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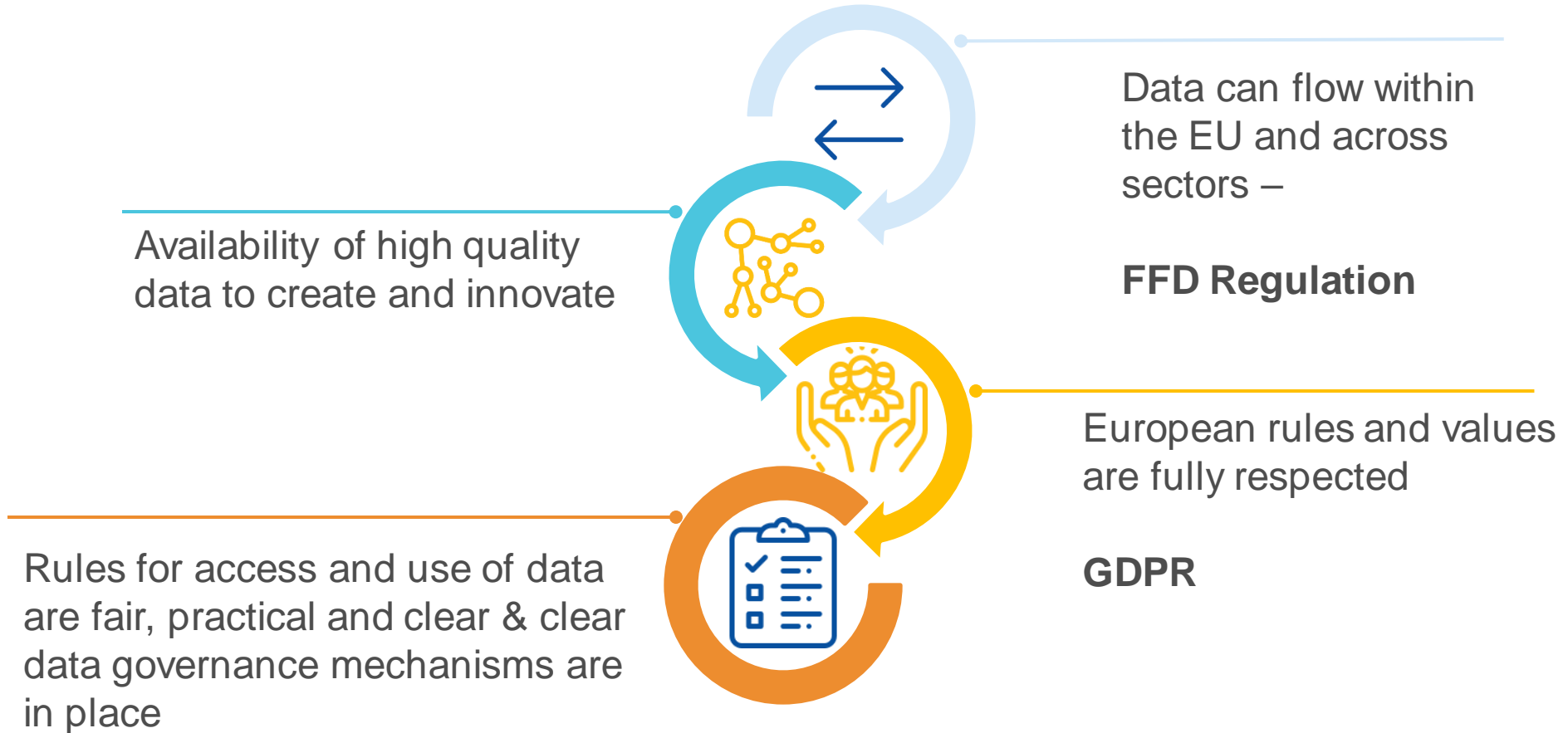
INSPIRE Conference

25 October 2021

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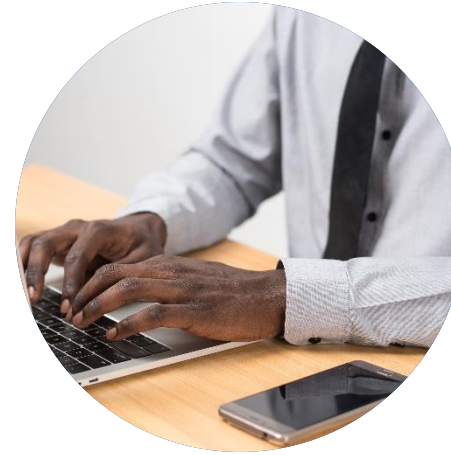European Commission, DG CNECT, unit G1 - Data Policy and Innovation

