

















Session Moderators



Dr. Bettina Distel

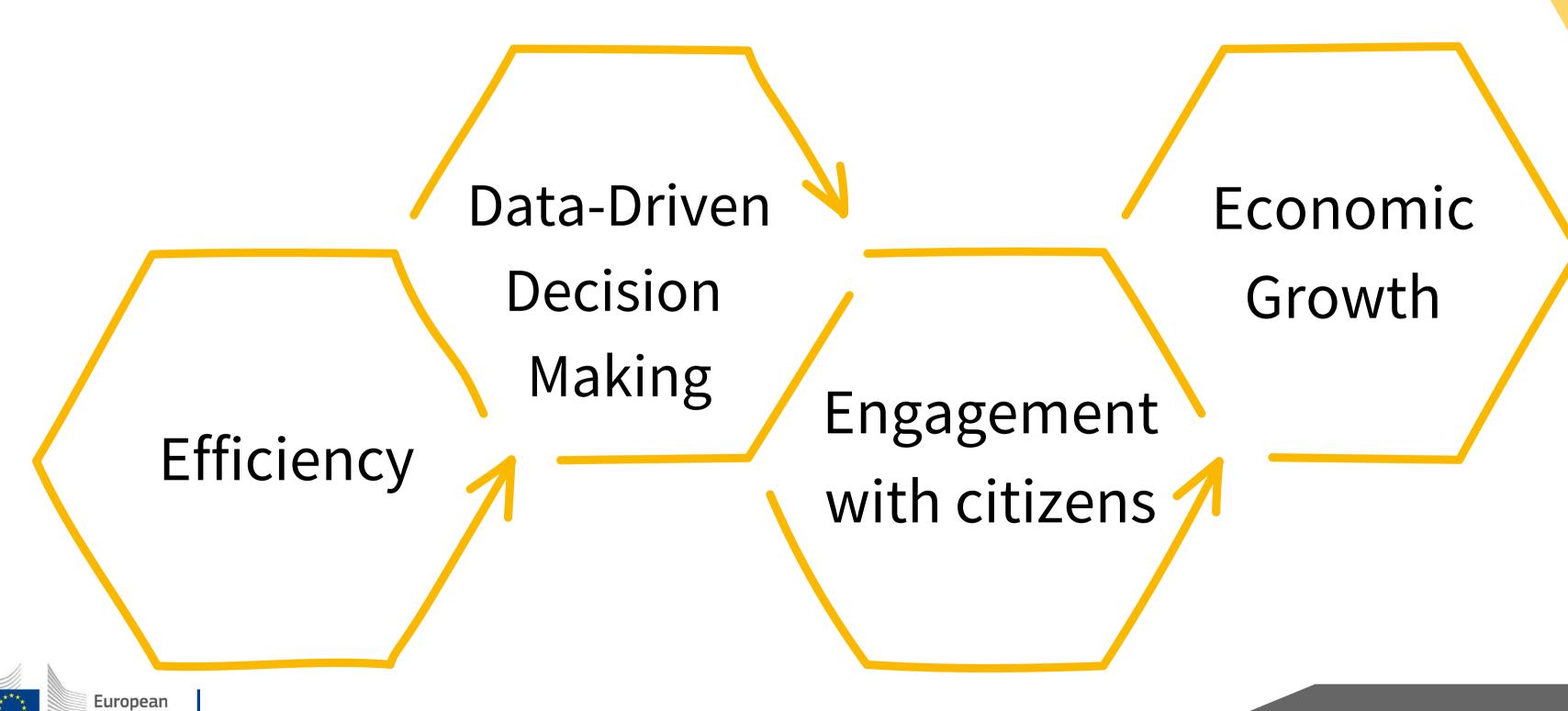
Bundesinstitut für Bau-, Stadtund Raumforschung (BBSR) **Christopher Aguilar**

Serendipity



Context

Quality of life in our cities depends on better services and operations (mobility, waste management, environment, urban planning..). Use advanced technologies brings in:



Main Objective of the Conference

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.





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.

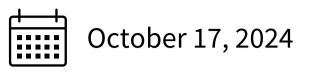
The goal is to make sure communities know and utilise these resources and communities available at European level such as <u>Living-in.EU</u>, <u>LORDIMAS</u>, <u>European data space for smart communities</u>, the <u>Online Procurement Helpdesk</u>, the Local Digital Twin Toolbox or the <u>LDT EDIC</u>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





Detailed Agenda Overview

Phase 0: How to Start Your Digitalisation Journey





10:00

TIME	TOPIC	SPEAKER
10:00 - 10:05	Welcome	Dr. Bettina Distel Federal Institute for Reasearch on Building Urban Affairs and Spatial Development
10:05 - 10:15	Introduction to Local Digital Twins	Dr. Bettina Distel Federal Institute for Reasearch on Building Urban Affairs and Spatial Development
10:15 - 10:30	Local Digital Twins and their Role in Achieving EU Green Deal Objectives	Felix Hörmann Connected Urban Twins
10:30 - 10:45	Assessing Your Digital Readiness with LORDIMAS	Jörg Rainer Noening City of Dresden
10:45 - 11:00	Developing Your Implementation Roadmap	Jörg Rainer Noening City of Dresden Christopher Aguilar Serendipity
11:00 - 11:15	Supporting Ecosystems and Collaborations	Luca Kerscher EuroCities / Living-in.EU
11:15 - 11:30	Q&A and Closing Remarks	Dr. Bettina Distel Federal Institute for Reasearch on Building Urban Affairs and Spatial Development



The Journey



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.



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.



Empowerment Phase

Empowering your digital transformation

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





DR. BETTINA DISTEL

Bundesinstitut für Bau-, Stadt- und Raumforschung (BBSR)

Dr. Bettina Distel ist wissenschaftliche Projektleiterin im Bundesinstitut für Bau-, Stadt- und Raumforschung im Bundesamt für Bauwesen und Raumordnung.

Ihre Expertise umfasst die Themen Smart Cities, Verwaltungsdigitalisierung, insb.

Public Service Innovation, und sozialer Zusammenhalt in der digitalen Gesellschaft,

insb. Vertrauen.

Zuvor war sie als wissenschaftliche Mitarbeiterin und akademische Rätin am Institut für Wirtschaftsinformatik der Universität Münster tätig, wo sie 2018 zudem promoviert hat.

Bettina Distel ist Mitglied im Nationalen E-Government Kompetenzzentrum

NEGZ e. V., einem Netzwerk aus Expert*innen zur

Verwaltungsdigitalisierung aus Verwaltung, Wissenschaft und

Wirtschaft, sowie der Digital Government Society, einem

internationalen Expert*innen-Netzwerk.

