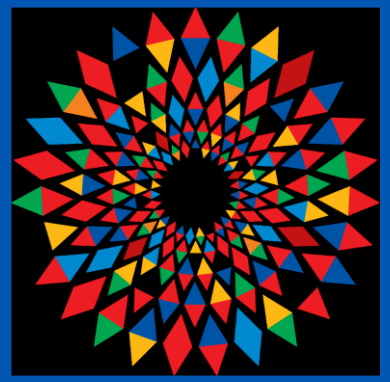


A Europe fit for the digital age

Empowering people with a new generation of technologies

Digital Transformation at regional and local level

Martin Májek
Unit “Technologies for Smart Communities”
DG CONNECT, European Commission

20 April 2023

EU Policies Context

- **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*)
- EU Recovery Plan:
  - At least 20% of the funds under the Recovery and Resilience Facility will be made available for the digital transition (and 30% for green)

Digital Decade fit for communities

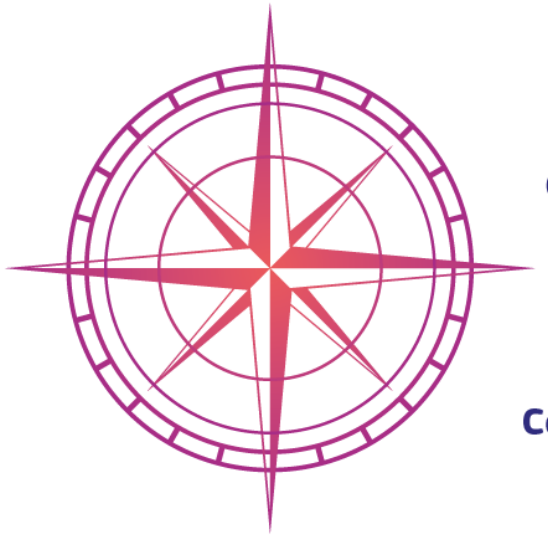
2030 DIGITAL COMPASS

THE EUROPEAN WAY FOR THE DIGITAL DECADE

European Commission

Skills

ICT Specialists: 20 million + Gender convergence
Basic Digital Skills: min 80% of population



Public Services

Key Public Services: 100% online
e-Health: 100% availability medical records
Digital Identity: 80% citizens using digital ID

Infrastructures

Connectivity: Gigabit for everyone, 5G everywhere
Cutting edge Semiconductors: double EU share in global production
Data – Edge & Cloud: 10,000 climate neutral highly secure edge nodes
Computing: first computer with quantum acceleration

Business

Tech up-take: 75% of EU companies using Cloud/AI/Big Data
Innovators: grow scale ups & finance to double EU Unicorns
Late adopters: more than 90% of European SMEs reach at least a basic level of digital intensity

European Commission

European Commission

DIGITAL SKILLS

Adults with basic digital skills

NOW 56%

TARGET 80%

Employed ICT specialists

NOW 8.4 million

TARGET 20 million

DIGITAL INFRASTRUCTURES

Gigabit network coverage

NOW 59%

TARGET 100% of households

5G coverage

NOW 14%

TARGET 100% of populated areas

The EU production of semiconductors, including processors, makes up

NOW 10%

TARGET ≥ 20% of world production in value

There are **10,000 edge nodes** in the EU for **better, secure and sustainable data processing.**

By 2025, the first **EU computer with quantum acceleration** is paving the way for cutting-edge quantum capabilities.

DIGITAL TRANSFORMATION OF BUSINESSES

BUSINESSES USING

Cloud computing services

NOW 26%

TARGET 75%

Big data

NOW 14%

TARGET 75%

Artificial Intelligence

NOW 25%

TARGET 75%

SMEs with at least a basic level of digital intensity

NOW 60%

TARGET > 90%

There are

NOW 122

TARGET **Double** the number of unicorn startups in Europe

DIGITALISATION OF PUBLIC SERVICES

Online access to key public services (related to career, studying, family, regular business operations, moving)

