



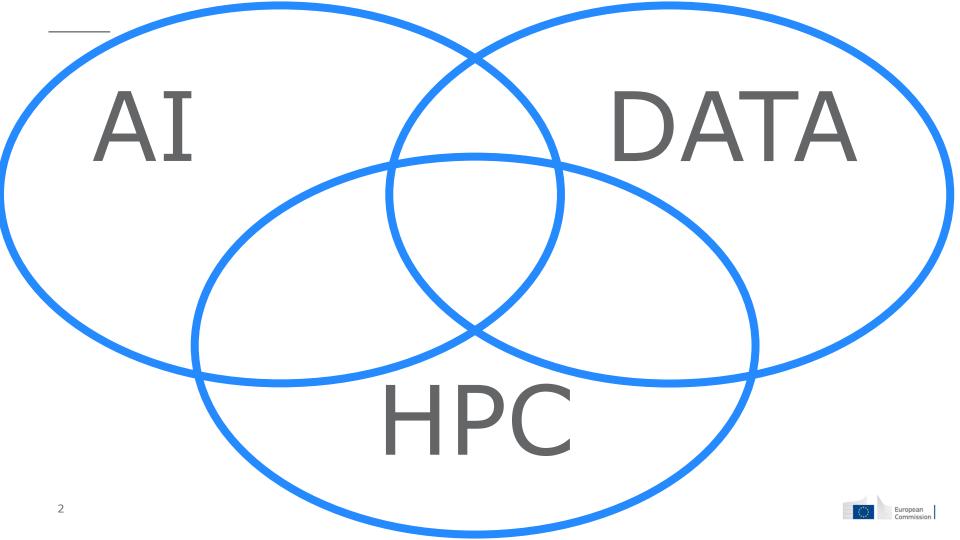
Digital Europe Horizon Europe:

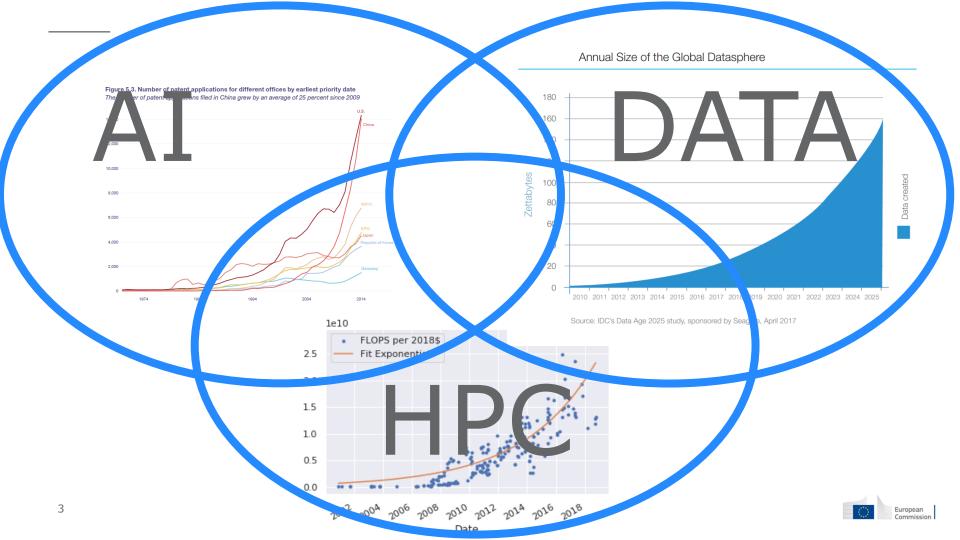
<u>Future funding</u> opportunities in Language Technologies *My Europe, My Language*

