

An aerial photograph of a multi-lane highway bridge spanning a valley. The bridge has several vehicles, including cars and a truck. A white geometric network of lines is overlaid on the right side of the bridge, suggesting a data or network visualization. The surrounding landscape includes autumn-colored trees and a small stream.

# POLKEN European Strategy for data webinar

2 April 2020



# Shaping Europe's digital future

## ACTIONS:

- ☐ **A European Strategy for data** to make Europe a global leader in the data-agile economy, announcing a legislative framework for **data governance** (Q4 2020) and a possible **Data Act** (2021)
- ☐ **White Paper on Artificial Intelligence** setting out options for a legislative framework for trustworthy AI with a follow-up on safety, liability, fundamental rights and data (Q4 2020)
- ☐ A reinforced **EU governments interoperability strategy** to ensure coordination and common standards for secure and borderless public sector data flows and services (2021)

# “A European Strategy for data”

- ❑ Communication from the Commission published on 19<sup>th</sup> February 2020
- ❑ Addressed to the Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions
- ❑ Open for feedback until the May 31
- ❑ Because - digital technologies have transformed the economy and society, **affecting all sectors** of activity and the daily lives of all Europeans. **Data is at the centre** of this transformation and more is to come; the way in which data is **stored and processed** will change dramatically in next 5 years

**This communication outlines a strategy for policy measures and investments to enable data economy for the coming five years**

# “A European Strategy for data”

## ❑ The EU will create a single market for data where:

Data can flow within the EU and across sectors, for the benefit of all;

European rules, in particular privacy and data protection, as well as competition law, are fully respected;

The rules for access and use of data are fair, practical and clear.

## ❑ The EU will become an attractive, secure and dynamic data economy by:

Setting clear and fair rules on access and re-use of data;

Investing in next generation standards, tools and infrastructures to store and process data;

Joining forces in European cloud capacity;

Pooling European data in key sectors, with EU-wide common and interoperable data spaces;

Giving users rights, tools and skills to stay in full control of their data.



- ❑ The EU can become a leading role model for **a society empowered by data to make better decisions – in business and the public sector.**
- ❑ In a concerted manner has to deal with issues ranging from **connectivity** to **processing** and **storage of data, computing power** and **cybersecurity**. Improve its **governance structures for handling data** and to increase its pools of **quality data** available for **use** and **reuse**.
- ❑ Has to create an attractive policy environment with aim to create a single **European data space** – a genuine **single market for data**, open to data from across the world.
- ❑ Should combine **fit-for-purpose legislation** and **governance** to ensure **availability** of data, with investments in **standards, tools and infrastructures** as well as competences for **handling data**.

## Fragmentation between Member States

- a major risk for the vision of a common European data space and for the further development of a genuine single market for data

## Availability of data

- **Data for the public good**: Data is created by society and can serve to combat emergencies, such as floods and wildfires, to ensure that people can live longer and healthier lives, to improve public services, and to tackle environmental degradation and climate change, and, where necessary and proportionate, to ensure more efficient fight against crime. Data generated by the public sector as well as the value created should be available for the common good by ensuring, including through preferential access, that these data are used by researchers, other public institutions, SMEs or start-ups.
- Use of public sector information by business (government-to-business – G2B – data sharing). Opening up government-held information is a long-standing EU policy
- Business to business & business to government
- Sharing of data between public authorities is equally important.

### Imbalance in market power

- a case in point comes from large online platforms, where a small number of players may accumulate large amount of data

### Data interoperability and quality

- key for the exploitation of the data value, especially in the context of AI deployment
- the rolling plan for ICT standardisation and (as regards public services) a strengthened European Interoperability Framework

### Data governance

- enable data-driven innovation on the basis of the existing legal framework.

### Data infrastructures and technologies,

- Specifically, cloud uptake in the European public sector is low. This may lead to less efficient digital public services

# The strategy actions are based on four pillars



## GOVERNANCE

**A. Cross-sectoral governance framework for data access and use**

**B. Enablers:**  
Investments in data and strengthening Europe's capabilities and infrastructures for hosting, processing and using data, interoperability

**C. Competences:**  
Empowering individuals, investing in skills and in SMEs

**D. Common European data spaces in strategic sectors and domains of public interest**






## PRINCIPLES:

Horizontal measures to ***avoid harmful fragmentation***.

Approach to regulation to create ***frameworks to shape the context***.

Approach to governance that favours **experimentation, iteration and differentiation**.

## ACTIONS:

-  Propose a legislative framework for the governance of common European data spaces (Q4 2020) taking in account the need for sectoral authorities to specify sectoral requirements.
-  Adopt an implementing act on high-value data-sets, Q1 2021, in order to open up key public sector reference datasets.
-  Propose, as appropriate, a Data Act, 2021, (IPR, Database directive, competition...)
- ✓ Analysis of the importance of data in the digital economy (e.g. through the Observatory of the Online Platform Economy), and review of the existing policy framework in the context of the Digital Services Act package (Q4 2020).

