INCREASING DIGITALISATION AWARENESS & READINESS OF MALTESE COMMUNITIES

in collaboration with

Assoċjazzjoni Kunsilli Lokali
Local Councils' Association Malta

22 November 2024

Mellieħa, Malta

European Commission | serendipity | Capgemini | OASC OPEN & AGILE SMART CITIES & COMMUNITIES | technopolis group | imec embracing a better life | EUROCITIES | ICLEI Local Governments for Sustainability EUROPE | Deloitte.

WELCOME

Assoċjazzjoni Kunsilli Lokali

Local Councils' Association Malta

Mr Mario Fava

President of the Local Councils' Association

European Commission

Main Objective of the session

Increasing awareness and readiness, supporting EU communities that have not yet begun their digital transformation journey by providing resources, best practices, and training to develop digital strategies.

Scaling deployment of digital infrastructure, assisting communities with existing digital transformation strategies in deploying enabling digital infrastructures and tools based on commonly agreed standards.

Promoting Local Digital Twins, creating a European Local Digital Twin (LDT) toolbox that will facilitate the deployment of digital twins for innovative urban planning and sustainable solutions.

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Main Approach of the sessions

HYBRID DISSEMINATION SESSION:

This introductory session delivers valuable insights into European digital topics, featuring presentations from experts who communicate in a clear and accessible manner.

It is designed for city and local community representatives and decision-makers, providing them with essential information and understanding to advance their digital initiatives.

The goal of this session is to raise awareness among the target group, and sets the stage for the follow-up training sessions.

ONLINE TRAINING SESSIONS:

These sessions are specifically tailored to address the unique needs of individual communities.

They offer comprehensive training on relevant digital topics and tools, ensuring participants gain the in-depth knowledge and skills required to effectively implement and manage their digital transformation projects.

The goal of these sessions is to provide participants with a hands-on approach to each of the topics disseminated in the hybrid event.

PROMOTING EUROPEAN INITIATIVES:

Promoting and disseminating European Initiatives to support communities in their digitalisation strategy.

The goal is to make sure communities know and utilise these resources and communities available at European level such as Living-in.EU, LORDIMAS, European data space for smart communities, the Online Procurement Helpdesk, the Local Digital Twin Toolbox or the LDT EDIC among others.

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AGENDA

European Commission

Detailed Agenda Overview

Phase 0: How to Start Your Digitalisation Journey

November 22nd 14:45 CET

Time	Session	Speaker(s)
14:45 – 14:55	**Welcome**	**Mario Fava |** President Local Councils' Association **John Mallia |** Business Management, Mediacoop Ltd **–** Event moderator
14:55 – 15:10	**Introduction to Local Digital Twins**	**Miguel Álvarez Rodríguez |** Policy Officer, AI Office,European Commission
15:10 – 15:35	**Local Digital Twins & EU Green Deal**	**Chiara Venturini |** Head of Digital Transformation & Economic Development**,** Eurocities
15:35 – 15:50	**LORDIMAS: your digital maturity assessment**	**Genoveva Gil García |** Tech Lawyer & Project Manager, Serendipity
15:50 – 16:20	**Online Procurement Helpdesk: developing your digitalisation roadmap**	**Anastasia Sarantopoulou |** Project lead & tech law consultant, Serendipity **Giovanni Fazio** | Citizen Services & Technological Innovation, Municipality of Como
16:20 –16:35	**Coffee Break**	
16:35–17:00	**Enabling Technologies: Open Data Platforms, Data Spaces and MIMs**	**Michael Mulquin |** MIMs Ambassador**,** OASC
17:00– 17:25	**Supporting ecosystems: Living-in.EU, European Digital Infrastructure Consortium, and Local Councils' Association**	**Gabriela Ruseva |** Living-in.EU Project Coordinator**,** Eurocities **Ernesto Faubel Cubells|** Valencia City Council and EDIC representative **Jordi Ortuño Ribé |** Barcelona City Council and EDIC representative
17:25 – 17:35	**Funding opportunities**	**Maddalena Buonamico |** Projects and Fundraising Assistant, ALL Digital
17:35 – 17:45	**Closure and Living-in.EU signatory ceremony**	**Local Councils' Association**
17:45 – 18:45	**Networking Reception**	

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The Journey

WHY

Discovery Phase

Unlocking the potential of digitalisation

Learn about Local Digital Twins' foundational concepts, their role in urban decision-making, and how they support the EU Green Deal's sustainability objectives through practical examples and case studies.

HOW

Planning Phase

g the foundation of your digital journey

Learn about LORDIMAS for assessing digital maturity and developing an implementation roadmap to advance digitalisation, including the role of open data platforms and procurement support.

SUPPORT

Empowerment Phase

Empowering your digital transformation

Explore ecosystems and funding opportunities to accelerate your community's digital transformation through collaboration and financial support.

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INTRODUCTION: LOCAL DIGITAL TWINS

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INTRODUCTION TO LOCAL DIGITAL TWINS

Speaker:

- **Miguel Álvarez Rodríguez,** Policy officer (AI Office, DG CONNECT, Comisión Europea)

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What is a Local Digital Twin?

A **Digital Twin** is a continuous learning digital copy of real-world assets, systems and processes…

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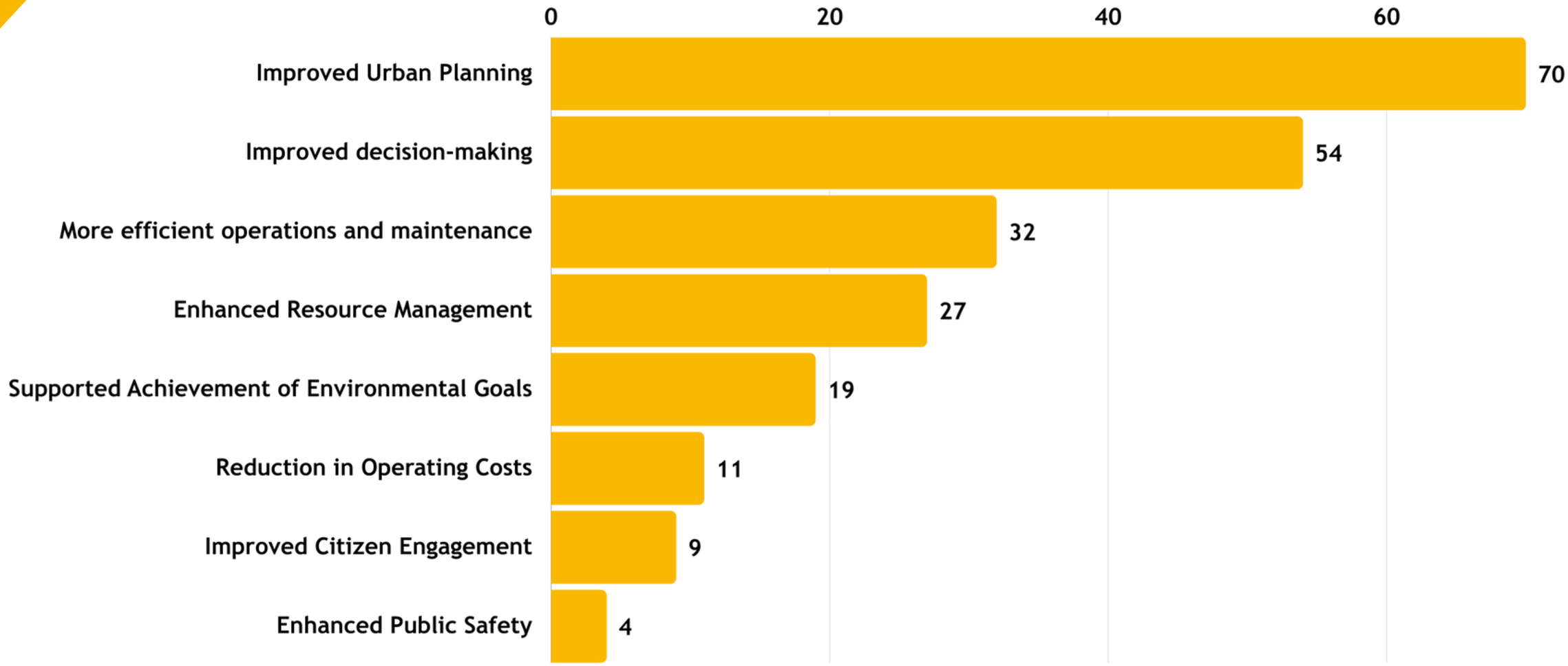
What Are LDTs Used For?



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Application Use Case

1. Urban Planning / Zoning / Development
2. Asset & Infrastructure Management
3. Environmental & Climate Monitoring
4. Public Safety and Crowd Dynamics
5. Transportation and Pedestrian Planning
6. Facilities Management

Land use

Building footprints

Shadow and wind patterns

Asset tagging

IoT sensors

Topography

Infrastructure data

Water and Climate Models

Optical sensors

Video

GPS

Lighting

Traffic

Ped counting

Building details

HVAC and utilities

Optical sensors

GIS

Planning

Public works

Economic development

Parks

Transportation

Environment

Police

Fire

Emergency management

Public safety

Facilities management

Data, the new soil
European Commission
#DigitalEU

Unique Value Proposition of LDTs

Connect legacy systems

Make data understandable

Explore policy impact

Influence better public decisions

Experiment and innovate in cities and across regions

DUET

European Commission

LOCAL DIGITAL TWINS AND THE EU GREEN DEAL

European Commission

LOCAL DIGITAL TWINS AND THE EU GREEN DEAL

Speaker:

- **Chiara Venturini,** Head of Digital Transformation & Economic Development, Eurocities

European Commission

The Role of Cities in the Green Transition

Cities play a pivotal role in achieving climate neutrality by 2050, the goal of the European Green Deal, accounting for:

75 % of EU citizens

65 % of the world's energy consumption

+70 % of global CO2 emissions

European cities can contribute to the Green Deal target of reducing emissions by 55% by 2030 and, in more practical terms, to offer cleaner air, safer transport and less congestion and noise to their citizens.

European Commission

Climate Neutral and Smart Cities Mission

- 112 climate-neutral and smart cities by 2030.
- Ensure that these cities act as experimentation and innovation hubs to put all European cities in a position to become climate neutral by 2050

100 EU cities

12 cities from Horizon Europe associated countries

Cities from every Member State

Capital cities

Small, medium, large cities

Frontrunners and less prepared cities

European Commission

The Twin Green and Digital Transition Go Hand in Hand

- The digital transformation is taking place against a backdrop of rapid climate change
- The EU's policy agenda looks at digital twins as far-reaching technologies that can support smart cities in contributing to the European green deal strategy, enhancing energy efficiency, adaptation of society to climate change and resilience of urban centres.
- Placed into urban contexts, digital twins help smart cities to reassess their urban planning, transforming how cities are displayed, monitored and managed

Monitoring and Tracking

Simulation and Forecasting

System Management

Virtualisation

Information and Communication Technologies

European Commission

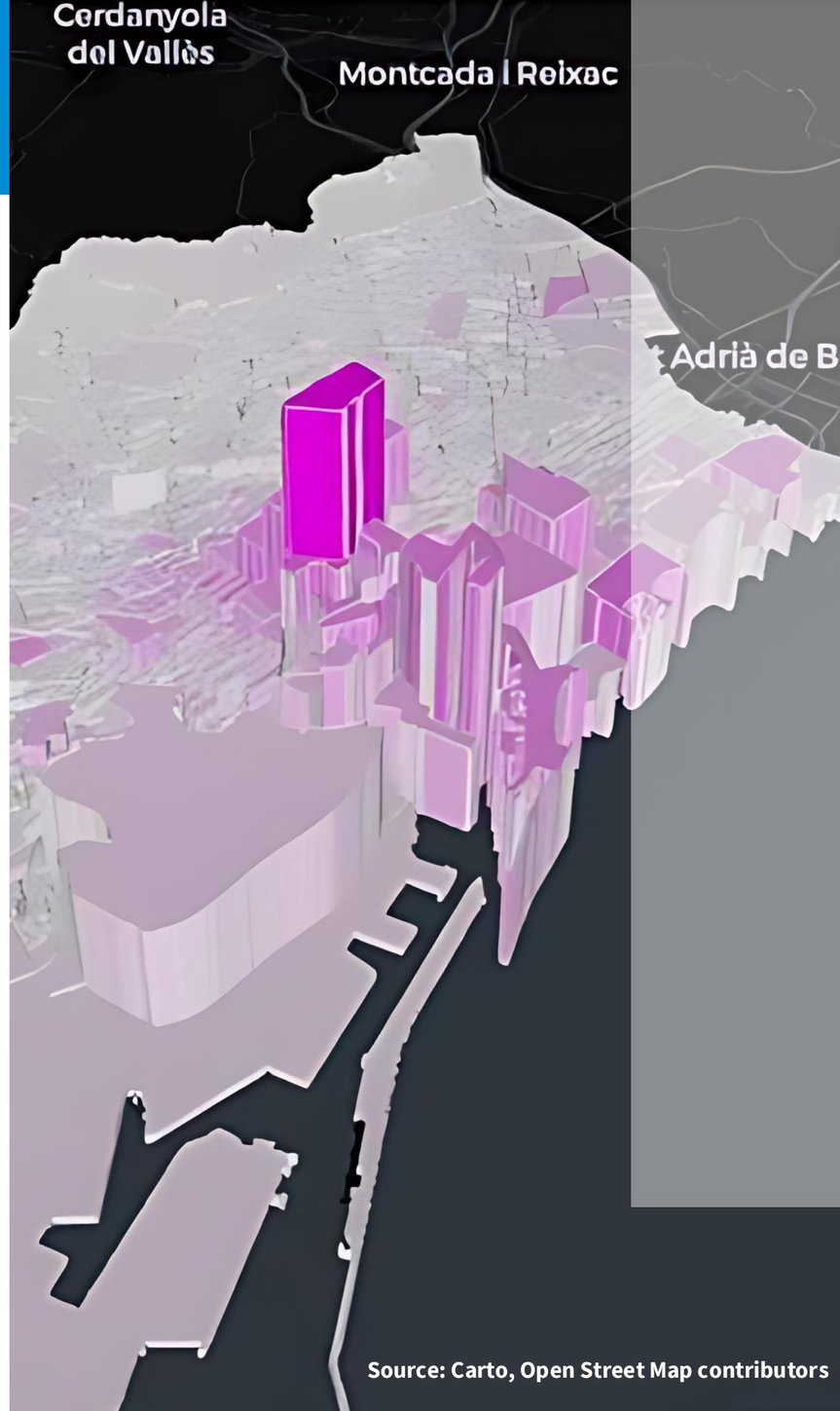
Monitoring and tracking

Monitoring and tracking can provide precise knowledge in real time

Success story: Barcelona Superilles
The goal of the project is to create a healthy, greener, fairer and safer public space that promotes social relations and the local economy.

