

#### **Philippe Gelin**

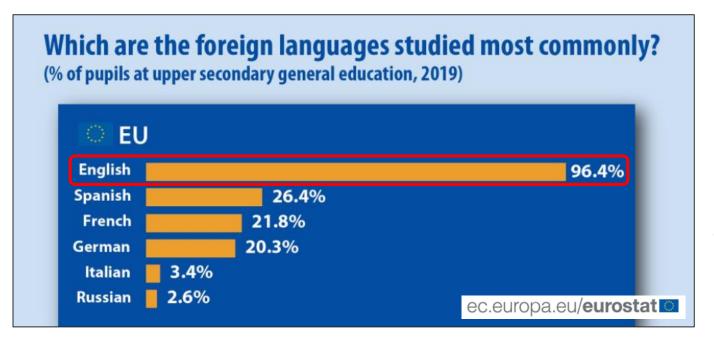
Head of Sector Multilingualism

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

My Europe, My Language

Virtual Berlin, 15th November 2021 – 9:15 – 9:40

# DIGITAL Background Information: Language Learning

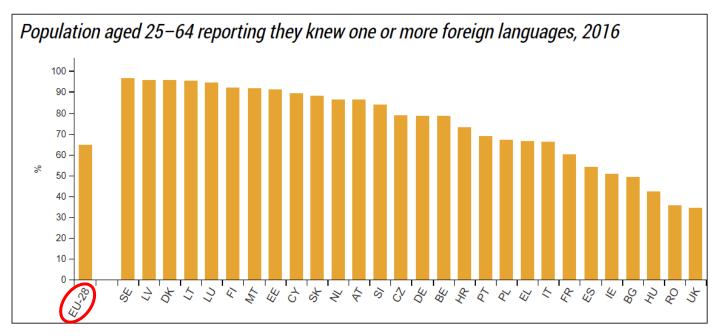


In 2019, **96** % of pupils in upper secondary general education in the EU were **learning English** as a foreign language.

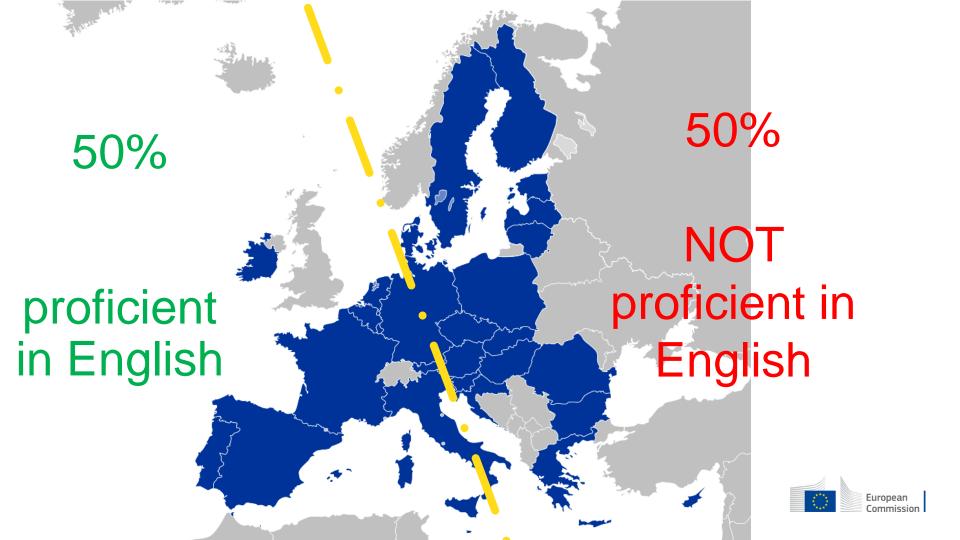
Education and training in the EU - facts and figures
Which are the foreign languages studied most commonly