## Investments in data and strengthening Europe's capabilities and infrastructures for hosting, processing and using data, interoperability

- ❑ **Invest in a High Impact project on European data spaces**, The project will fund infrastructures, data-sharing tools, architectures and governance mechanisms for thriving data-sharing and Artificial Intelligence ecosystems. The Member States and industry are expected to co-invest with the Commission in the project'(2022)
- ❑ The spaces will include:
  - the deployment of **data-sharing tools** and platforms;
  - the creation of **data governance frameworks**;
  - improving the **availability, quality and interoperability of data** – both in domain and across sectors.
- ❑ Funding will also support authorities in the MS in **making high value data sets available** for reuse in the different common data spaces. The support for data spaces will also cover data processing and computing capacities that comply with essential requirements in terms of environmental performance, security, data protection, interoperability and scalability.
- ❑ Sign Memoranda of Understanding with Member States on cloud federation (Q3 2020)
- ❑ Launch European cloud services marketplace by integrating the full stack of clouds (Q4 2022)
- ❑ Create an EU (self-) regulatory cloud rulebook (Q2 2022)

## Empowering individuals, investing in skills and in SMEs



### *Empowering individuals with respect to their data*

Enhancing the **portability right** for individuals under Article 20 of the GDPR giving them more control over who can access and use machine-generated data



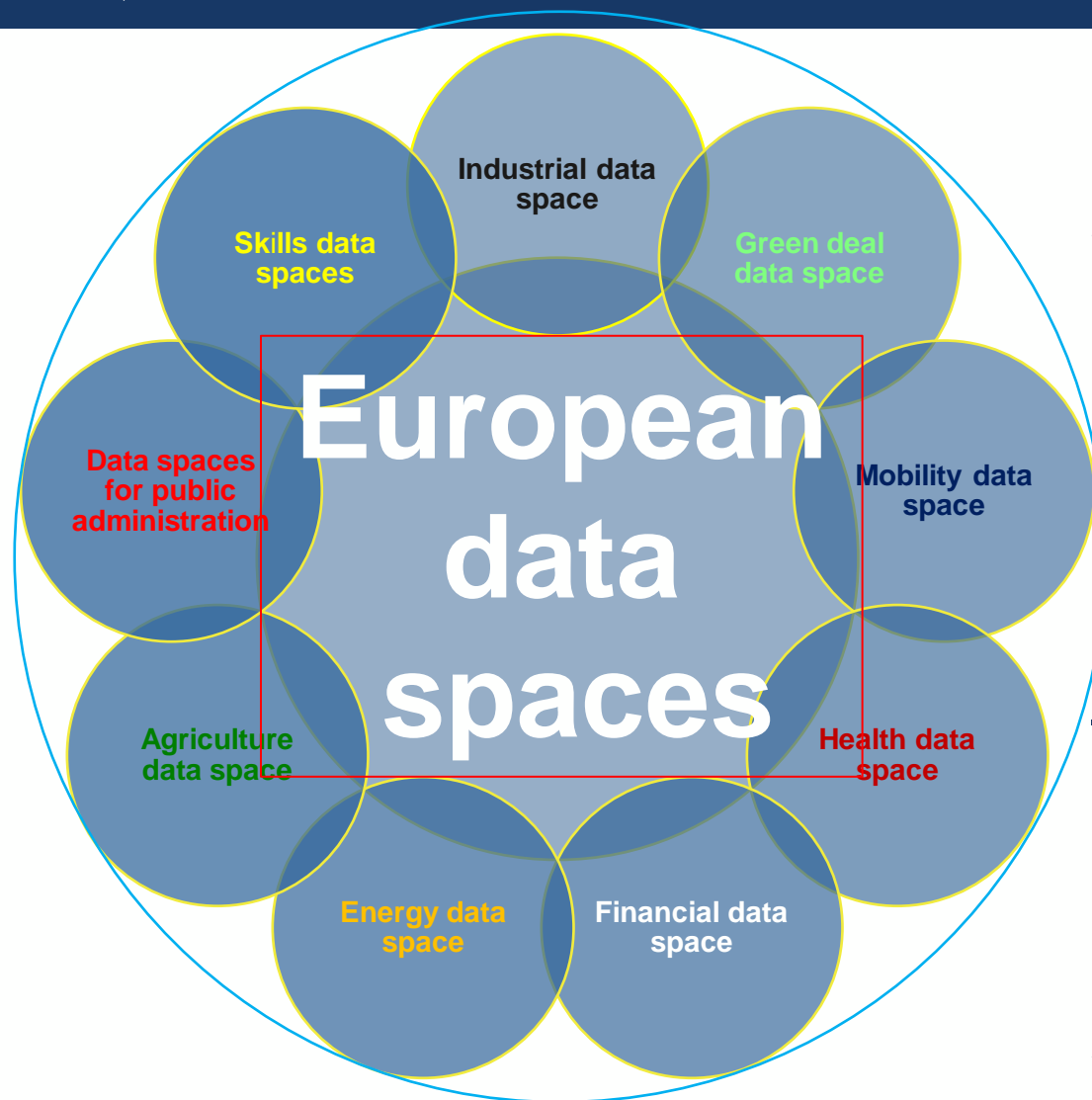
### *Investment in skills and general data literacy*

