



Presentation conference Slovenian Presidency

Eddy Hartog 07/07/2021



Living-in.EU and Smart Communities initiatives

Presentation conference Slovenian Presidency

Eddy Hartog – Head of Unit DG CONNECT

ipm GROUP //

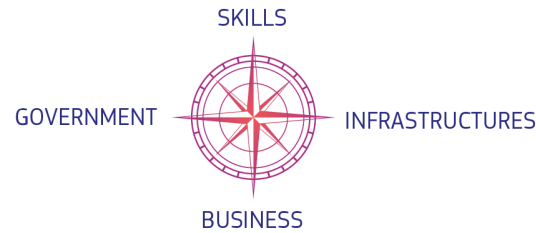
IKT
horizontalna
mreža
.....

gaia-x
Hub Slovenia

Policy context



**THE EUROPEAN
DATA STRATEGY**



Europe's Digital Decade

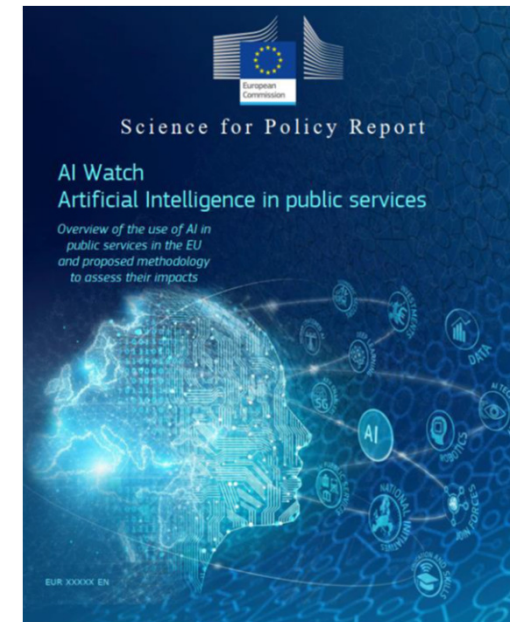
**AI Package
and Coordinated Plan on AI**

**Green Deal
Dataspace**

Creation of a 'Data space for climate-neutral and smart communities'



Source: [Smartcitiesworld.net](https://www.smartcitiesworld.net)





Policy context

- European political priorities : “**Green Deal**” and “Europe fit for the **Digital** age”
- At the same time, much of the impact of events and policies takes place at cities and communities level : Covid-19, environmental challenges, migration ...
- **EU technological and data sovereignty** apply at local level in deploying local data platforms and digital twins, while respecting citizen digital rights. **Interoperability** is a core enabler of Europe’s **digital autonomy**
- The new Leipzig charter and the Berlin declaration give clear indication on the need for Member States, regions and cities **to work on the digital transformation together**



