



Europe's data strategy enabling the European Green Deal data space

INSPIRE Conference

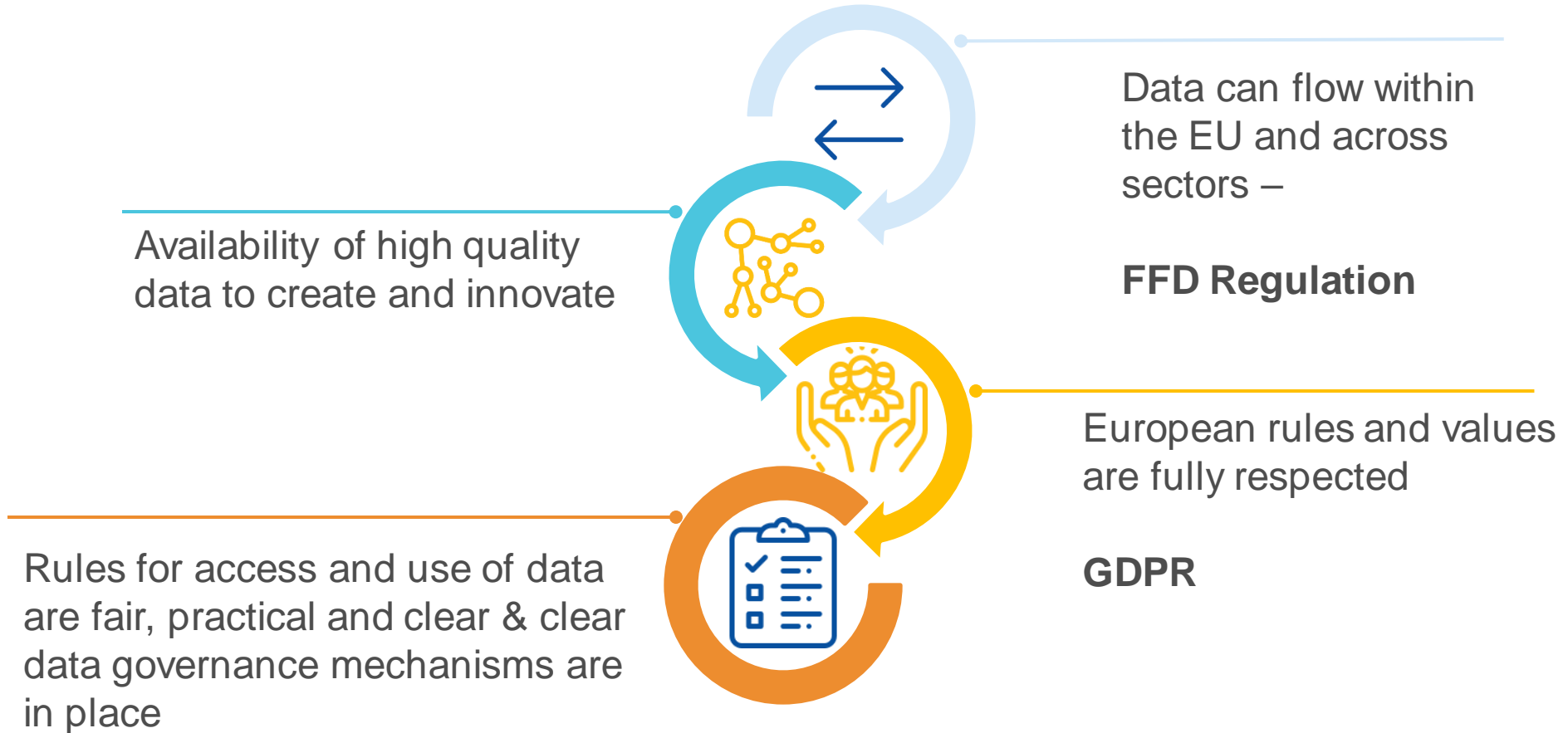
25 October 2021

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European Commission, DG CNECT, unit G1 - Data Policy and Innovation

