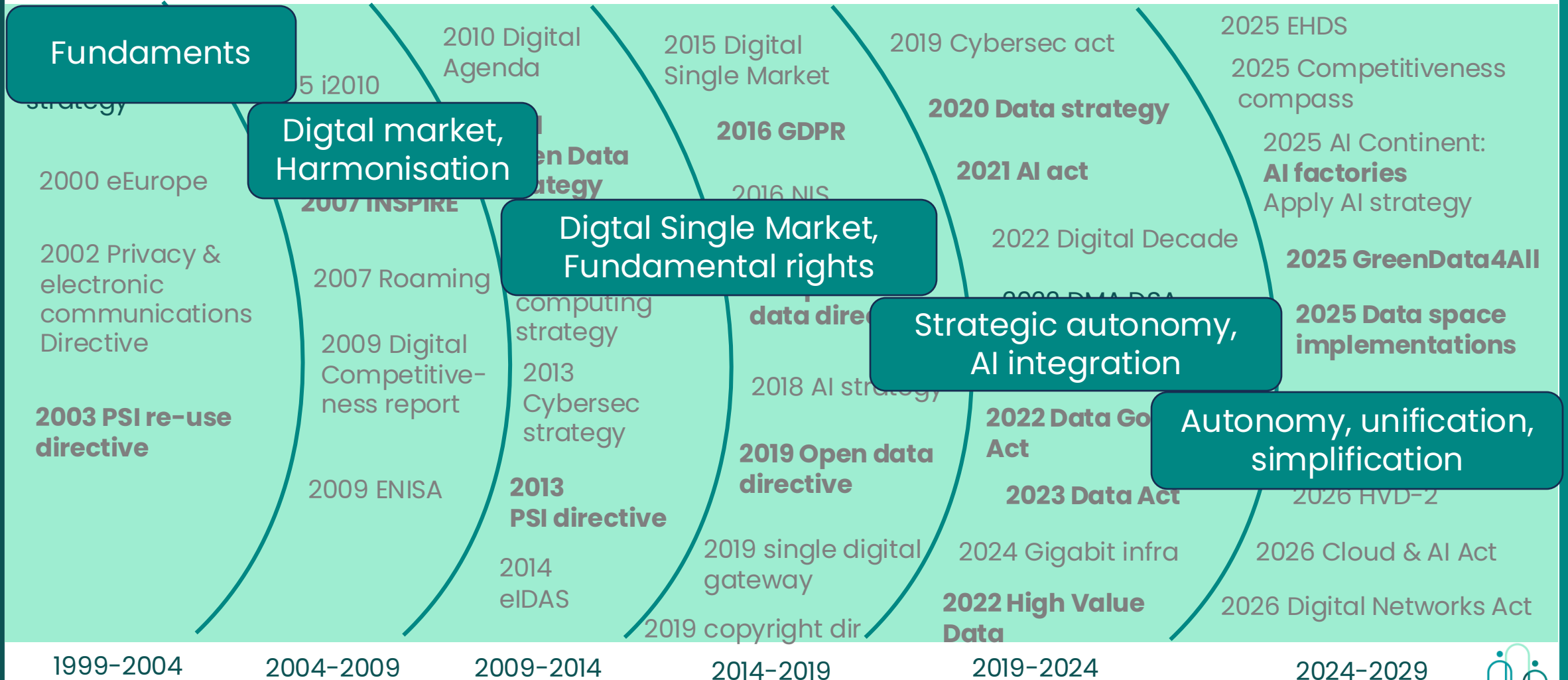
EXECUTIVE VICE-PRESIDENT (2024-2029) | Tech Sovereignty, Security and Democracy



