INCREASING DIGITALISATION AWARENESS & READINESS OF LATVIAN COMMUNITIES

in collaboration with

VEFRESH

30 October 2024

5G Techritory, Atta Centre, Riga, Latvia

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.

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.

European Commission

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.

European Commission

AGENDA

European Commission

Detailed Agenda Overview

Phase 0: How to Start Your Digitalisation Journey October 30th 14:00 EET

Time	Session	Speaker(s)
14:00 – 14:10	**Welcome**	**Viesturs Celmins |** Managing Director VEFRESH **Arnis Gulbis |** Director, Riga Digital Agency
14:10 – 14:30	**Introduction to Local Digital Twins**	**Miguel Álvarez Rodríguez |** Policy Officer, AI Office, European Commission **Arnis Gulbis |** Director, Riga City Council
14:30 – 15:00	**Local Digital Twins & EU Green Deal**	**Agate Ambulte |** Head of AI, Riga Stradinš University, City of Liepaja **Edgars Indriksons |** Head of Data, Riga Digital Agency **Arnis Gulbis |** Director, Riga City Council
15:00 – 15:15	**LORDIMAS: your digital maturity assessment**	**Rodolphe Doité |** Project and Policy Manager, ERRIN
15:15 – 15:30	**Coffee Break**	

Detailed Agenda Overview

Phase 0: How to Start Your Digitalisation Journey

October 30th

14:00 EET

15:15 – 15:30	**Coffee Break**	
15:30 –15:55	**Online Procurement Helpdesk: developing your digitalisation roadmap**	**Genoveva Gil García |** Tech Lawyer & Project Manager, Serendipity **Anastasia Sarantopoulou |** Project lead & tech law consultant, Serendipity **Laine Celma |** Deputy IT Director, Riga Digital Agency
15:55–16:50	**EU Data Spaces, Open Data Platforms and Local Digital Twins**	**Janis Krakops |** Head of Data Management Unit, VARAM **Viktorija Tabakurska |** Ministry of Transport, State Road Infrastructure **Diāna Tumene |** Latvian State Roads, National Traffic Information Centre **Boriss Jelisejevs |** Latvian State Roads, National Traffic Information Centre **Edgars Indriksons |** Head of Data, Riga Digital Agency
16:50 – 17:25	**Supporting ecosystems: Living-in.EU, EDIC, and Innovation Movement VEFRESH**	**Gabriela Ruseva |** Living-in.EU Project Coordinator, Eurocities **Artis Gustovskis |** Digital Innovation Hub Manager, Kuldiga **Arnis Gulbis |** Director, Riga City Council
17:25 – 17:35	**Funding opportunities**	**Viesturs Celmins |** Managing Director VEFRESH
17:35 – 17:45	**Closure, Next Steps, Living-in.EU ceremony**	**Viesturs Celmins |** Managing Director VEFRESH
17:45 – 18:30	**Networking Reception**	

European Commission

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.

European Commission

INTRODUCTION: LOCAL DIGITAL TWINS

European Commission

INTRODUCTION TO LOCAL DIGITAL TWINS

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speaker:

- **Miguel Álvarez Rodríguez,** Policy officer (AI Office, DG CONNECT, Comisión Europea)
- **Arnis Gulbis,** Director of Riga City Council