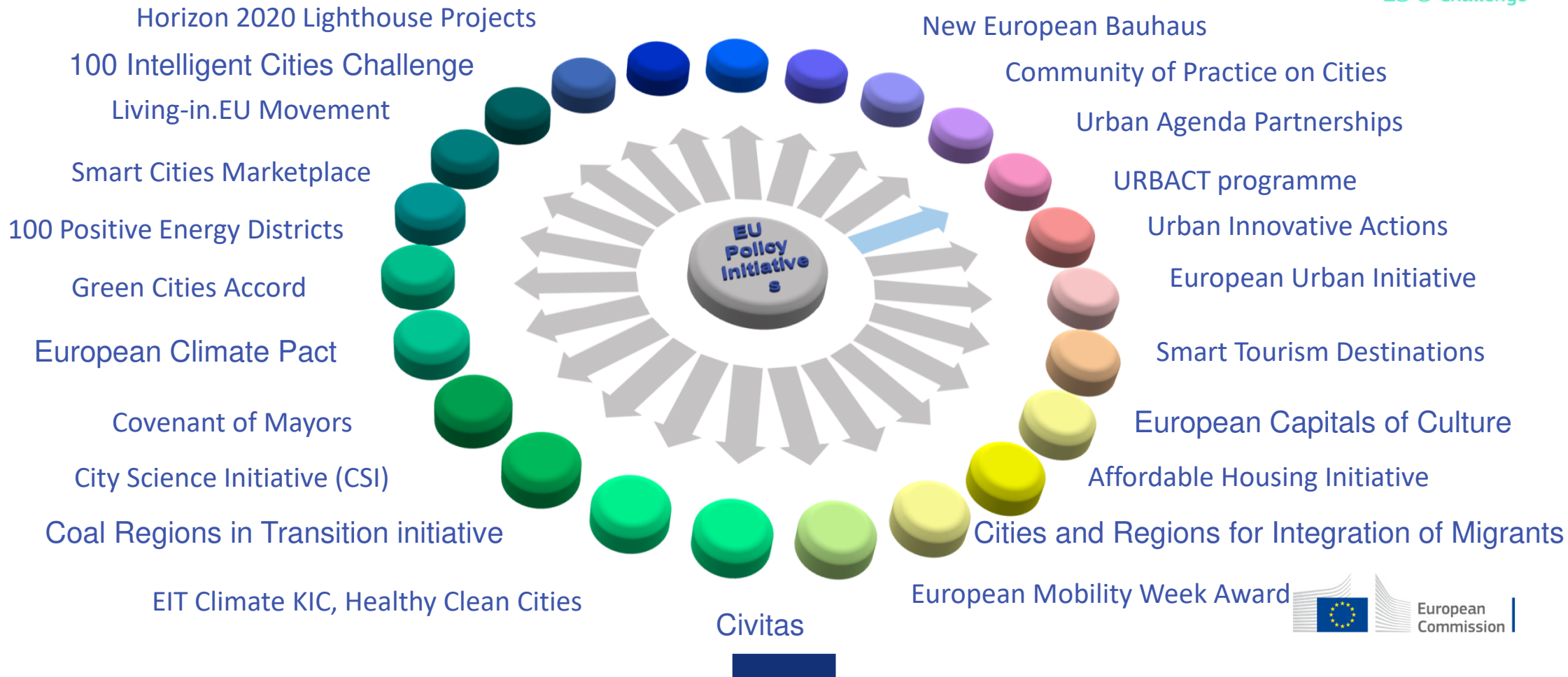
EU support targetting cities

Involving 15 Directorates General



The European Commission's
100 Intelligent Cities
Challenge

100 Climate-neutral Cities by 2030



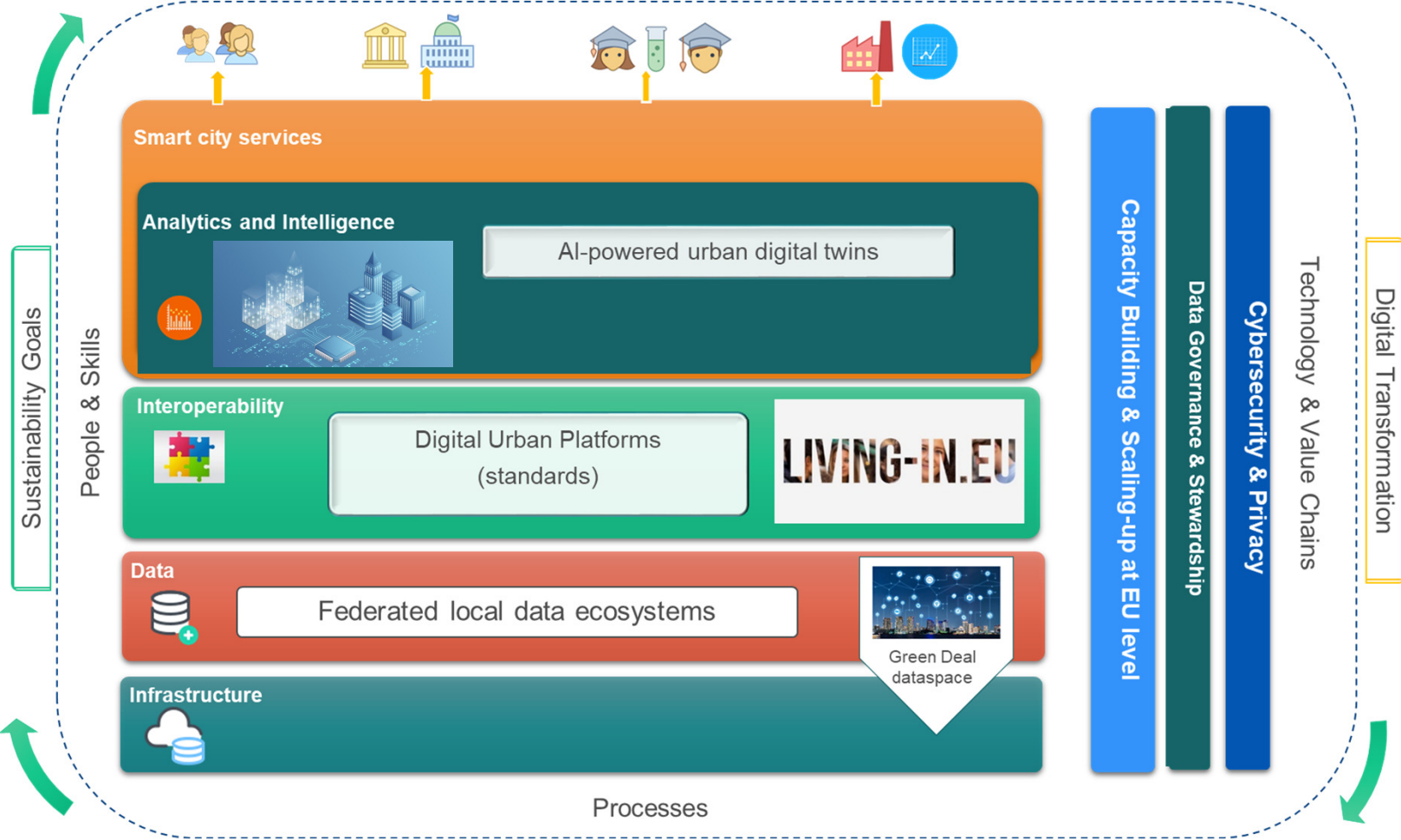


European interoperability

European Interoperability Framework for Smart Cities and Communities – EIF4SCC



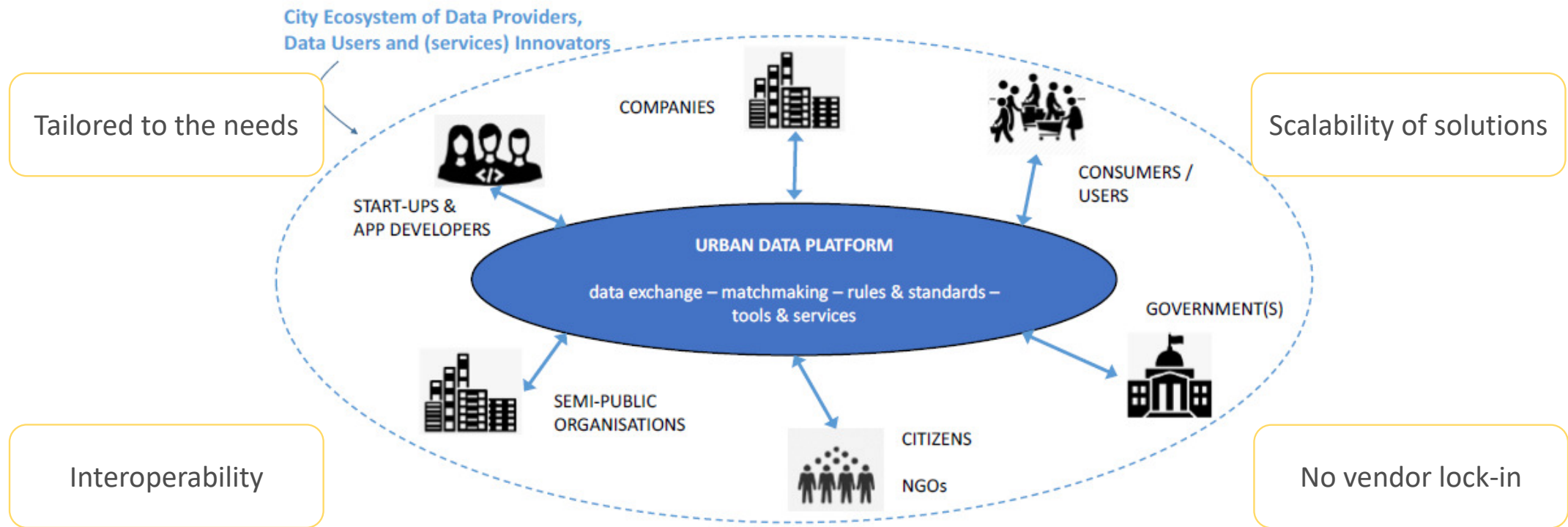
Elements of a smart community



AI EDIHs for smart cities

AI TEFs for smart cities





An **Urban Digital Platform** is the “operating system” on which digital services can be provided to smart cities and communities, integrating data flows within and across city systems by exploiting modern technologies, such as sensors, cloud services, mobile devices, analytics, etc.