EU Digital and Data policy

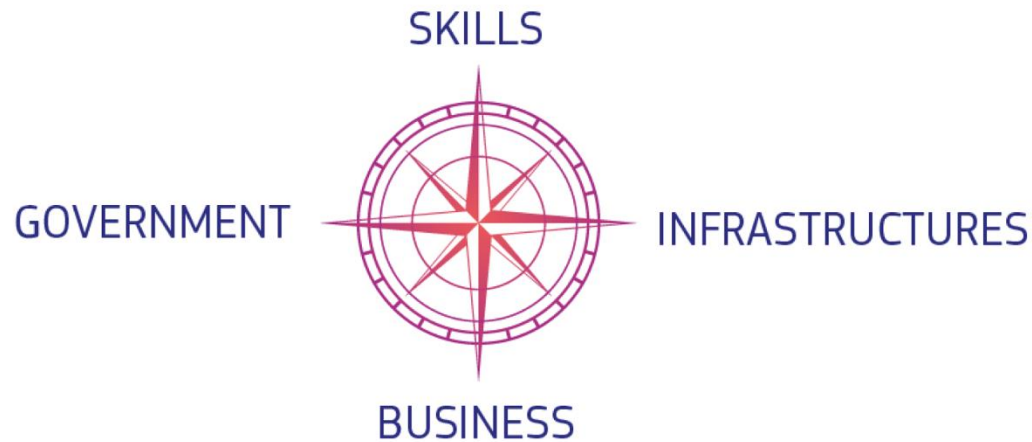


EU Digital and Data policy



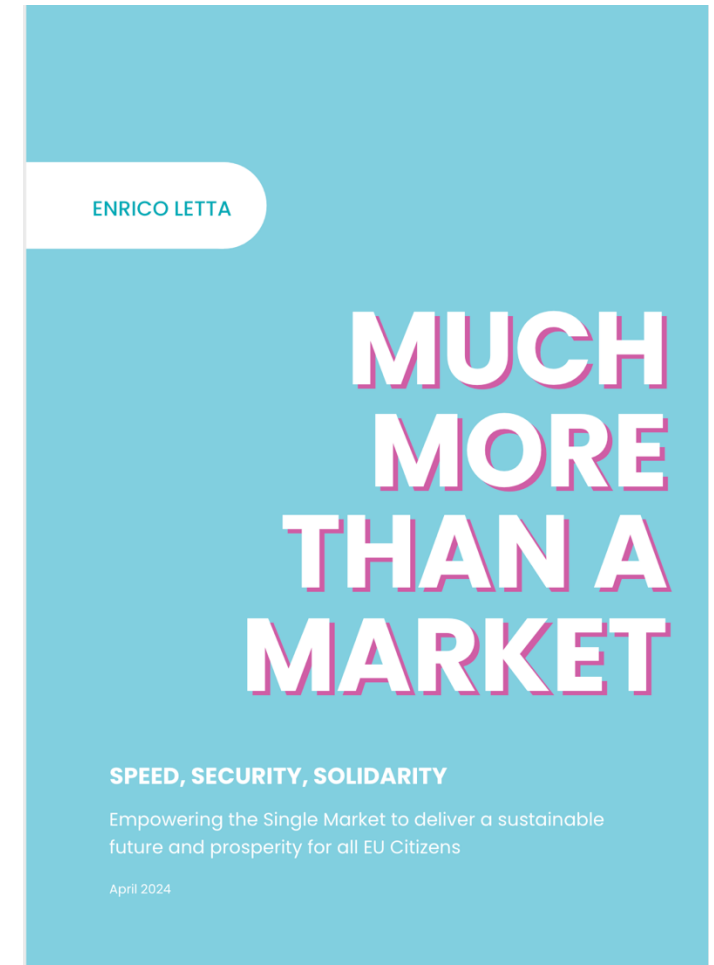
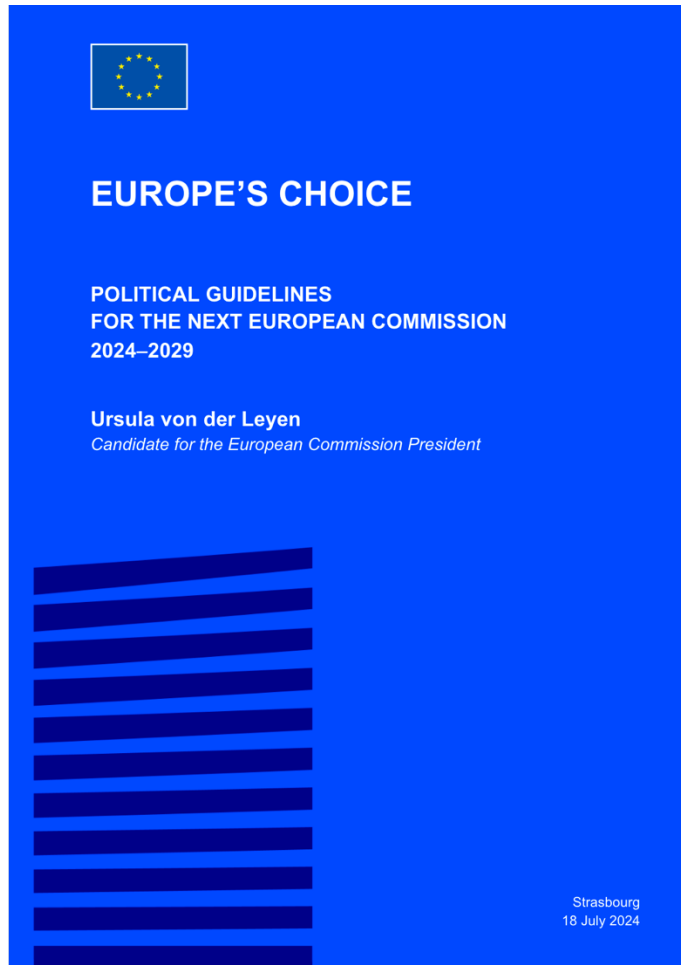
Europe's Digital Decade: digital targets for 2030