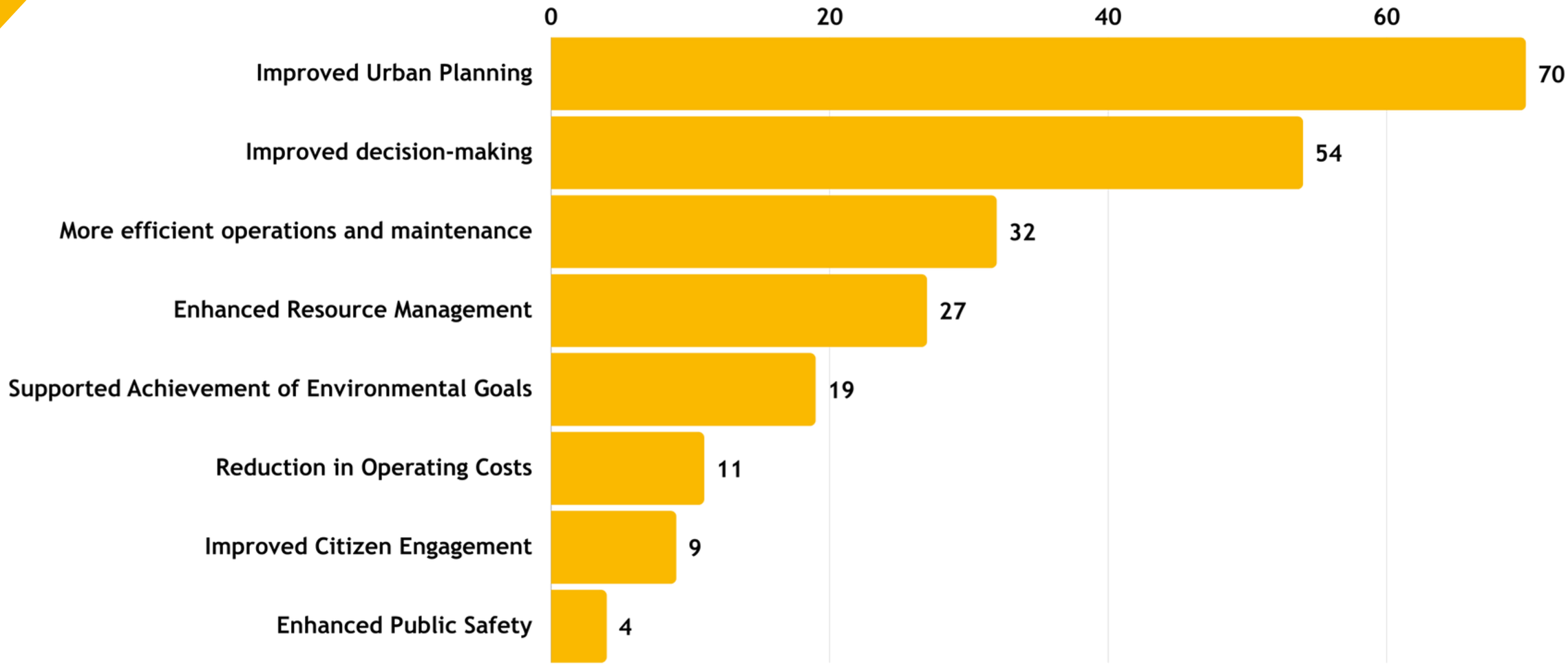
European Commission

What is a Local Digital Twin?

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

European Commission

What Are LDTs Used For?



European Commission

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

Introduction to Local Digital Twins

RĪGAS DIGITĀLĀ AĢENTŪRA

Speaker: Arnis Gulbis

Director of Riga City Council

Digital twins

Digital twins are now essential tools in **urban planning**, allowing cities to simulate different scenarios, **predict outcomes**, and make **data-driven decisions**

For Latvian cities, this translates into **smarter infrastructure** investment, **reducing energy** consumption, and **enhancing citizen services**