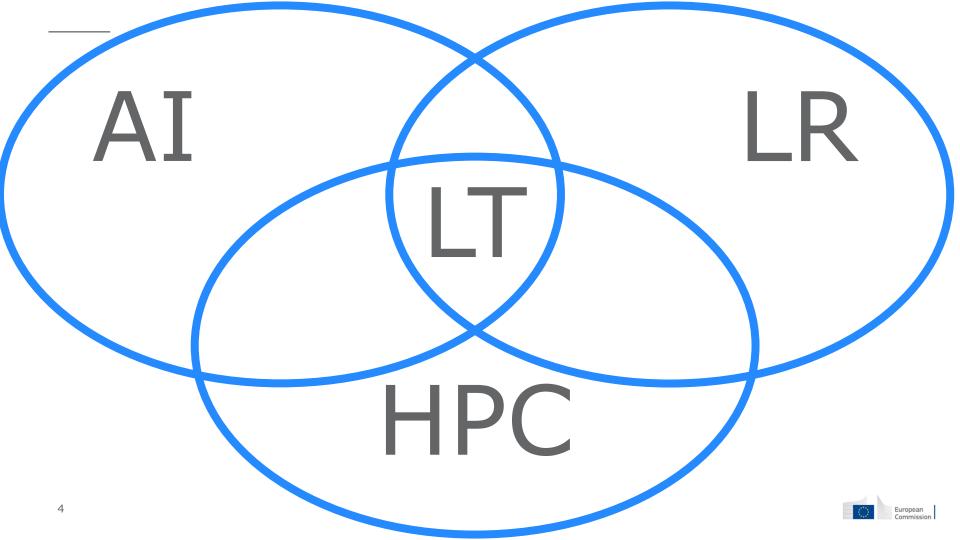
Philippe Gelin

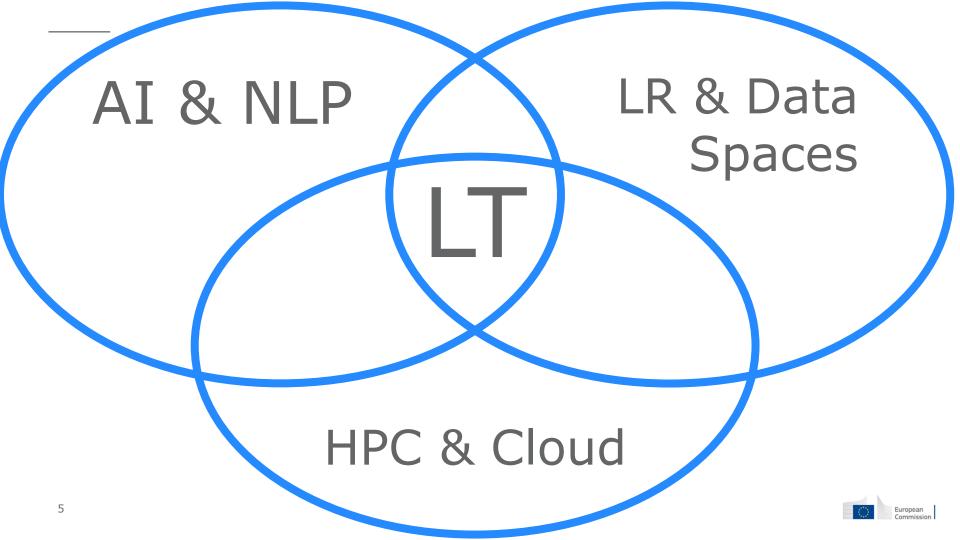
Head of Sector Multilingualism

Directorate-General for Communications Networks, Content and Technology European Commission











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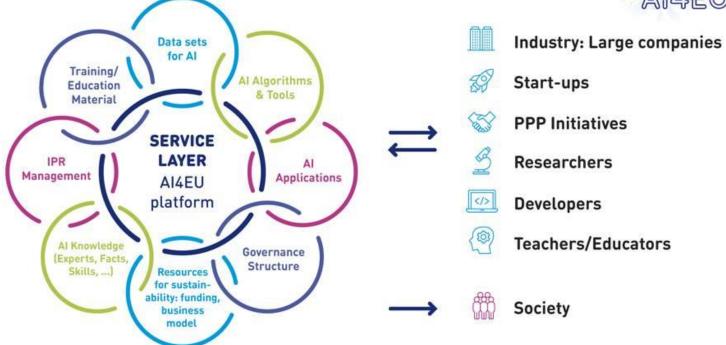
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Infrastructures