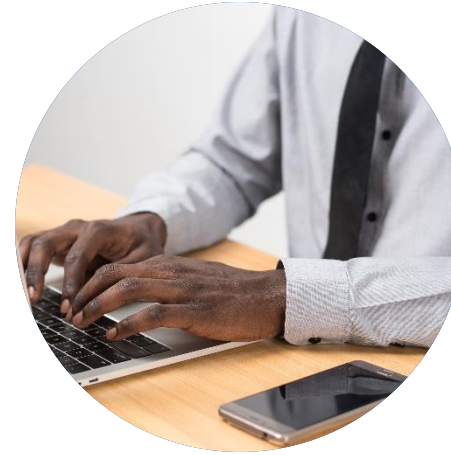
European Strategy for Data

A common European data space, a single market for data



Benefitting from the second wave of industrial data

Deploying the strategy through 4 Pillars



A cross-sectoral governance framework for data access and use
including a legislative framework for the governance of European data spaces and other cross-sectoral measures for data access and use

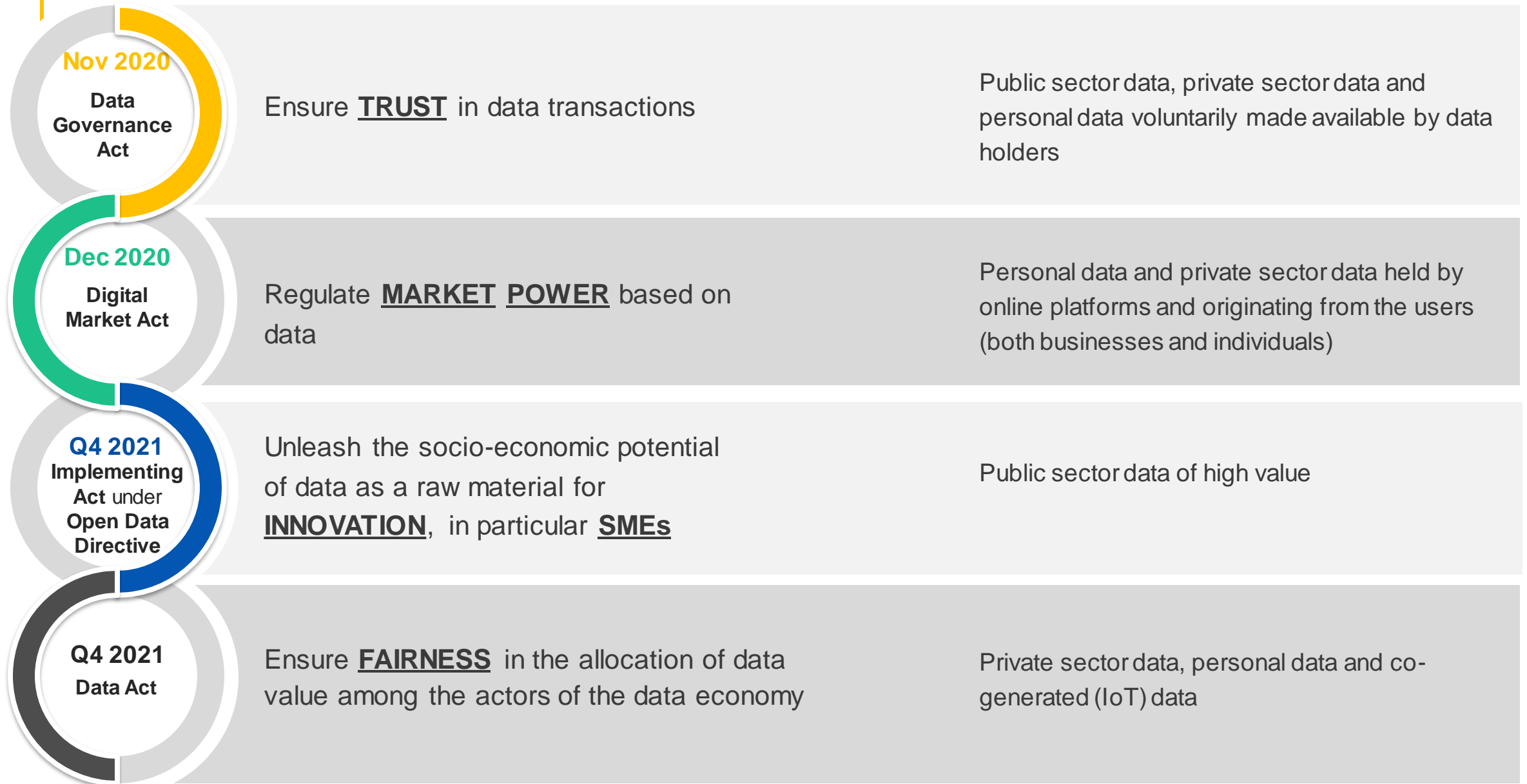
Enablers
Investments in a High Impact Project on European data spaces and federated cloud infrastructures