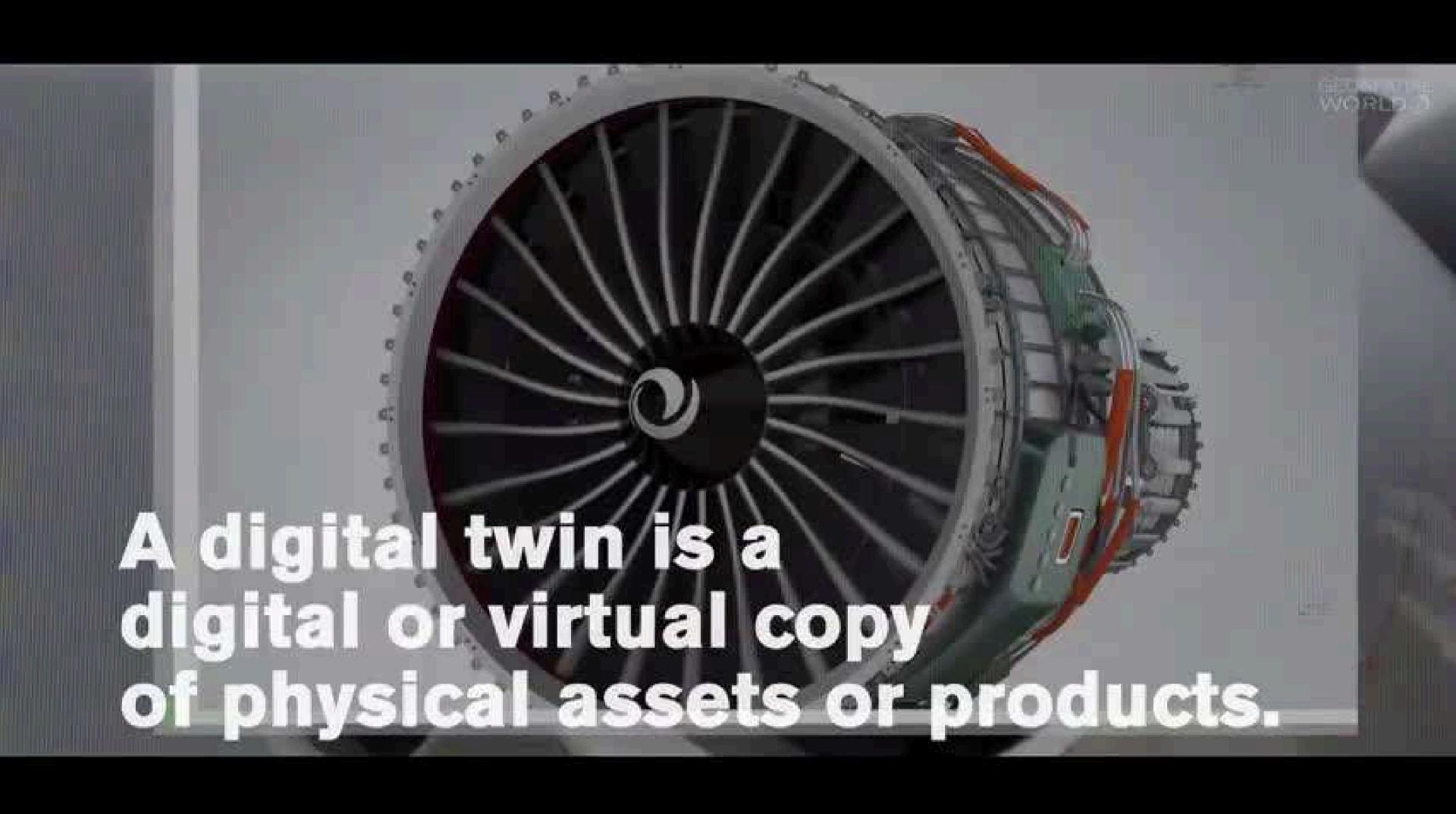


What is a Local Digital Twin?

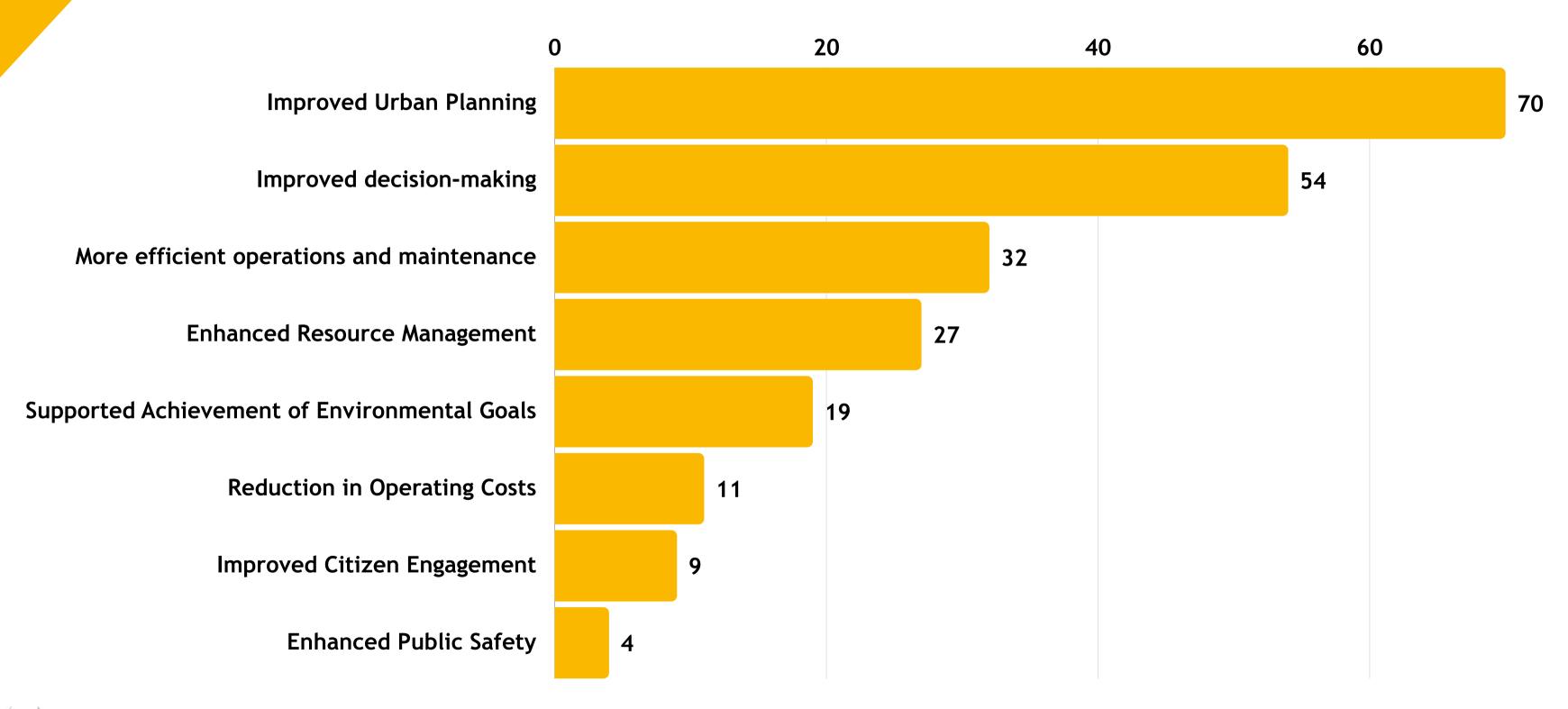
A <u>Digital Twin</u> is a continuous learning digital copy of real-world assets, systems and processes...







What Are LDTs Used For?





1

Urban Planning / Zoning / Development

Land use
Building footprints
Shadow and wind patterns



Urban Planning / Zoning / Development

Asset & Infrastructure Management

Land use
Building footprints
Shadow and wind patterns
Asset tagging
IoT Sensors
Infrastructure data



Urban Planning / Zoning / Development

Asset & Infrastructure Management

Environmental & Climate Monitoring

Land use
Building footprints
Shadow and wind patterns

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IoT Sensors

Infrastructure data

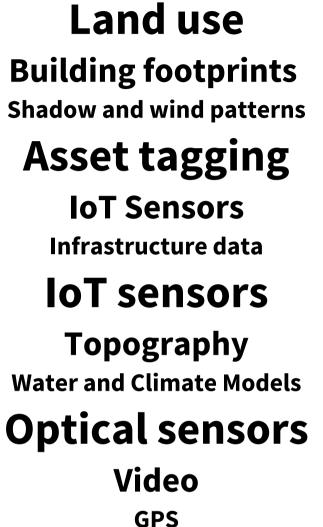
IoT sensors

Topography

Water and Climate Models



Urban Planning / Zoning / Development Asset & Infrastructure Management **Environmental & Climate Monitoring** Public Safety and Crowd Dynamics



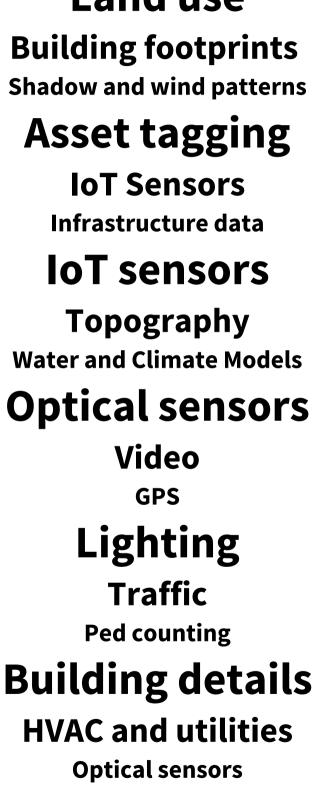


Urban Planning / Zoning / Development Asset & Infrastructure Management **Environmental & Climate Monitoring** Public Safety and Crowd Dynamics 5 Transportation and Pedestrian Planning

Land use **Building footprints Shadow and wind patterns Asset tagging IoT Sensors** Infrastructure data IoT sensors **Topography Water and Climate Models Optical sensors Video GPS** Lighting **Traffic Ped counting**



Land use Urban Planning / Zoning / Development Asset & Infrastructure Management **Environmental & Climate Monitoring** Public Safety and Crowd Dynamics 5 Transportation and Pedestrian Planning 6 Facilities Management





Urban Planning / Zoning / Development Asset & Infrastructure Management Environmental & Climate Monitoring 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** Infrastructure data IoT sensors **Topography 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







Unique Value Proposition of LDTs







Felix Hörmann Connected Urban Twins

Information about the speaker





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.



Climate Neutral and Smart Cities Mission

- 112 climate-neutral and smart cities by 2030. 7 German cities (Berlin, Dortmund, Dresden, Frankfurt, Mannheim, Munich, Münster)
- 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













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















National Examples



Local City Name (MUNICH)



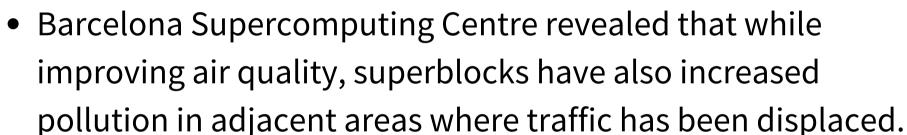


European Examples



Barcelona's Superilles (Success story)

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



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.

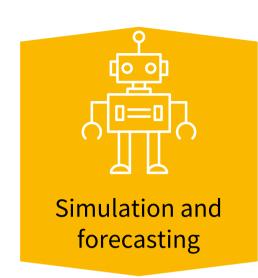


Tracking



DUET Project in Flanders (success story)

- 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, rather than reality, and avoid unexpected effects of policies.