AI4EU, ELG, DIH & ELRC

A Platform providing services for many actors

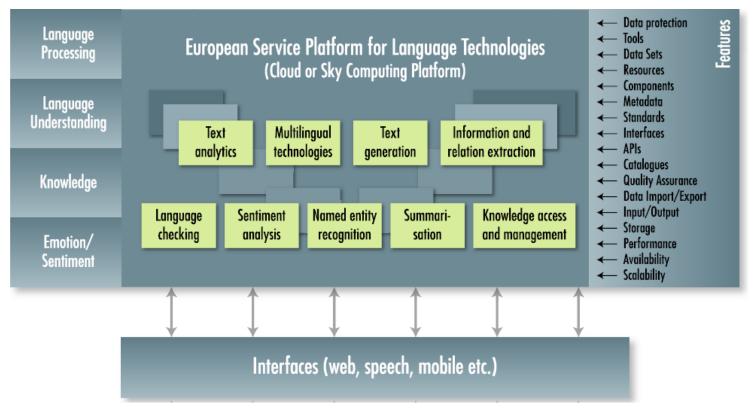




17+3M€ (started in 2019), 80 members



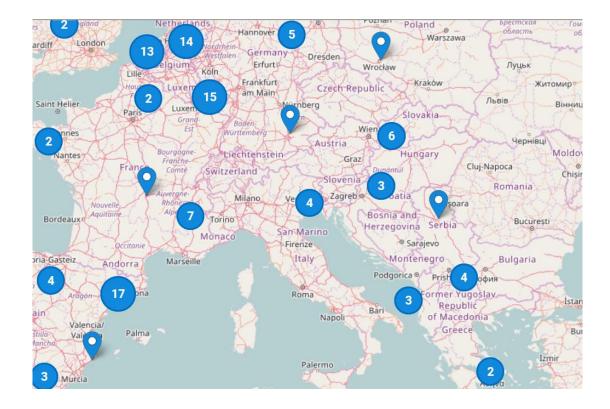
ELG – European Language Grid



STRATEGIC RESEARCH AGENDA FO MULTILINGU

From: META-NET SRA (2013)

AI-related DIHs distribution









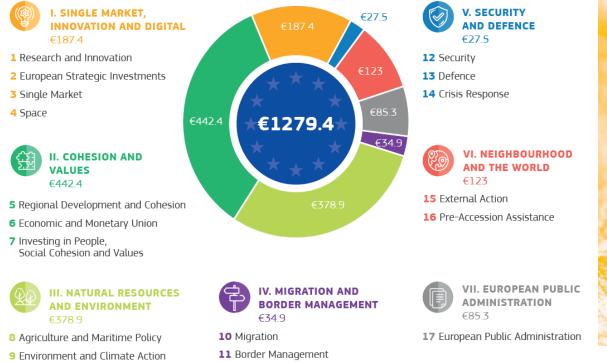
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Future

A BUDGET ALIGNED TO POLITICAL PRIORITIES Simplification, transparency and flexibility

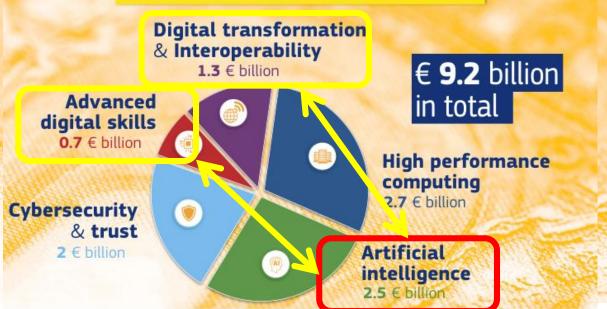
In billion euro, current prices





DIGITAL EUROPE PROGRAMME: CAPACITY BUILDING AND DEPLOYMENT





#EUBudget #DigitalEurope



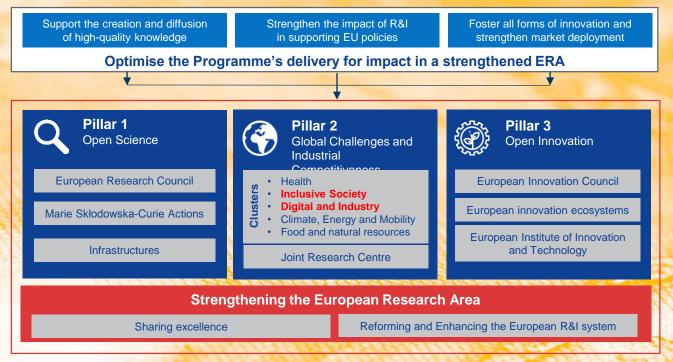
European Commission



European Commission

Horizon Europe: evolution not revolution

Specific objectives of the Programme





LANGUAGE TECHNOLOGIES & MULTILINGUALISM IN THE NEXT MFF



RESEARCH & INNOVATION

- Cultural Heritage:
 Support Language Preservation
- Next Generation Internet: Support research to achieve digital language transparency

CAPACITY BUILDING

- Artificial Intelligence
- Data Spaces
- High Power Computing

DEPLOYMENT & BEST USAGE

- Cloud infrastructures
- Deployment of modern public services

Widening the best use of Digital Technologies

Language Technologies











in Horizon Europe

Support Language Preservation

Why: Most European languages are at risk of digital extinction
How: Collect language resources
Impact: Digital Humanities and Language Technologies Where ?