NOW 75/100 services for citizens

84/100 services for businesses

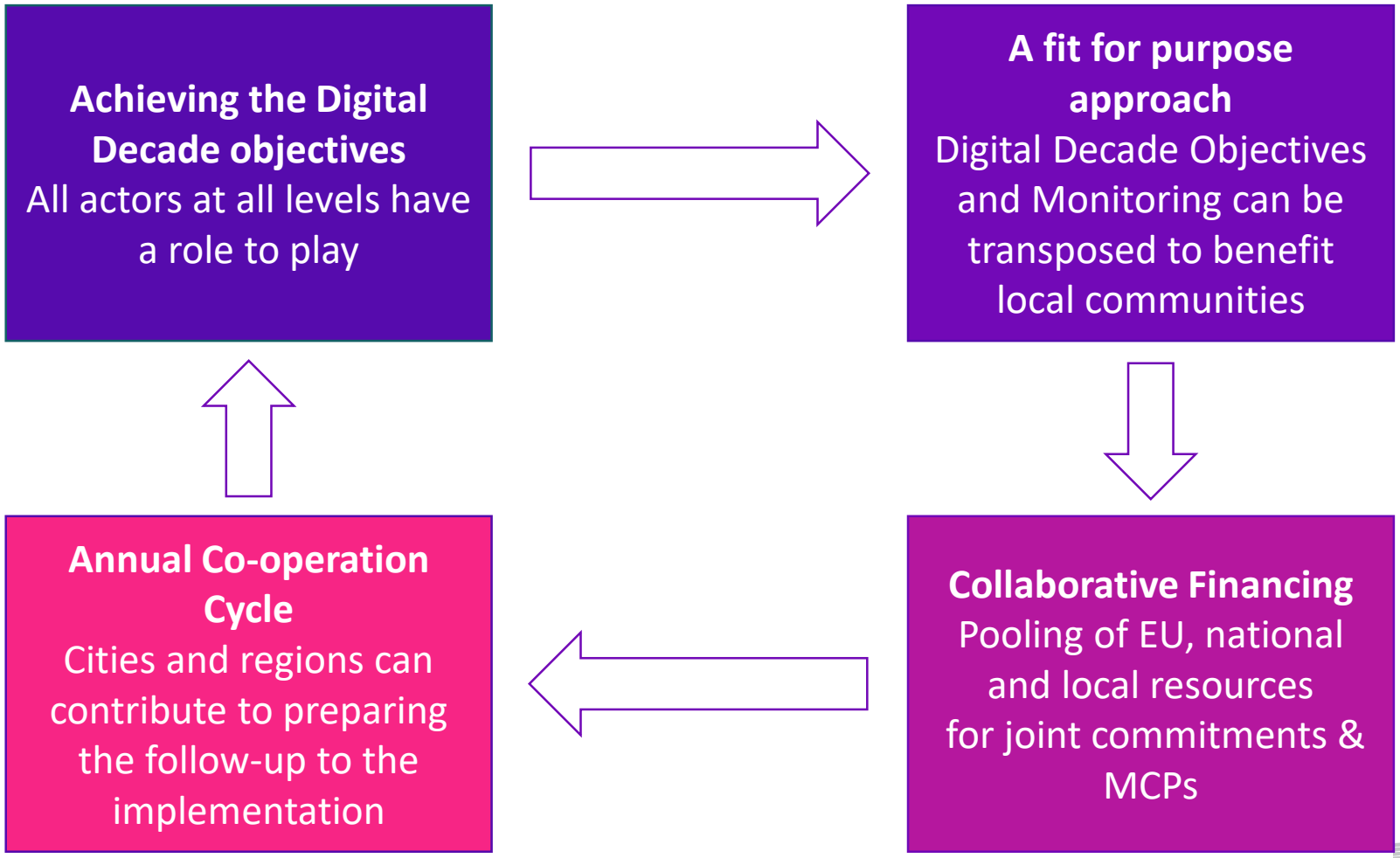
TARGET **All** services for citizens and businesses

