

Key insights and latest developments in Smart and Sustainable urban Communities

DS4SSCC.eu

Permanent Representation of Slovenia to the EU

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European data space
for smart communities



Thimo Thoeye
Tech lead at OASC

Why *Data Spaces*

- Who knows how many tourists are staying in your city?

Booking.com



Why *Data Spaces*

- Who knows how many tourists are staying in your city?
- Who knows what capacity your electrical grid is operating at?

Booking.com



SIEMENS



Why *Data Spaces*

- Who knows how many tourists are staying in your city?
- Who knows what capacity your electrical grid is operating at?
- Who knows how end-to-end public transportation is performing in your city?

Booking.com



SIEMENS



Why *Data Spaces*

- Who knows how many tourists are staying in your city?
- Who knows what capacity your electrical grid is operating at?
- Who knows how end-to-end public transportation is performing in your city?
- Who knows how much families earn in which district?

Booking.com



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Why *Data Spaces*

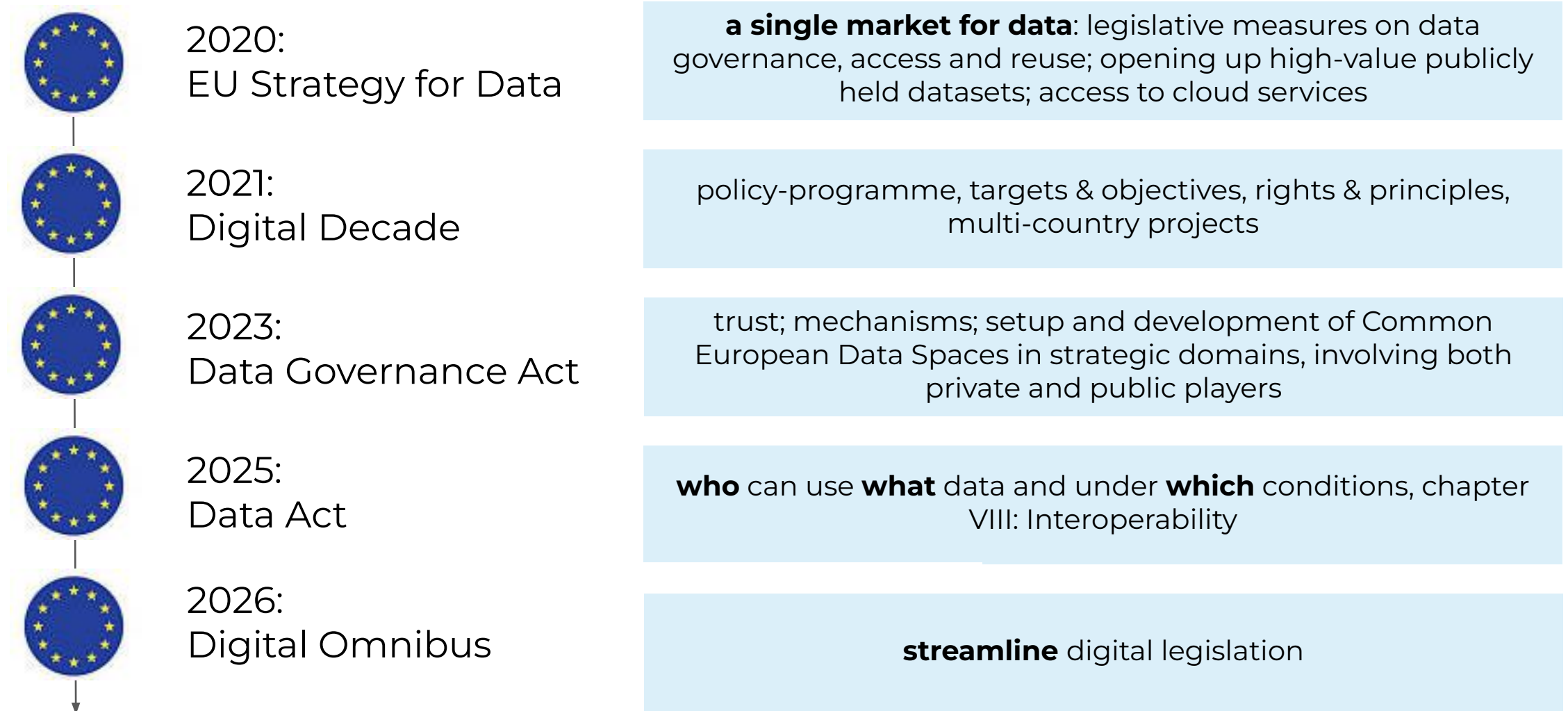
What is the problem?