Barcelona Supercomputing Centre revealed that while improving air quality, superblocks have also increased pollution in adjacent areas where traffic has been displaced.

Digital twins' technologies have permitted to measure and evaluate the impact of urban policies, and correct them if it was needed.



Source: Carto, Open Street Map contributors

Simulation and forecasting

Simulation and forecasting can improve efficiency and allow for data-driven decision-making

Success story: DUET Project in Flanders

A traffic model calculates what traffic volumes can be expected at the same time in the surrounding streets when one or more streets are closed.

The interaction between the traffic model and the air quality model allow to simulate the effects of traffic measures in the city on mobility and the environment.

Digital twins' technologies allow cities to test how different decisions will affect the city and its residents. The digital twins allows local governments to make mistakes in the virtual world, and avoid unexpected effects of policies.

Source: DUET Project

System management

System management supported by digital technologies helps to cope with increasing complexity

Success story: RUGGEDISED in Rotterdam

The Ruggedised project aimed at transforming large districts or buildings into low carbon and resource efficient districts through smart interaction and integration of energy systems at district level.

Ruggedised implemented 13 smart solutions to achieve maximum energy efficiency and CO2 reduction, while having a social economic impact in terms of job creation, levels of participation of citizens and quality of life. One of the outcomes was building a “3-D city operations platform”. The platform discloses and visualises actual use of energy as well as its use over a period of time, it makes it possible to monitor and communicate different information, enabling endless applications and scalable solution to digital city level.

Source: RUGGEDISED Project

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Virtualisation

Virtualisation can also help reduce environmental impact by enhancing behavioural change

Success story: Amsterdam and Utretch 3D platforms

The municipalities of Amsterdam and Utrecht are jointly developing an online platform for anyone to build their own 3D environment and provide it with their own data and various functionalities.

The platform provides a 3D version of the city, allowing the local government to better discuss with local residents and stakeholders in the context of participation. Designers and project developers can add models to the 3D platform themselves. The 3D platforms allows the municipality, residents and other stakeholders to visualise how changes will affect their environment. For example, placing solar panels in public buildings or monuments.

This solution is available for other Dutch cities to use.

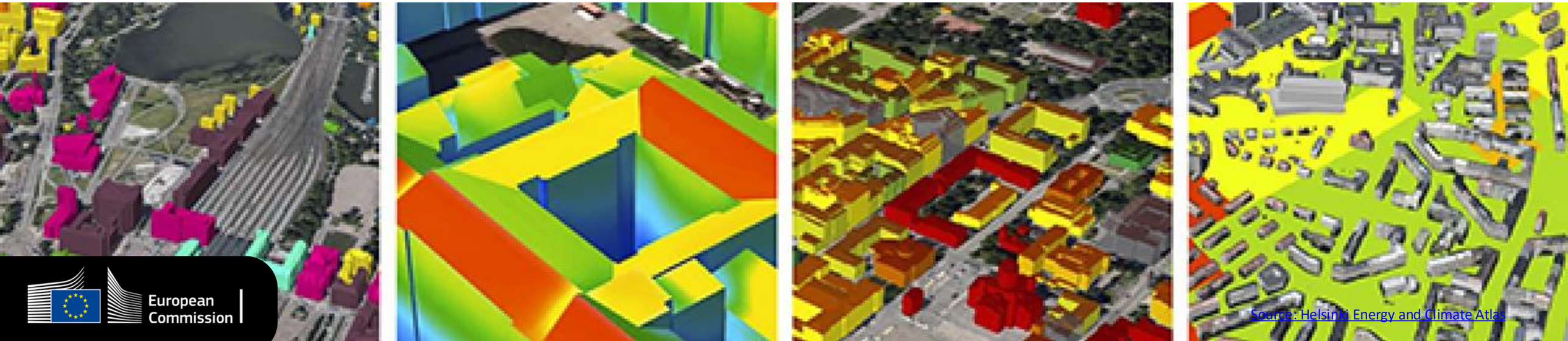
Information and Communication Technologies

Information and communication technologies enable new levels of interaction

Success story: Helsinki 3D+ Energy and Climate Atlas

The Helsinki Energy and Climate Atlas is a free browser service based on the 3D City Models, and it contains information about renewable energy and possibilities for energy renovations throughout the Helsinki region.

This technology allows the city and residents to see the indicative energy consumption estimate for nearly every building , and includes information about how much solar radiation energy the surfaces receive on an annual and monthly basis.



Source: Helsinki Energy and Climate Atlas

LOCAL DIGITAL TWINS AND THE EU GREEN DEAL

Speaker:

Chiara Venturini, Head of Digital Transformation & Economic Development, Eurocities

Any questions?

THANK YOU!

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The Journey

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LORDIMAS: YOUR DIGITAL MATURITY ASSESSMENT

European Commission

LORDIMAS: YOUR DIGITAL MATURITY ASSESSMENT

Speaker:

Genoveva Gil García, Tech Lawyer & Project Manager,

Serendipity

European Commission

What is LORDIMAS?

'Interactive tool aimed at helping local and regional governments to understand where they are in their digital transformation journey'

EVALUATE

A digital maturity tool

Governance, Service design, Data management, Interoperability, Technology, Service delivery and Networking

COMPARE

An interactive dashboard

Presenting your data in real-time and allowing you to compare with other cities in Europe

SHARE

Repository of good practices

Sharing your success and challenges to promote the European way for digital transformation

LEARN

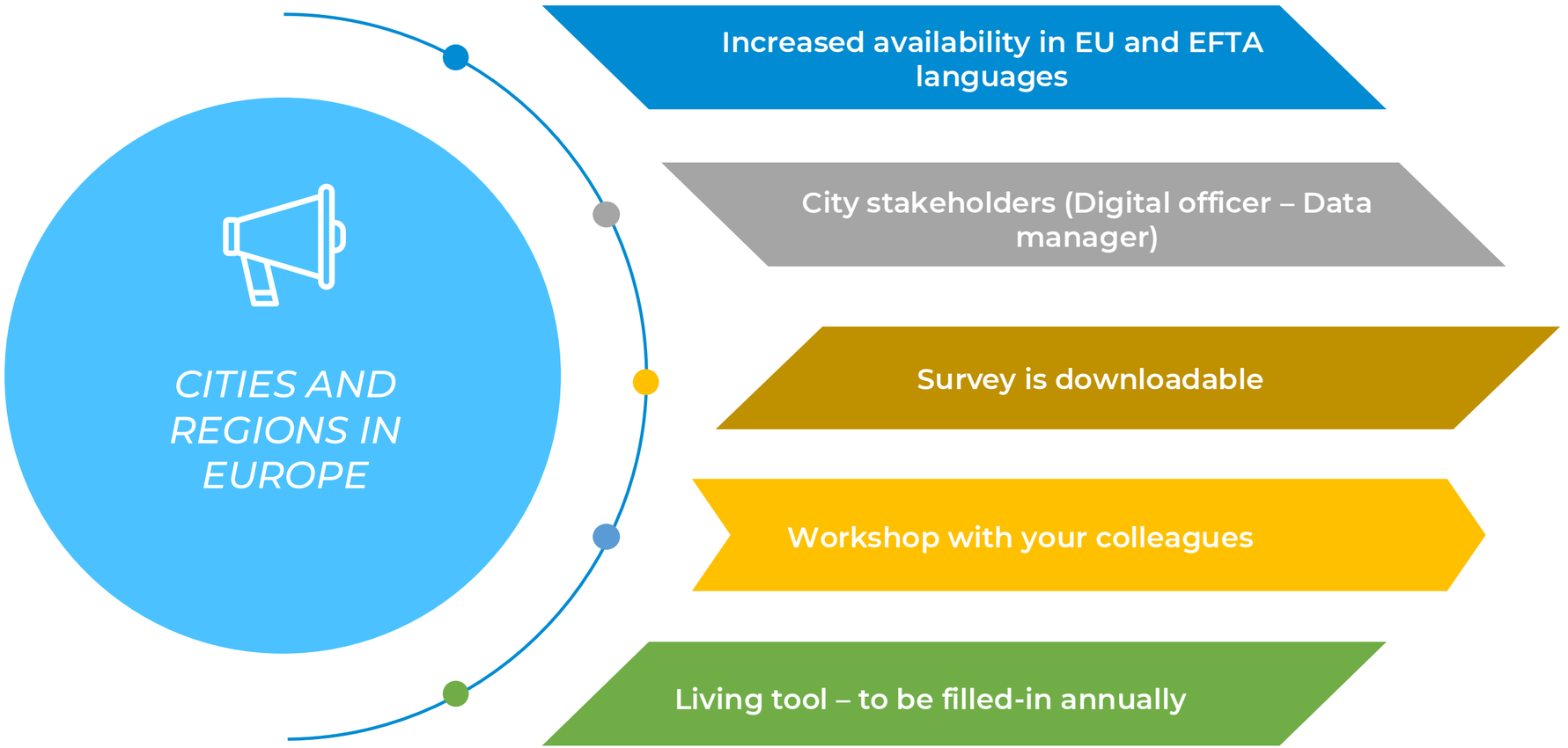
Policy recommendations

Bringing awareness about emerging topics at the EU level and to giving policy advice

What is LORDIMAS?

A functional approach

What else to know about LORDIMAS?



How was LORDIMAS created?

A collaborative work with many stakeholders

Where does LORDIMAS come from?

A collaborative process

2019

Creation of the Living-in.EU movement

2020

Initiation of the work on LORDI in the Monitoring subgroup

2021

Creation of 29 indicators for local and regional authorities

2022

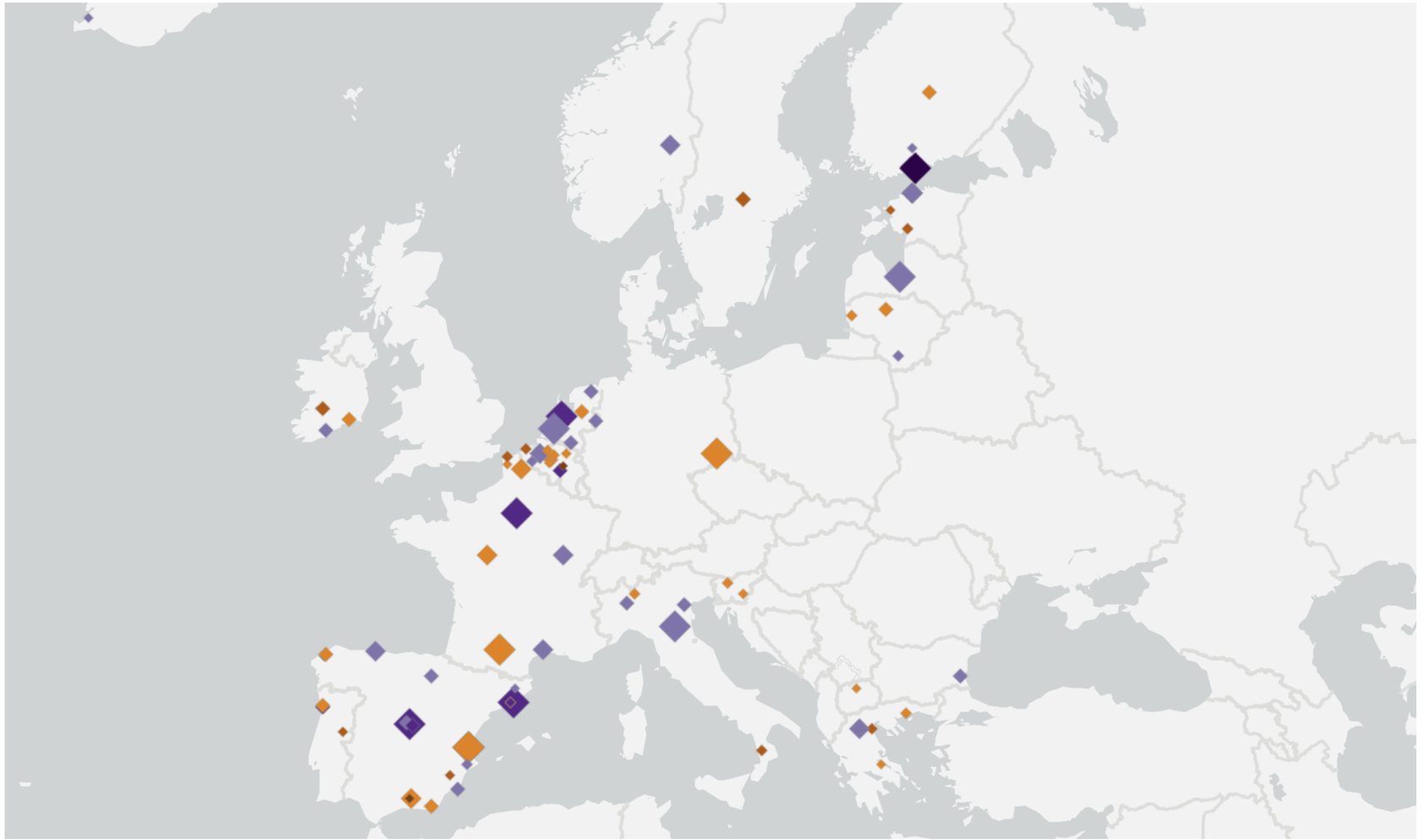
Work is starting on the LORDIMAS tool

2023

Official launch of the tool in October 2023 (EU Week of Regions & Cities)

And since then?