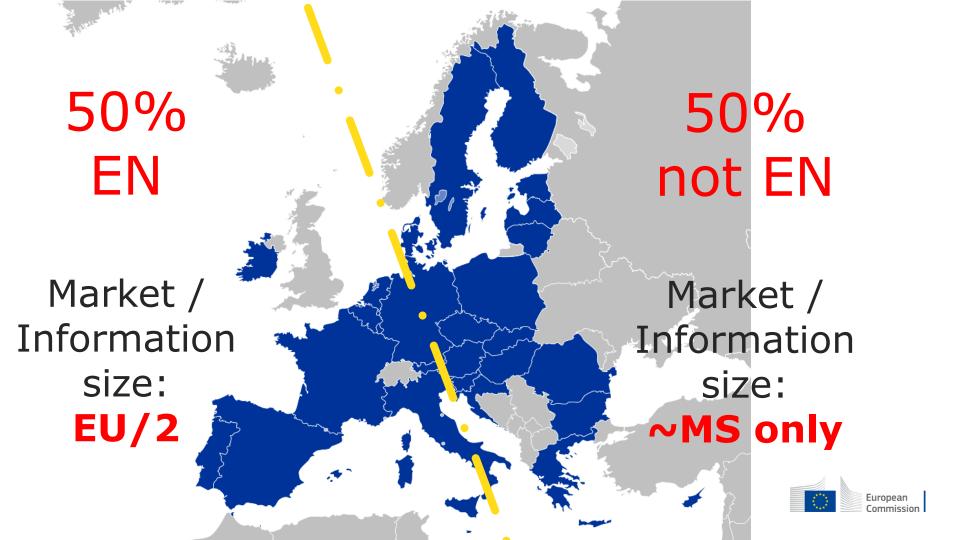


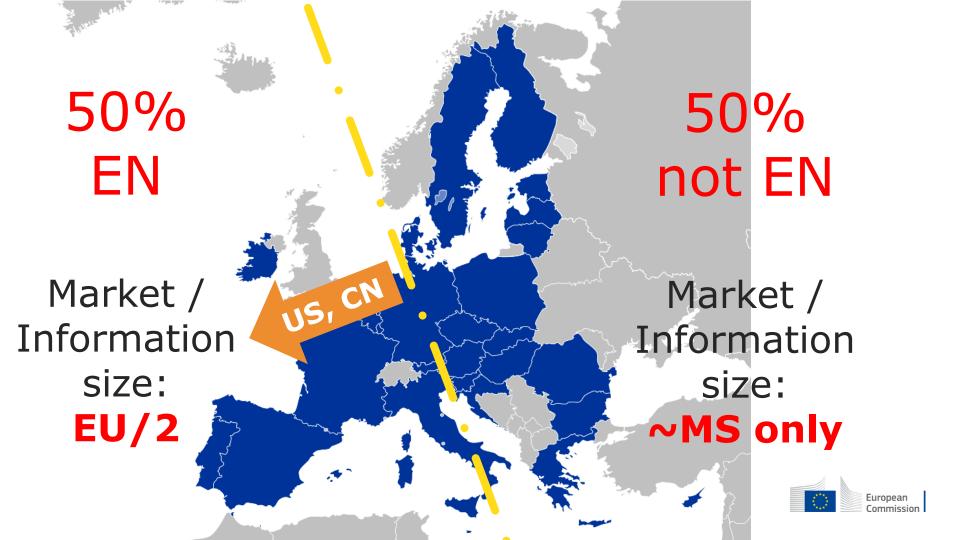
# DIGITAL Background Information: Foreign Language

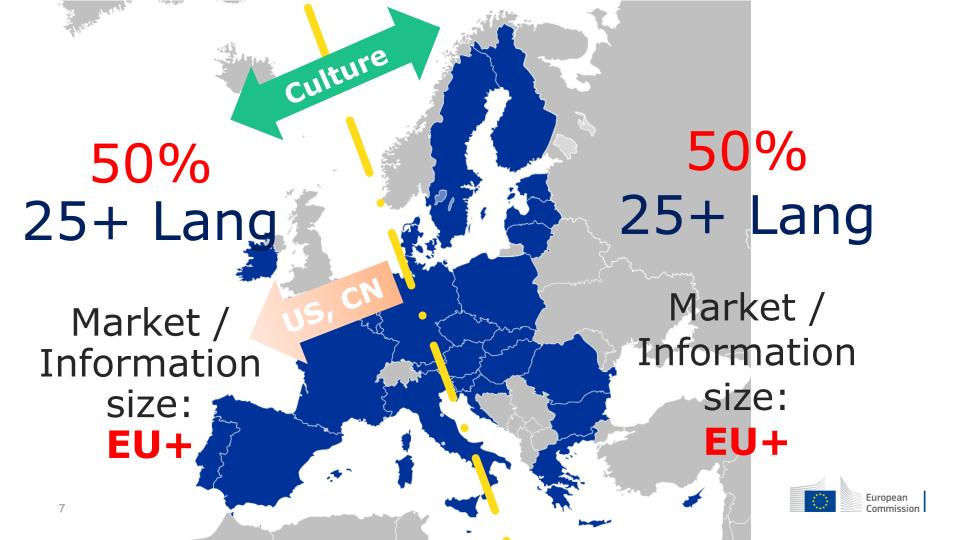












#### **DIGITAL** in a Nutshell:

## The Programme at a Glance



**Digital Europe Programme** 



#### VISION

Digital Decade and digital targets for 2030



#### **FOCUS**

Building the **strategic digital capacities** of the Union and facilitating the wide **deployment** of digital technologies