PRIORITIES

Mobility

Privacy and Safety

City connectivity

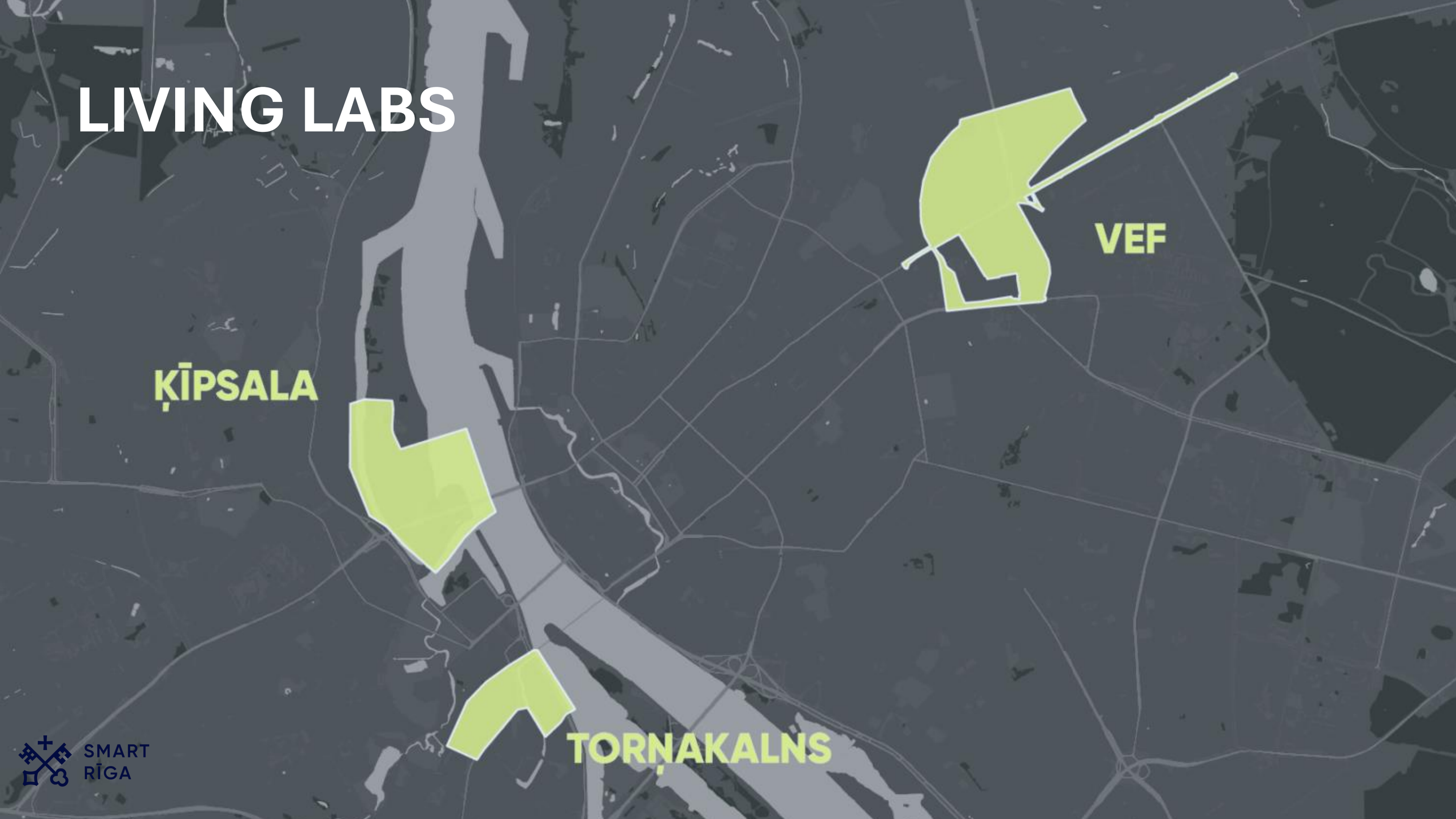
Energy and Climate

Data solutions and IoT

Healthcare

SMART RĪGA

LIVING LABS



SMART RĪGA

PROJECTS

CODING THE CURBS

Parking pilot project – smart zones for visitors. The objectives of the project are to develop a scalable platform for booking Smart Zones, establish a data analysis tool to measure the impact of Smart Zones, and create a handbook for implementing the Smart Zones.

Solution is piloted in the campus territory of the Riga Technical University, empowering logistic companies, local businesses, and citizens to easily access and book Smart Zones.