Inclusive Society

Cultural Heritage









in Horizon Europe

Support research to achieve digital language transparency

Why: EU competitiveness and independence to external technology providers

How: Innovate in Language Technologies

Impact: keep EU Researchers Lower barriers in DSM

Where ?

Next Generation Internet Human-centric



Human-centric Internet applications



European Commission





in Digital Europe Programme

Capacity building

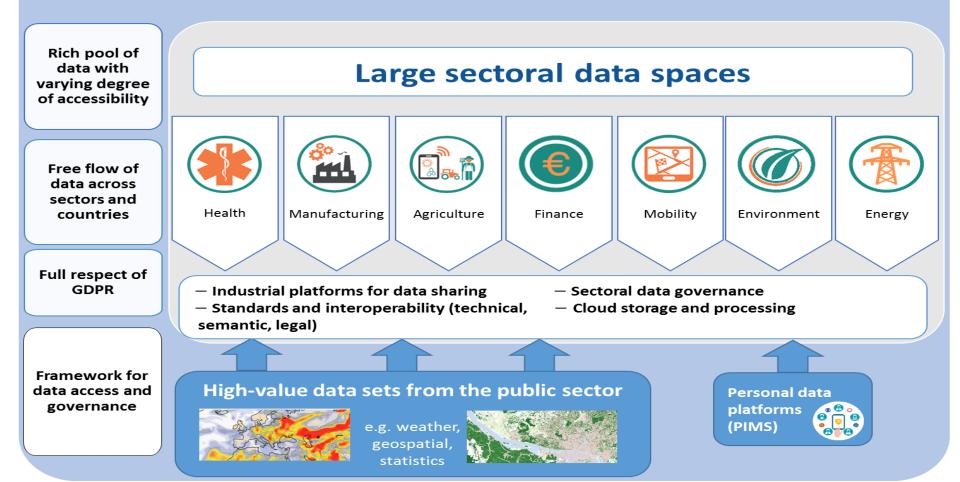
Data Spaces

Data spaces include:

- 1. IT systems
- 2. domain-specific governance frameworks
- 3. standards
- 4. use of cloud infrastructures



Common European Data Space







Capacity building

Artificial Intelligence

Developing Large Testing and Experimentation Facilities

- 1. A platform to design and manufacture edge intelligence components
- 2. Sectorial reference sites (health, agri-food,...)

Scaling up the European AI platform

- Single access point to high quality tested AI resources,
- 2. Bring to industrial standard
- 3. User support to integrate AI into solutions, products and services.



European Commission







Capacity building

High Power Computing

- 1. world-class exascale and post-exascale supercomputing and data infrastructure
- develop, deploy, support access to and maintain in the EU
- to develop and support a highly competitive and innovative HPC ecosystem.



EuroHPC Joint Undertaking – The role of HPC Competence Centres

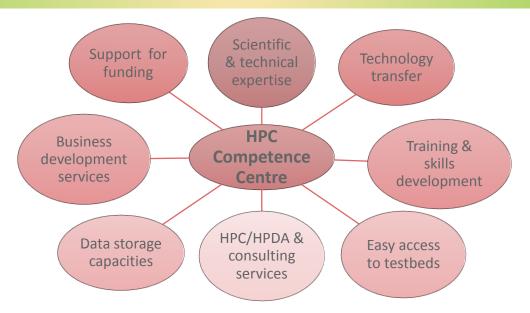


- One HPC Competence Centre per Participating State associated with national supercomputing centres
- Flexible focus depending on country situation to allow bridgebuilding from academia to industry and public administrations
 - Modular approach to offer on-demand services and tools to users
- Access to the HPC innovation ecosystem, and to the supercomputers
- Access to skilled technical experts
 - **Training and outreach activities**
- Networking and coordination with other Competence Centres



Role of an HPC-Competence Centre

A 'one-stop-shop' offering services mainly to industry (including SMEs), and to public administrations



Focus support on few industry sectors and with their relevant European Technology Platforms







DEPLOYMENT & BEST USAGE

Cloud infrastructures

Public nature:

- 1. public services provisioned by public administrations and
- 2. health services by hospitals

Economic nature:

- 1. transport
- 2. Energy
- 3. environment







DEPLOYMENT & BEST USAGE

Deployment of modern public services

 Citizen centric digital public services

- 1. a **Digital Transformation Platform** Ecosystem for interoperability of data and services across borders and domains, & the open data platform
- 2. Technical specifications and infrastructure to support cross-border once-only principle,
- 3. The once only principle infrastructure
- 4. An **interoperability incubator** fostering the creation of innovative gov-tech services.