#### GOAL

**Bridging the gap** between digital technology research and market deployment



# DIGITAL in a Nutshell: The Synergies

















# DIGITAL in a Nutshell: The Big Tickets





HIGH PERFORMANCE COMPUTING





ADVANCED DIGITAL SKILLS

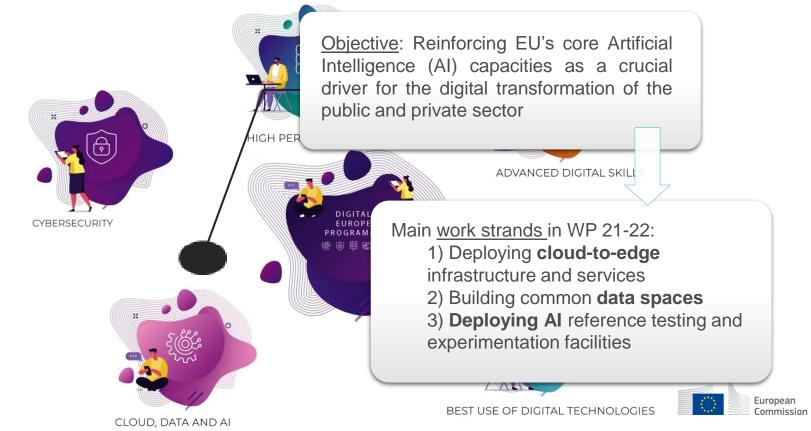




BEST USE OF DIGITAL TECHNOLOGIES



# DIGITAL in a Nutshell: The Cloud, Data and Al





# DATA SPACES Background Information: European Data Strategy

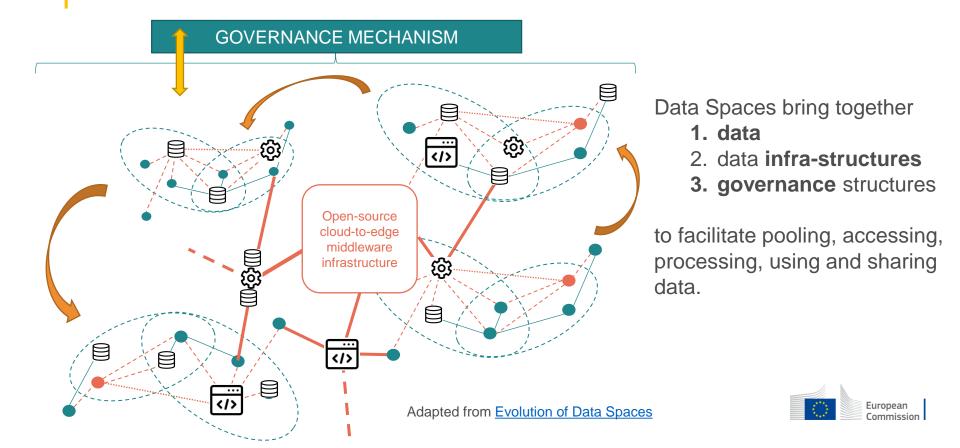
High Impact Project: Data spaces should foster an ecosystem (of companies, civil society and individuals) creating new products and services based on more accessible data.