The web-based application provides a user-friendly interface for finding Smart Zones, reserving timeslots, and managing bookings. The solution can facilitate cities' transition towards the implementation of zero-emission zones.

SMART RĪGA

PROJECTS

GREEN DASH

Pilot projecy is set to improve last mile deliveries and seamless utility service provision in collaboration with national postal delivery companies Latvijas Pasts (Latvia) and PostNord (Denmark), and Rīga Municipality.

Testing, improving, and demonstrating the benefits of EV cargo scooter thus addressing the urban logistics challenges fueled by the growing volume of e-commerce and creating seamless utility service provision solutions for cities.

SMART RĪGA

GEO RĪGA

Riga City Municipality geospatial data public portal, where anyone can view and use geospatial information and download geospatial data available to the municipality on Riga administrative territory

georiga.lv

THE PORTAL

THEMATIC MAPS

+ Latest Maps

OPEN DATA

2D and 3D data to download

FAQ

Answers to frequently asked questions
Manual

ENGAGE

Questionnaires and surveys

3D RĪGA

3D maps

ABOUT US

Our team and our goals

NEWS

Current news on data layers, maps etc. published in the portal

Language options:

LV and ENG

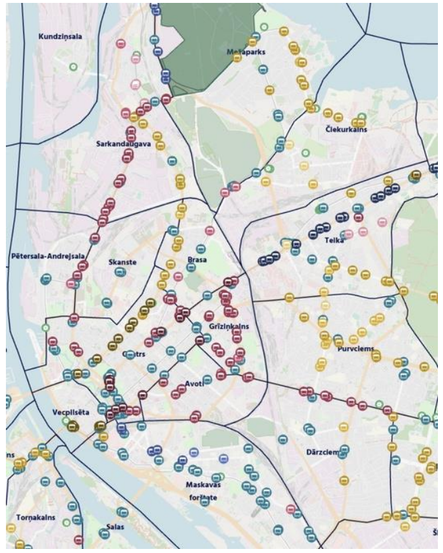
Accesibility tool

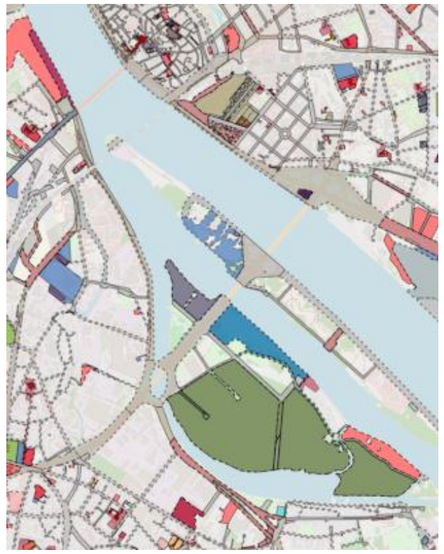
data analysis DATA COMPARISON DATA MATCHING