A steady uptake



LORDIMAS
LIVING-IN.EU

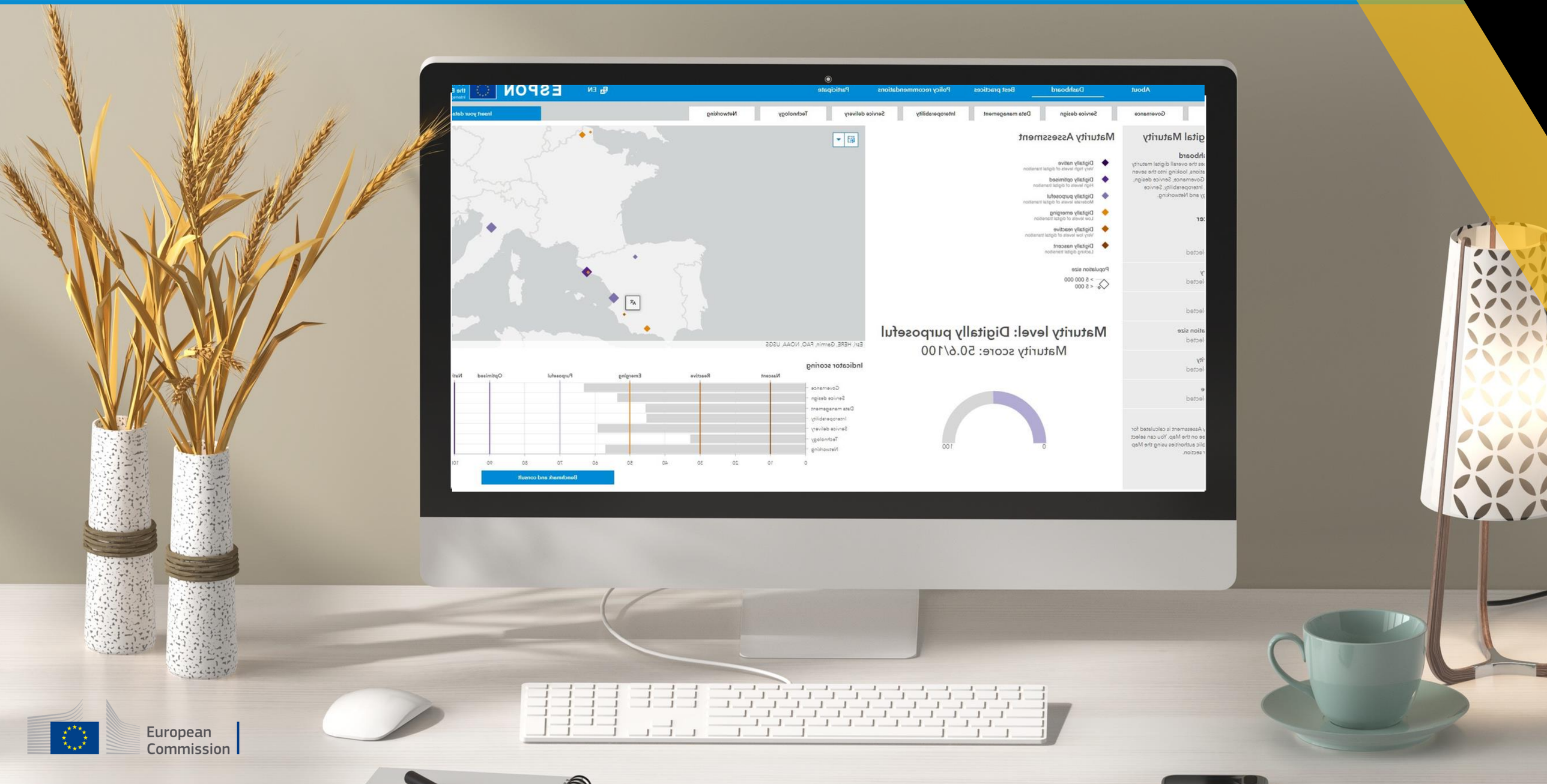
And since then?

A steady uptake

From 21 countries

With 80 answers in total on the 93

How does LORDIMAS work?



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Home | About | Dashboard | Best practices | Policy recommendations | Participate | EN | ESPON | Co-funded by the European Union Interreg

LORDIMAS
LIVING-IN.EU

Digital Maturity Assessment

Get policy advice, promote and learn from best practices

LORDIMAS is an interactive digital maturity assessment tool aimed at helping local, metropolitan and regional governments to understand where they are in their digital transition journey

Participate | Explore

Promoted by

European Commission | European Committee of the Regions | ERRIN | OPEN & AGILE SMART CITIES | European Network of Living Labs | EUROCITIES | CCRE CEMR L'Europe locale & régionale

Home | About | Dashboard | Best practices | Policy recommendations | Participate | EN | ESPON | Co-funded by the European Union Interreg

Overall | Governance | Service design | Data management | Interoperability | Service delivery | Technology | Networking | Insert your data

Analyse and visualise

Overall Digital Maturity

About this dashboard

This module assesses the overall digital maturity of public administrations, looking into the seven LORDIMAS topics: Governance, Service design, Data Management, Interoperability, Service delivery, Technology and Networking.

Search and filter

Filter by country
Finland

Filter by type
No category selected

The Digital Maturity Assessment is calculated for the selection you see on the Map. You can select one or multiple public authorities using the Map or Search and Filter section.

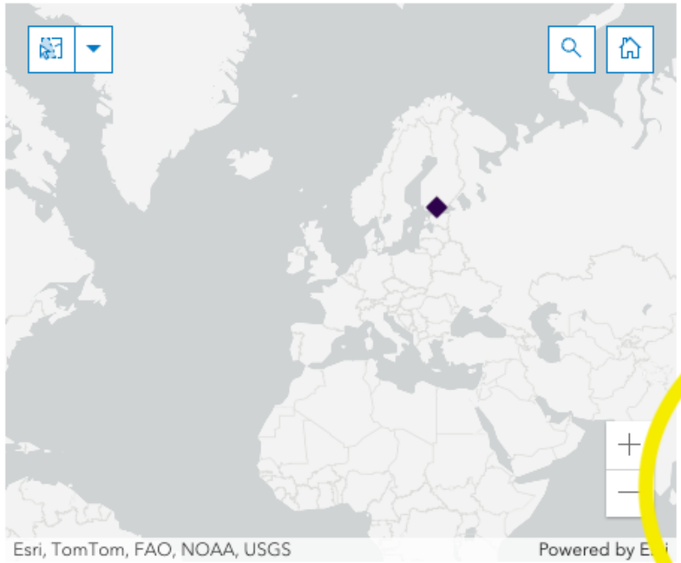
Maturity Assessment

- Digitally native — Very high levels of digital transition
- Digitally optimised — High levels of digital transition
- Digitally purposeful — Moderate levels of digital transition
- Digitally emerging — Low levels of digital transition
- Digitally reactive — Very low levels of digital transition
- Digitally nascent — Lacking digital transition

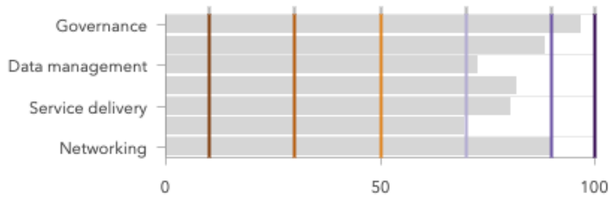
Population size

Maturity level: Digitally optimised

Maturity score: 82.5/100



Indicator scoring



Analyse and visualise

Overall Digital Maturity

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This module assesses the overall digital maturity of public administrations, looking into the seven LORDIMAS topics: Governance, Service design, Data Management, Interoperability, Service delivery, Technology and Networking.

Search and filter

No category selected

Filter by country
France

Filter by type
No category selected

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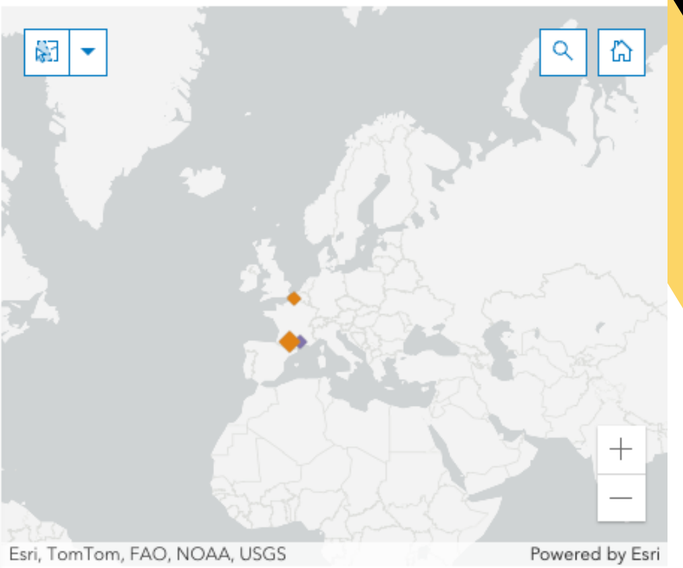
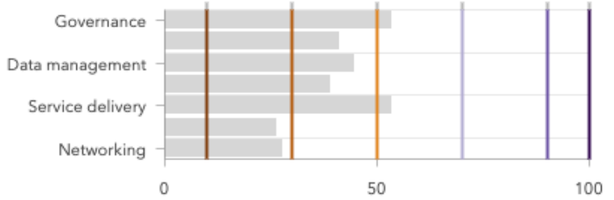


Indicator scoring



Benchmark | Policy recommendations | Best practices

European Commission

All | Governance | Service design | Data management | Interoperability | Service delivery | Technology | Networking

Insert your best practice

[Draft example] Helsinki's innovation...

Forum Virium Helsinki (FVH) is the City of Helsinki innovation company. FVH co-creates...

[Draft example] Terrassa creates a m...