Europe aims to empower businesses and people in a human-centred, sustainable and more prosperous digital future.



The Data Space for a Sustainable Green Europe

Von der Leyen II



Evolving continuity

- GreenData4All: updated rules on geospatial environmental data and access to environmental information.
- High Value Data second round of themes.
 - Climate loss (economic damage, vulnerabilities, biodiversity, waste streams)
 - Energy (realtime, renewables)
- Data Act implementation: IoT sensor data sharing
- EU wallet deployment

Data Spaces

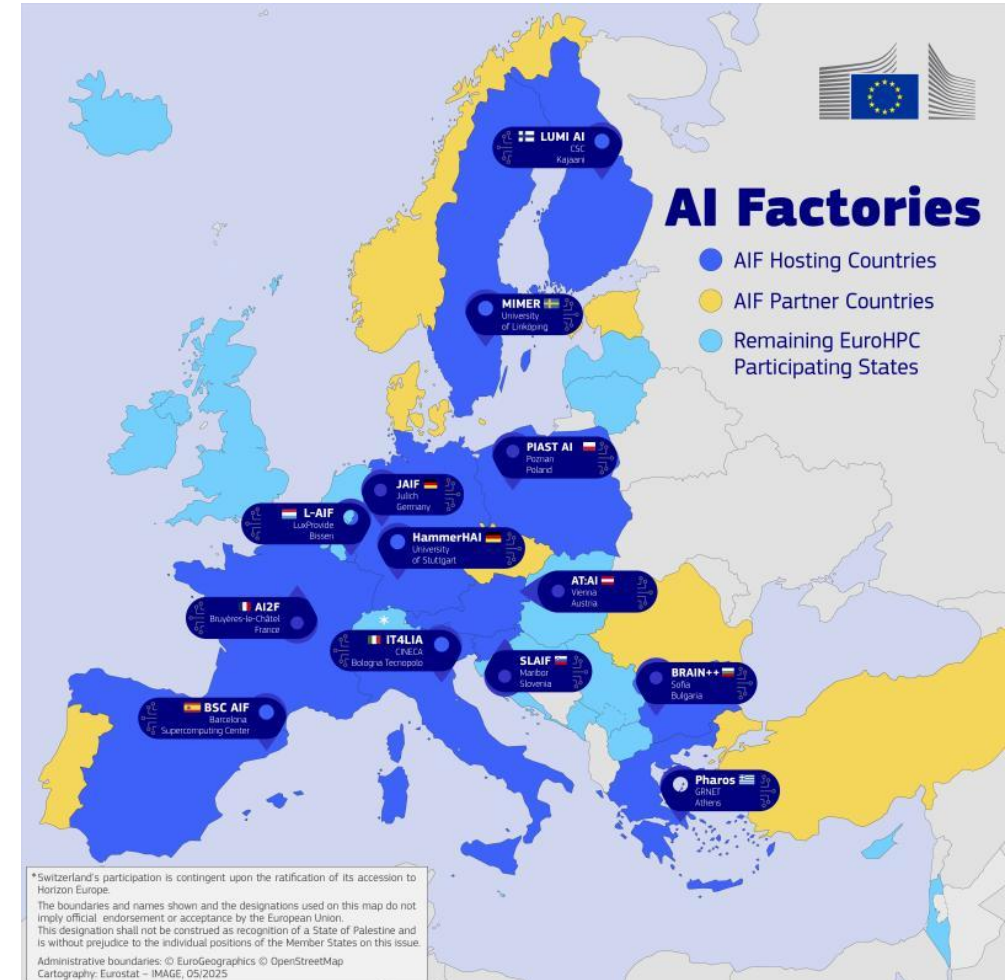
- 14 sectoral common European Data Spaces
- Geo-information key in
 - Green Deal DS
 - Mobility DS
 - Agriculture DS
 - Energy DS
 - Cultural Heritage DS
 - Tourism DS
 - Smart communities DS
- Implementation projects underway
- Partly EC funded (DEP)
- Data Space Support Center (DSSC.eu)
- SimpL (OS middleware simpl-programme.ec.europa.eu)



