



Local Data Spaces

CxC Festival '22

Andrea Halmos, DG CONNECT, Unit C3 Technologies for smart communities



11 January 2022

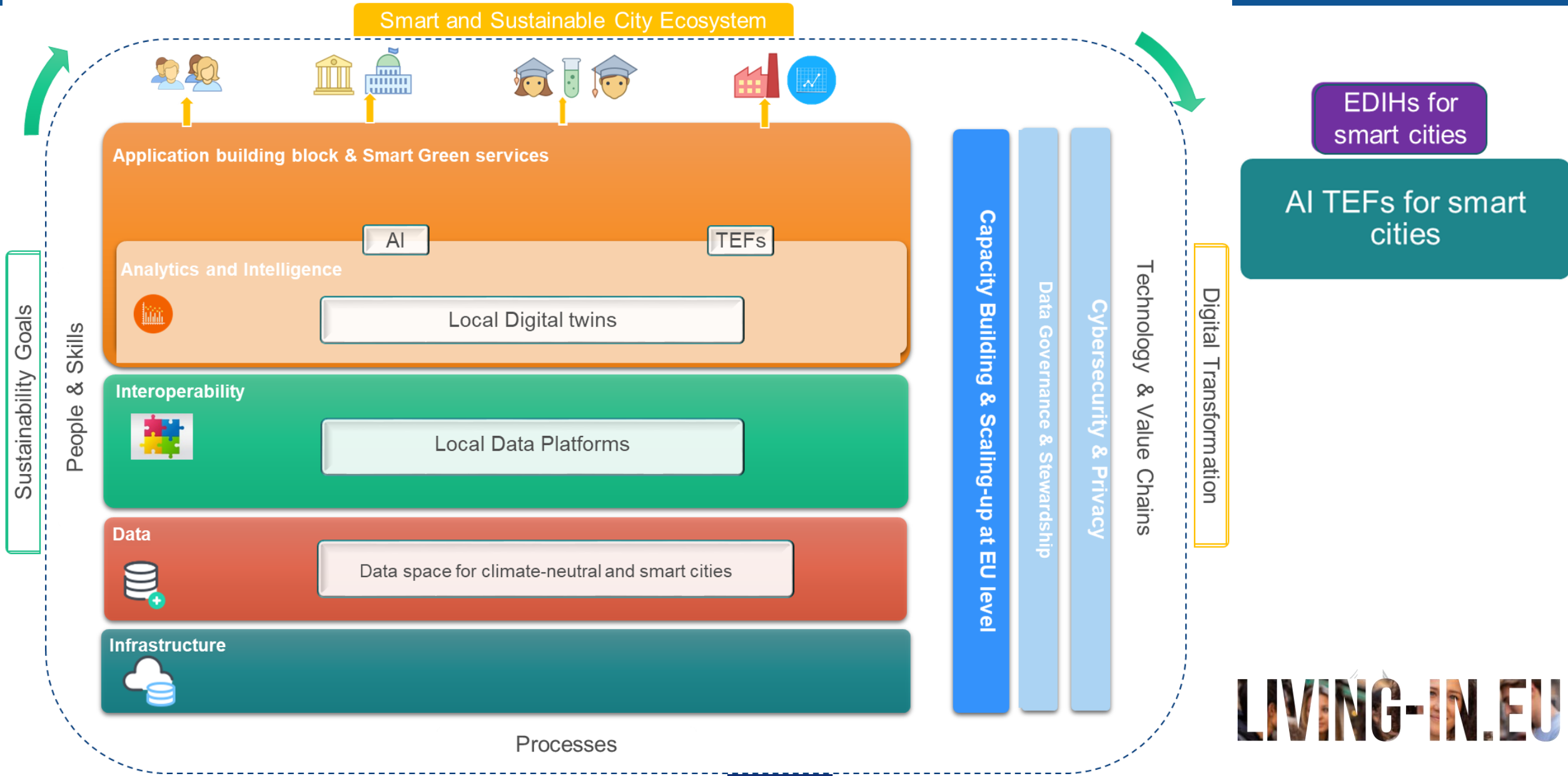
- EU Green Deal & Europe Fit for the Digital Age: *'Twin green and digital transitions'* ; need to tackle the twin challenge in a holistic and systemic way
- Smart cities and communities use digital technologies to reduce resource input and improve the quality of life for their citizens (- > *'twin digital and green' transition*)
- European Digital Strategy:
 - Shaping Europe's Digital Strategy
 - Excellence and Trust in Artificial Intelligence
 - European Data Strategy
- **2030 Digital Compass: the European way for the Digital Decade**
- EU Zero Pollution Action Plan, EU Climate Adaptation Strategy, Digital Day 2021 - Declaration on 'A Green and Digital Transformation of the EU', EU Mission: Climate-neutral and Smart Cities