Digital Europe programme will contribute to narrowing the gap in terms of big data and analytics capacities. Funding available to expand the digital talent pool with in the order of 250 000 people who will be able to deploy the latest technologies in businesses throughout the EU.



### *Dedicated capacity building for SMEs*

European SME strategy define measures to build capacity for SMEs and start-ups. Data is an important asset in this context, since starting or scaling a company based on data is not very capital intensive. SMEs and start-ups often require legal and regulatory advice to fully capture the many opportunities ahead from data-based business models



### Commission will promote development of common European data spaces:

strategic sectors or domains of public interest - those where the use of data will have systemic impact on the entire ecosystem, but also on citizens.

be complemented by sectoral legislation for data access and use, and mechanisms for ensuring interoperability.

implies an open, but assertive approach to international data flows, based on European values.

Connecting Europe Facility (CEF 2) programme, the new external instruments, the Neighbourhood, Development and International Cooperation Instrument and the Instrument for Pre-accession Assistance, will support the connectivity of third countries with Europe.



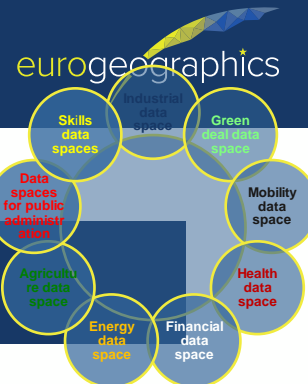


# Industrial (manufacturing) data space

A 2018 study estimated the potential value of use of non-personal data in manufacturing at €1,5 trillion by 2027.

In order to unleash this potential, the Commission will:

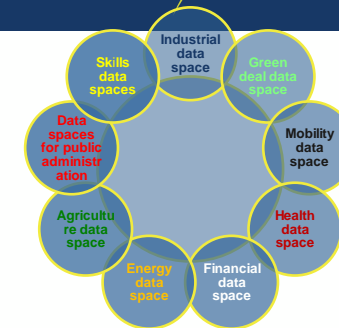
- ☐ Address issues related to the usage rights on co-generated industrial data (**IoT data created in industrial settings**), as part of a wider **Data Act** (Q4 2021).
- ☐ Gather key players from the manufacturing sector to agree – in a manner compliant with **competition rules** as well as principles of fair contracts – the conditions under which they would be ready to share their data and how to further boost data generation, notably via smart connected products (Q2 2020 onwards).



## Green deal data space

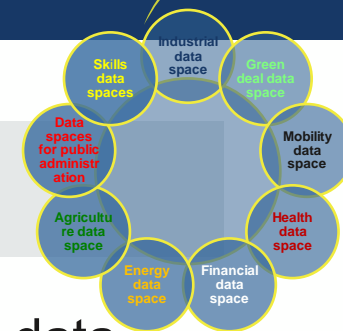
- ❑ Initiate a **'GreenData4All' initiative**. This consists in evaluating and possibly reviewing of the **INSPIRE directive**, together with the **Access to Environment Information Directive** (Q4 2021 or Q1 2022).
- ❑ **Roll out re-usable data-services on a large scale** to assist in collecting, sharing, processing and analysing large volumes of data relevant for assuring compliance with environmental legislation and rules related to the priority actions set in the Green Deal.(Q4 2021)
- ❑ Development of architecture and **governance (2020)**, **sectoral data strategies (2021)**, **adoption of a sustainable product policy** with product passport (2021) and resource mapping and waste shipments tracking (2021).
- ❑ Initiate a pilot for early implementation of the data strategy in the context of the 'zero pollution ambition' to harvest the potential of an already data-rich policy domain with data on **chemicals, air, water and soil emission**, hazardous substances in consumer products, etc. which is underexploited and where early results can benefit consumers and the Planet directly (Q4 2021).
- ❑ **Launch the 'Destination Earth' initiative** - The 'Destination Earth' initiative will bring together European scientific and industrial excellence to develop a very high precision **digital model of the Earth**. This ground breaking initiative will offer a digital modelling platform to visualize, monitor and forecast natural and human activity on the planet in support of sustainable development thus supporting Europe's efforts for a better environment as set out in the Green Deal. The digital twin of the Earth will be constructed progressively, starting in 2021.