Standards for data spaces

- In support of the Data Governance Act and Data Act implementation
- CEN/CENELEC JTC 25
- Trusted Data Transactions (harmonised standard)
- Implementation framework for catalogues (DCAT)
- Trusted ontologies and data models
- Framework for data space maturity assessment
- Framework for expressing quality of internal data governance processes

Digital Twins, AI Factories



New Initiatives and Steps

- Apply AI Strategy within the AI Continent Plan
- EU Cloud and AI Development Act (HPC and quantum infra)
- Long term Quantum Chips Plan
- Digital Networks Act (physical infra)
- EU Data Union Strategy

EU Data Union Strategy

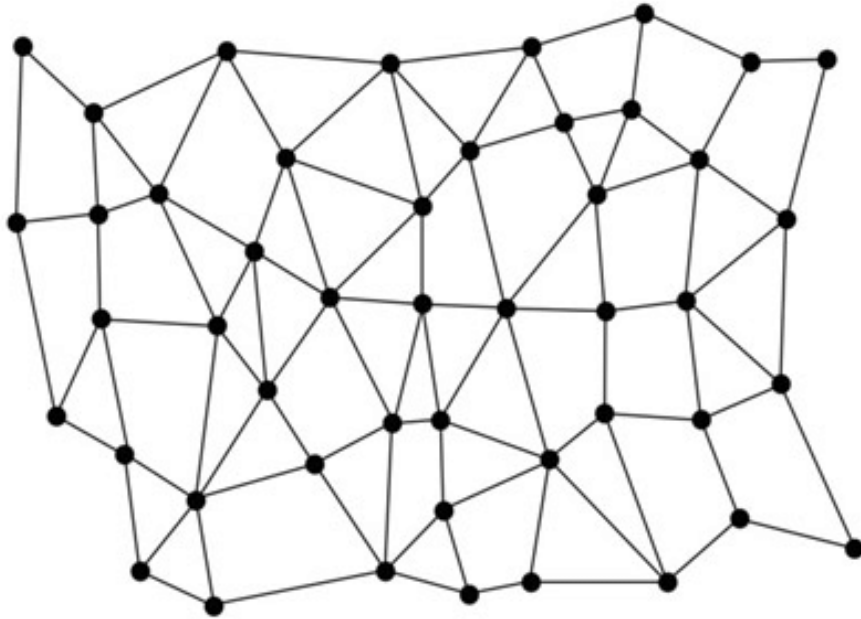
"Drawing on existing rules to ensure a simplified, clear and coherent legal framework for businesses and administrations to share data seamlessly at scale, while respecting high privacy and security standards."

Consultation op until July 18th

https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/14541-European-Data-Union-Strategy_en