Competences
Empowering individuals, investing in digital skills & data literacy and in dedicated capacity building for SMEs.

Rollout of common European data spaces
in crucial economic sectors and domains of public interest, looking at data governance and practical arrangements.

International Aspects

European Strategy for Data: 4 key instruments



Nov 2020

Data Governance Act

Ensure **TRUST** in data transactions

Public sector data, private sector data and personal data voluntarily made available by data holders

Dec 2020

Digital Market Act

Regulate **MARKET POWER** based on data

Personal data and private sector data held by online platforms and originating from the users (both businesses and individuals)

Q4 2021
Implementing Act under Open Data Directive

Unleash the socio-economic potential of data as a raw material for **INNOVATION**, in particular **SMEs**

Public sector data of high value

Q4 2021
Data Act

Ensure **FAIRNESS** in the allocation of data value among the actors of the data economy

Private sector data, personal data and co-generated (IoT) data

Data Governance Act - Overview

- **Re-use of sensitive data held by public sector bodies**
- Framework for new **data intermediaries** in the Single Market
- Framework for **data altruism**
- **Co-ordination and interoperability: European Data Innovation Board**
- Trust when it comes to **international** situations

[Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on European data governance \(Data Governance Act\) - COM/2020/767 final](#)

European Data Innovation Board (Chapter VI)

- **Advising and assisting** the Commission in developing a consistent practice for re-use, data intermediaries and data altruism entities;
- **Governance of technical standardisation** to enhance interoperability;
- **Facilitating the cooperation of the work of national competent authorities** for enhanced data use.

EVIDENCE:

91% of respondents consider that standardisation is necessary to improve interoperability and ultimately data re-use across sectors.

83,3% consider public authorities should play a role in standardisation (funding to open standards and for testing, prioritisation and coordination of standardisation).

DGA: status of legislative discussion

- Proposal adopted by the Commission: 25 November 2020 ([COM\(2020\)767](#))
- EP position adopted on 16 September 2021 ([Niebler report](#))
- Council position (COREPER mandate) adopted on 1 October 2021.

Open Data directive (2019/1024 of 20/6/2019)

Implementing Act : list of high value datasets

Geospatial

*Earth observation
and environment*

Meteorological

Statistics

*Companies and
company ownership*

Mobility

- Datasets listed in the implementing act to be made available:
 - for free
 - in machine-readable formats
 - via APIs and (where relevant) as bulk downloads
- [Impact Assessment](#) positive opinion
- Expected adoption: Q4/2021

Data Act – objectives (*work in progress*)

- Increase legal certainty for consumers and businesses on access to data while continuing to incentivise data generation
- Prevent abuse of contractual imbalances that hinder fair data sharing between businesses
- Facilitate use of commercially-held data for public interest purposes
- Facilitate switching between trustworthy cloud and edge services
- Establish a framework for efficient data interoperability

An [open consultation on the Data Act](#) ran from 3 June to 3 September 2021

(geo)portals

INSPIRE GEOPORTAL
Enhancing access to European spatial data

European Commission > INSPIRE > Geoportal

Home | Priority Data Sets Viewer | Thematic Viewer | Harvesting status | Find out more about

Environmental Domains

Explore Member States' priority data sets grouped by the following Environmental Domains or individual data sets.