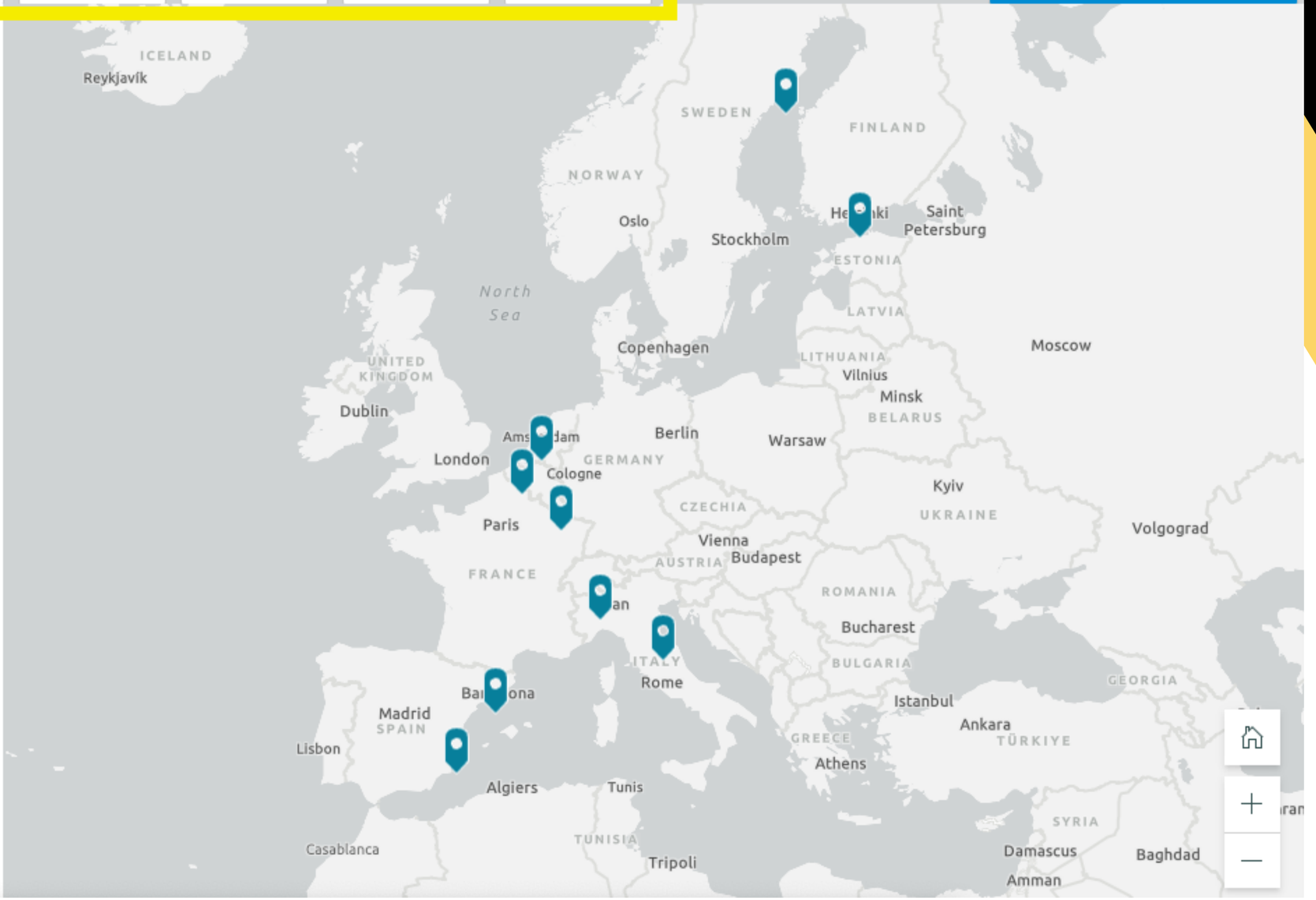
"Participa a Terrassa" (participa.terrassa.cat) is the online tool for citizen participation that...

[Draft example] Amsterdam informs ...

Private companies, research institutions and government organisations in Amsterdam mus...

[Draft example] Umeå integrates dat...

The Umeå urban data platform (UDP) integrates a wide number of data sources from both...



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*'The importance is not the score, but the strength of the **community**. Learning to improve and keep moving forward'*

City of Logroño (Spain)

You can access LORDIMAS at:

lordimas.espon.eu

If you want to contribute to shape the future development of the tool you can join the **Monitoring & Measuring Working Group** of Living-in.EU

living-in.eu

Next meeting

13 December

11:00–12:00 CET

Call to Action – How to Get Started

- Go to the platform, click on participate and download the offline form.
- Identify your list of key city stakeholders you would like to invite for the assessment. Share the questionnaire with the stakeholders.
- Organise a workshop to discuss the questionnaire and collect information on all dimensions.
- Complete the assessment online, compare yourself to other cities, consult good practices and recommendations
- Summarise and discuss digital maturity assessment results jointly with the stakeholders, share learnings on strengths and weaknesses

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ONLINE PROCUREMENT HELPDESK: DEVELOPING YOUR DIGITALISATION ROADMAP

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ONLINE PROCUREMENT HELPDESK: DEVELOPING YOUR DIGITALISATION ROADMAP

Speakers:

- **Anastasia Sarantopoulou**, Project Lead & tech law consultant, Serendipity
- **Giovanni Fazio**, Citizen Services & Technological Innovation, Municipality of Como (video testimonial)

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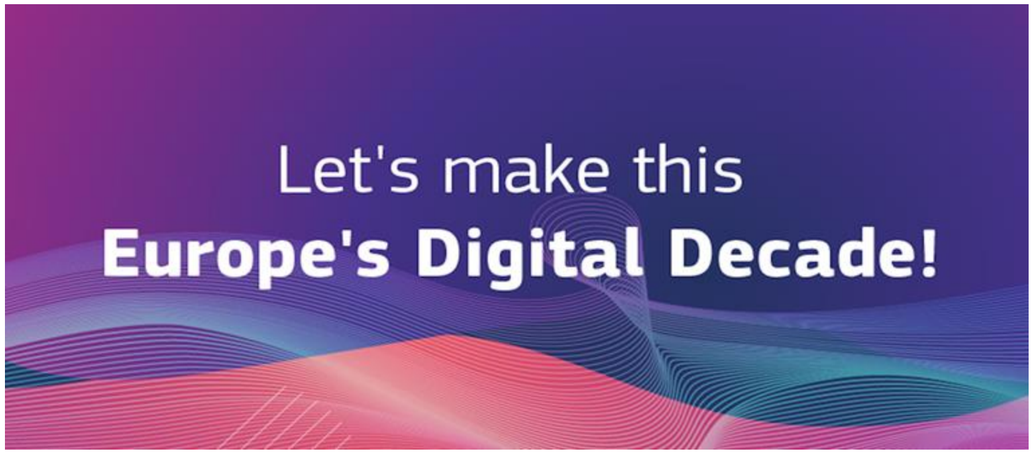
The importance of developing digitalisation roadmaps



National Digital Decade strategic roadmaps

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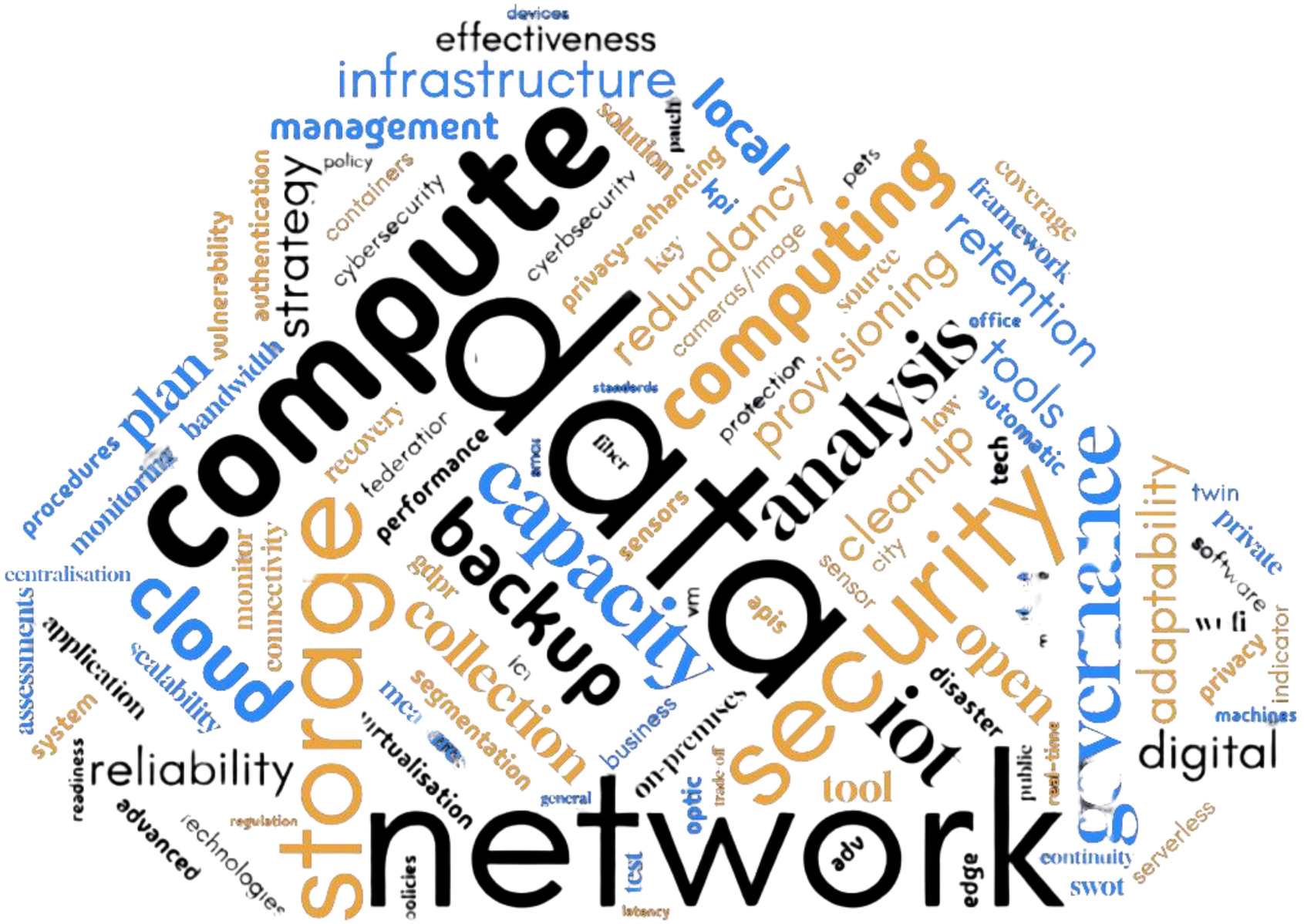
What Digital Transformation Concepts Need to be in Place



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How to Develop Your Digitalisation Roadmap

Strategy and decision makers

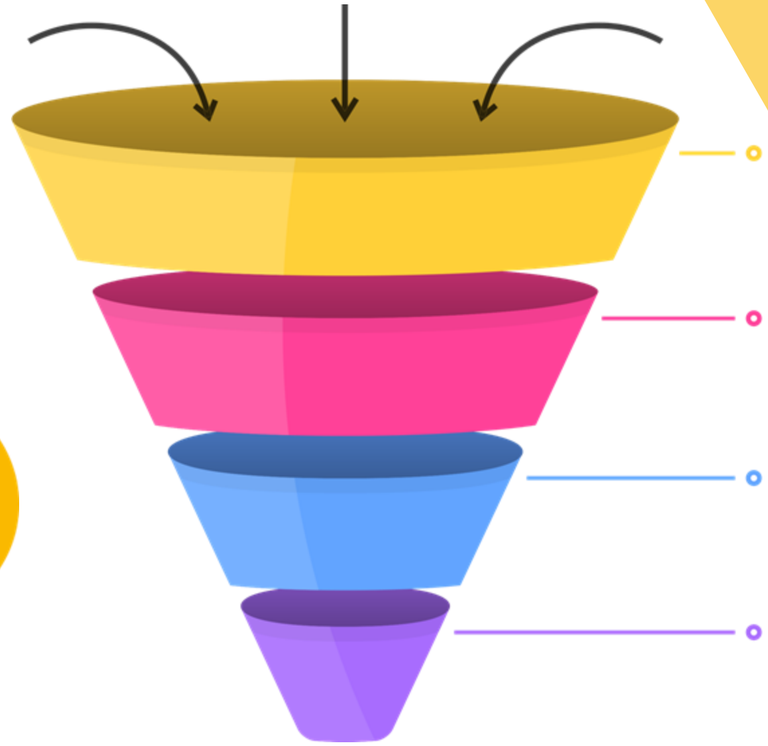
IT/Data/Architecture specialists

Thematic experts

Digital Maturity Assessment

Strategy Assessment

IT Infrastructure Assessment



Digital transformation roadmap

with key milestones and identification of **procurement needs**

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Get Support through the Online Procurement Helpdesk

EU initiative

- **Accelerating digital maturity** of less digitally ready EU cities and regions.
- **Foster digital strategies**, local digital twins and other digital solutions across rural and urban areas.
- **150 EU cities** will receive support services*

*The service will be **transferred to the EDIC** to scale-up to every city in the EU

Benefits for Cities & Communities

- A detailed and **tailored digitalisation roadmap**
- **Expert guidance** to develop, review and prepare the implementation of a **digital strategy.**
- Alignment with **EU standards, principles and regulations**
- **Procurement support,** including procurement guidelines and procurement templates.

Support equivalent to **100+ days** of **consultancy** services.