Advantages of data-sharing

- Addressing complex challenges in a city context (mobility, energy, pollution, health)
- Better quality of life for citizens
- Greater efficiency in service delivery
- Improved decision-making leading to better investments
- Better understanding of interconnection of issues (e.g. traffic speed, accidents, vehicle type, modal split and air pollution)



Guidance documents



Rethinking the city:
using the power of data
to address urban challenges
and societal change

A guide for city leaders

Ver 2.1a February 2017



bsi.

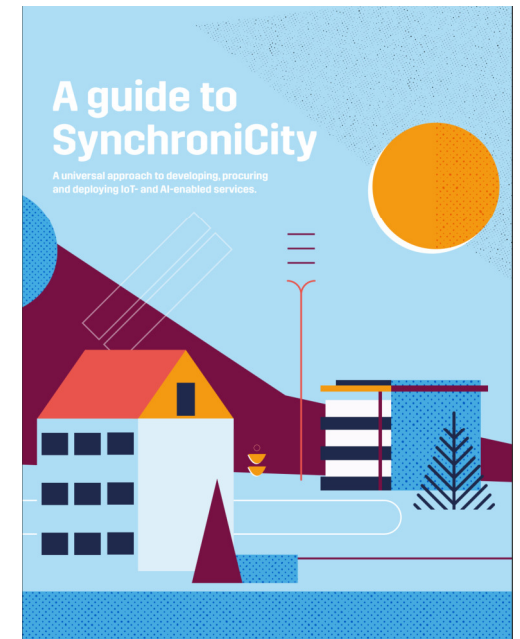
...making excellence a habit™



**EIP-SCC Urban Platform
Management Framework**

Enabling cities to maximize value
from city data

Ver 03 October 2016





LIVING-IN.EU

The European way of digital transformation in cities and communities

The European way of digital transformation in cities and communities

- Political Declaration: over 85 signatories, 60 supporters, 5 subgroups, several concrete iconic projects
- Principles:
 - **Citizen-centric approach**
 - **a city-led approach at EU level**
 - **the city as a citizen-driven and open innovation ecosystem**
 - **ethical and socially responsible access, use, sharing and management of data**
 - **technologies as key enablers**
 - **interoperable digital platforms based on open standards and technical specifications, Application Programming Interfaces (APIs) and shared data models**

e.g. the Minimal Interoperability Mechanisms MIMs Plus, CEF Building Blocks, ISA² solutions