European Strategy for Data

A common European data space, a single market for data

Data can flow within the EU and across sectors –

FFD Regulation

Availability of high quality data to create and innovate

European rules and values are fully respected

GDPR

Rules for access and use of data are fair, practical and clear & clear data governance mechanisms are in place

Benefitting from the second wave of industrial data

European Commission

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 Commission

European Strategy for Data: 4 key instruments
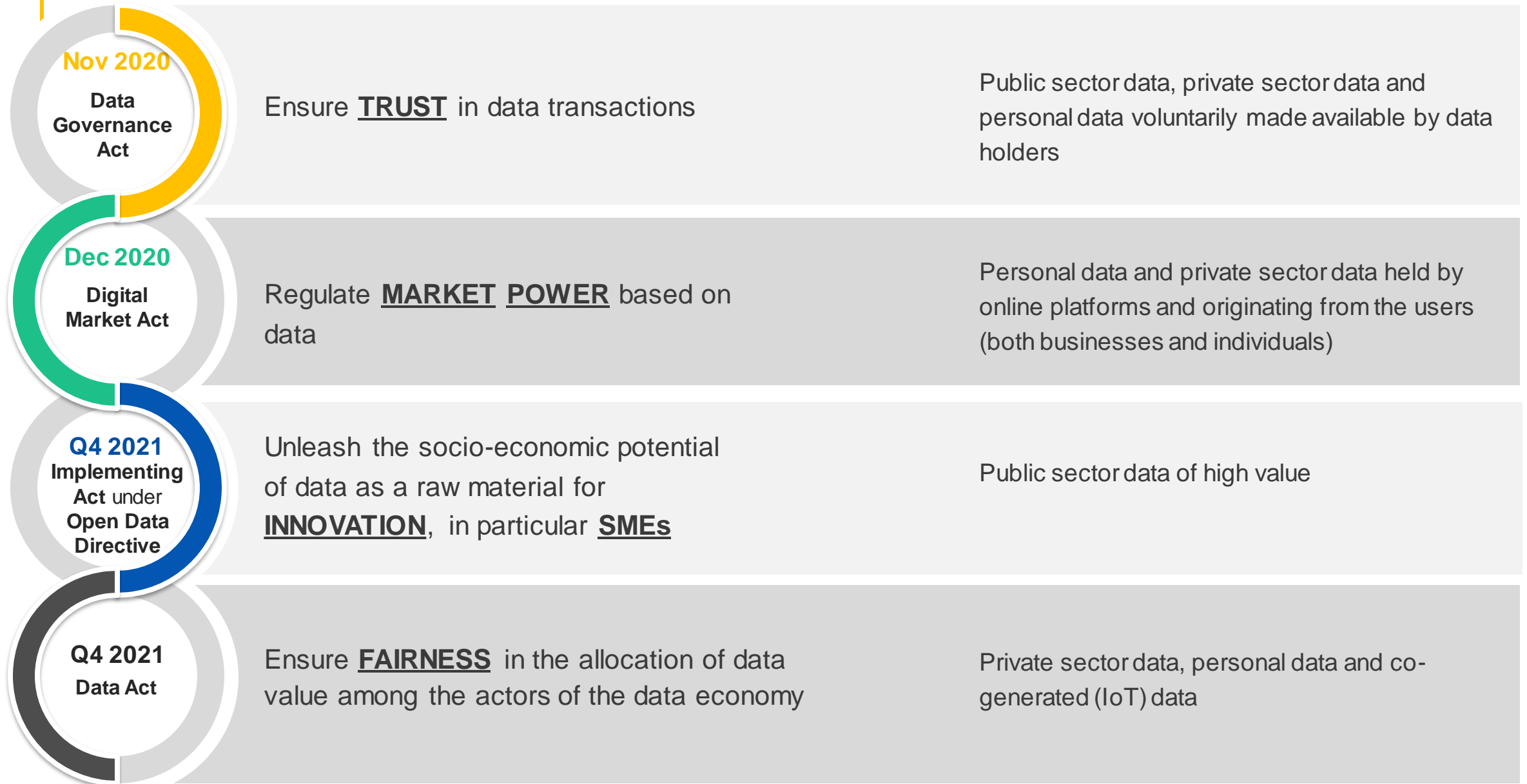
Nov 2020
Data Governance Act