DATA SPACES

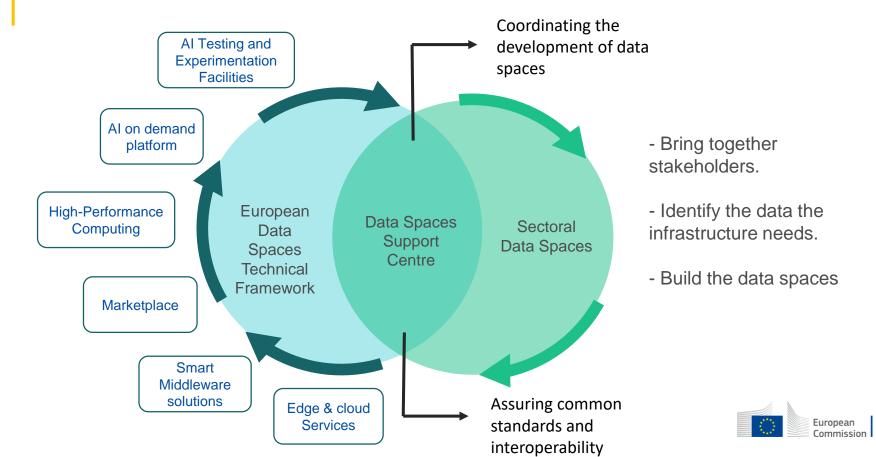
- EU-wide, common, interoperable;
- Including:
  - the deployment of data-sharing tools and platforms;
  - the creation of data governance frameworks;
- Improving the availability, quality and re-usability of data both in domain-specific settings and across sectors.



## DATA SPACES in a Nutshell (1):

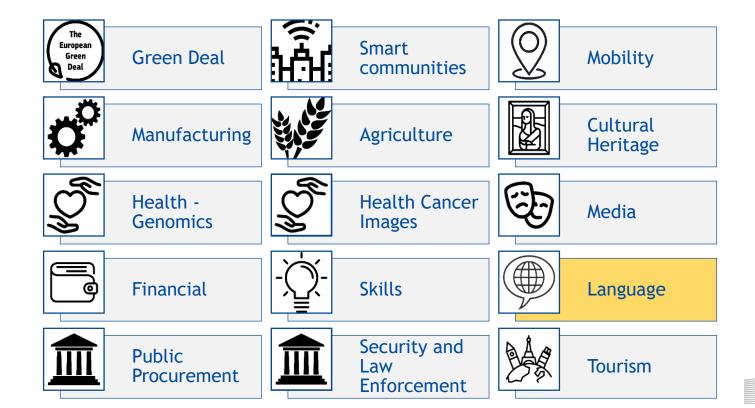


## DATA SPACES in a Nutshell (2):



### Data Spaces in DIGITAL:

### An Overview of all DSs in WP 21-22



European



## Worth Noting



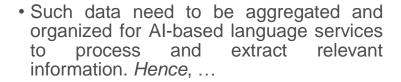


### Reasoning



• Text, audio and video are a large part of the data produced every day. *However, ...* 