- Lack of incentive for data sharing
- Fragmentation of data holders
 - private sector
 - public sector
 - intercomunal organisations
 - citizens
 - research institutions
- Lack of Trust
- Interoperability issues across systems



European data space
for smart communities

Data Spaces *Legislative Framework*



What is a Data Space

“Interoperable framework, based on common governance principles, standards, practices and enabling services, that enables trusted data transactions between participants”.

DSSC

“Sectoral or cross-sectoral frameworks designed to facilitate secure, sovereign and value-driven data sharing and collaboration across the European Union (EU).”

EC



European data space
for smart communities

Common European Data Spaces



Common European Data Spaces



Common European Data Spaces

| | |
|--|-----------------------------|
| | Agriculture |
| | Cultural heritage |
| | Energy |
| | Financial |
| | Green Deal |
| | Health |
| | Language |
| | Industrial (manufacturing) |
| | Media |
| | Mobility |
| | Public Administrations |
| | Skills |
| | Research & Innovation- EOSC |
| | Tourism |

DATES
European Data Space for Tourism

Prep. action
Tourism Data Space
(DATES)

Tourism

DATA SPACE FOR SMART AND SUSTAINABLE CITIES AND COMMUNITIES

Prep. action Smart
Communities Data Space
(DS4SSCC)

Smart cities

AGRI DATASPACE

Prep. action Agriculture
Data Space
(AgriDataSpace)

Agriculture

PrepDSpace4Mobility

Prep. action
Mobility Data Space
(PrepDSpace4Mobility)

Mobility

TOURISM DATA SPACE

Prep. action
Tourism DataSpace
(DSFT)

Tourism

DATA SPACE 4.0

Prep. action
Manufacturing Data Space
(EU DATA SP4CE)

Manufacturing

GREAT
Green Deal Data Space

Prep. action
Green Deal
(GREAT)

Green

European data space for smart communities

Depl. action Data Space
for Smart Communities
(DS4SSCC-DEP)

Smart cities

EUCAIM
CANCER IMAGE EUROPE

European Federation
for CAncer IMages
(EUCAIM)

UNDERPIN

Depl. action for the Data
space for Manufacturing
(UNDERPIN)

int:net
Interoperability Network for
the Energy Transition

Interoperability Network
for the Energy Transition
(IntNET)

Interoperability / Energy

SM4RTENANCE

Depl. action for the Data
space for Manufacturing
(SM4RTENANCE)

deploy EMDS

Depl. action for the Data
Space for Mobility
(deployEMDS)

Mobility

omega-x

(Omega-X)

Energy

EUROPEAN LANGUAGE DATA SPACE

Language Data Space
(LDS)

Language

SYNERGIES

(Synergies)

Energy

European Genomic Data Infrastructure

The European Genomic
Data Infrastructure
(GDI)

Health (Genomics)

EDDIE
EUROPEAN DISTRIBUTED DATA INFRASTRUCTURE FOR ENERGY

(Eddie)

Energy

PUBLIC PROCUREMENT

(Public Procurement
Data Space)

Public Administration

DATA CELLAR

(Data Cellar)

Energy

tems

Depl. action for the Data
Space for Media
(TEMS)

Media

Enershare
The Energy Data Space for Europe

(Enershare)

Energy

europeana

common European
data space for
cultural heritage

Cultural heritage

[Source and info on all data space projects](#)



European data space
for smart communities

Why a *Data Space* for Cities and Communities?