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More information about the Online Procurement Helpdesk

Journey for Participating Cities

KICK OFF ACTIVITIES

1:1 sessions between cities and the *CGAs, or to a common Info Session

*LORDIMAS

Get to know your overall digital maturity

STRATEGY ASSESSMENT

Assess in more detail your overall digital vision and strategy

IT INFRASTRUCTURE ASSESSMENT

Evaluate the technical maturity of the IT infrastructure

DIGITALISATION ROADMAP

Get your digital transformation roadmap tailored to your city/community needs

PROCUREMENT SUPPORT

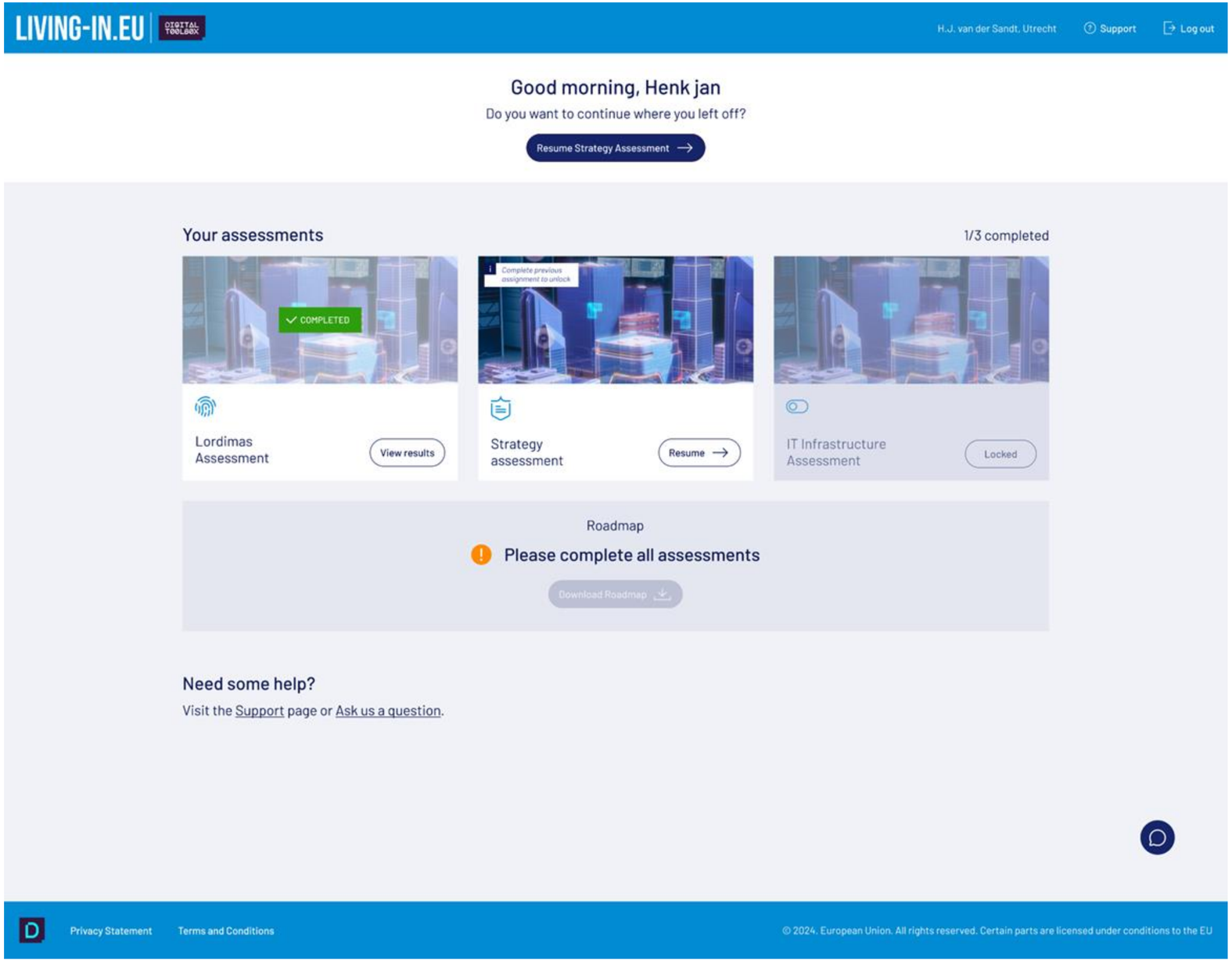
Receive support to identify procurement needs and templates

European Commission

*CGAs (City Guiding Agents)

*Local and Regional Digital Maturity Assessment

Procurement Helpdesk



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LORDIMAS: your digital maturity assessment

Evaluate

Compare

Share

Learn

A digital maturity tool

Governance, Service design, Data management, Interoperability, Technology, Service delivery and Networking

An interactive dashboard

Presenting your data in real-time and allowing you to compare it with other regions and cities in Europe

Repository of good practices

Sharing your successes and challenges to promote the European way for digital transformation

Policy recommendations

Bringing awareness about emerging topics at the EU level and to give policy advice

European Commission

More information on LORDIMAS here

Strategy Assessment

Business & Strategic Vision

- Identify community's goals for implementing a Local Digital Platform (LDP), and later a Local Digital Twin (LDT)

- Identify sectors that the community wants to invest in and that may benefit from the implementation of a LDP or LDT

Value

- Allows for a more focused roadmap, taking into consideration the community's strategic priorities that should be fostered by advancements in its digital infrastructure.

- Provides valuable insights for the European Commission on the key strategic priorities within the EU communities, which can be leveraged to inform targeted policy making in the future.

The main goal of this Assessment is to **understand a community' strategic priorities on digitalisation** as well as the key investment areas in terms of services and sectors.

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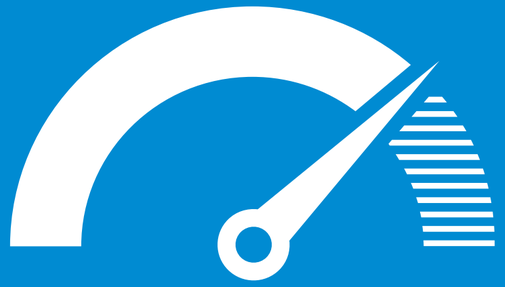
IT Infrastructure Assessment

Evaluate IT infrastructure to better infer about technical maturity, through core infrastructure capabilities that enable the development of a Local Digital Platform (and an LDT).

DIGITAL PLATFORM

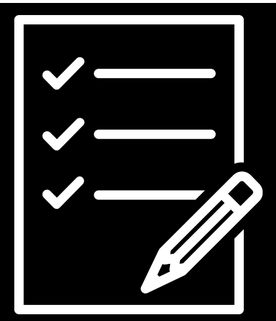


Aims to characterise the current maturity level of digital platforms/ verticals and their interoperability. It will also contribute to a better understanding of which data process mechanisms are in place and how data collection is handled

INFRASTRUCTURE

Aims to understand the infrastructure that the city/ community has in place, namely the physical and technological backbone that could support (or is already supporting) the operation of Smart City solutions, as well as the self-assessed maturity levels in core IT infrastructure capabilities

VALUE

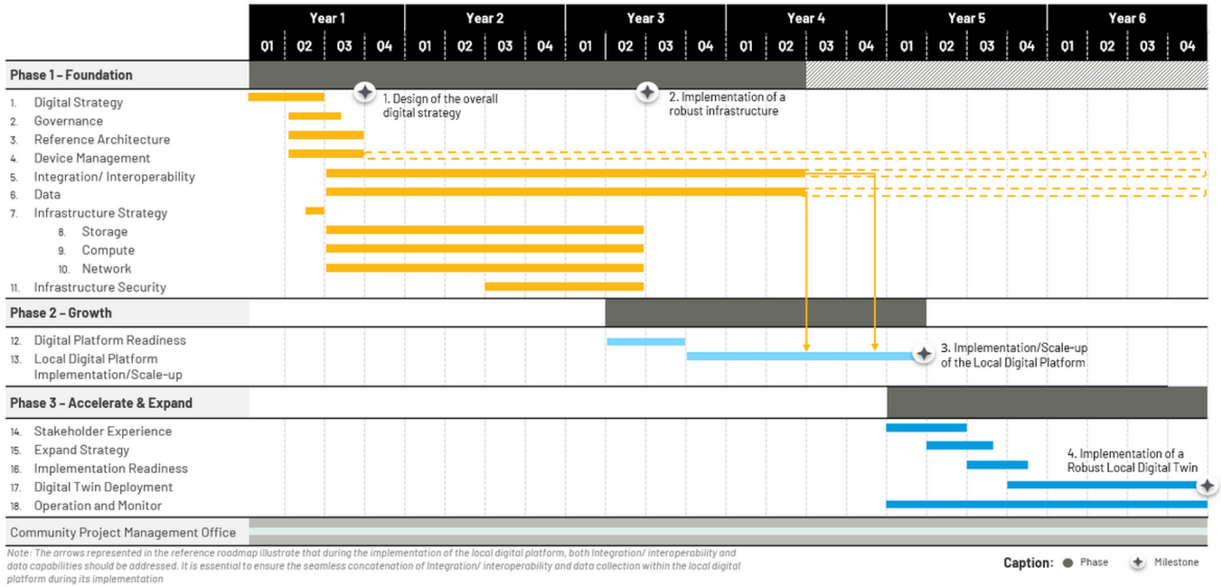


Tailored roadmap initiatives fundamental to the development of a Local Digital Platform and later a Local Digital Twin, according to the maturity of capabilities found at this stage.

Digitalisation Roadmap

- Tailored reference digitalisation roadmap for each community
- Key enablers and capabilities for a Local Digital Platform (LDP) and later a Local Digital Twin (LDT)

Overview of capabilities and enablers and correspondent reference timeline



Note: The arrows represented in the reference roadmap illustrate that during the implementation of the local digital platform, both Integration/ interoperability and data capabilities should be addressed. It is essential to ensure the seamless concatenation of integration/ interoperability and data collection within the local digital platform during its implementation

List of initiatives for each capability and/or enabler

3 Device Management

The Device Management capability entails efficient deployment, maintenance, and integration of IoT devices to enhance overall operational efficiency within the smart community ecosystem.

Main Initiatives

Device Management Strategy

1 | Review the device management strategy, including lifecycle management framework, protocols and APIs, and the KPIs

2 | Review your current IoT devices, and see if they are a good fit based on the strategic priorities and identified requirements

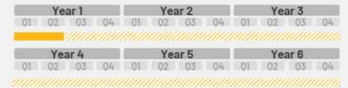
Device Installation

1 | Review current IoT devices and check their integration the current network and compliance with the policies based on your device management strategy and IT Infrastructure strategy

Device Platform

1 | Acquire and implement the chosen IoT Platform based on the IoT strategy, strategic priorities and IT Infrastructure strategy

Calendar Estimate



Procurement Objects*

- *IoT devices*
- *IoT platform*

**Interdependencies*

Not applicable

**The procurement objects provided are preliminary versions and subject to further refinement*

European Commission

Procurement Support

Identification of objects of procurement

Guidance to identify the objects of procurement needed to implement the digitalisation roadmap.

Access to procurement templates and guidelines

Access to the procurement templates & guidelines that will be published in the Online Procurement Helpdesk for Smart Communities by February 2025.

Dedicated procurement support through the Online Helpdesk

To help you understand your procurement needs based on the digitalization roadmap, navigate the procurement guidelines, and use the templates.

European Commission

Unique Added Value of Completing the Journey

Digitalisation Roadmap

- Helps **identify gaps** in the strategy towards 2030 goals.
- Makes **decision-makers aware** of gaps, needs, and investment required.
- Alignment with **EU standards** and **compliance** with regulations.

External Assistance

- Provides an **expert team** to work with communities on their strategy (City Guiding Agent)
- Accompanies them to **evaluate investment priorities.**
- Facilitates their **procurement processes** for digital solutions.

European Commission

More information about the Online Procurement Helpdesk

ONLINE PROCUREMENT HELPDESK: DEVELOPING YOUR DIGITALISATION ROADMAP

THANK YOU! GRAZZI!

Express your interest!

ANY QUESTIONS?

genoveva@serendipity.buzz
anastasia@serendipity.buzz

European Commission

After the break…

Phase 0: How to Start Your Digitalisation Journey

November 22nd 14:45 CET

Time	Session	Speaker(s)
14:45 – 14:55	**Welcome**	**Local Councils' Association**
14:55 – 15:10	**Introduction to Local Digital Twins**	**Miguel Álvarez Rodríguez |** Policy Officer, AI Office,European Commission
15:10 – 15:35	**Local Digital Twins & EU Green Deal**	**Chiara Venturini |** Head of Digital Transformation & Economic Development**,** Eurocities
15:35 – 16:00	**LORDIMAS: your digital maturity assessment**	**Genoveva Gil García |** Tech Lawyer & Project Manager, Serendipity
16:00 – 16:20	**Online Procurement Helpdesk: developing your digitalisation roadmap**	**Anastasia Sarantopoulou |** Project lead & tech law consultant, Serendipity
16:20-16:35	**Coffee Break**	
16:35–17:00	**Enabling Technologies: Open Data Platforms, Data Spaces and MIMs**	**Michael Mulquin |** MIMs Ambassador**,** OASC
17:00– 17:25	**Supporting ecosystems: Living-in.EU, European Digital Infrastructure Consortium, and Local Councils' Association**	**Gabriela Ruseva |** Living-in.EU Project Coordinator**,** Eurocities **Ernesto Faubel Cubells|** Valencia City Council and EDIC representative **Jordi Ortuño Ribé |** Barcelona City Council and EDIC representative
17:25 – 17:35	**Funding opportunities**	**Maddalena Buonamico |** Projects and Fundraising Assistant, ALL Digital
17:35 – 17:45	**Closure and Living-in.EU signatory ceremony**	**Local Councils' Association**
17:45 – 18:45	**Networking Reception**	

European Commission

ENABLING TECHNOLOGIES: OPEN DATA PLATFORMS, DATA SPACES AND MIMS

European Commission

EU DATA SPACES, OPEN DATA PLATFORMS AND LOCAL DIGITAL TWINS

Speaker:

- **Michael Mulquin,** MIMs Ambassador, Open and Agile Smart Cities and Communities (OASC)

European Commission

Open and Shareable Data

- Open data is data that **anyone can access, use and share.**

- Shareable data is data that is of value to people other than the organisation that gathered it, but whose use is restricted to certain organisations and roles within those organisations and for particular purposes.