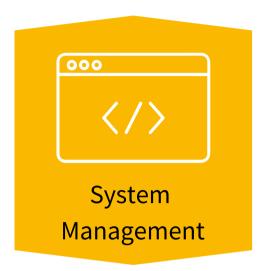




RUGGEDISED Project in Rotterdam

(success story)

 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.





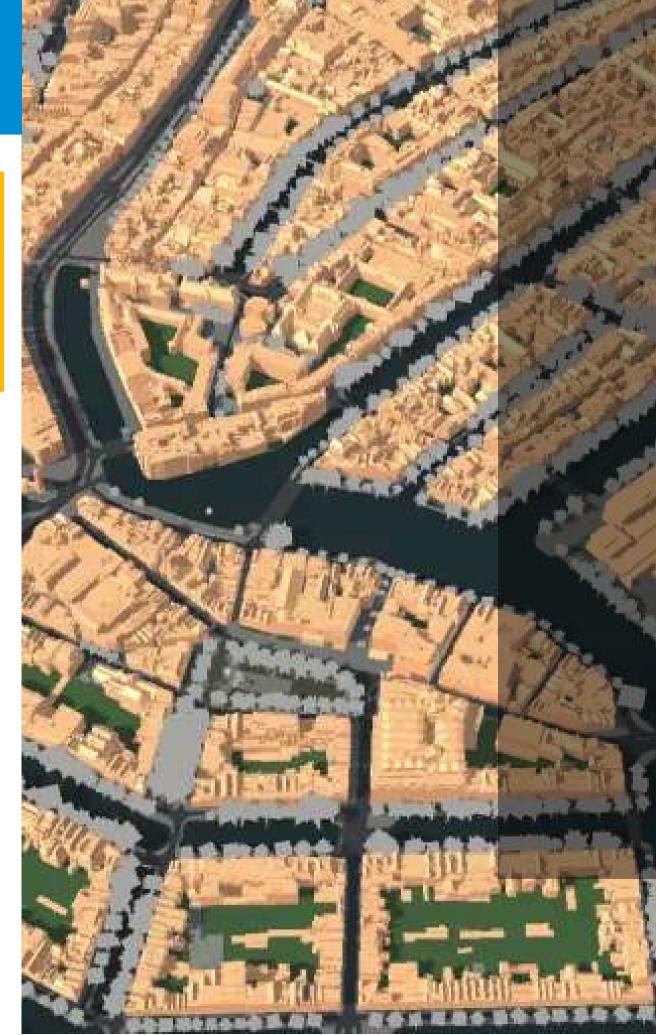
Utrecht and Amsterdam's 3D Platforms (Success story)

 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.



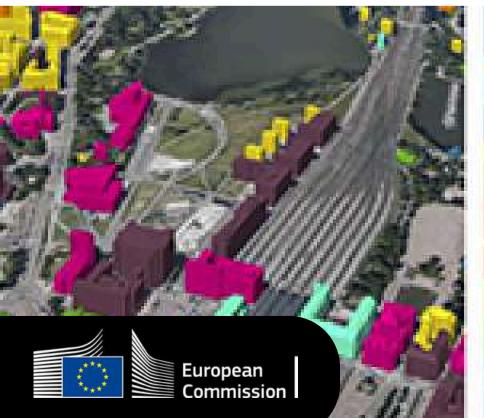


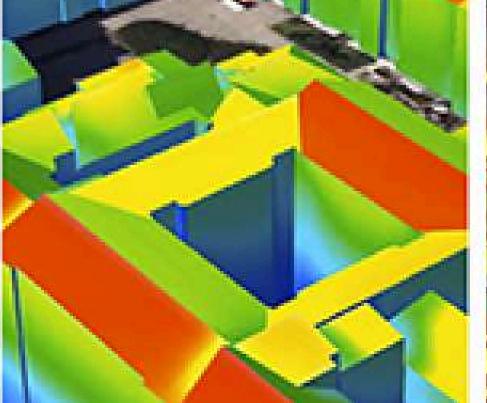
Helsinki 3D+ Energy and Climate Atlas

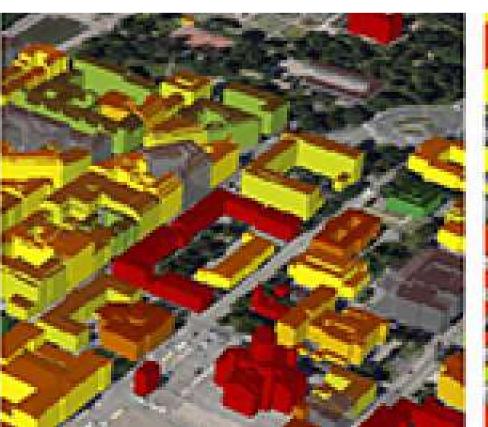
- The Helsinki Energy and Climate Atlas is a free browser service based on the 3D City Models, and it contains information about renewable energy and possibilities for energy renovations throughout the Helsinki region.
- It contains a large amount of building-specific information, energy and refurbishment information, as well as information about the consumption of water, district heating and electricity.

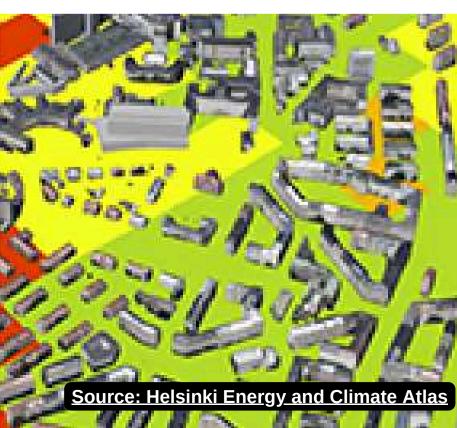


This technology allows the city and residents to see the indicative energy consumption estimate for nearly every building, and includes information about how much solar radiation energy the surfaces receive on an annual and monthly basis.









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Christopher Aguilar Serendipity

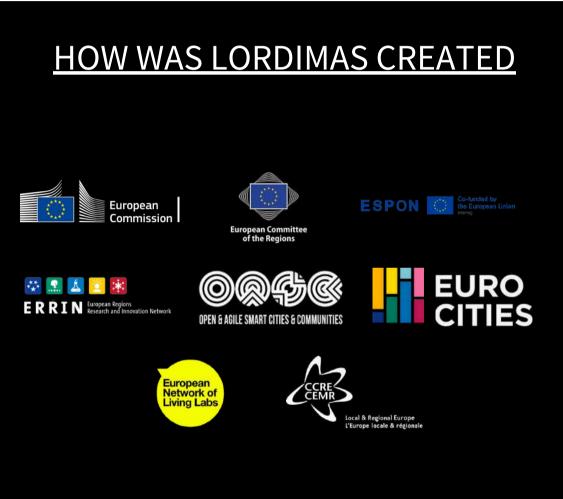
Information about the speaker





The LORDIMAS Tool

An interactive tool helping local and regional governments to understand where they are in their digital transformation journey







A collaborative process with many stakeholders engaged in its creation and its deployment.

Rooted in the discussions that are currently taking place within the Living-in.EU and topics with direct linkages with the Digital Europe Programme.

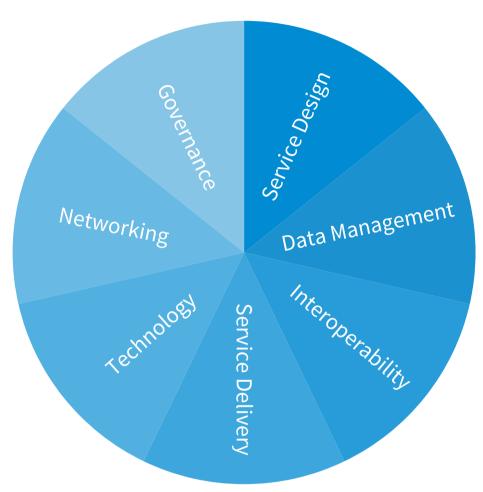
A wide range of cities, municipalities and regions at different stages of their digital transformation journey.



The Use Case for LORDIMAS

Dimensions of the tool

7 self-assessment dimensions



6 levels of maturity

Digital Native Digitally Optimized

Digitally Purposeful

Digitally Emerging Digitally Emerging Digitally Nascent

European Commission

Functionalities

Evaluate: A tool to help you assess your digital maturtiy and monitor progress made towards digital transition.

Compare: An interactive dashboard to benchmark your city to other similar cities.

Share: A repository of good practices to showcase your initiatives and results and to draw inspiration from other cities.

Learn: Learn about emerging topics and receive policy advice.