A local government wants to create a data-driven **service** to benefit their citizens.



The service requires data sets from different sectors: interoperability, security, contracts....



Leverage a local Data Space



European data space
for smart communities

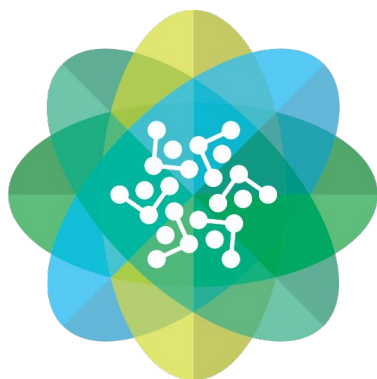
Why a *Data Space* for Cities and Communities?

Expected benefits

- Growth of the European data market (€723B by 2030, 5.2% of EU GDP) ([source](#))
- Easier access to qualitative data for SMEs (AI, ...)
- Better provisioning of local services for citizens
- Increased resilience of cities and communities
- Increased data sovereignty



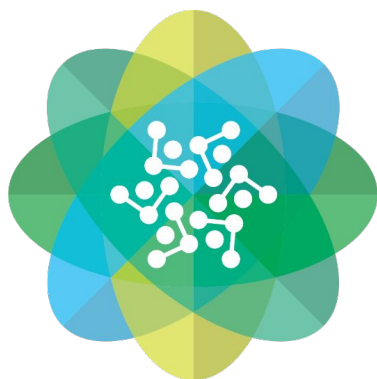
European data space
for smart communities