- Most cities and communities are already providing useful open data to citizens and businesses

- The exploitation of shareable data is the next big step

European Commission

Open Data Platforms

Cities and communities have been providing increasing amounts of useful data to the citizen for many years for some of the following reasons:

- Accountability
- Saving on staff time
- Service to the citizen
- Mandates from central government

Some cities/communities are enabling other agencies to provide relevant open data on their platform for the convenience of the citizen

European Commission

The Role of Shareable Data

All these city systems generate data and require good data to work well

They all interact with each other at many levels

They therefore need to share data to help manage those interactions

Need to set up local data sharing ecosystems

European Commission

From Data Lakes to Data Spaces

- The traditional approach to manage a city data platform was to put in place a “data lake” - a **centralized repository** for a city/community administration and its partners to store all their data, static and streamed, structured and unstructured, at any scale.

- Increasingly this approach is being replaced by Data Spaces based on **data ecosystems**, defined by a sector or application, where decentralised infrastructure enables trustworthy data sharing with commonly agreed capabilities.

- Here the data continues to be held and managed by the organisation that collected it, but it is made available for wider use under clear terms and conditions

Data spaces:
The benefits - The challenges

BENEFITS

- A data space supports an existing ecosystem of organisations that are already working together to deliver on common priorities
- The individual organisations continue to hold their data, but make it available for sharing within the ecosystem

CHALLENGES

- Need to support technical interoperability
- Need to have strong governance rules – including SLAs and penalties

European Commission

The Role of the Data Space Support Centre

STARTER KIT

BLUEPRINT

GLOSSARY

CONCEPTUAL MODEL

BUILDING BLOCKS

STANDARDS

DATA SPACES RADAR

MATURITY MODEL

DATA SPACES TAXONOMY

SUPPORT PLATFORM

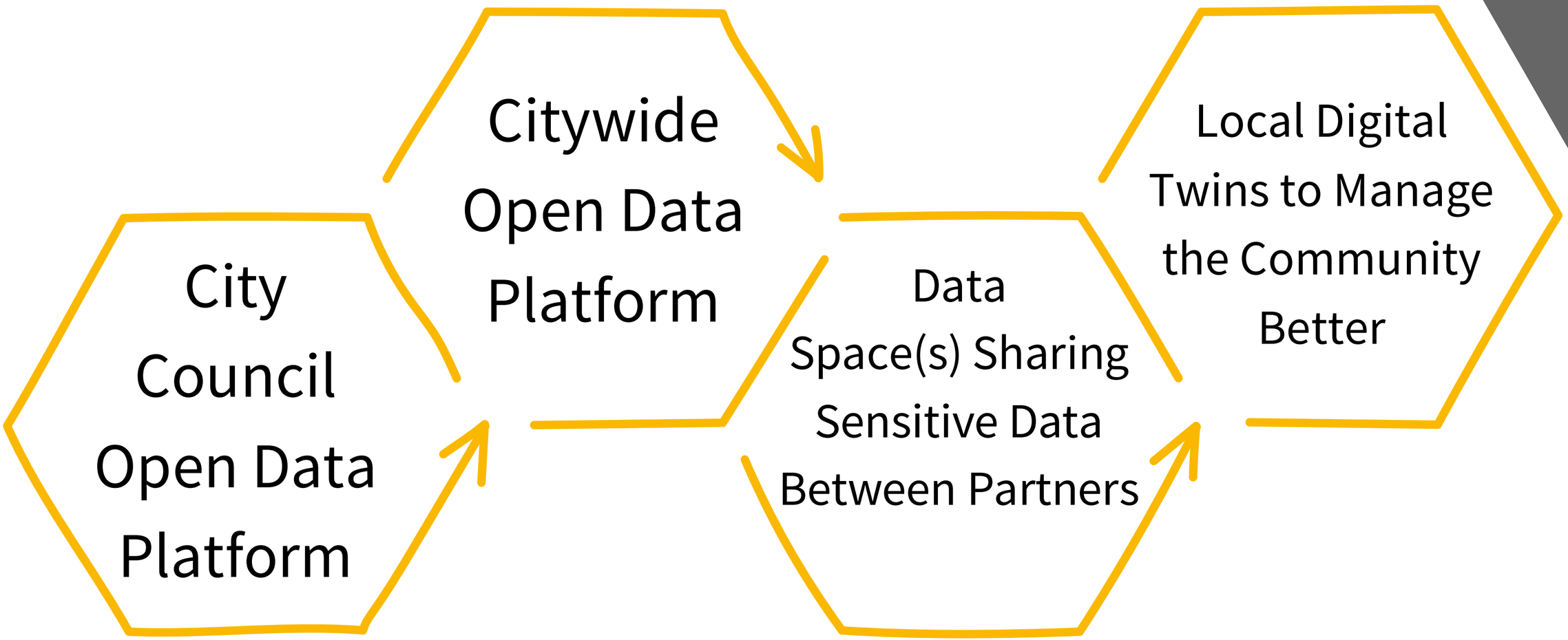
NETWORK OF STAKEHOLDERS

ANNUAL CONFERENCE

https://dataspacessupportcentre.atlassian.net/servicedesk/customer/portal/5

European Commission

The 4 Steps to LDTs



Where is your city?

What do you need to do to move forward?

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AN OPEN REFERENCE ARCHITECTURE

European Commission

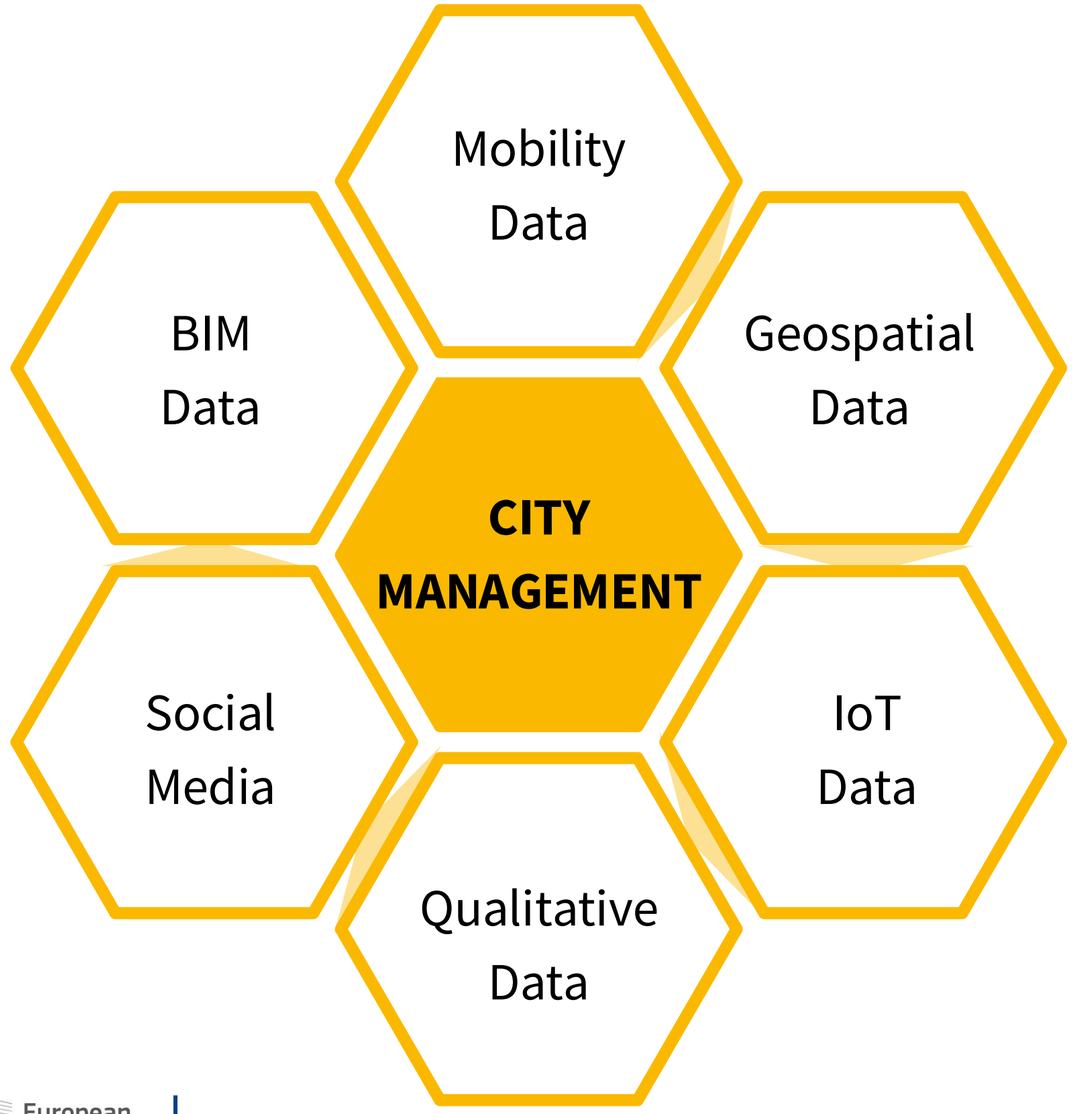
The Architecture Needs to be Open

A data sharing ecosystem in a city or community should use an open architecture that makes adding or changing components easy.

Open doesn’t mean “non-proprietary” - Windows and Android are proprietary but open. In your city you may have outsourced your IT functions and therefore may have to use proprietary methods to manage your data ecosystem. However, it still needs to have an open architecture

An open architecture is needed for the management and use of data being gathered from different agencies and using different standards-based or proprietary systems.

Many Different Types of Data are Gathered in a City



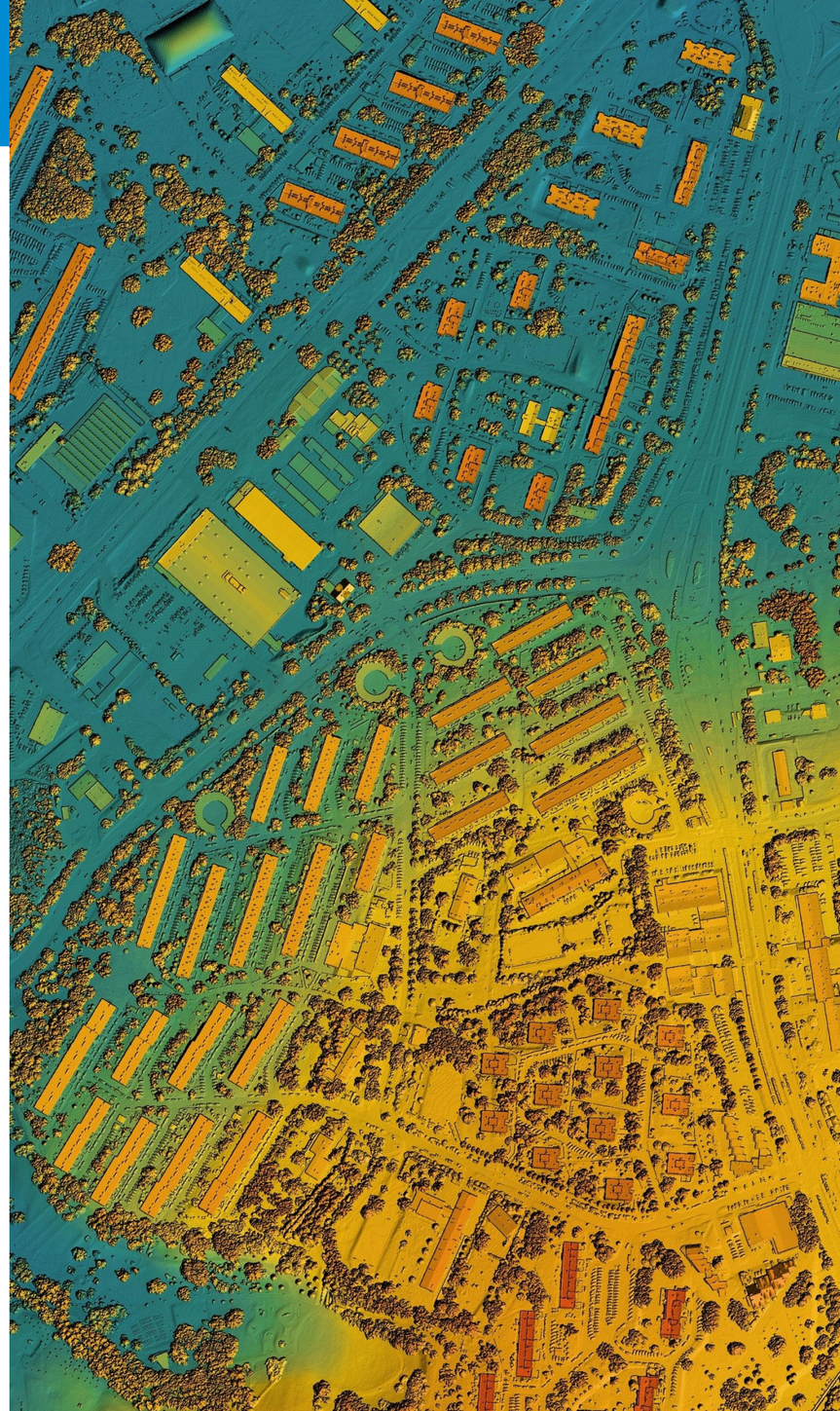
- The data is gathered by different city systems
- Each type of data enables specific types of insight
- They all have a role to play in overall city management

Mix & Match Solutions are Needed

For example, the city administration may use:

- Geospatial data standards for data where there is a need to describe precisely positions and areas,
- Building Information Modelling standards to describe aspects of the built environment,
- NGSI or other standards to bring information together about services.