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](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

European Commission

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

Support Centre for Data Sharing

The Digital Europe programme – WP 2021-2022

Ecosystems

Manufacturing, Green Deal, Mobility, Health, Financial, Language, Agriculture, Public Administration, Skills, Smart Communities, Media, Cultural Heritage, Tourism

Data Spaces
Digital Twins
AI T.E.F.
High Value Datasets

Coordination: **Data Spaces Support Centre**

Marketplaces
Common Service platform (eID, eDelivery, eTranslation)
A.I. on demand platform
Cloud and Edge Services

Infrastructure
Federations
Edge | Cloud | HPC
Services/Software
Platforms
Data Centres
Connectivity

Skills & Digital Innovation Hubs
Standards, Interoperability & Portability
End-to-end cybersecurity, Trust, authentication, identification
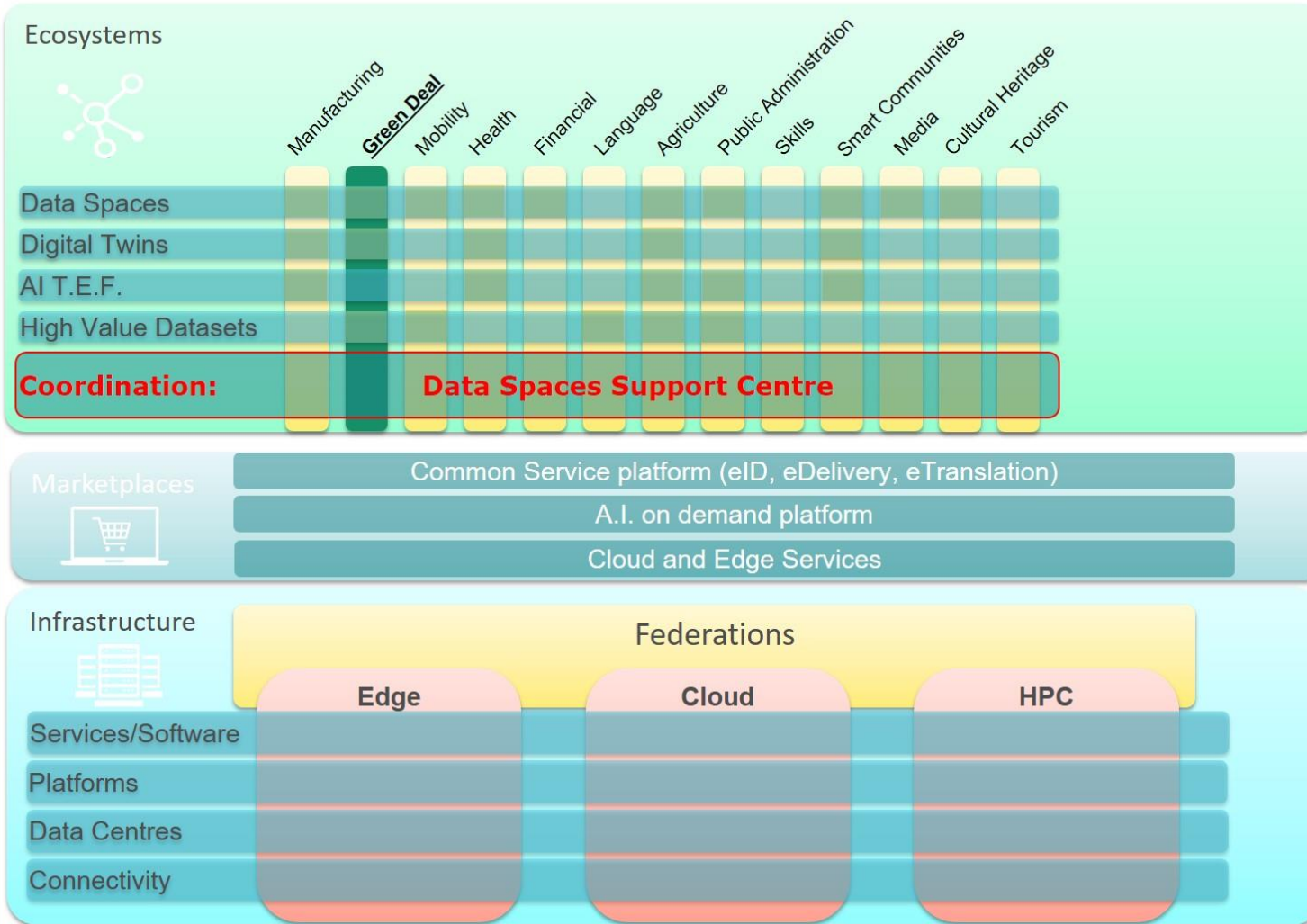
Data Spaces should be built over federated data infrastructure with common technical requirements to **assure interoperability and use common standards**.