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





- Local Data Platforms
- Local Digital Twins
- Data space for climate neutral and smart communities
- EIF4SCC (European Interoperability Framework for SCC)



As a platform for sharing of best-practice, co-creation of policy and implementation

Mayor	Focsani Municipality	Local	 Romania
Mayor	Iasi Municipality	Local	 Romania
Mayor	Cluj-Napoca	Local	 Romania
Mayor	Arad Municipality	Local	 Romania
Mayor	Municipiul Câmpulung Moldovenesc	Local	 Romania





- Local digital twins are the **virtual representation of a city's physical assets, processes and systems**
- Connected to **data** related to those assets facilitates AI algorithms, data analytics and machine learning
- Combining numerous technologies to create digital **simulation models** that can be updated and changed (**real-time**) as their physical equivalents change
- Providing a **risk-free testing environment** that increases the precision of long-term predictions, improves monitoring and impact assessment of certain decisions for the city's ecosystem
- **Possible benefits:** operational efficiencies, cost savings, more informed decisions, adaptation to climate change, increased resilience, effective urban planning and urban infrastructure management, crisis management, effective coordination of emergency services, participatory governance, improved services for citizens and increased safety and security



Local digital twins can change the way cities are planned, operated, monitored and managed (*'policy-ready-data-as-a-service'**)
'A playground for city planners' **



* DUET project
** OASC



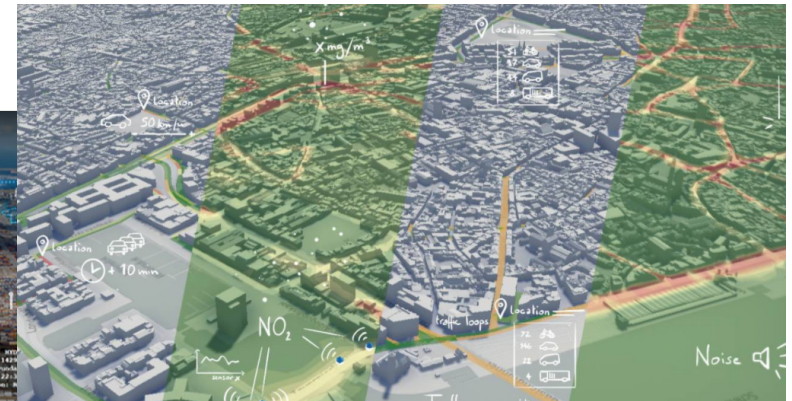
... and in Europe



Newcastle



Port of Rotterdam



3D copy of Antwerp



Helsinki



Buildings in Finland, Austria, Italy and Netherlands



Madrid, The Hague, Budapest, Lyon, Oslo and Porto



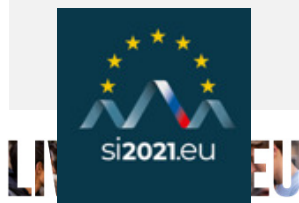
Flanders, Athens, Pilsen

+ Amsterdam, Angers, Cambridge, Gothenburg, Herrenberg, Paris region, Rennes, Stockholm, Hamburg, Munich & Leipzig and ...

Funding opportunities for smart and sustainable cities in the next MFF

Methods of EU funding

- Direct EU management via calls and contracts: Horizon Europe, Digital Europe Programme, Connecting Europe Facility
- Direct management via national programmes: Recovery and Resilience Facility
- Shared management via national programmes: Structural Funds, Cohesion Fund, Rural development fund



EU2019.FI



DIGITALNO SREDIŠČE SLOVENIJE SLOVENIAN DIGITAL CENTER

Tehnologija za ljudi
Technology for the People



I FEEL
SLOVENIA

ZELENA.
USTVARJALNA.
PAMETNA.

Follow us on :



@ConnectCitiesEU

Sign up for our newsletter here:

https://ec.europa.eu/newsroom/dae/userprofile.cfm?profileAction=edit&user_id=0&service_id=1910&lang=default