Technologies supporting deployment of digital services

Cloud Federation as a Service

- Deployment of a <u>public nature</u> federation of pan-European cloud services
- Deployment of a <u>economic nature</u> federation of pan-European cloud services focussing on transport, energy and climate services in the first two years.

(including data storage, data exchange and data optimisation services)







WIDENING THE BEST USE OF DIGITAL TECHNOLOGIES

Language Technologies

- 1. Standardisation, localisation, testing, and piloting local and cross border deployment
- 2. automatic aggregation of from the **data space** and **access to HPC capabilities** to support the processing, development and deployment of localised language technologies
- 3. network of local anchor points to identify, analyse and adapt to digital trends, establish the needs and priorities of the public and private sectors, share best practice, and contribute to common specifications and standards.





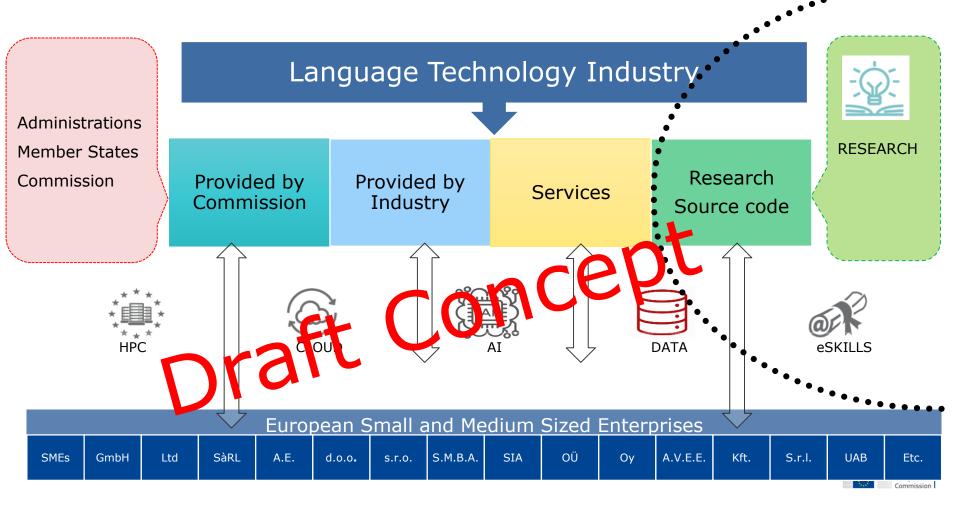




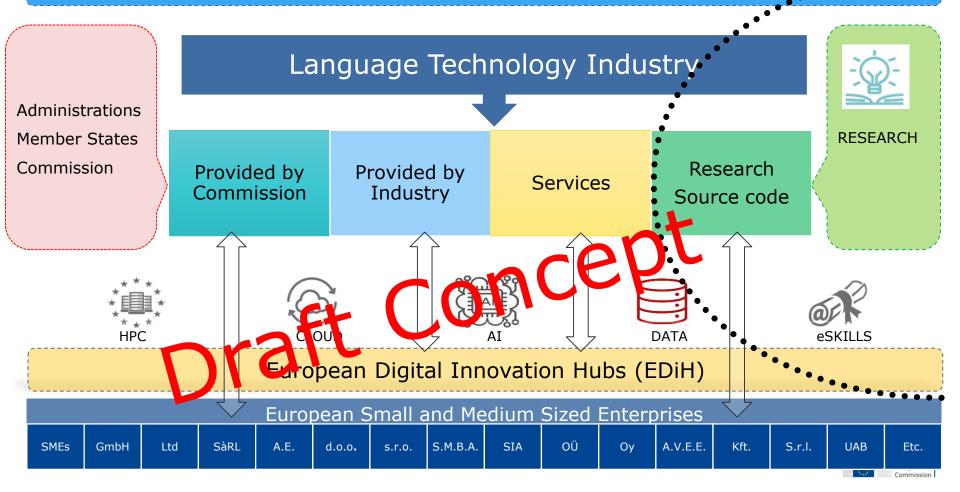
Language Technologies

- Ecosystem of technology providers
- Access to the necessary data sets
- Access to the necessary computing
 power
- Access to the necessary algorithm
- Localisation and uptake of language technologies.





Member States (co-finance)



Links & contacts



PHILIPPE GELIN

European Commission

DG CONNECT - Communications Network, Content and Technology

Dir G: Data

Unit G3: Accessibility, **Multilingualism** and Safer Internet



Philippe.Gelin@ec.europa.eu