TARGET 100% of Europeans with access to digital health records &

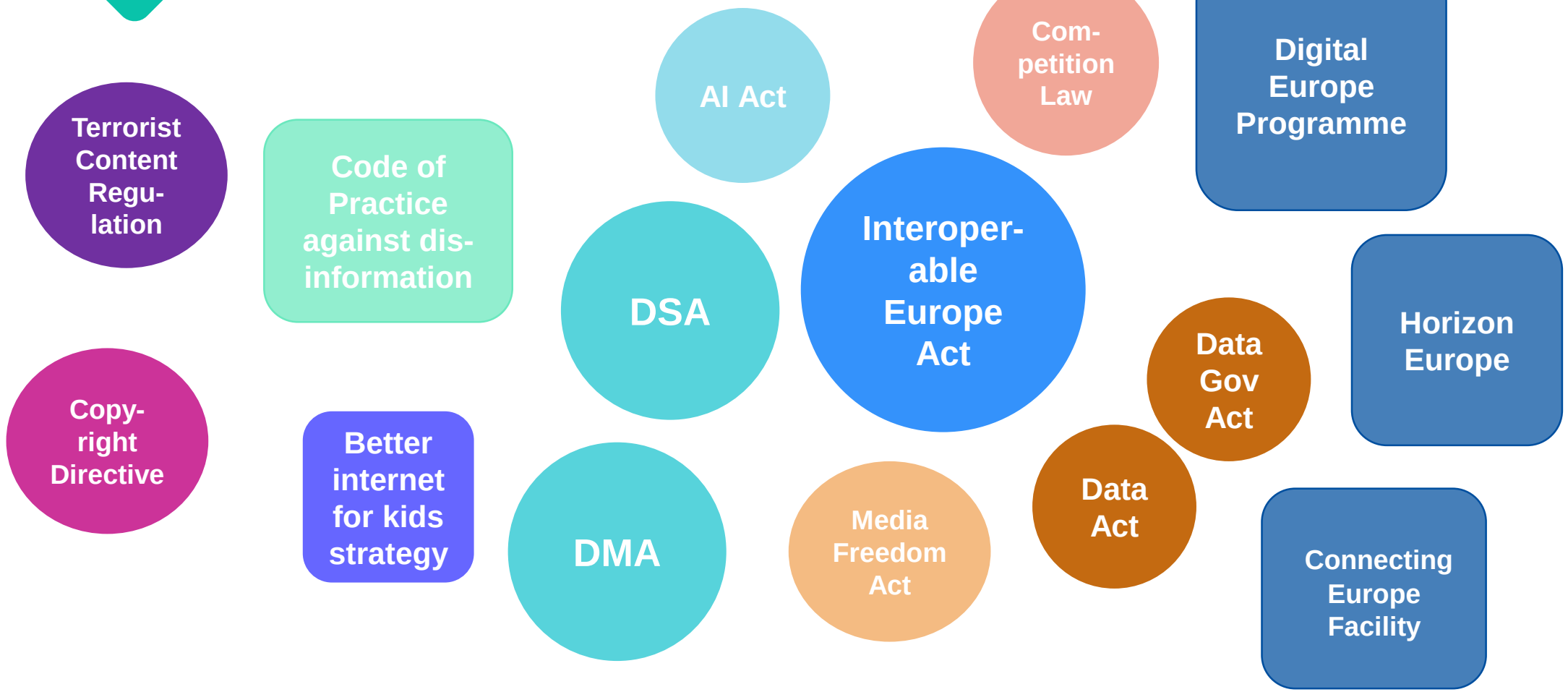
80% using a digital id

European Commission

What is the role and interest for cities and regions into the Digital decade?