Questions it Helps Answer

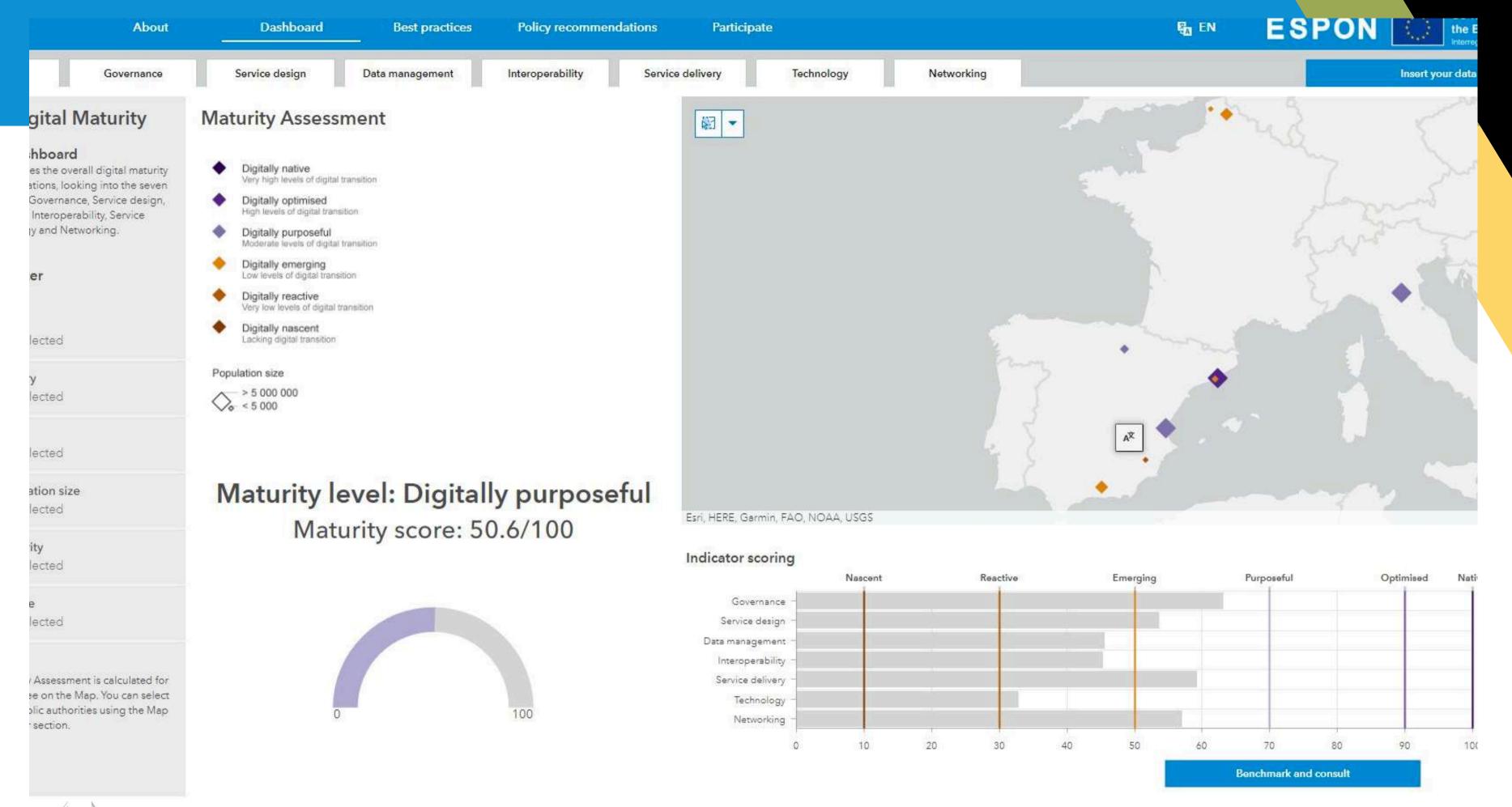
- Is my city above/below the EU median?
- How do I rank compared to other cities of similar size, urban/rural cities, cities in my country?
- Are there dimensions that my city over/under performs compared to the median?
- What are my city's progresses towards digital maturity?

Facilitates

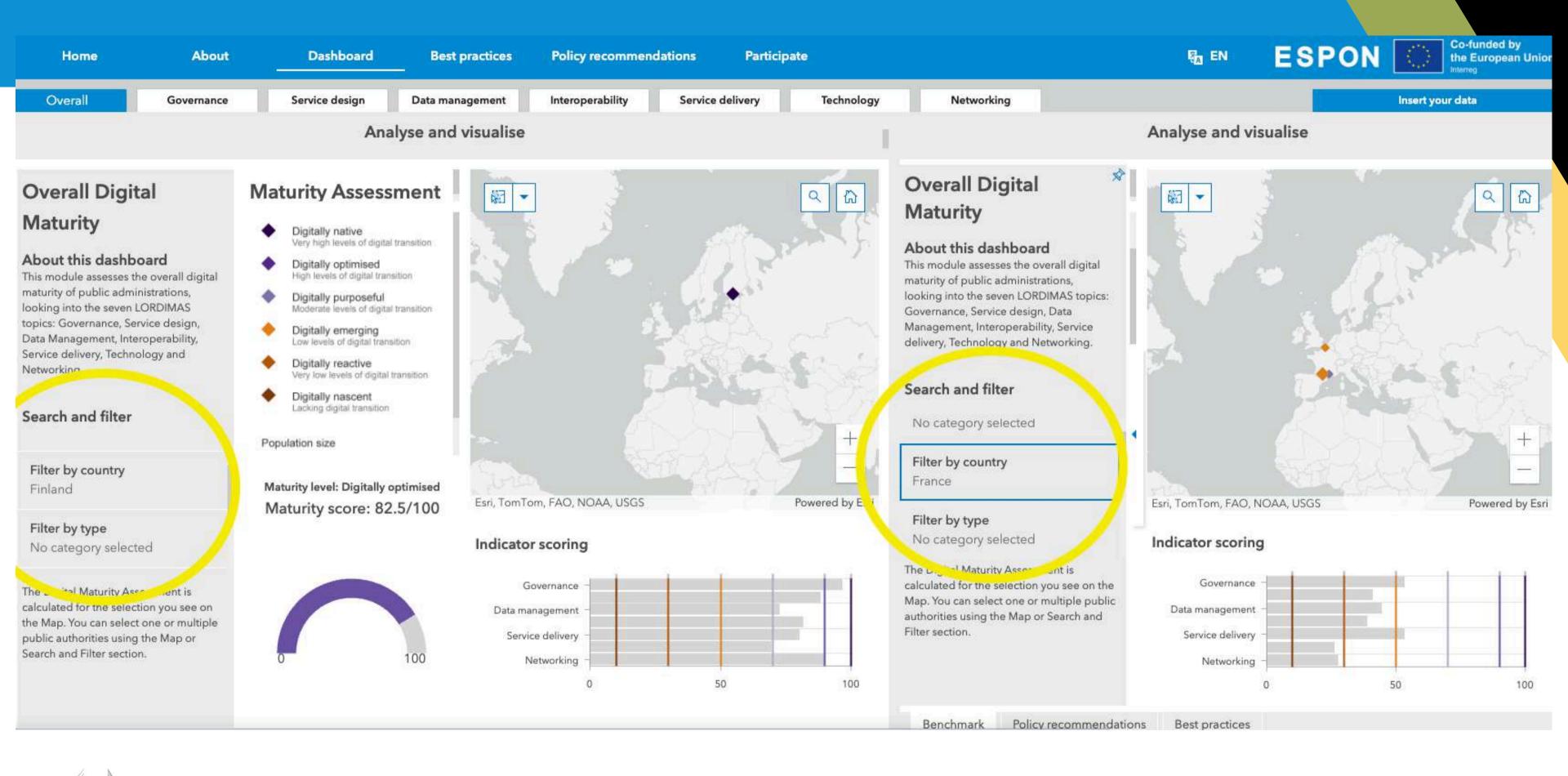
- Review of achievements and plans for continuation of transformation effort
- Assessment of local enablers
- Identification of opportunities, areas for improvement and how the ecosystem could work together to achieve goals

How does LORDIMAS Work?