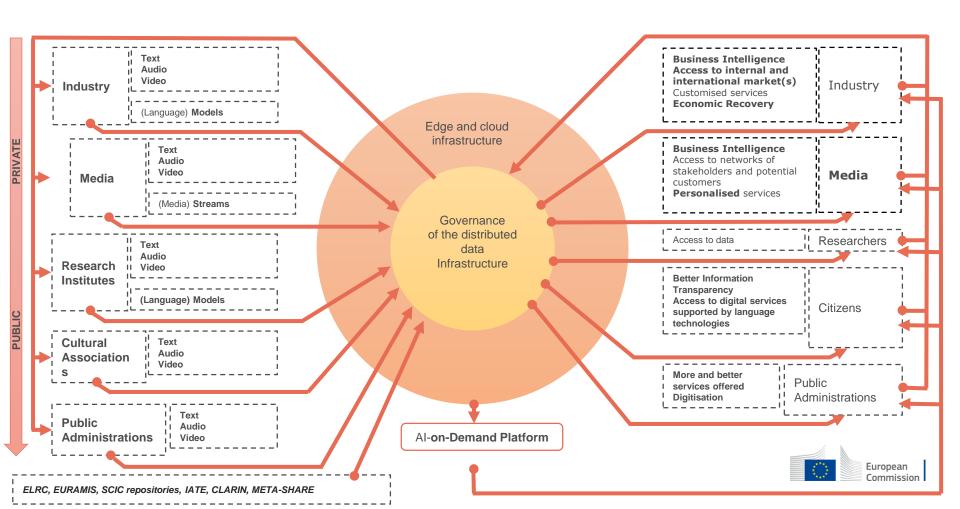


Language Data Space

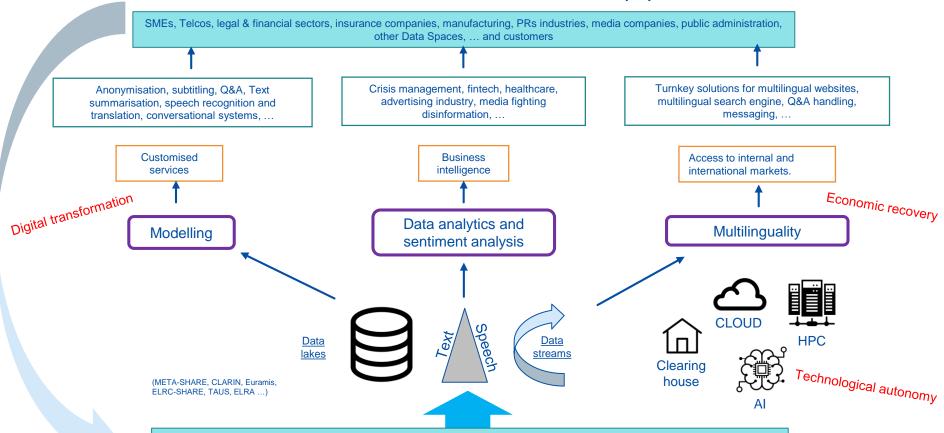
- for the collection, creation, sharing and reuse of multimodal language data &
- as a support to the deployment of large multimodal language models + Al language technologies services through the Al platform.



#### LANGUAGE DATA SPACE in a Nutshell



### LANGUAGE DATA SPACE in a Nutshell (2)



Existing repositories and aggregators, EU and MS administrations, media companies, Telcos, publishers, other Data Spaces

## Language Data Space

- Collection, creation, sharing and reuse of multimodal language data.
- This will support the deployment of large multimodal language models and a wide range of Al language technologies services to be offered through the Al platform.

#### Two Strands:

- Establish an institutional Centre of Excellence for Language Technologies (CELT)
- Deployment of the language data space



### 1st Work Strand

 Establish an institutional Centre of Excellence for Language Technologies (CELT) to coordinate across the Member States the creation and collection of multimodal language data and models.

This will make use of existing EU initiatives of language data collections such as ELRC, EURAMIS, SCIC repositories, IATE, CLARIN, META-SHARE.



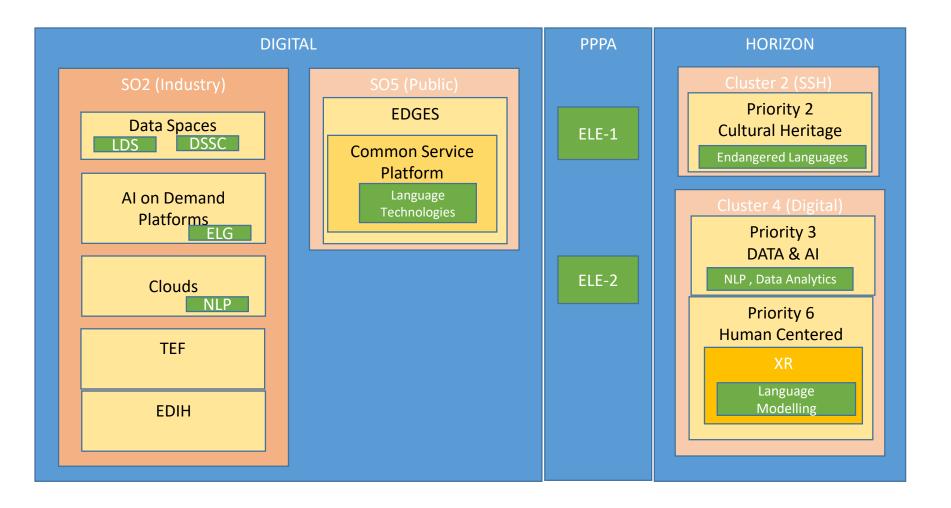
### 1st Work Strand - Detail

- Develop in close collaboration with the Member States a multi-stakeholder data and services governance scheme, bringing together large industrial entities, public stakeholders and small-and-mid-size enterprise stakeholders.
- Identify and bring together existing European stakeholders and initiatives.
- Elaborate a blueprint for the language data ecosystem based on existing EU legislation and language data policies
  to build innovative business models across all stakeholders.
- Identify the large multimodal language models to be deployed.
- **Identify datasets and data streams** (public, private, citizen-collected....) relevant to the creation of large language models to be brought into conformity with the new blueprint standards and principles
- Establish a detailed roadmap on how to deploy the language data space.