European data space for smart communities



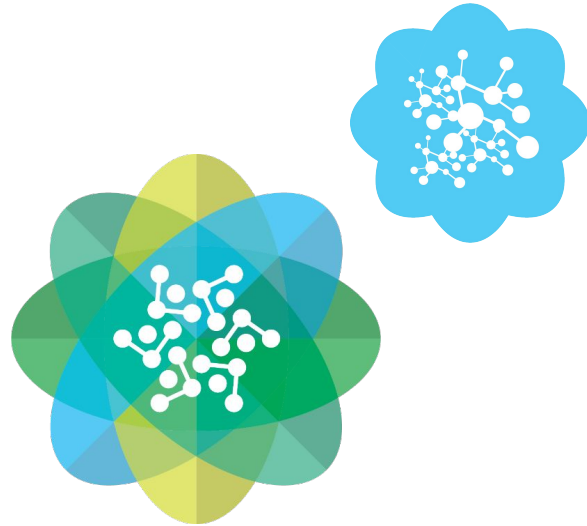
Co-funded by
the European Union



€ 15 million awarded to pilots



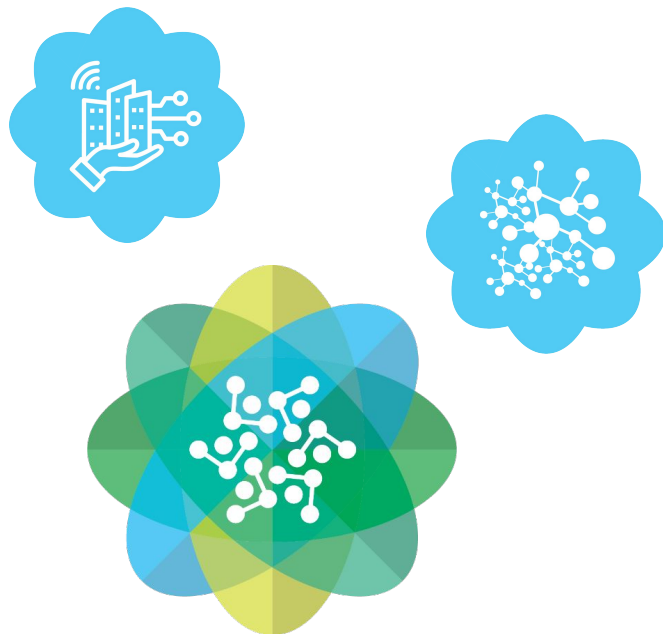
Co-funded by
the European Union



That bootstrap the EU Data Space for
Smart Cities and Communities



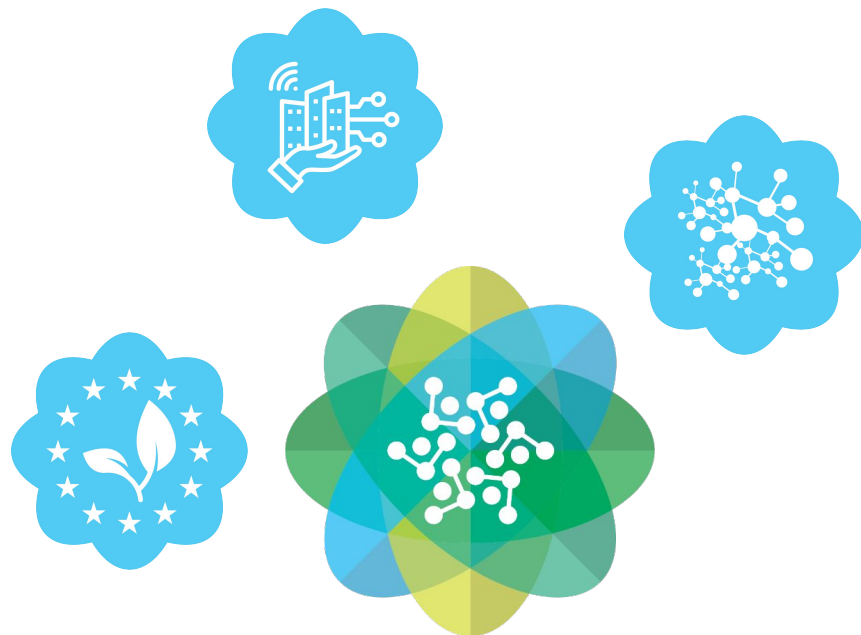
Co-funded by
the European Union



That are on the forefront of digital innovation



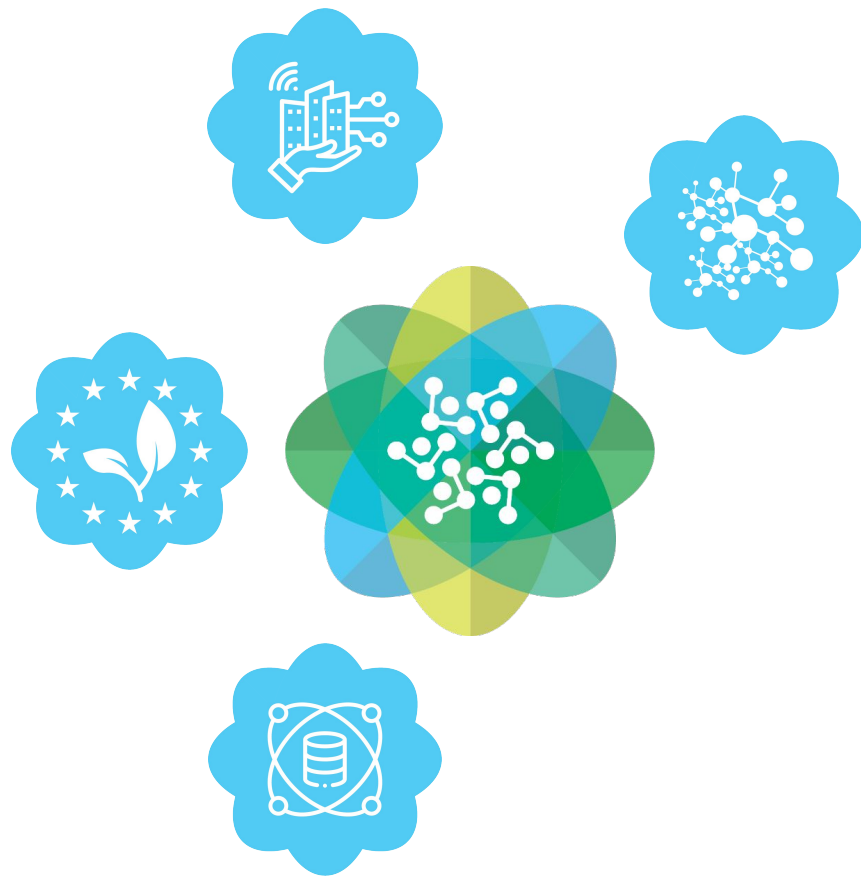
Co-funded by
the European Union



That contribute to the EU's
Green Deal objectives



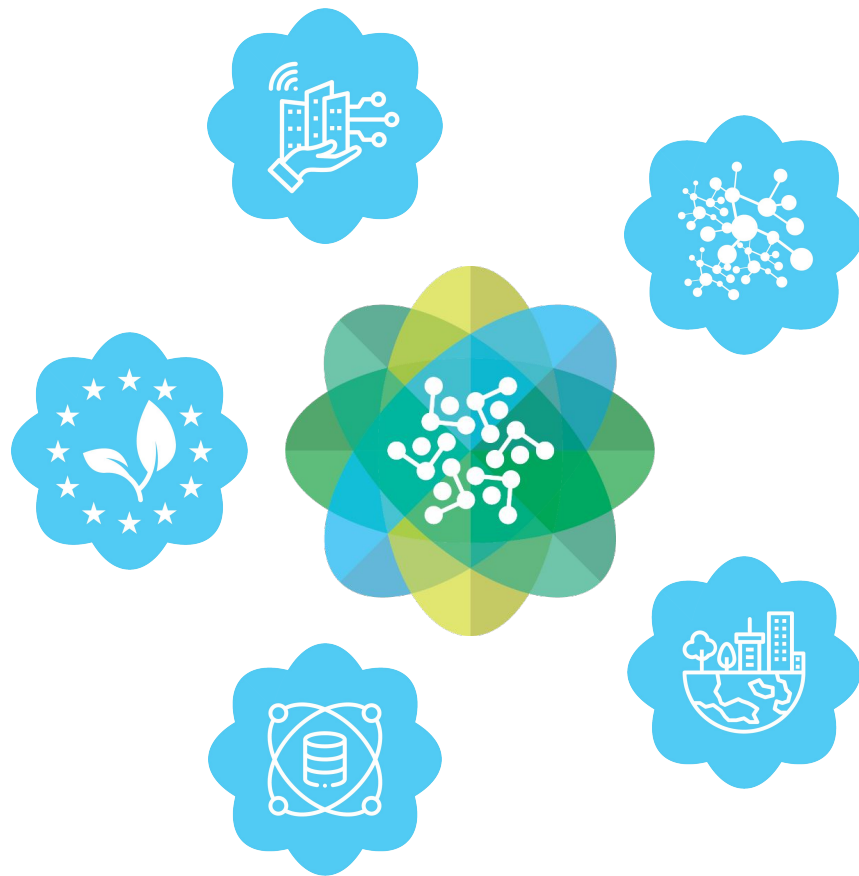
Co-funded by
the European Union



That implement and drive the
Blueprint for European Data Spaces



Co-funded by
the European Union



That are leading examples of **smart**
and **sustainable** urban development



Co-funded by
the European Union



- Close collaboration between Kranj and Pula
- Creation of an extendible Data Space platform
- Valuable & realistic Use Case & sustainability targets
- Cross-sector and cross-country collaboration

Challenges

- Proliferation of technical solutions (e.g. Data Space Connectors)
- Semantic interoperability
- Critical mass of local data spaces
- Value proposition of data spaces towards public and private sector actors



Challenges *and solutions*

DS4SSCC Solutions:

- Creation of a **federated** European Data Space
- Development of a **blueprint** for public sector participants
- Development of **interoperability mechanisms** (mims.oascities.org)

Future opportunities:

- Support for the creation of Local Digital Twins (ldt4ssc.eu) (call for pilots)
- A European Digital Infrastructure Consortium ([EDIC](#)) for sustainable infrastructure



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