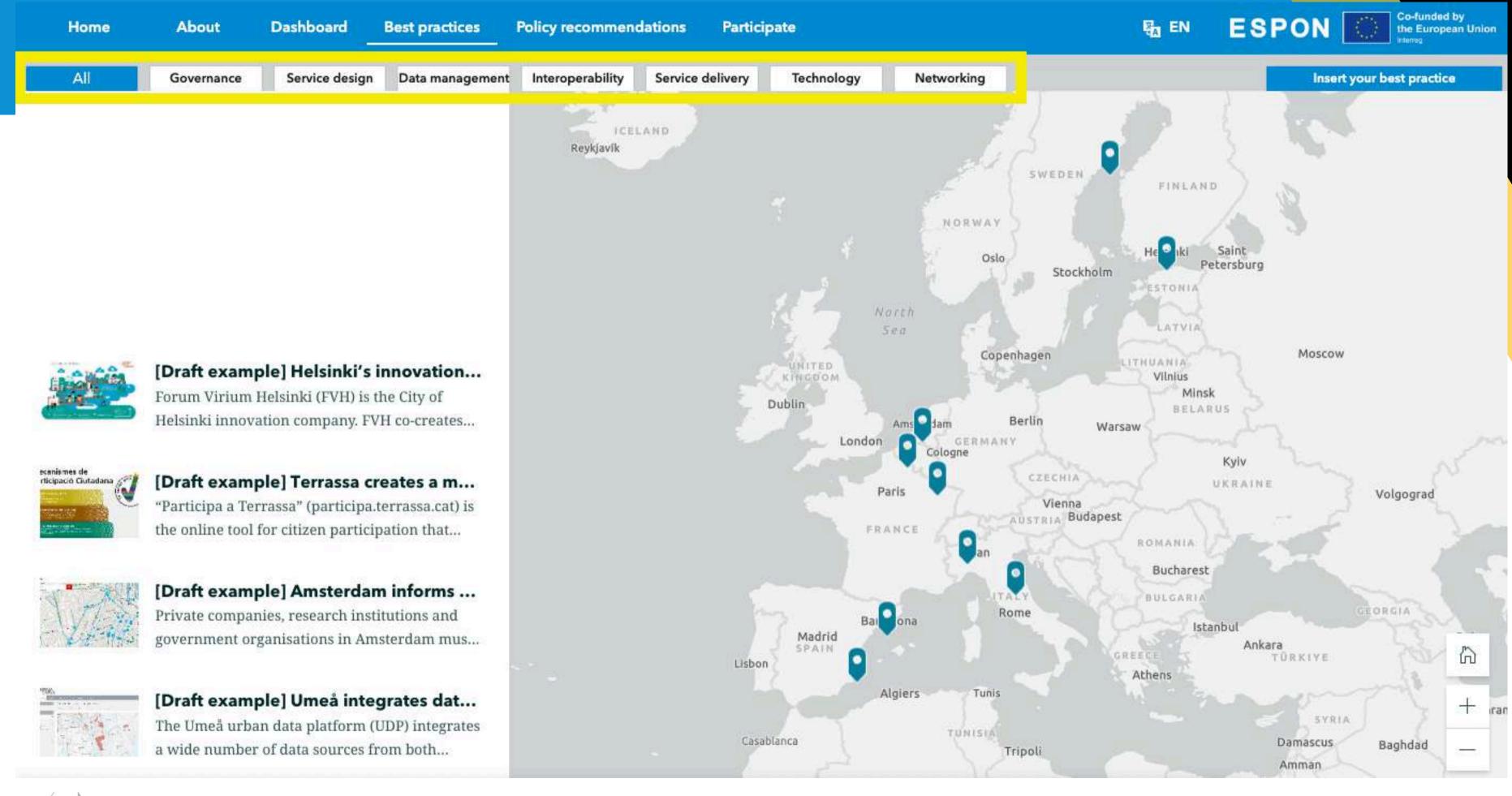














Jörg Rainer Noening

The experience of the City of Dresden

Information about the speaker



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:



<u>living-in.eu</u>

Call to Action - How to Get Started



Go to the platform, click on <u>participate</u> 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



















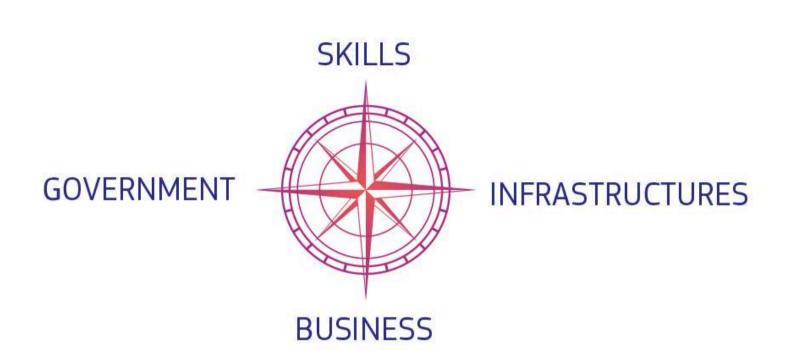






The importance of implementing digitalisation roadmaps

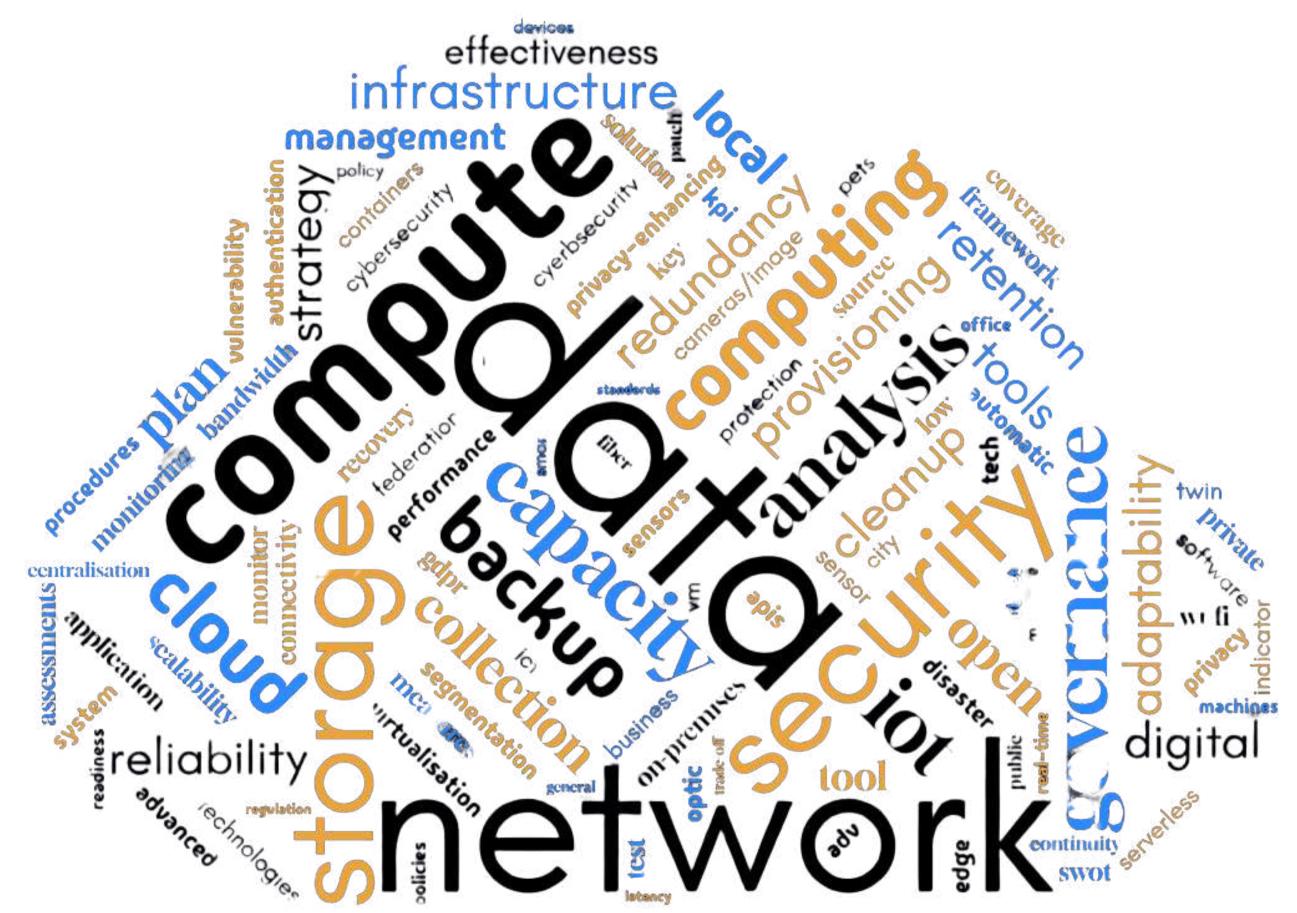








What Digital Transformation Concepts Need to be in Place





What Digital Transformation Concepts Need to be in Place

Adaptability	Data Governance	ICT Infrastructure	Open Source Software
APIs	Data Governance Framework	Infrastructure Security	Open Standards
Authentication federation tool	Data Governance Tool	IoT	Plan, Monitor & Test
Automatic Storage Management	Data Retention and Backup	IoT Devices	Privacy Compliance
Backup Solution	Data Strategy	IoT Sensor	Privacy-Enhancing Tech (PETs)
Bandwidth	Disaster Recovery	IT Infrastructure	Private Subnet
Business Continuity Plan	Containers	Key Performance Indicator (KPI)	Public Wi-Fi
Cameras/Image Sensors	Cybersecurity Policy	Local Digital Platform	Real-time Data Collection
Capacity	Cyerbsecurity Strategy	Local Digital Twin	Redundancy
Cloud	Data	Low Latency	Reliability
Cloud Compute	Data Analysis	Monitoring	Scalability
Cloud Storage	Data Analysis Tools	Network	Security
Compute	Data Backup & Retention Tools	Network Adaptability	Security Advanced Measures
Compute Cleanup	Data Centralisation	Network Capacity	Security Patch
Compute Policies & Procedures	Data Collection & Management	Network Capacity & Effectiveness	Security Segmentation
Compute Provisioning	Edge Computing	Network Connectivity	Serverless Computing
Computing Adv. Technologies	Effectiveness	Network Coverage	Smart City Office
	Fiber Optic	Network Redundancy	Storage
	General Data Protection	Network Reliability	Storage Cleanup
European	Regulation (GDPR)	On-Premises Compute	Storage Provisioning