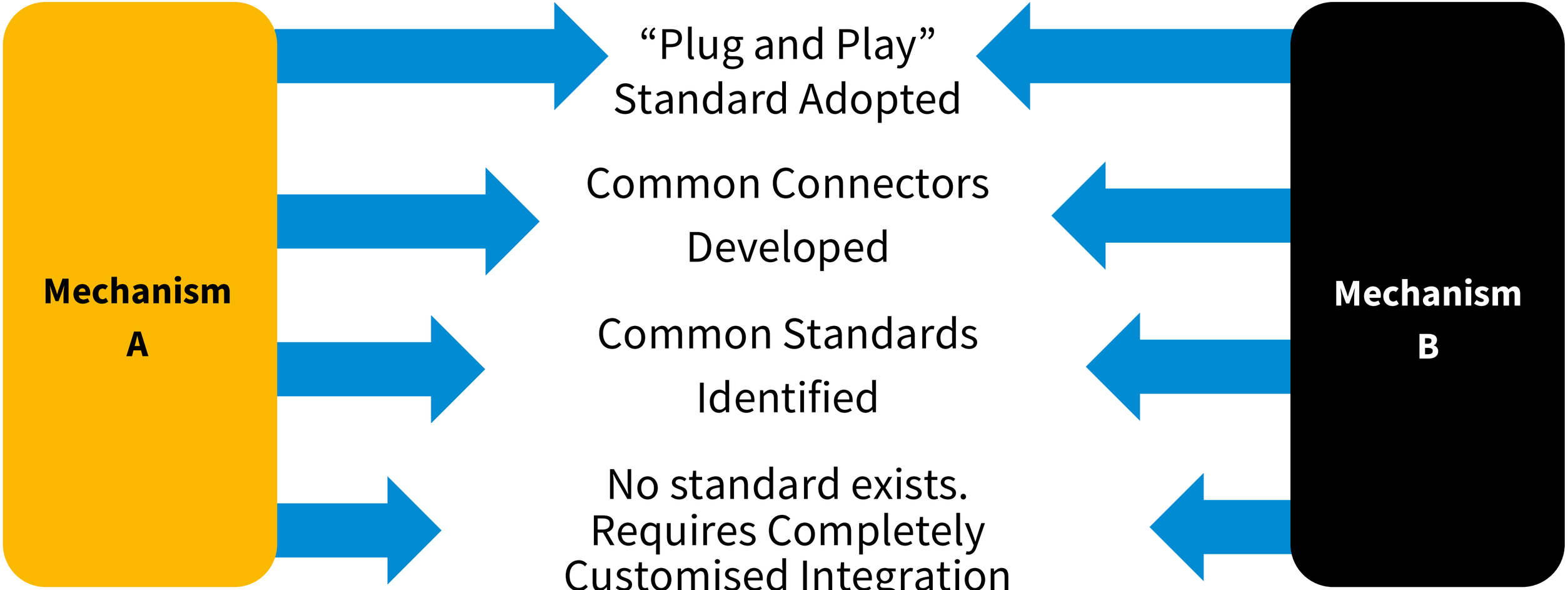
To tackle urban issues, cities need to be able access & combine information from all these types of data



Minimal Interoperability

- Cities don’t need to combine all the information held within each type of dataset – just the minimal but “good enough” for their purposes,
- Cities need “work arounds” to help them gather and combine the information they need from data collected using different standards
- The Minimal Interoperability Mechanisms (MIMs) aim to provide guidance on enabling good-enough interoperability between them, so that they can be used together to provide the key insights a city or community needs

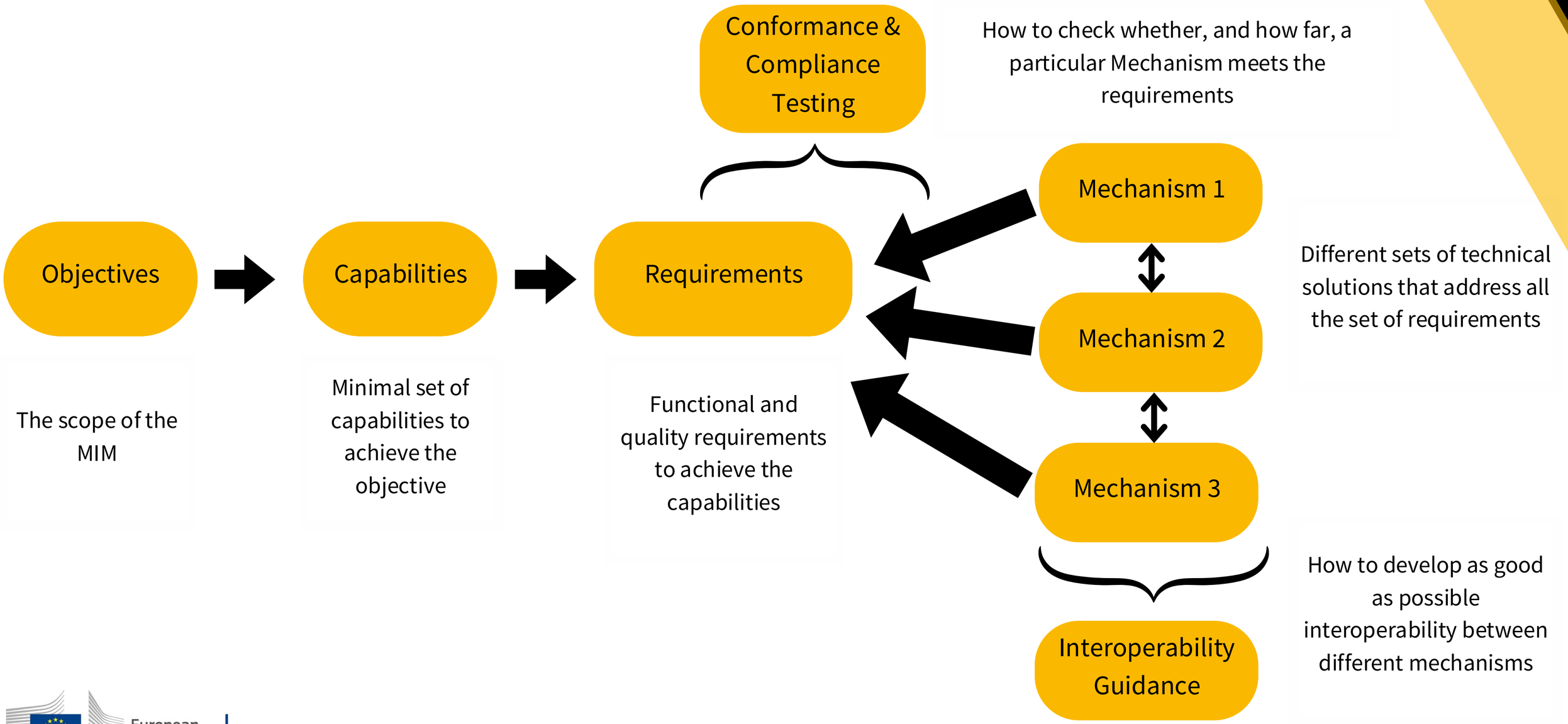
Degrees of Interoperability



MIMs Under Development

MIM	SUBJECT	NAME
MIM1	CONTEXT	Context information Management
MIM2	DATA MODELS	Shared Data Models
MIM3	CONTRACTS	Ecosystem Transactions Management
MIM4	TRUST	Personal Data Management
MIM5	TRANSPARENCY	Fair Artificial Intelligence
MIM6	SECURITY	Security Management
MIM7	PLACES	Geospatial Information Management
MIM8	INDICATORS	Ecosystem Indicator Management
MIM9	ANALYTICS	Data Analytics Management
MIM10	RESOURCES	Resource Impact Assessment

The Format for Each MIM



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The Aim

By identifying the key capabilities needed for data sharing and translating these into requirements, it becomes possible to identify and compare alternative mechanisms to address those requirements.

It also becomes easier to identify commonalities in these approaches – are they using common, more basic, standards, for instance that can be used as the basis for good-enough interoperability

And to identify the common interfaces across which open APIs can be used

Procurement and Minimal Interoperable Mechanisms

•When procuring solutions, it is difficult to be too prescriptive as this may eliminate new, creative or cost-effective solutions

•However, it is important to ensure sufficient consistency with standardised approaches to ensure that interoperability can be maintained

•The MIMs provide specifications that support minimal but good enough interoperability and thus enable more innovative and cost-effective offerings from vendor

We are developing a set of self-assessment and technical tools to help you check that your implementation conforms to the MIMs, and that products and services offered by vendors comply with the MIMs requirements

For more information:

See the MIMs Plus documentation on the Living-in.eu website

Be aware that MIMs version 7.0 is about to be published on the Living-in.EU website

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In Summary

An open architecture is needed to enable the use and sharing of many different types of data coming from many different agencies

The architecture needs to support the MIMs, which set minimal requirements for applications to make it easier to enable good-enough interoperability between them

The MIMs support the procurement of solutions that allow innovative offerings from vendors while supporting effective interoperability and avoiding vendor lock-in

The Journey

WHY

Discovery Phase

Unlocking the potential of digitalisation

Learn about Local Digital Twins' foundational concepts, their role in urban decision-making, and how they support the EU Green Deal's sustainability objectives through practical examples and case studies.

HOW

Planning Phase

Laying the foundation of your digital journey

Learn about LORDIMAS for assessing digital maturity and developing an implementation roadmap to advance digitalisation, including the role of open data platforms and procurement support.

SUPPORT

Empowerment Phase

Empowering your digital transformation

Explore ecosystems and funding opportunities to accelerate your community's digital transformation through collaboration and financial support.

European Commission

SUPPORTING ECOSYSTEMS: LIVING-IN.EU & EDIC

European Commission

SUPPORTING ECOSYSTEMS: LIVING-IN.EU

Speakers:

- **Gabriela Ruseva,** Governance of Living-in.EU Project Coordinator, Eurocities
- **Jordi Ortuño Ribé,** Barcelona City Council and European Digital Infrastructure Consoritum LDT CitiVerse Representative
- **Ernesto Faubel Cubells,** Valencia City Council and European Digital Infrastructure Consoritum LDT CitiVerse Representative

European Commission

What is Living-in.EU?

Living-in.EU is an **EU initiative** for local and regional leaders who recognize the **potential of technology** to enhance the quality of life in their towns, cities, or regions. The initiative fosters European **cooperation** and upholds European values, enabling cities and regions to **share smart city strategies**, and **re-use solutions** to avoid working in isolation.

Declaración sobre aunar esfuerzos para
impulsar una transformación digital sostenible
en las ciudades y comunidades de la UE.

LIVING-IN.EU

European
Commission

Why join Living-in.EU?

Know

Stay connected and informed about the latest advancements in data spaces, interoperability, local digital twins, and more.

Share

Collaborate, share knowledge, and access a wealth of resources and solutions designed to accelerate digital transformation.

Use

Access tools and services such as the support services and the helpdesk we are presenting today, the technical standards, assessment tools, procurement templates, etc.

How to join?

Step 1

Mayor, deputy mayor or responsible city councillor needs to sign the Join, boost, sustain declaration

Step 2

Upload the signed declaration on https://living-in.eu/user/register/signatory

SCAN ME

Step 3

Anyone from the city administration can register as a member on https://living-in.eu/user/register/member

Step 4

Start using the resources and join the meetings and training sessions

Step 5

Join the working groups on https://living-in.eu/groups/commitments

European Commission

LIVING-IN.EU

Invitation to join Living-in.EU

We are pleased to invite you to support the Living-in.EU movement, especially if you are already participating in the Online Procurement Helpdesk.

The procurement helpdesk is an integral component of the Living-in.EU initiative, and your city stands to benefit significantly from joining this collaborative effort!

Local Councils' Association can facilitate your participation and support you in using the resources offered!