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

European Commission

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
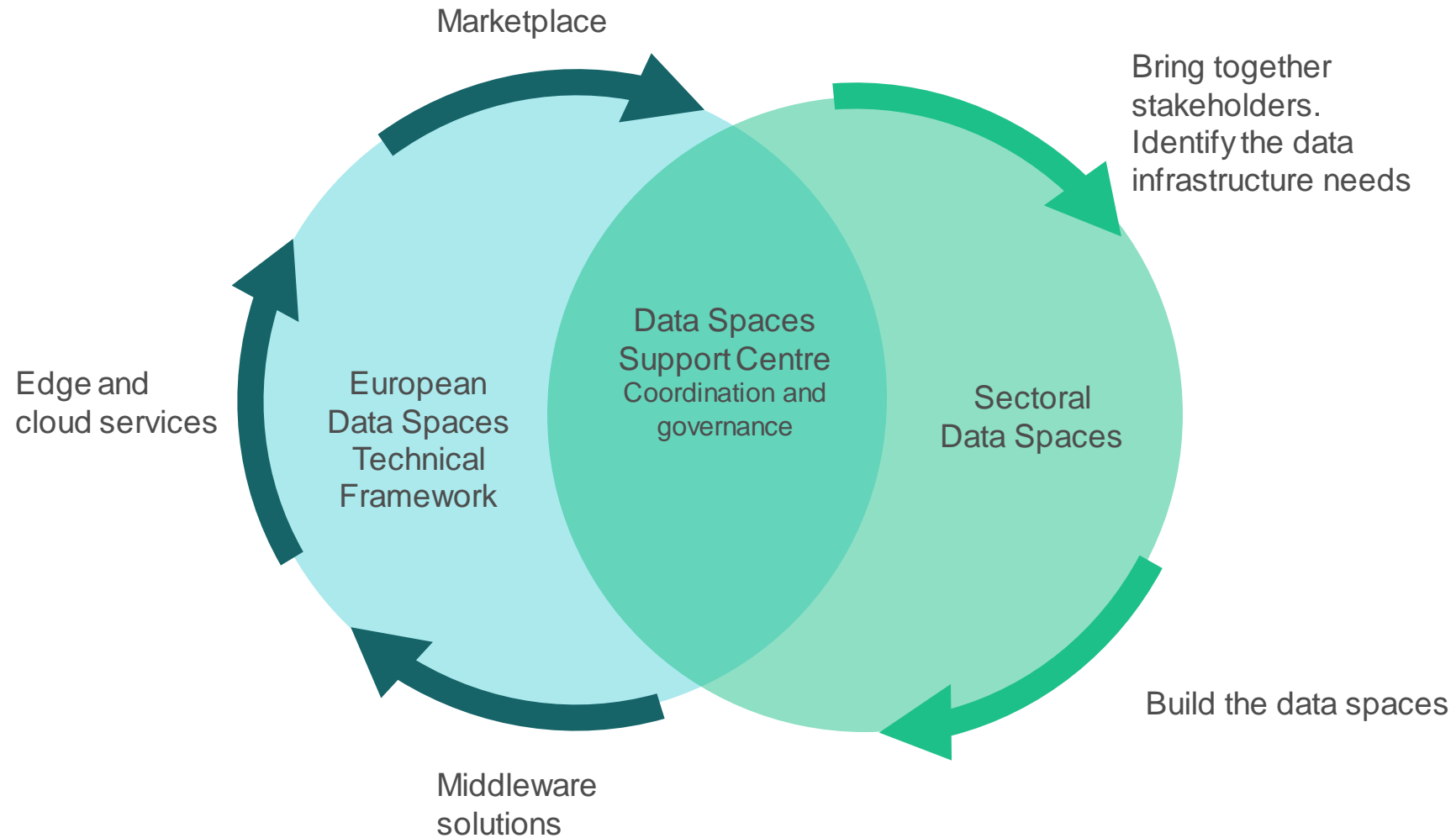
Evolution of data spaces
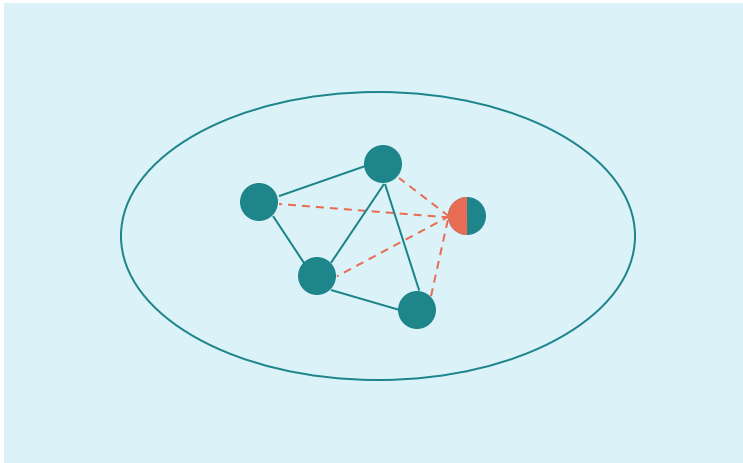