Domains | Thematic Grouping | List of data sets

- Air**
Covers ambient air quality and cleaner air for Europe ...
Individual Data sets: 112 | 45 | 35
- Nature**
Covers conservation of natural habitats and wild fauna and flora, wild birds...
Individual Data sets: 312 | 212 | 190
- Water**
Covers the Water Framework Directives, Urban waste water, bathing water...
Individual Data sets: 868 | 524 | 436
- Noise**
Covers ambient noise quality and noise for Europe...
Individual Data sets: 402 | 244 | 210
- Waste**
Covers the landfill of waste, waste from extractive industries, soil...
Individual Data sets: 26 | 11 | 12
- Industrial emissions**
Covers industrial emissions...
Individual Data sets: 89 | 41 | 36
- Industrial accidents**
Covers industrial accidents...
Individual Data sets: 26 | 20

data.europa.eu

English (en) | Search site content

Data | Studies | Training | News | Contact

data.europa.eu

The official portal for European data

82 Catalogues | 36 Countries | 1 220 893 Datasets

Search datasets

Agriculture, Fisheries, Forestry & Foods | Economy & Finance | Education, Culture & Sport | Energy | Environment | Government & Public Sector | Health | International issues | Justice, Legal System & Public Safety | Population & Society | Regions & Cities | Science & Technology | Transport

DATA CATALOGUES | ALL DATASETS | EU INSTITUTIONS DATASETS

Open data news

- Learn about AI solutions in the European public sector**
07/09/2021
A new dataset provided by the Joint Research Centre (JRC)
[Read more...](#)
- Discover the Open Buildings dataset!**
03/09/2021
A Google AI initiative to guide humanitarian efforts
[Read more...](#)

Studies

- Sustainability of (Open) Data Portal Infrastructures reports pt. 6**
14/04/2021
- Finding open data in 2021: Data.europa.eu**
17/03/2021
- Analytical Report 19: Understanding supply and demand on the European Data Portal**
24/02/2021
- Report 19: Understanding data supply and demand on the European Data Portal**

Support Centre for Data Sharing

The screenshot displays the website's interface. At the top, the logo and name 'Support Centre for Data Sharing' are on the left, and '(EN) English' and 'Log in' are on the right. A navigation bar below contains links for HOME, ABOUT US, DATA SHARING, PRACTICE EXAMPLES, NEWS & EVENTS, FORUM, and SUPPORT, along with a search bar. The main content area features a 'News' section with a featured article titled 'Share your input for the Data Act!' and a call to action 'Help shape the Data Act in the European Commission's public consultation.' Below this is a paragraph of text and a 'Read more' link. To the right, there are sections for 'NEWS' and 'EVENTS' with various articles and dates. A large orange overlay menu is positioned on the right side, listing categories: DATA SHARING PRACTICE EXAMPLES, WHAT IS DATA SHARING?, TECHNICAL ASPECTS, LEGAL ASPECTS, API TRAINING MODULE, WIDGETS AND TOOLS, SECURE DATA SHARING, DATA SHARING FAQ, and RECOMMENDED CONTRACT TERMS. At the bottom, there is a 'TWEETS BY @EU_DATASHARING' section and the European Commission logo.

Support Centre for Data Sharing (EN) English Log in

HOME ABOUT US DATA SHARING PRACTICE EXAMPLES NEWS & EVENTS FORUM SUPPORT Search

News

Share your input for the Data Act!

Help shape the Data Act in the European Commission's public consultation.
[Read more](#)

Governments', businesses' and individuals' understanding of data has changed dramatically over the last few years. Through education, news, legislative change, and supporting education programmes and dedicated data infrastructure, EU citizens have had many opportunities to develop an awareness of what data means for their lives, and of the potential economic and social impact of data that affects them directly.