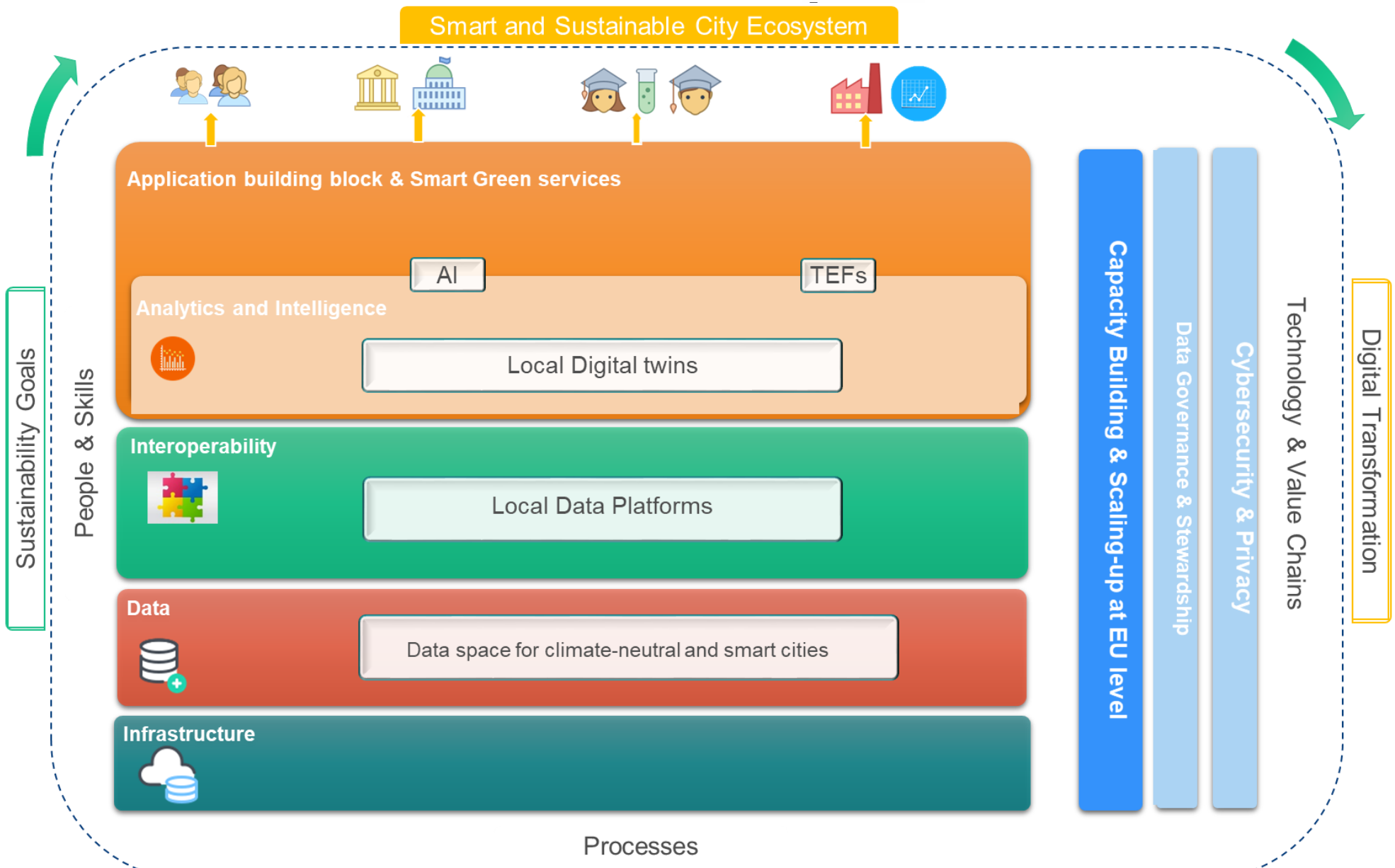


Wider regulatory landscape



European Commission

SCC ecosystem overview



European Commission

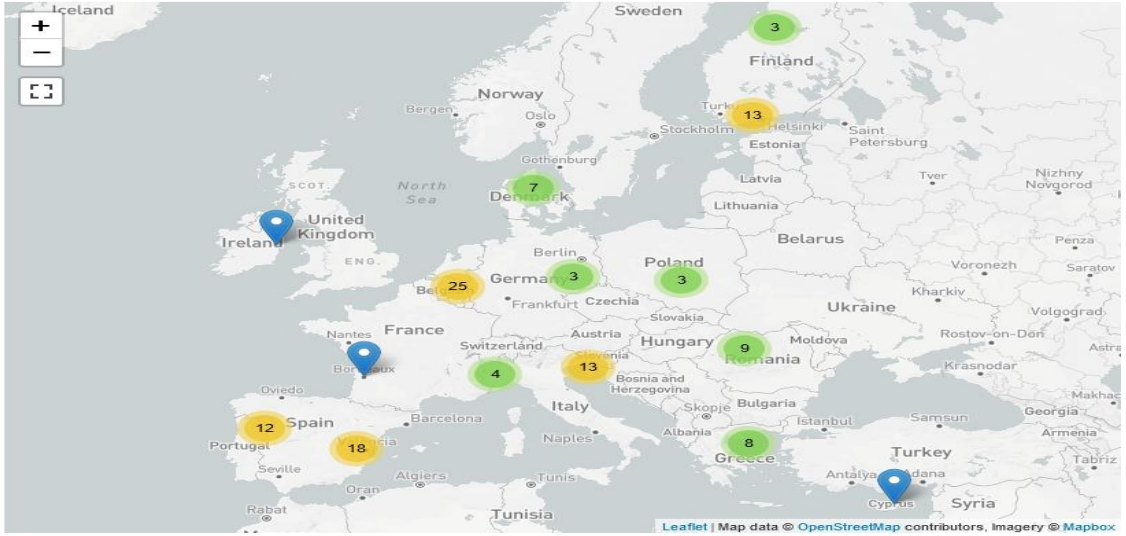
Living-in.EU Movement

European Commission

LIVING-IN.EU

The European way of digital transformation in cities and communities

Over 131 signatures so far…
From Mayors, Regional and National Ministers
+ over 134 supporters
Covering over 41 Mo of EU citizens