System / Application

SWOT Analysis

Trade-off

Virtual Machines (VMs)

Virtualisation

Vulnerability Assessments

5G Readiness

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



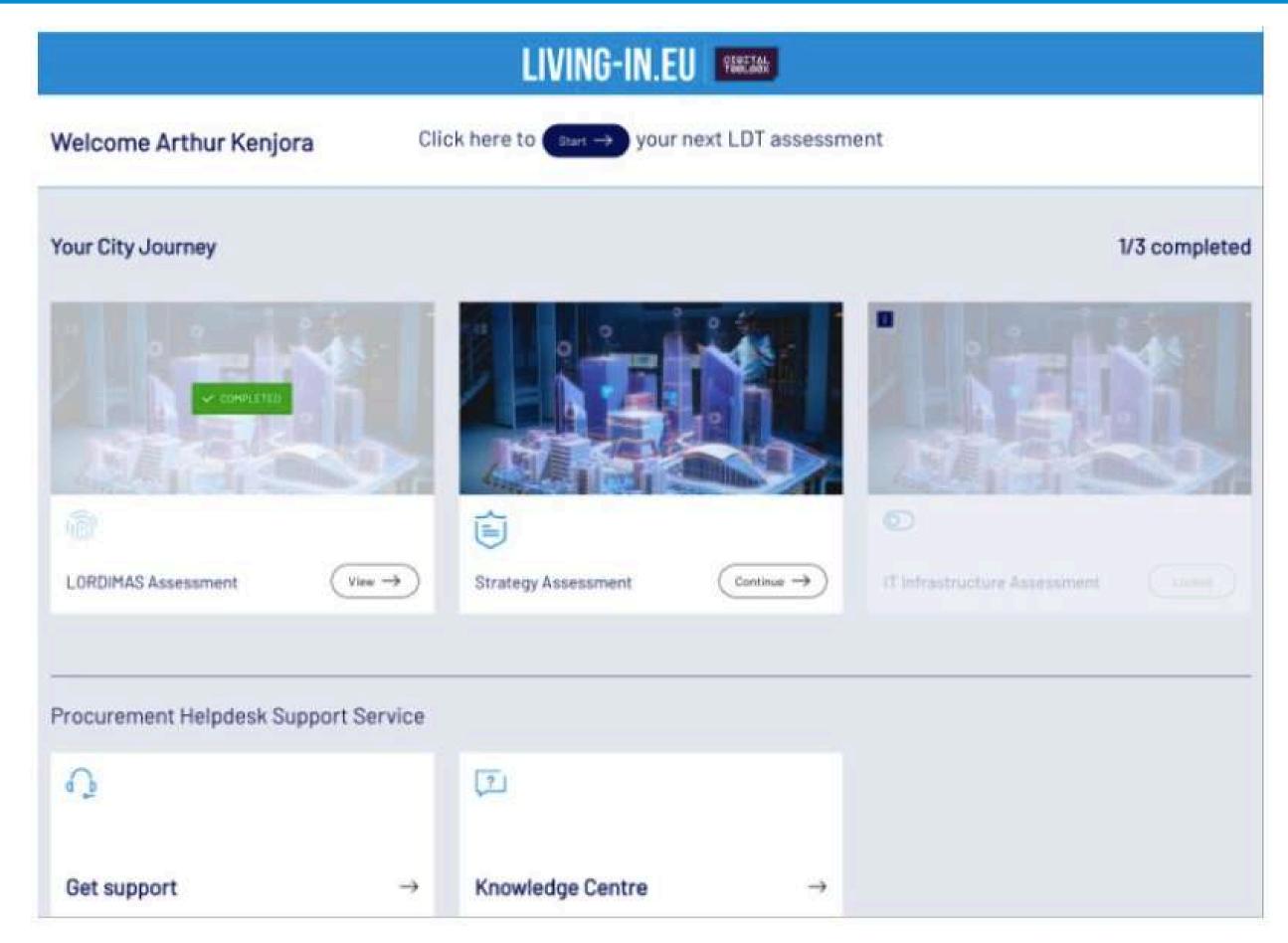
Receive support to identify procurement needs and templates



The helpdesk is live and you can <u>express your</u> <u>interest</u> in participating starting today!

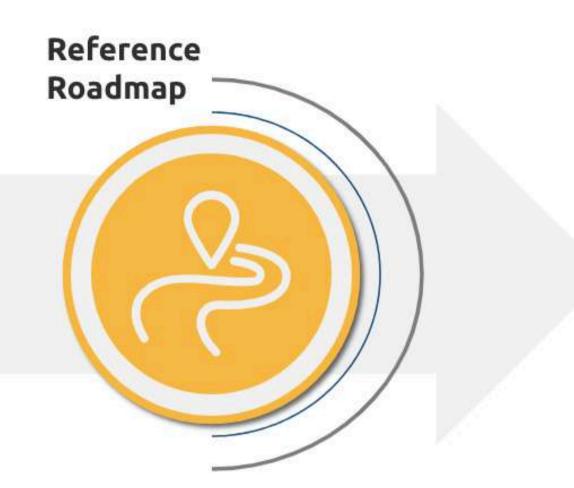


Procurement Helpdesk Live Demo





Digitalisation Roadmap



Overview of capabilities and enablers and correspondent reference timeline



The reference roadmap outlines key milestones and best practices for a project, providing a standardized framework for development and implementation, applicable to various scenarios as it remains use-case agnostic



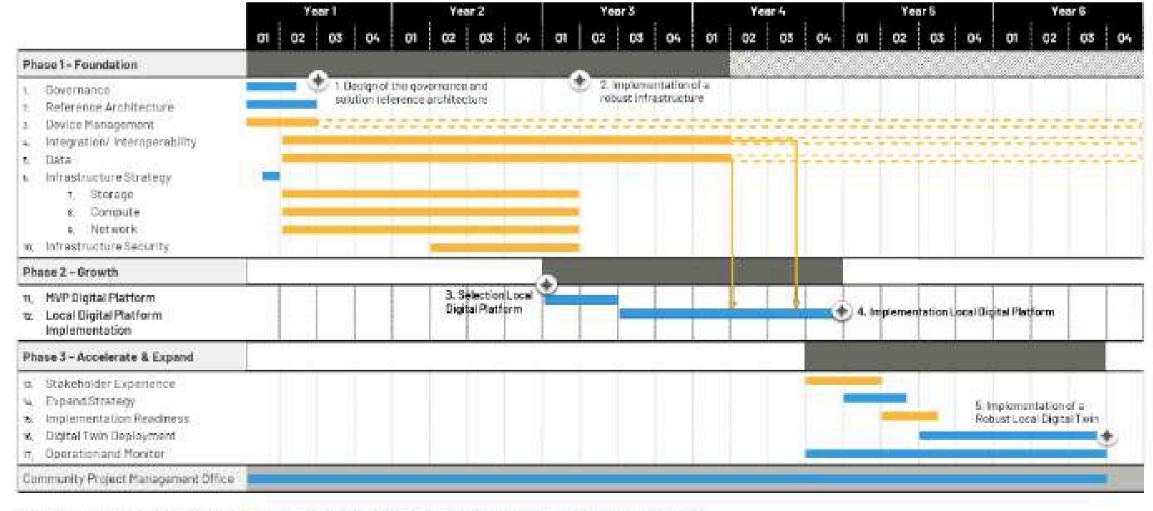
The time presented in the reference roadmap is an estimation, but can vary depending on the general administration of each city



The roadmap does not consider the time needed for contract negotiations and RFP discussions



In the reference roadmap overlaps occur, because certain capabilities and enablers, while having interdependencies, don't strictly rely on each other's conclusion since they allow for simultaneous development





European Commission

Digitalisation Roadmap



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

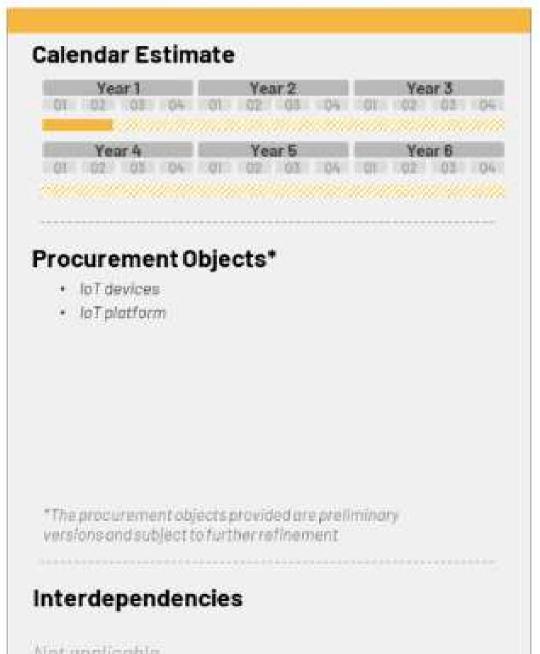
Device Installation

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





Not applicable



Procurement templates

Template (Outline Example)