The "Support Centre for Data Sharing" (SCDS) is a new initiative funded by the European Commission to further support the development of the Digital Single Market. Our objective is to facilitate data sharing, i.e. transactions in which data held by public sector or private sector are made available to other organisations (public or private) for use and re-use. Data sharing can happen in exchange for payment (or other reward) or for free. Success of data sharing depends on practices, technology, cultural elements and legal frameworks that are relevant to sharing any kind of information digitally, between individuals or organisations.

SCDS focuses on researching, documenting, and reporting about the data sharing practices, EU legal frameworks, and access and distribution technologies that imply novel models, and legal or technological challenges. Through this website, we collect, develop and disseminate tools and technical expertise and provide practical support for data transactions. With awareness of the value and potential of data, maturity has evolved as well.

NEWS

01.07.2021 Mekong River Commission urges more data sharing

29.06.2021 UN Data Science Official Statistics webinar

24.06.2021 Smart Cities Data Catalogue Specific

EVENTS

07.07.2021 B2G data sharing cities: series of 5 workshops

15.07.2021 i4Trust Virtual Networking Event

DATA SHARING PRACTICE EXAMPLES

- WHAT IS DATA SHARING?
- TECHNICAL ASPECTS
- LEGAL ASPECTS
- API TRAINING MODULE
- WIDGETS AND TOOLS
- SECURE DATA SHARING
- DATA SHARING FAQ
- RECOMMENDED CONTRACT TERMS

...this page or discussing together with other practitioners in the **user forum**.