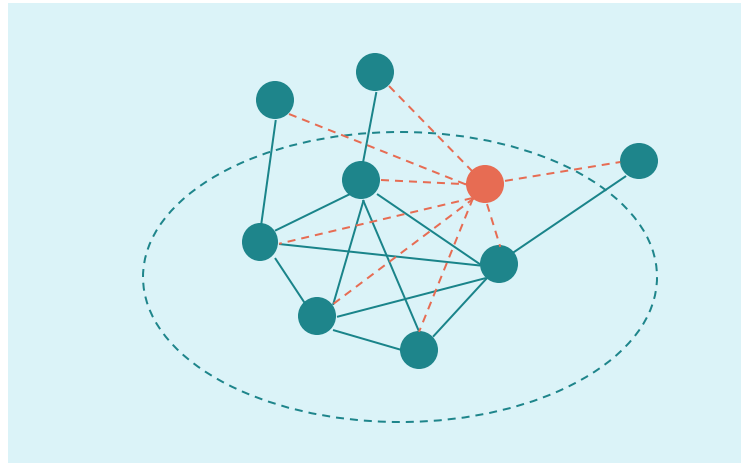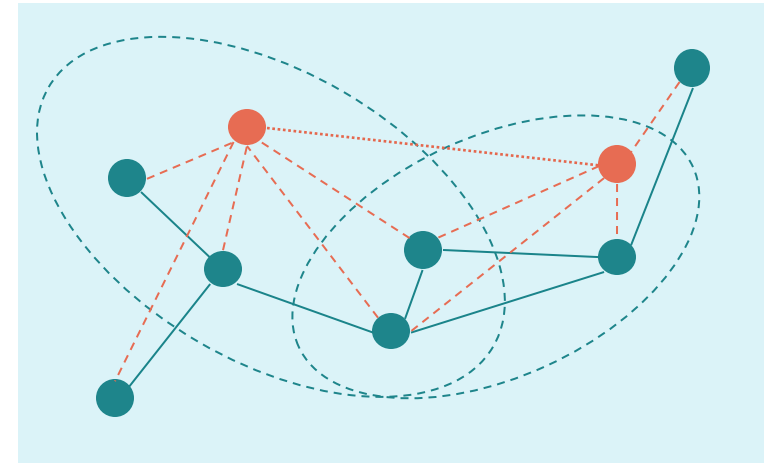

I Closed ecosystem	II Open ecosystem	III Federation of ecosystems

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.

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