OUTLINE

(1/2)

- FOREWORD
- Tender documents, requests for clarification and communication
- SCOPE AND DESCRIPTION OF THE PROCUREMENT
 - 3.1 Contracting authority: who is the buyer?
 - 3.2 Subject: what is this call for tenders about?
 - 3.3 Lots: is this call for tenders divided into lots?
 - 3.4 Description: what do we want to buy through this call for tenders?
 - 3.5 Place of performance: where will the contract be performed?
 - 3.6 Nature of the contract: how will the contract be implemented?
 - 3.7 Volume and value of the contract: how much do we plan to buy?
 - 3.8 Duration of the contract: how long do we plan to use the contract?
 - 3.9 Options and renewals
 - 3.10 Price revisions
- 4. GENERAL INFORMATION ON TENDERING
 - 4.1 Legal basis: what are the rules?
 - 4.2 Entitles subject to restrictive measures and rules on access to procurement: who may submit a request to participate/tender?
 - 4.3 Registration in the Participant Register: why register?
 - 4.4 Ways to submit a request to participate/tender: how can economic operators organise themselves to submit a request to participate/tender?
 - 4.1.1 Joint requests to participate/tenders
 - 4.1.2 Subcontracting
 - 4.1.3 Optional inspections
- 5. EVALUATION AND AWARD
 - 5.1 EVALUATION OF OFFERS
 - 5.1.1 Step 1: Exclusion criteria of technical offer
 - 5.1.2 Step 1: Selection criteria of technical offer
 - 5.1.3 Step 1: Exclusion criteria of economic offer
 - 5.1.4 Step 1: Selection criteria of economic offer
 - 5.1.5 Method for the calculation of scores



(2/2)

5.2 AWARDING OF OFFERS

- 5.2.1 Committee for evaluation and awarding
- 5.2.2 Step 2: Compliance with the conditions for participation and minimum requirements specified in the procurement documents
- 5.2.3 Step 2: Award criteria
- 5.2.4 Award (ranking of tenders)
- 6. FORM AND CONTENT OF THE SUBMISSIONS
 - 6.1 Form of the submissions: how to submit the request to participate/tender?
 - 6.2 Content of the submissions: what documents to submit with the request to participate/tender?
 - 6.2.1 Administrative offer
 - 6.2.2 Technical offer
 - 6.2.3 Economic offer and duration (warranty extension if applicable)
 - 6.2.4 Verification of anomalies of the offers
 - 6.2.5 Tender awarding and contract signing
 - 6.3 Signature policy: how can documents be signed?
 - 6.4 Confidentiality of tenders: what information and under what conditions can be disclosed?
 - 6.5 Code of Conduct
 - 6.6 Access to the records
 - 6.7 Settlement of disputes
 - 6.8 Personal data processing

APPENDIX: LIST OF REFERENCES

ANNEXES

Annex 1.1 List of documents to be submitted with the request to participate or during the procedure (step 1)

- Annex 1.2 List of documents to be submitted with the tender (step 2)
- Annex 2. Declaration on Honour on exclusion and selection criteria.
- Annex 3. Agreement/Power of attorney
- Annex 4. List of identified subcontractors and proportion of subcontracting
- Annex 5.1. Commitment letter by an identified subcontractor
- Annex 5.2. Commitment letter by an entity on whose capacities is being relied
- Annex 6. Financial tender form
- Annex 7. Technical Specifications [Consult separate dedicated document]

European initiative to support this step



Fully funded by the European Commission, this initiative covers all expenses related to support activities and assessments. It's important to note that while the costs for these preparatory stages are fully covered, there isn't direct funding available for the actual implementation of the solutions. Cities and communities looking to fund the implementation phase are advised to explore the DEP (Digital Europe Programme) grants and funding opportunities.



- Online support services to guide your community in developing and realising its **digital strategy**.
- Expert guidance and validation of digital projects, progress and alignment with **EU standards and best practices**.
- Identification of procurement needs to advance the digitalisation roadmap implementation, and access to tailored procurement guidelines and templates.
- Tailored **advisory** services to assist your city in assessing technological readiness for implementing MIM-compliant local data platforms.
- A customised **digitalisation roadmap**, detailing the necessary steps and procurement strategies to enhance your technical capabilities.



Strategy & decision-making

- Innovation Manager (Chief Innovation, Chief Digital or Chief Technology Officer, Smart City Manager or similar)
- Relevant city departments with strategic and decision-making capacity
- Project management office (PMO)
- Thematic experts

IT/Data/Architecture

- Data Manager (Chief Data Manager, IT manager, Data Steward, or similar)
- ICT Manager and Systems Specialist
- IT Architect

IT Procurement

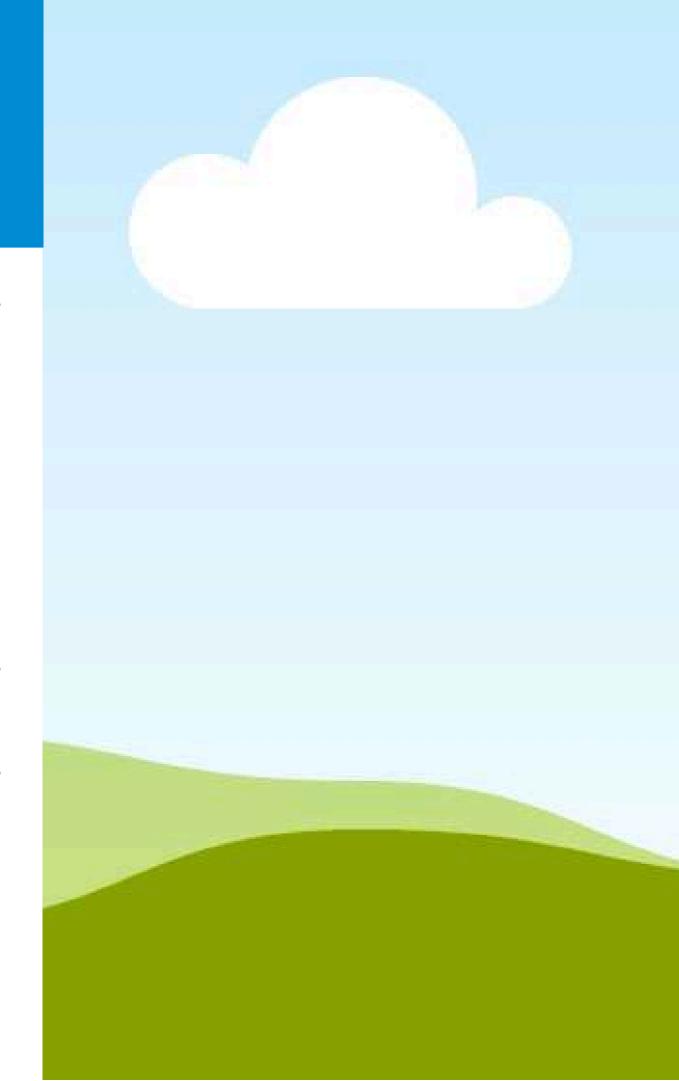
• Infrastructure Provider



Slide to present the speaker to explain their experience in the helpdesk

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- Maecenas nisl est, ultrices nec congue eget, auctor vitae massa. Fusce luctus vestibulum augue ut aliquet.
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The Journey





HOW



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.

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SUPPORTING ECOSYSTEMS AND COLLABORATIONS

Luca Kerscher Living-in.EU | EuroCities

Information about the speaker



Invitation to join Living-in.EU

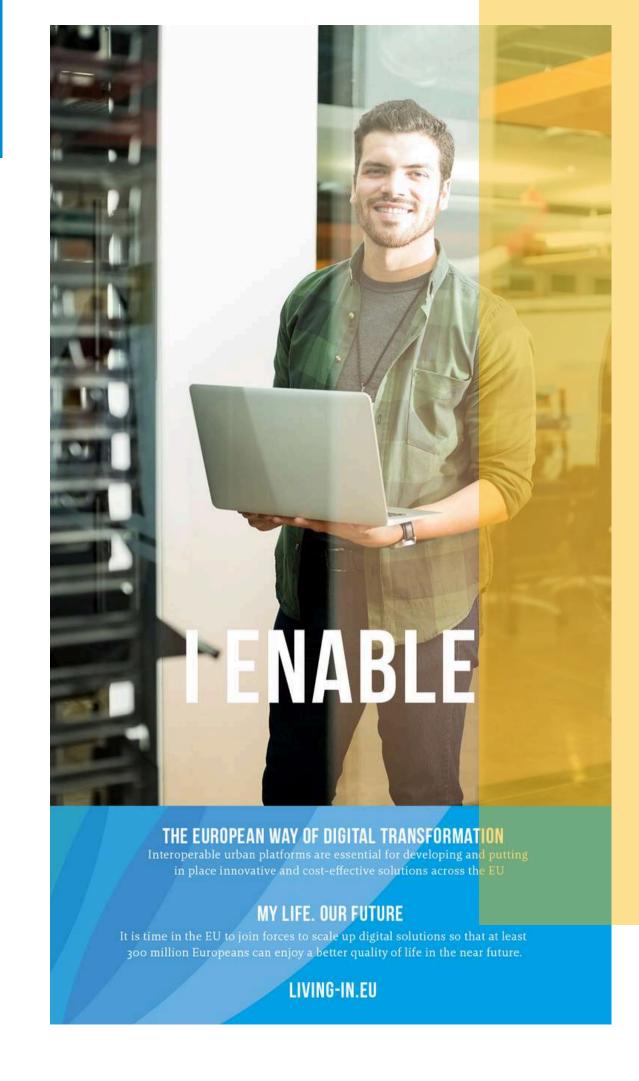
We are pleased to invite you to support the Living-in.EU movement, especially if you are already participating in the Online Procurement Helpdesk.