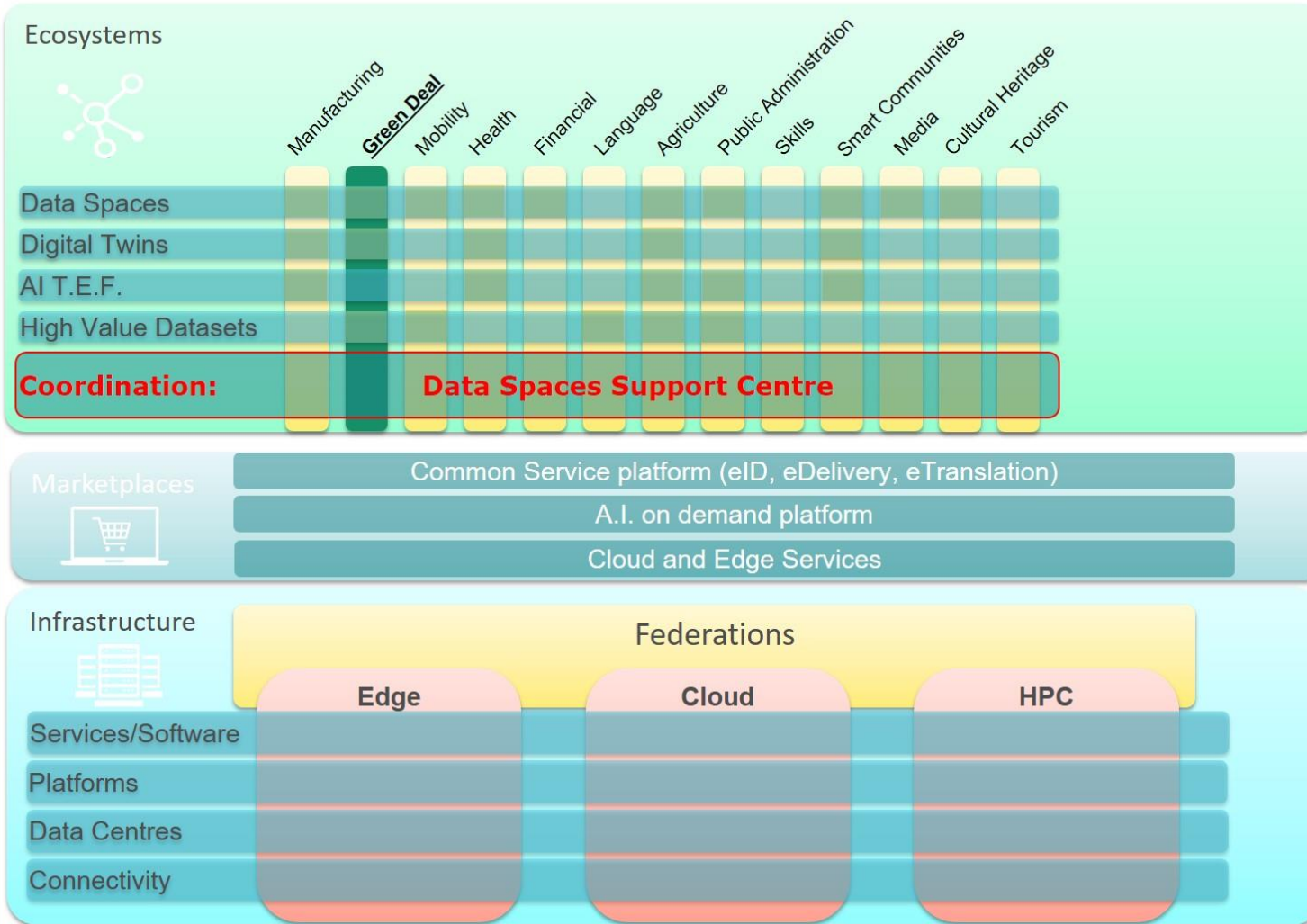
TWEETS BY @EU_DATASHARING

EU Support Centre For Data Sharing @EU_DataSharing Popular #datasharing use cases

European Commission

The Digital Europe programme – WP 2021-2022

Skills & Digital Innovation Hubs
Standards, Interoperability & Portability