A Europe fit for the digital age

Empowering people with a new generation of technologies

**Smart cities and communities - >
'twin digital and green' transition**

Digital capacity building for cities and communities





- Difficult to access public, but sensitive / not open data (for analytics/AI) – see *Data Governance Act*
- Open data paradigm helped to increase transparency, citizen engagement and create innovative services, but the data cities need is often not open data
- European cities recognise citizen data as a public asset, while they need to ensure citizens' digital rights (personal data management)
- Data held by platform economy companies is of high interest (dynamic, good quality), but difficulty to access and reuse of private data with public interest (B2G); current operational models do not scale up – see *Data Act*
- Data under-utilised: only 7% of government departments' data has been open for public access in the majority of countries worldwide and today only 12% of city data is analysed and used for decision making and management*
- Governance, organisational, legal and cultural challenges
- Difficult to create portable, innovative cross-domain services

Data donorship

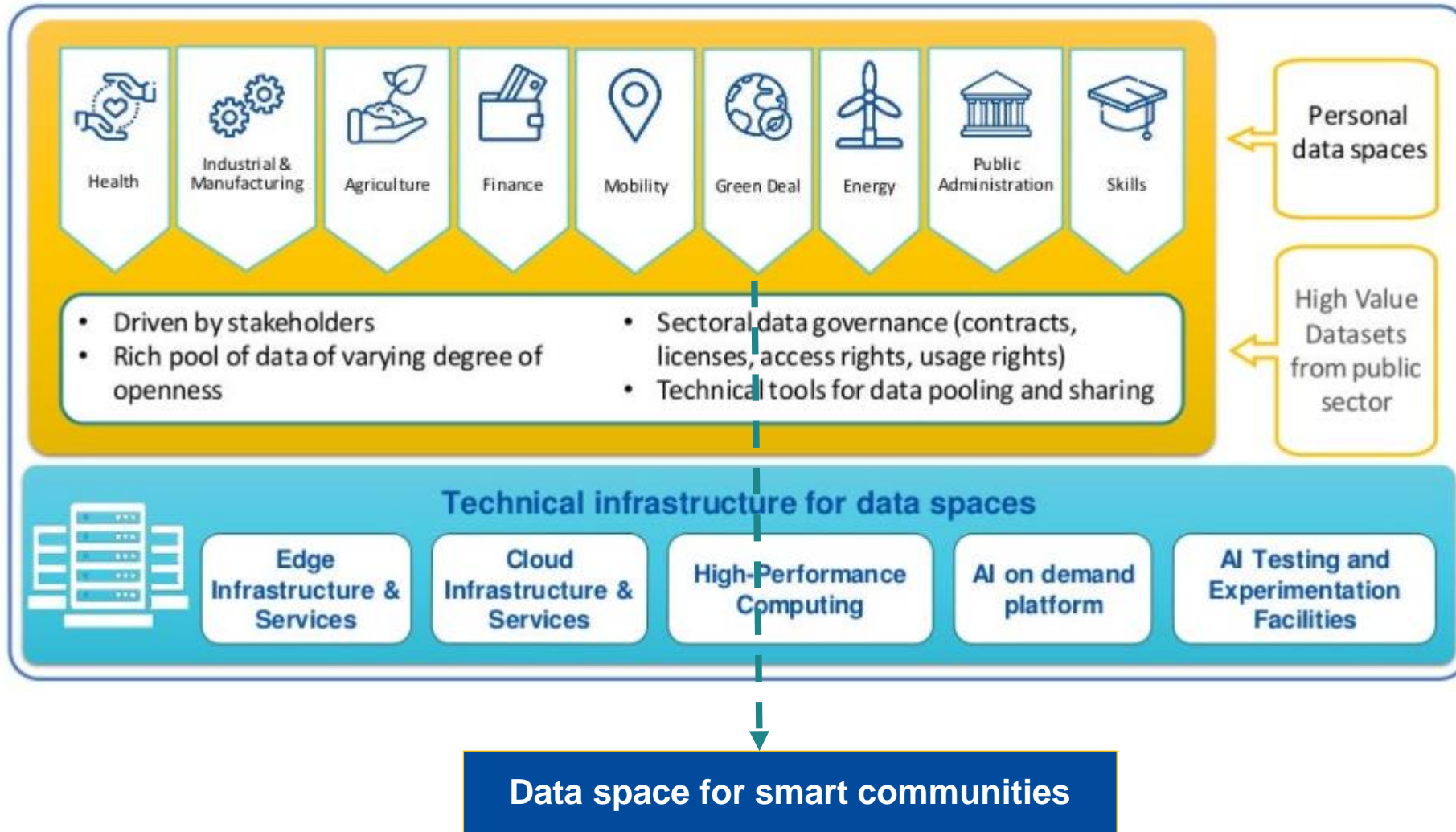


Data sharing pools

Public procurement



Tender clauses



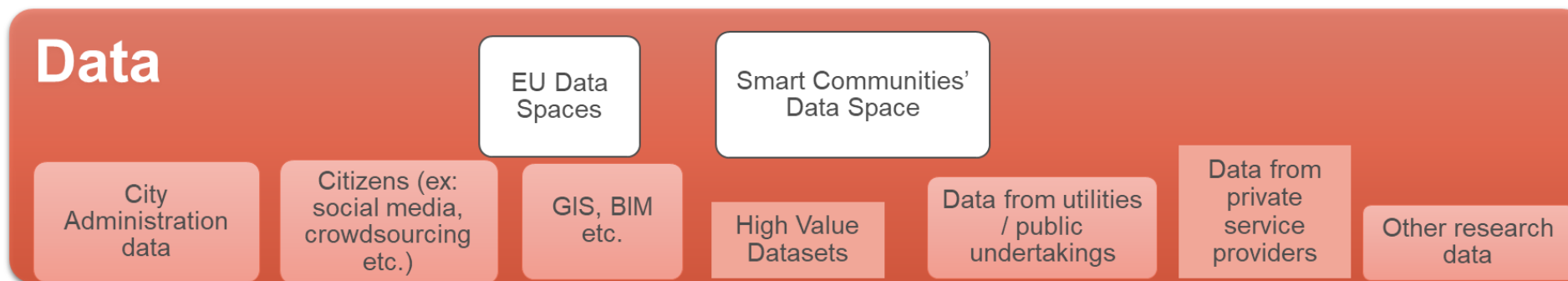
Rollout of common European data spaces

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

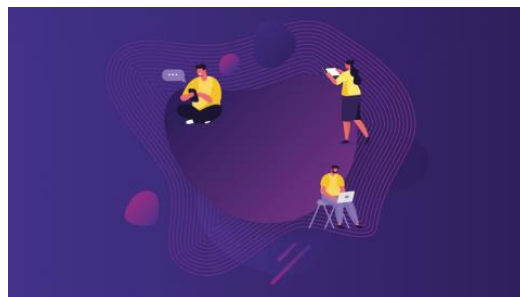