DOWNLOAD THE DECLARATION

https://www.living-in.eu/

SUPPORT THE DECLARATION

SIGN THE DECLARATION

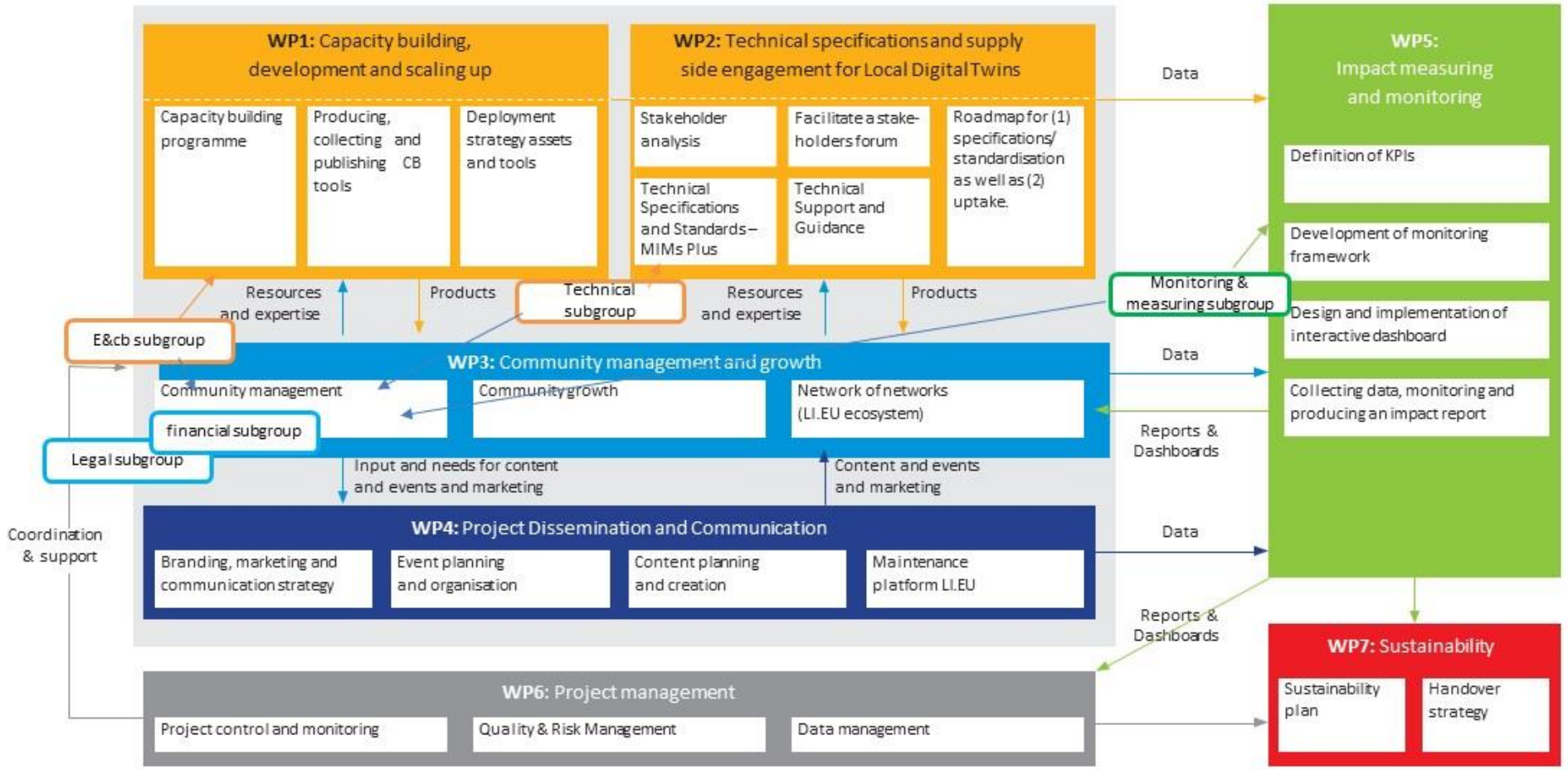
JOIN, BOOST, SUSTAIN

European Commission

Living-in.EU Governance

European Commission

Go Li.EU



European Commission

The Partners

European Commission

EUROCITIES

European Network of Living Labs

OPEN & AGILE SMART CITIES

ERRIN European Regions Research and Innovation Network

CCRE CEMR

The Declaration

LIVING-IN.EU

The EU vision and mission

Create **cohesive**, **digital Europe** where every **city** and **community** can enjoy the economic and social **benefits** of a **green and digital transformation**.

Support and **accelerate** the European way of digital and green transformation **by engaging cities and communities at the European level** to **develop**, **(re-)use** and **share** trustworthy **solutions, technology and standards**.

Driven by shared principles and values

Principles:

- Citizen-centric design
- A city-led approach at EU level
- Technologies as key enablers
- Socially responsible access, use, sharing and management of data
- City as an open, living space
- Interoperable urban platforms with open standards, open/public APIs and shared data models

Multi-level governance

- European Commission & Committee of the Regions, EUROCITIES, OASC (Open & Agile Smart Cities), ENoLL (European Network of Living Labs), Digital Transition Partnership and cities
- Steering Board, Signatories and Supporters meetings

- **Commitments:**
  - Financial
  - Technical
  - Legal
  - Education & Capacity building
  - Monitoring and measuring

What is in it for the local level?

Unique access to information, funding and tools

Repository of aggregated knowledge, policy guidelines and technical instruments, training programmes and monitor and measuring tools

Connecting you in the EU ecosystem

Effective collaborations with EU institutions, MS as well as with all other ecosystem players