End-to-end cybersecurity, Trust, authentication, identification



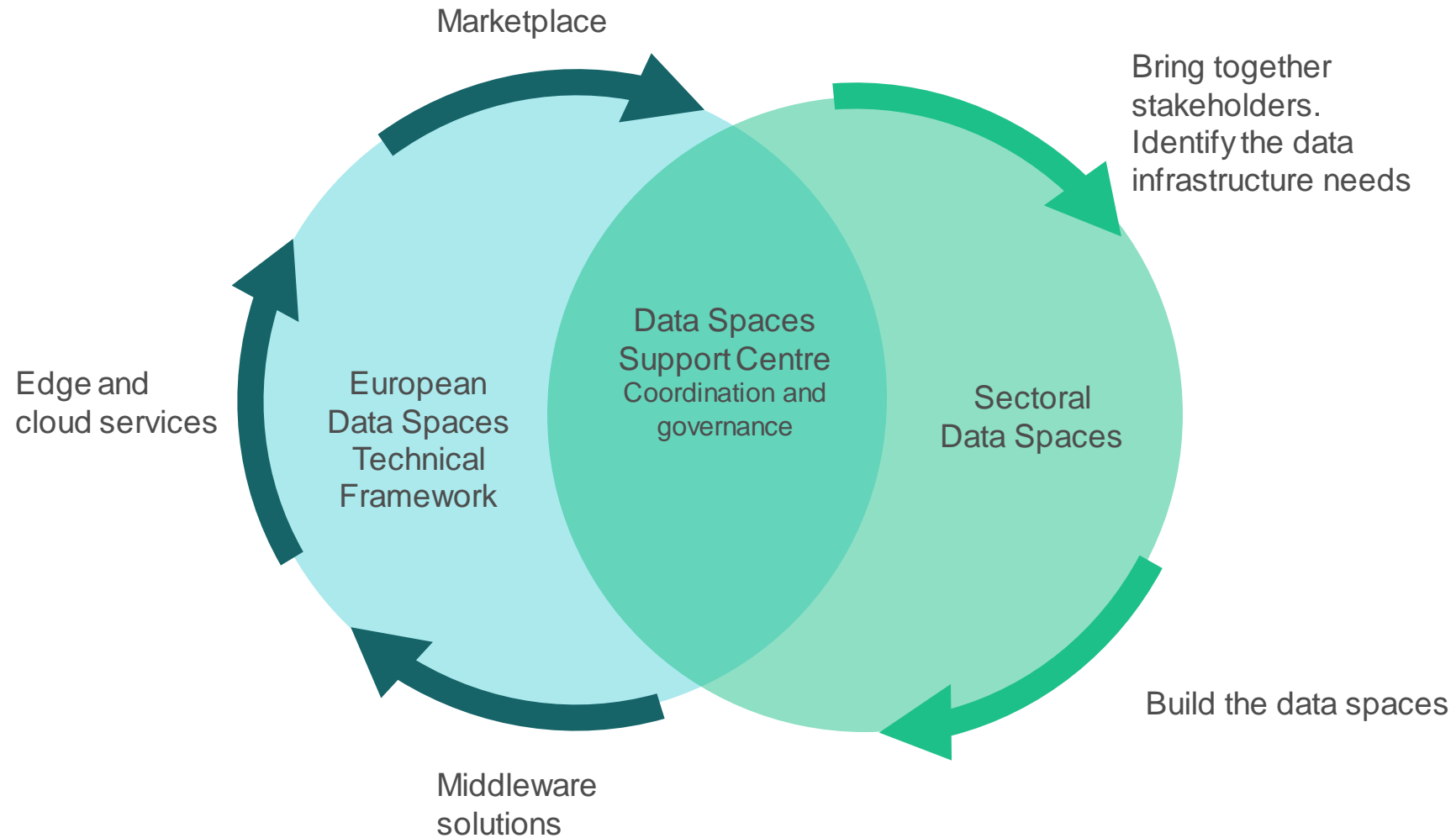
Data Spaces should be built over federated data infrastructure with common technical requirements to **assure interoperability and use common standards.**