Data space: interoperable and secure environment, where currently fragmented and dispersed data can be shared among those, who become part of this data space based upon voluntary agreements and under certain conditions



- Data **governance** (principles, rights, functions, roles and responsibilities to facilitate secure exchange of quality data, etc.)
- Conceptual **architecture, interoperability**, re-usable tools, data models and standards (EIF4SCC, MIMs, middleware, CEF/EC building blocks, etc.)
- **Priority datasets** (use-case driven) linked to environment and climate-related challenges to help meet the objectives of the European Green Deal



Bringing together existing local data ecosystems to identify common principles for sharing large pools of data at the EU level



EU funding DIGITAL Programme

Data



Data space for climate-neutral and smart cities

Preparatory actions for Data Space for Smart Communities

- (i) developing a multi-stakeholder data governance scheme
- (ii) developing a 'blueprint' for the data space for smart communities
- (iii) bringing an agreed set of priority datasets into conformity with the new blueprint standards and principles and propose a strategy for their take-up
- (iv) developing a roadmap towards a full-fledged pan-EU smart communities' data space.

Data space for smart communities (deployment)

Validation of the blueprint on at least two of the European Green Deal action areas

Numerous workshops and events

- [Expert Consultation](#)
- [Data-driven cities : fostering common data spaces for urban sustainability](#)
- [B2G data sharing in cities](#)
- [Info Day](#)

Thank you!