# Mobility data space



- ☐ Review the current EU type approval legislation for motor vehicles (Q1 2021).
- ☐ Review the Directive on harmonised **river information services** and the **Directive on Intelligent Transport Systems**, including its delegated regulations to further contribute to data availability, reuse and interoperability (both in 2021) and
- ☐ establish a **stronger coordination mechanism** to federate the National Access Points established under the ITS Directive through a EU wide CEF Programme Support Action (2020).
- ☐ Amend the proposal for a Regulation on the **Single European Sky** to include new provisions on data availability and market access of data service providers in order to promote the digitalisation and automation of air traffic management (2020).
- ☐ Review the regulatory framework for **interoperable data-sharing in rail transport** in 2022.
- ☐ Establish common data sets as foreseen in the Regulation on **Maritime Single Window** and, subject to its final adoption, in the Regulation on electronic freight transport information regulations.

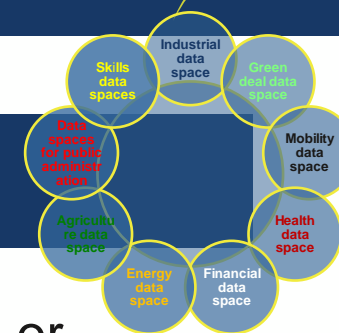
# Health data space



- ❑ Take measures to strengthen citizens' access to health data and portability of these data
- ❑ Code of Conduct for processing of personal data in health sector.
- ❑ Deploy the data infrastructures, tools and computing capacity for the European health data space, more specifically support the development of national electronic health records (EHRs)

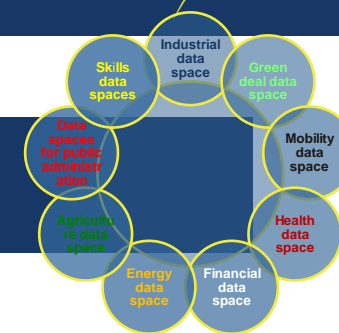


# Financial data space



- ☐ The Commission will further facilitate access to public disclosures of financial data or supervisory reporting data, currently mandated by law, for example by promoting the use of common pro-competitive technical standards.
- ☐ ensure full implementation of the revised Payment Services Directive.

# Energy data space



- ☐ Adopt implementing act(s) setting out the interoperability requirements and non discriminatory and transparent procedures for access to data, building on existing national practices on the basis of the Electricity Directive 2019/944 (2021/2022).
- ☐ Consider actions for improving the interoperability in **smart buildings** and products, with a view to improve their energy efficiency, optimise local consumption and broaden the integration of renewable energy sources (Q4 2020).



# Agriculture data space

- ❑ Take stock with Member States and stakeholder organisations of experiences gained with the stakeholder code of conduct on agricultural data sharing by contractual agreement, also on the basis of the current market for digital farm solutions and their requirements in terms of data availability and use (Q3/Q4 2020).
- ❑ Take stock of agricultural data spaces in current use, including funded under the Horizon 2020 programme, with stakeholders and Member State organisations and take decision on an EU approach (Q4 2020/Q1 2021).



# Data spaces for public administration

- ☐ elaborate a data initiative for public procurement data covering both the EU dimension such as TED and the national ones (Q4 2020). It will be complemented by a procurement data governance framework.
- ☐ issue guidance on common standards as well as interoperable frameworks for legal information held at European and national level, in close cooperation with MS (Q1 2021)
- ☐ work with Member States to ensure that data sources related to the implementation of the EU budget are Findable, Accessible, Interoperable and Reusable (FAIR)



# Skills data spaces



As announced in the Digital Education Action Plan, the Commission also developed the Europass Digital Credentials framework to issue credentials to learners in a secure and interoperable digital format.

- ❑ Support Member States in the development of digital credential transformation plans and in the preparation of re-usable data-sets of qualifications and learning opportunities (2020-2022)
- ❑ Establish a governance model for the on-going management of the Europass Digital Credentials Framework in close cooperation with Member States and key stakeholders (by 2022)

# EGHO follow up

- ✓ All members informed through usual EuroGeographics channels;
- ✓ Introduction letter to Commissioner for Internal Market sent;
- ✓ Commission questionnaire reviewed and decided that it is not the way for the EG contribution;
- ✓ EuroGeographics way is a briefing paper;
- ✓ Topic leader would be appreciated!
- ✓ [CNECT-DATA-STRATEGY@ec.europa.eu](mailto:CNECT-DATA-STRATEGY@ec.europa.eu)



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