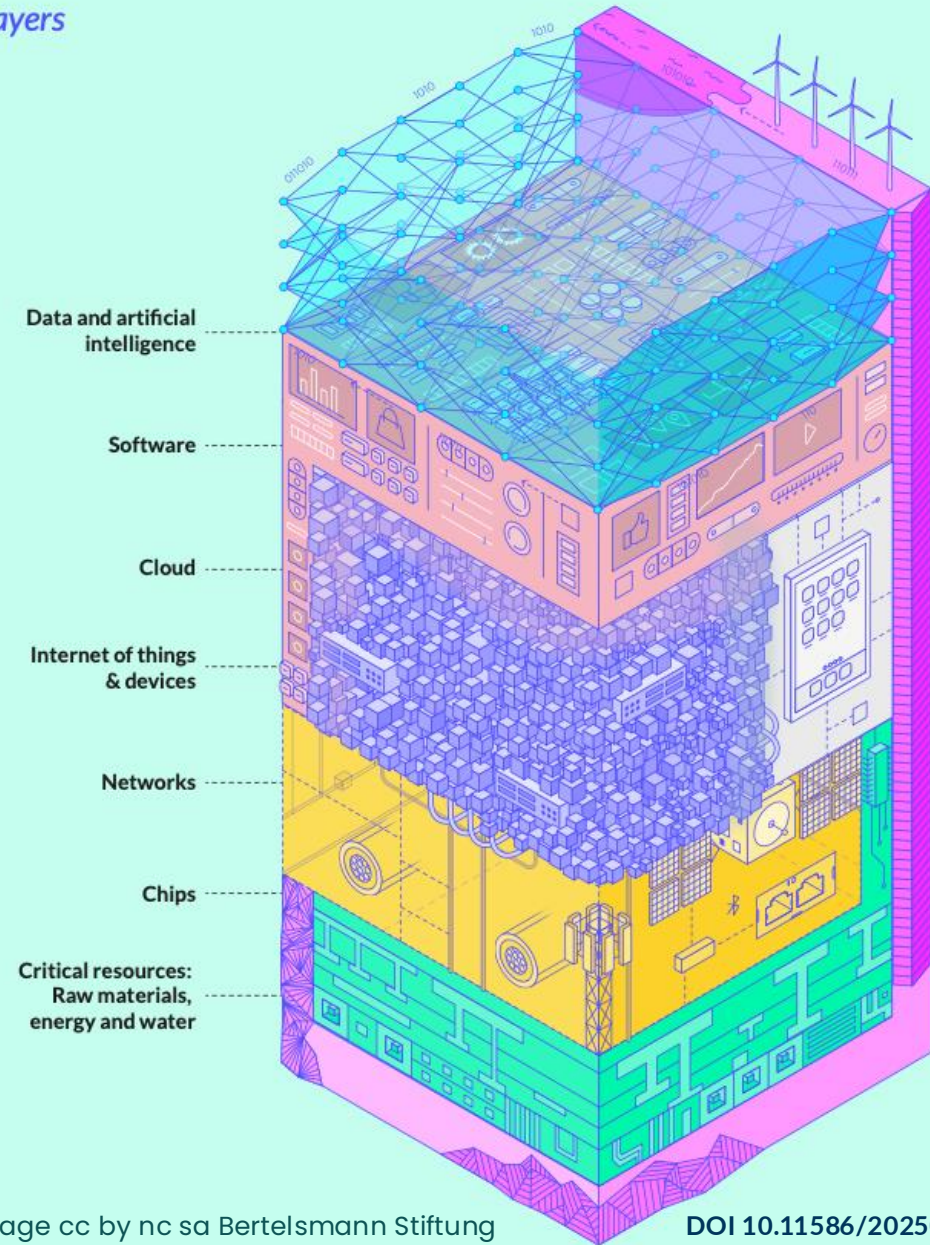
Expected Q4 2025.

Federated, stack



The current digital stack

The layers



The challenge

- Geo-information domain not in the lead, nor always visible
- Geo-information always valuable
- Digital and data policy aimed at European agency and resilience
- A shared aim with the geo-information domain
- What resilience and overall agency does the geo-information domain need in this context?
- How do you position yourself as an actor?

Your domain's agency

- Key things to get directly involved in: where does the geo-domain need a shaping influence? (choice of action)
- Useful things by others to adopt or incorporate? These are opportunities. (e.g. INSPIRE & ID management) (agility)
- Where do you need shielding / your own thing? Ensuring things work on their own, but are better when connected. (domain resilience)

Three levels at the same time

- Strategic: early influence on regulations, providing high level input, keep pulse.

E.g. Geonovum MoU with JRC, EC contacts, regulatory reviews, CA's, other MS counterparts.

- Tactical: Tables to join, providing normative examples, nudging others.

E.g. Geonovum collective narratives Tactical Council geo, nudging FDS, IDSA membership, national norm committees.

- Operational: Help create things, collect experiences

E.g. Geonovum experts in CEN/CENELEC JTC25, circular soil case in GDDS, data connector testing

The questions before you

- Where do you need to be involved yourself? Strategically, tactically, operationally? (choosing your own actions)
- Where can you use or strengthen what others are already doing? Strategically, tactically, operationally? (agility)
- Where must you stick to yourself, or need to limit consequences (resilience)?

W.r.t. aspects of EU digital and data policy and implementation.
For the purpose of societal resilience, through using geo-information.

Thank you!

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