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!



Lithuanian Green Municipalities can facilitate your participation and support you in using the resources offered!

Commission



SET UP YOUR DIGITAL TWIN STRATEGY (3 main initiatives)

Initative 1



Initative 2

LIMING-INEU

Initative 3



CLIMATE NEUTRAL
CITIES INITIATIVE

LIVING-IN.EU MOVEMENT

FUNDING OPPORTUNITIES



Citiverse EDIC (European Digital Infrastructure Consortium)

WHO

Signatory Member States: Spain, Slovenia, Estonia, Latvia, Croatia, Portugal, France, Czech Republic, Luxembourg, Belgium, Slovakia, Italy.

WHAT

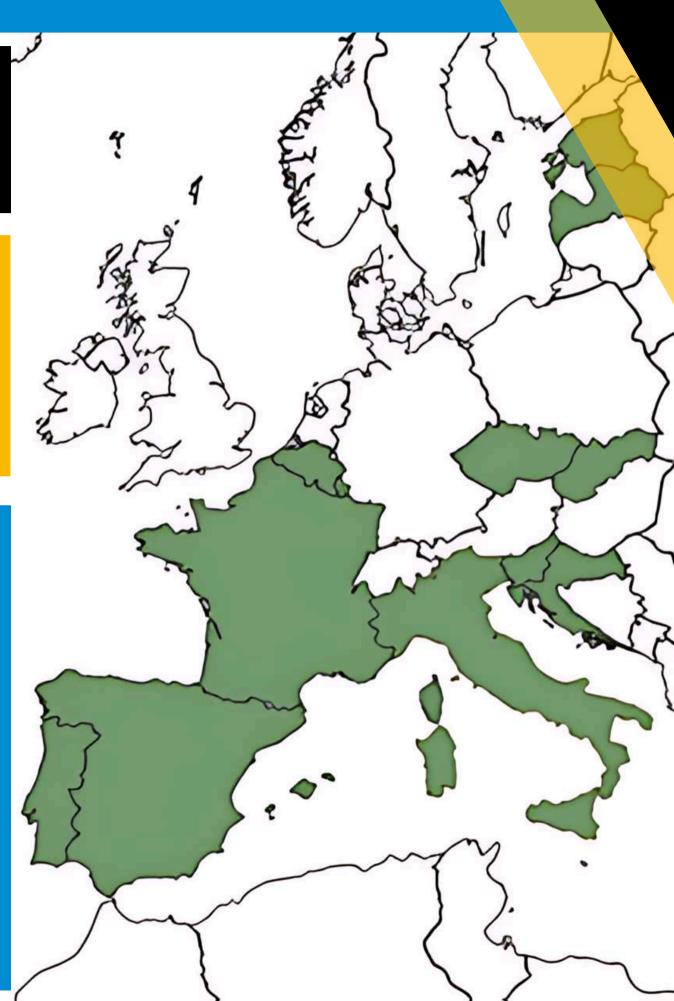
Common tools: EU LDT toolbox, Data and services interoperability, Reuse of components & best practices.

Joint tenders: Economies of scale, Open standards, Certification.

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.





Citiverse EDIC (European Digital Infrastructure Consortium)



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 Euroepan cities in January 2026





OASC (Open and Agile Smart Cities)

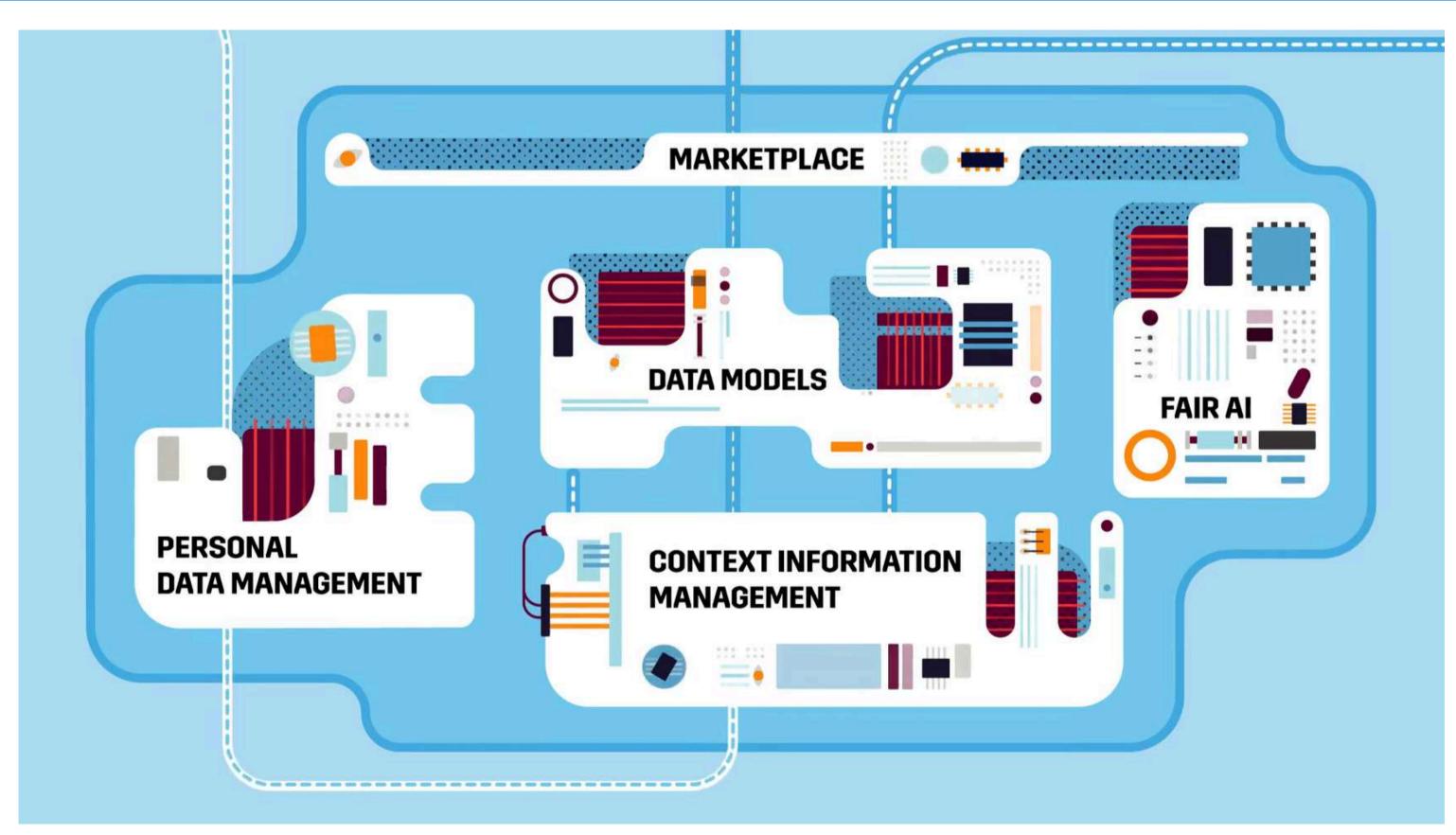
- Access to regional, national, European, and international programs
- Access to projects through project management services
- Knowledge exchange through digital meetings on EU goals and programs
- Capacity building through interactive workshops, academies, and certified training
- Technical tools and practical solutions, such as MIM, standards, and technical specifications
- Support for members through events to expand your network and present your approaches, tools, and policies

www.OASC.org





OASC (Open and Agile Smart Cities)







Call to Action: Reminder

1



2



3



DISCOVEROnline Training 1

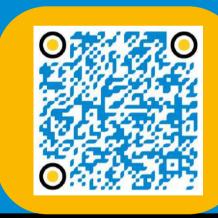
03.12.2024

Prepare your strategy to implement Local Digital Twins

Join the Living-in.EU movement

Evaluate your digital maturity with LORDIMAS

4



5



6



PLAN
Online Training 2
04.12.2024

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

Apply to the EU Mission
Cities: Twin Cities
Programme

Express your interest to participate to the Online Procurement Helpdesk

EMPOWER

Online Training 3

11.12.2024



We value your feedback!









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Innovation is the engine of growth. It provides solutions to the pressing challenges we face – from climate change to digitalisation – and helps us build a sustainable future for all.

-Ursula von der Leyen























We value your feedback!









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