## 2<sup>nd</sup> work strand - Deployment

- deploying the necessary infrastructure for the collection and sharing of multimodal language data and models;
- implementing the data & services governance, business models and strategies as defined by CELT;
- supporting the increased uptake and usage of the language data space and its derived language technologies services among European private and public sectors, including various DIGITAL platforms and endeavours/initiatives, also through piloting and deployment projects;
- establishing Member States and industrial collaboration to bring the set of identified language datasets and data streams into **conformity** with the new blueprint standards and principles;
- establishing Member States and industrial collaboration to create and deploy the identified large multimodal language models;
- deploying advanced Al-based language processing services and tools to be made available through the Al-on-demand platform.



### Links & contacts



#### PHILIPPE GELIN

**European Commission** 

DG CONNECT - Communications Network, Content and Technology

Dir G: Data

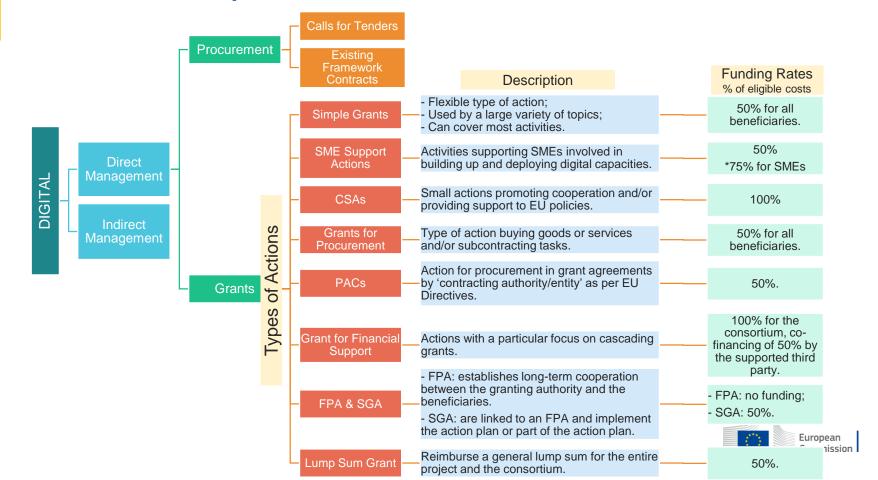
Unit G3: Accessibility, **Multilingualism** and Safer Internet



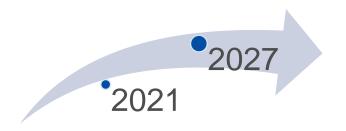
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## DIGITAL Implementation in WP 21-22



# DIGITAL in a Nutshell: The Programme Budget





- Cloud-to-Edge
- Data Spaces
- TEF & Al-on-Deman Platform

#### DIGITAL in MFF 2021-2027

€7.6 Bio	Total financing for Cloud, data and Artificial Intelligence €2.1 Bio
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Funding & tenders (europa.eu)

#### DIGITAL WP 21-22

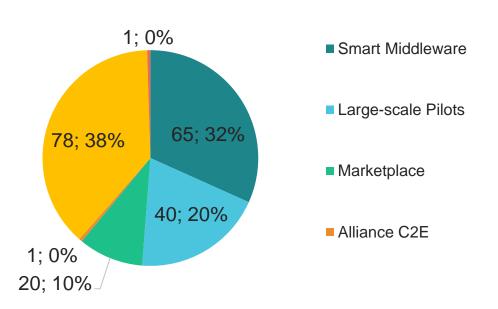
	Cloud to Edge: <b>€204 Mio</b> Data Spaces: <b>€206 Mio</b> TEF & Al-on-demand Platform: <b>€139 Mio</b>
	Total financing for <i>Cloud, data and Al:</i> <b>€549 Mio</b>

**DIGITAL Work Programme** 

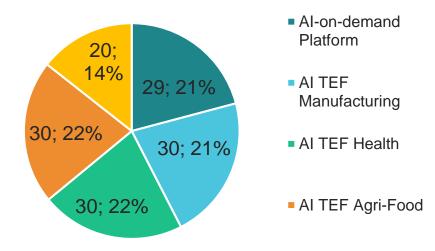


## DATA SPACES Implementation in WP 21-22

2. Cloud to Edge: **€204 Mio** 



3. TEF & Al-on-demand Platform: €139 Mio





# Data Spaces in DIGITAL: Indicative Budget according to WP 21-22 (1)

DATA SPACES Indicative Budget (Mio) over three possible calls

TOT €205 Mio