Practical Guidance

We support you in your process

Enhanced visibility and recognition

At EU level vis a vis all ecosystem players

EU funding CEF + DEP

Application building block & Smart Green services

AI

TEFs

Analytics and Intelligence

Local Digital twins

Data

Data space for climate-neutral and smart cities

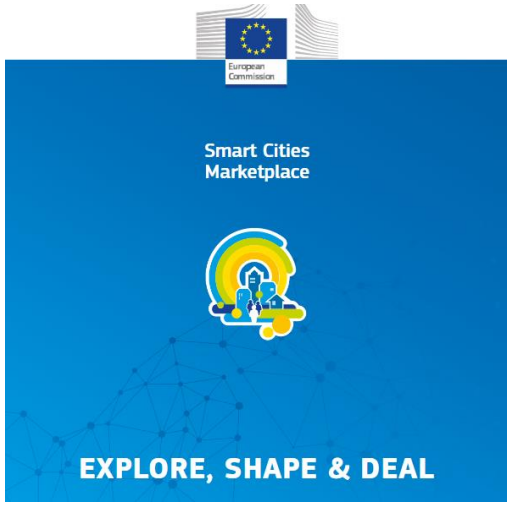
Interoperability

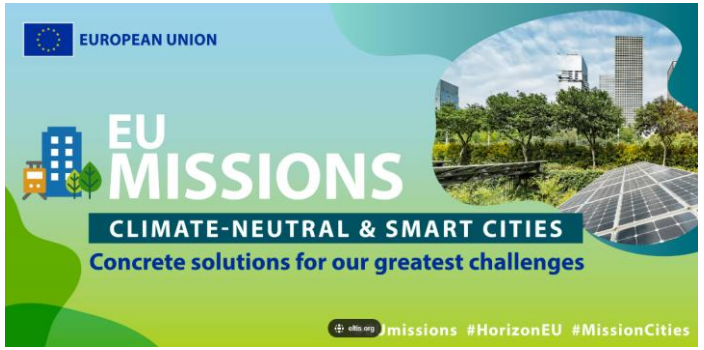
Local Data Platforms

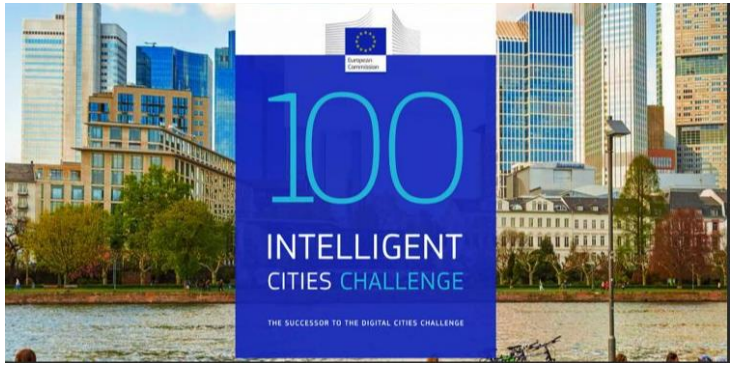
LIVING-IN.EU

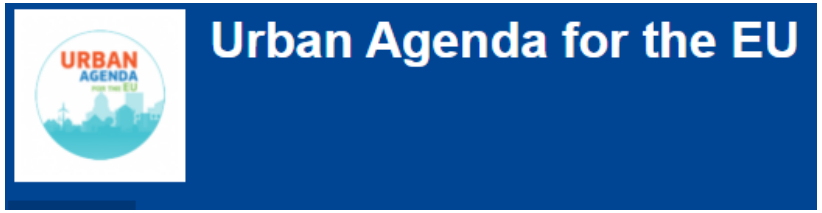
The European way of digital transformation in cities and communities

Other EU initiatives









LIVING-IN.EU

The European way of digital transformation in cities and communities

Results

- Set of Minimum Interoperable Mechanisms (standards, Ethical AI clause, …..)
- Various support projects
- Link with other projects:
  - Local Data Space
  - Local Digital Twin toolbox
  - New European Bauhaus
  - Testing and experimentation facilities (TEF)

What is next?

- Mayors' Digital Assembly (13 June 2023)
- Digital Maturity Assessment tool (LORDIMAS, CoR, ESPON)
- Funding opportunities in Horizon Europe or Digital Europe Programme
- **MCP European Digital Infrastructure Consortium on LDT (CitiVerse)**
- ITU Resolution/UN-Habitat Resolution
- MIM developments

MIMs at glance

Adopted by OASC members:

- **OASC MIM1** – **Context** – Context Information Management
- **OASC MIM2** – **Data Modules** – Shared Data Models
- **OASC MIM3** – **Contracts** – Ecosystem Transaction Management
- **OASC MIM4** – **Trust** – Personal Data Management
- **OASC MIM5** – **Transparency** – Fair Artificial Intelligence
- **OASC MIM7** – **Places** – Geospatial Information Management

Under development:

- **OASC MIM6** – **Security** – Security Management
- **OASC MIM8** – **Indicators** – Ecosystem Indicator Management
- **OASC MIM9** – **Analytics** – Data Analytics Management
- **OASC MIM10** – **Resources** – Resource Impact Assessment

Sign, Support, Like … the Join, Boost, Sustain political declaration

The European way of digital transformation in cities and communities

https://www.living-in.eu/ @living_eu

Thank you for your attention!

martin.majek[at]ec.europa.eu