Services and middleware developed to enable a federation of cloud-to-edge capacities that will be at the disposal of all data spaces

Key characteristics of a *data space*

- A secure and privacy-preserving IT infrastructure to pool, access, process, use and share data.
- A data governance mechanism, comprising a set of rules of legislative, administrative and contractual nature that determine the rights to access, process, use and share data in a trustful and transparent manner.
- Data holders are in control of who can have access to their data, for which purpose and under which conditions it can be used.
- Presence of vast amounts of data that are made available on a voluntary basis and can be reused against remuneration or for free, depending on the data holder's decision.
- Participation by an open number of organisations/individuals.

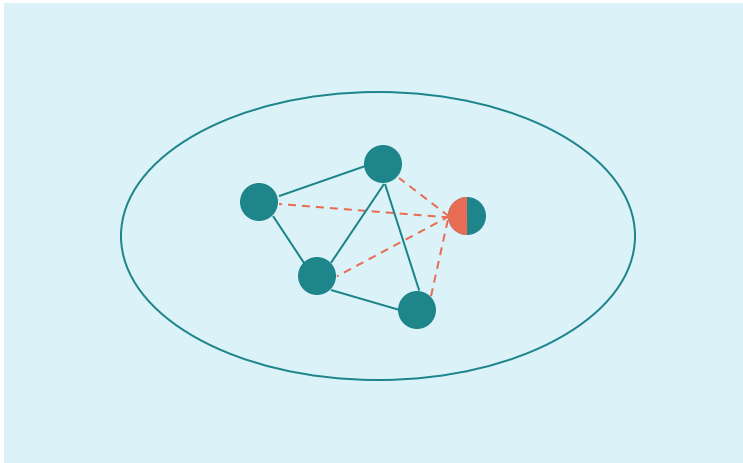
Data Spaces and Infrastructure in DEP



Evolution of data spaces

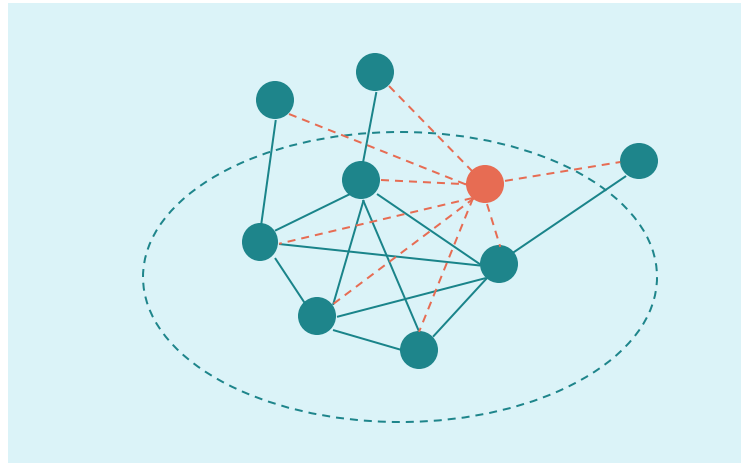
I

Closed ecosystem



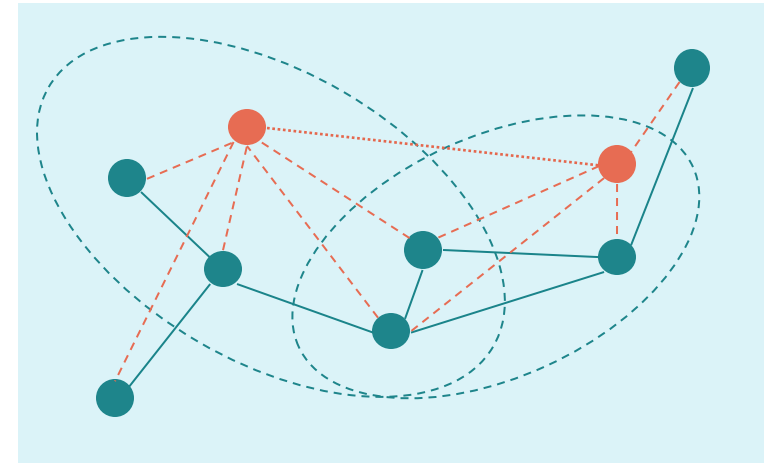
II

Open ecosystem



III

Federation of ecosystems



Legend:

Roles: ● Participant (Data Provider | Data User); ● Data intermediary.

Data Exchanges: — Payload data incl. metadata between participants; - - - Metadata between participant and federator; ····· Metadata between federators.

Ecosystems: ○ Closed; ○ Open.



European Council 25 March 2021



- c) call for better exploiting the potential of data and digital technologies for the benefit of society, the environment and the economy, while upholding relevant data protection, privacy and other fundamental rights and ensuring the retention of data necessary for law enforcement and judicial authorities to exercise their lawful powers to combat serious crime; we recognise the need to accelerate the creation of common data spaces, including ensuring the access to and interoperability of data; we look forward to the Commission's proposal for a regulatory framework for Artificial Intelligence, and the accompanying review of the coordinated plan, to accelerate the uptake of this technology while ensuring safety and full respect of fundamental rights; we invite the Commission to swiftly present the progress made and the remaining measures necessary to establish the sectoral data spaces announced in the European strategy for data of February 2020;

Calendar

1. Data Act:

- Commission proposal adoption: Q4/2021

2. Data Governance Act

- Regulation adoption: Q4/2021/early 2022

3. Funding programmes 2021-2027

- DIGITAL Europe (WP 2021-2022 + Call 1: Nov 2021)
- RRF
- Horizon Europe (first calls already open)
- CEF2 Digital



**Thank you very much
for your attention**

For further questions:

email: CNECT-G1@ec.europa.eu
Unit G1 of DG CONNECT

Websites with more information:

<https://ec.europa.eu/digital-single-market/en/open-data>

<https://eur-lex.europa.eu/legal-content/EN/LSU/?uri=celex:32019L1024>

https://ec.europa.eu/info/strategy/priorities-2019-2024/europe-fit-digital-age/european-data-strategy_en