Assoċjazzjoni Kunsilli Lokali
Local Councils' Association Malta

European Commission

LIVING-IN.EU

SUPPORTING ECOSYSTEMS: LDT CITIVERSE EDIC

Speakers:

- **Gabriela Ruseva,** Governance of Living-in.EU Project Coordinator, Eurocities
- **Jordi Ortuño Ribé,** Barcelona City Council and European Digital Infrastructure Consoritum LDT CitiVerse Representative
- **Ernesto Faubel Cubells,** Valencia City Council and European Digital Infrastructure Consoritum LDT CitiVerse Representative

European Commission

EDIC CitiVERSE:

Enabling Digital Twins on cities through EU LDT Toolbox

European Commission

AJUNTAMENT DE VALÈNCIA

GOBIERNO DE ESPAÑA

LDT Citiverse EDIC

European Digital Infrastructure Consortium

- ✓ ***Legal framework***
- ✓ ***Multi-country projects***
- ✓ ***Digital infrastructure***

LDT Citiverse EDIC

European Digital Infrastructure Consortium

➢ *WHY*

- To create a common & **sustainable European infrastructure**
- To go **beyond research**
- To **avoid repetitions**
- To deploy **large-scale** innovative projects and technologies
- To provide **recommendations** for future R&D&I in SCC
- To create a **solid EU ecosystem** on SCC

➢ *WHO*

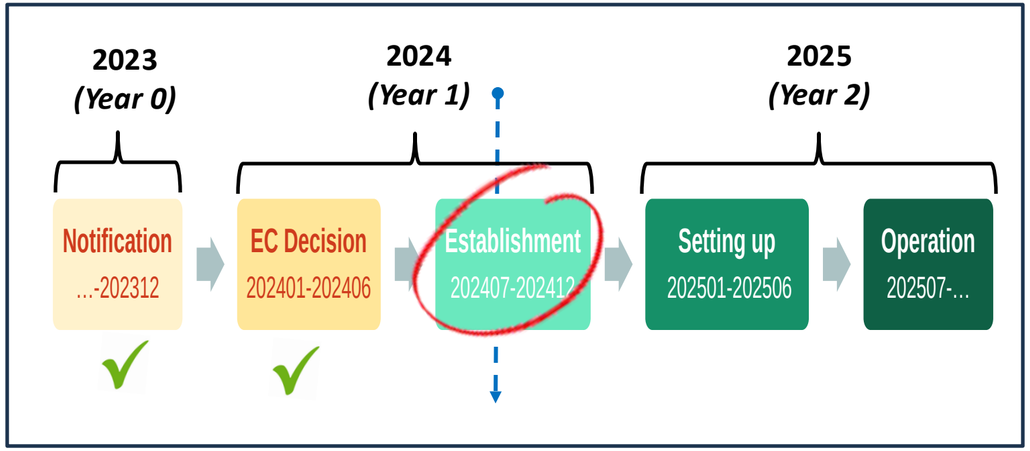
- ***Signatory Member States:*** Spain, Slovenia, Estonia, Latvia, Croatia, Portugal, France, Czech Republic , Luxembourg, Belgium, Slovakia, Italy, The Netherlands
- **Cities**
- **Observers and sponsors**

LDT Citiverse EDIC

European Digital Infrastructure Consortium

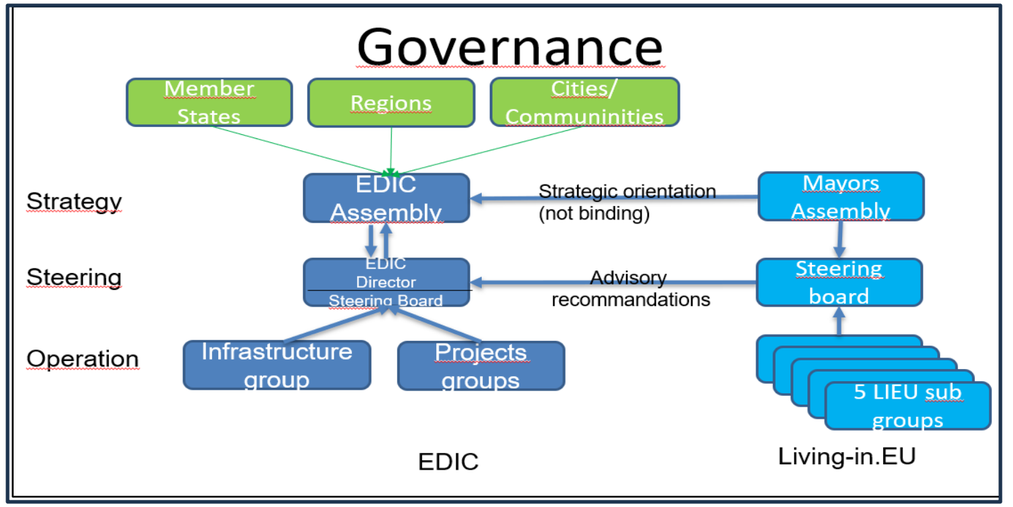
➢ *Process*

- Notification to European Commission in December 2023
- Approved set up 1st Feb 2024 (OJEU 7th Feb)
- Implementation process in Valencia (site)
- Letter of Interest (cities)
- **1st General Assembly Decembre 2024 (TBD)**



➢ *With whom*

- Synergies with other EU initiatives: Living-in.eu, EDIH, Scalable cities, TEFs (AI), National Networks: (Innpulso, RECI), International Networks



LDT Citiverse EDIC

European Digital Infrastructure Consortium

EU LDT TOOLBOX

Powered by DG CNECT

EU LDT Toolbox: An advanced set of tools to enable digital twins benefits on EU cities.

3 simple steps to enable the benefits of a Digital Twin to support your decision-making and planning processes effectively.

Being implemented and will start the Pilot Program with 6 European cities in January 2026

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EDIC CitiVERSE:

Enabling Digital Twins on cities through EU LDT Toolbox

Thanks !!

European Commission

AJUNTAMENT DE VALÈNCIA

GOBIERNO DE ESPAÑA

FUNDING OPPORTUNITIES

European Commission

FUNDING OPPORTUNITIES

Speaker:

Maddalena Buonamico, Projects and Fundraising Assistant, ALL Digital

European Commission

EU FUNDING OPPORTUNITIES

Maddalena Buonamico

Projects and Fundraising Assistant

ALL DIGITAL

ENHANCING DIGITAL SKILLS ACROSS EUROPE

EU programmes

All EU citizens can apply for EU funding. The EU has several different funding programmes that you may be able to apply for, depending on the nature of your business or project. Funding opportunities are also available through programmes that will be implemented directly by Member States, such as the Recovery and Resilience Facility or the Just Transition Fund. Before applying for funding, always consult the call guidelines to see if you are eligible.

40 items found

Filter...

- **Asylum, Migration and Integration Fund** — AMIF2027
- **Border Management and Visa Instrument** — BMVI
- **Citizens, Equality, Rights and Values programme** — CERV
- **Connecting Europe Facility** — CEF2027
- **Creative Europe** — CREA2027
- **Customs Control Equipment Instrument** — CCEI
- **Customs Programme** — CUST
- **Digital Europe Programme** — DIGITAL
- **Erasmus+ Programme** — ERASMUS2027
- **EU Anti-fraud Programme** — EUAF
- **EU External Actions** — RELEX
- **EU Renewable Energy Financing Mechanism** — RENEWFM
- **EU4Health Programme (EU4H)** — EU4H
- **Euratom Research and Training Programme** — EURATOM2027
- **EUROPE DIRECT** — ED
- **European Defence Fund** — EDF
- **European Maritime Fisheries and Aquaculture Fund** — EMFAF
- **European Parliament (EP)** — EP
- **European Social Fund +** — ESF
- **European Solidarity Corps** — ESC2027
- **Fiscalis Programme** — FISC
- **Horizon Europe** — HORIZON
- **IMCAP** — IMCAP2027
- **Information Measures for the EU Cohesion policy** — IMREG

FUNDING PROGRAMMES

The EU has several different funding programmes that you may be able to apply for, depending on the nature of your business, organization, institution or project.
[Link to access the portal]

Asylum, Migration and Integration Fund (AMIF)

Citizens, Equality, Rights and Values Programme (CERV)

Creative Europe (CREA)

Erasmus+

· A L L · D I G I T A L ·
ENHANCING DIGITAL SKILLS ACROSS EUROPE

Interreg Europe

Interreg Med

Horizon Europe (HORIZON)

Digital Europe

AMIF

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Website and **Calls**

Work Programme

Objectives:

1. Strengthen and develop **the common European asylum system**
2. **Support legal migration** to the Member States, including the **integration of third-country nationals**
3. **Counter irregular migration** and ensuring **effectiveness of return** and readmission in third countries
4. **Enhance solidarity and responsibility sharing between the Member States**, in particular towards those most affected by migration

Funded Actions:

- **Early integration programmes** focusing on education, language and other training
- **Infrastructures** for the reception
- New systems for safe and voluntary return

CERV

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Website and **Calls** **Work Programme**

Pillars:

1. **Equality, Rights and Gender Equality** - promoting rights, non-discrimination, equality (including gender equality), and advancing gender and non-discrimination mainstreaming
2. **Citizens' engagement and participation** - promoting citizens engagement and participation in the democratic life, and raising awareness of the common European history
3. **Daphne** - fight violence, including gender-based violence and violence against children
4. **Union values** - protect and promote Union values

CREA

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Website and Calls

Work Programme

Objectives:

- **Support the Creative and Cultural sector** to reach their economic potential, contributing to sustainable growth, jobs and social cohesion
- Promote the **competitiveness and innovation of the European audiovisual industry** and access new international opportunities, markets, and audiences;
- Promote **cross-sectoral innovative actions** and diverse, independent and pluralistic media.

Structure:

- The **CULTURE Strand** helps cultural and creative organisations to operate transnationally
- The **MEDIA Strand** supports the EU film and audiovisual industries financially
- The **CROSS-SECTORAL Strand** addresses common challenges and opportunities

Objectives: Support the educational, professional and personal development of people in

- **Education,**
- **Training,**
- **Youth and**
- **Sport**

Contribute to sustainable growth, quality jobs and social cohesion, to drive innovation and to strengthen European identity and active citizenship.

Main Actions

- Encouraging **young people** to take part **in European democracy**
- Promoting **adult learning**
- Contribute to **reducing unemployment,**
- Reducing **early school leaving**
- Promoting cooperation and **mobility** with the EU's partner countries
- Developing the European dimension in sport.

HORIZON

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Website and Calls

Work Programme

Objectives:

- **Strengthen** the **EU's scientific and technological bases and** the **European Research Area** (ERA)
- **Boost** Europe's **innovation** capacity, **competitiveness** and **jobs**
- Deliver on **citizen's priorities** and sustain our **socio-economic model and values.**

Pillar 1
Excellent Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures

Pillar 2
Global Challenges and European Industrial Competitiveness

Clusters:

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

Pillar 3
Innovative Europe

European Innovation Council

European Innovation ecosystems

European Institute of Innovation and Technology (EIT)

Read the EIT Single Programming Document

INTERREG

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Website and Calls

Work Programme

Objectives:

- Support **interregional learning** among policy relevant organisations **across Europe.**
- Enable public authorities and other to learn from other regions: identifying, analysing and transferring **good practices.**
- Improving **regional development, policy instruments**, delivering solutions that benefit all citizens.

Main Actions:

- **Partnerships of policy-relevant organisations** to **exchange experience on a shared regional development issue.**
- **A Policy Learning Platform: Space** for continuous or on demand learning where organisation dealing with regional development policies can find **solutions and** request **expert support.**

INTERREG MED

ALL · DIGITAL

Website and Calls

Work Programme

The **Main Objective** is to promote sustainable growth in the Mediterranean area by:

- Fostering **innovative** concepts and **practices** and a reasonable use of resources
- Supporting **social integration** through an integrated and territorially based cooperation approach.

Innovative sustainable economy

Natural heritage

Green living areas

Sustainable tourism

Digital Europe

ALL · DIGITAL

Website and **Calls** | **Work Programme**

It supports projects in key capacity areas such as:

- **supercomputing,**
- **artificial intelligence,**
- **cybersecurity,**
- **advanced digital skills.**

DEP supports industry, small and medium-sized enterprises (SMEs), and public administration in their digital transformation

Funds for Technical Services

- **Connecting Europe Facility** to enhance EU connectivity and infrastructure by funding projects that develop and modernize digital networks.

- **Technical Support Instrument (TSI)**, which offers Member States a unique service to help them tackle reform challenges, including but not limited to climate action, digital transition and health.

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ENHANCING DIGITAL SKILLS ACROSS EUROPE

Thank you!

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SCAN ME

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www.all-digital.org

European Commission

CLOSING

European Commission

Call to Action: Reminder

1

Prepare your strategy to implement Local Digital Twins

2

Join the Living-in.EU movement

3

Evaluate your digital maturity with LORDIMAS

4

Discover the MIMs Plus to start building your Open Data Architecture Framework

5

Apply to the EU Mission Cities: Twin Cities Programme

6

Express your interest to participate to the Online Procurement Helpdesk

DISCOVER
Online Training 1
Q1 2025

PLAN
Online Training 2
Q1 2025

EMPOWER
Online Training 3
Q1 2025

European Commission

We Appreciate Your Feedback

Your feedback

European Commission

LIVING-IN.EU SIGNATORY CEREMONY

European Commission

LIVING-IN.EU

Reġjun Punent

Western Region

Mr Sandro Azzopardi, President

Ms Tania Farrugia, Executive Secretary

European Commission

LIVING-IN.EU

Reġjun Port

Port Region

Ms Lianne Cassar, Executive Secretary

European Commission

Funded by
the European Union

LIVING-IN.EU | GO-LI.EU

EUROCITIES

OPEN & AGILE SMART CITIES

European Network of Living Labs

ERRIN European Regions Research and Innovation Network

CCRE CEMR

European Commission

European Committee of the Regions

INCREASING DIGITALISATION AWARENESS & READINESS OF MALTESE COMMUNITIES

in collaboration with

Assoċjazzjoni Kunsilli Lokali
Local Councils' Association Malta

Grazzi ħafna!

European Commission

Deloitte. Capgemini OASC OPEN & AGILE SMART CITIES & COMMUNITIES technopolis group imec embracing a better life EUROCITIES ICLEI Local Governments for Sustainability EUROPE serendipity