easy to use and available to everyone

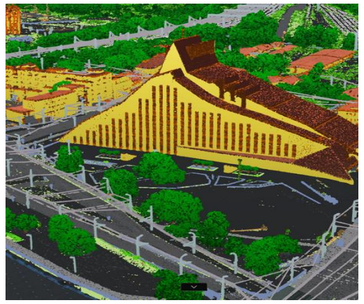
2D DATA

More than 150 data layers

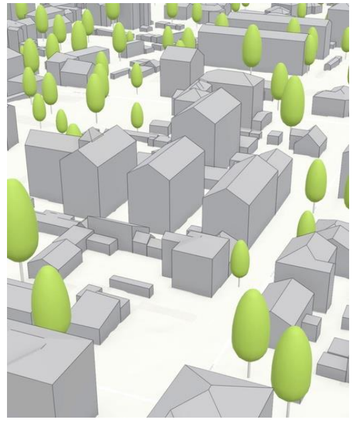


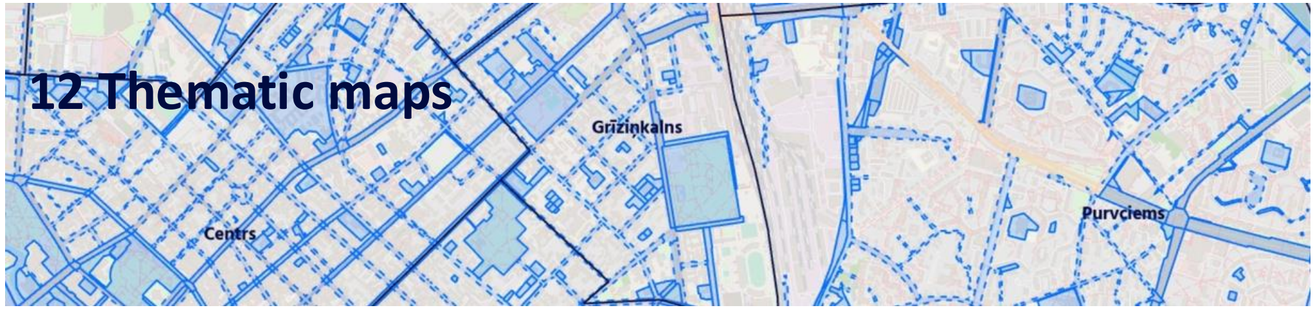


3D DATA



RĪGA REALITY MODEL





laser scan point cloud

building density model

solar energy potential

LOD2 LOD1

FIGURES

01

DATA SOURCES

15 Municipality Departments and Institutions. More than 10 external data holders.c

02

DATASETS

More than 150 different data sets

03

MAPS

12 thematic maps (2D). 8 thematic maps – products (3D)

04

OPEN DATA

19 datasets . More than 108 data layers

05

USERS

From 10 254 (2023) to 44 832 (2024)
Residents, entrepreneurs, investors, scientists etc.

06

PORTAL

2 Portals: IN portal and OUT portal
2 languages

07

TEAM

1 strategist, 1 team leader, 6 GIS specialists, 3 technical specialists

08

ACTIVITIES

Digital Week, Riga Summer 2024, Baltic GIS user conference etc.

LOCAL DIGITAL TWINS AND THE EU GREEN DEAL

European Commission

LOCAL DIGITAL TWINS AND THE EU GREEN DEAL

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speakers:

- **Edgars Indriksons,** Head of Data, Riga Digital Agency
- **Arnis Gulbis,** Director of Riga City Council
- **Agate Ambulte,** Head of AI, Riga Stradinš University, City of Liepaja

European Commission

Local Digital Twins & EU Green Deal (& *Expedite*)

Speaker: Edgars Indriksons
Director of Riga digital agency

RĪGAS DIGITĀLĀ AĢENTŪRA

Speaker: Arnis Gulbis
Head of data

Smart Riga & Digital Tranformation Journey

2021

Municipality launches **3** smart city living labs

2022

EU Mission for **100 climate neutral and smart cities by 2030**

Riga Digital Agency (RDA) was launched

Smart City Development Division established

Municipality **Innovation Fund** established

2023

Midterm strategy of RDA 2023-2025 approved

Data analytics & EU collaboration teams endorsed

GEO RIGA public portal launched

2024

www.SmartRiga.lv

Moodle system
RUMIS project
Data infrastructure
Direct funding EU projects launched

National coordination for EC EDIC on LDT & CitiVerse

Connectivity
Data solutions & IoT
Mobility
Energy & Climate
Privacy & Safety
Healthcare

RĪGA

Made with Gamma

Successful EU Partnerships

EU partners

EC DG Connect, LIVING-IN.EU, EUROCITIES, OASC (MIM7), ERRIN, LORDIMAS TOOL, EDIC LDT&Citiverse

CEF Digital 5g4LIVES

5G infrastructure, drones

HORIZON ExPEDite

Positive Energy Districts

Interreg AI4CITIZENS

Ethical AI governance

What`s next?

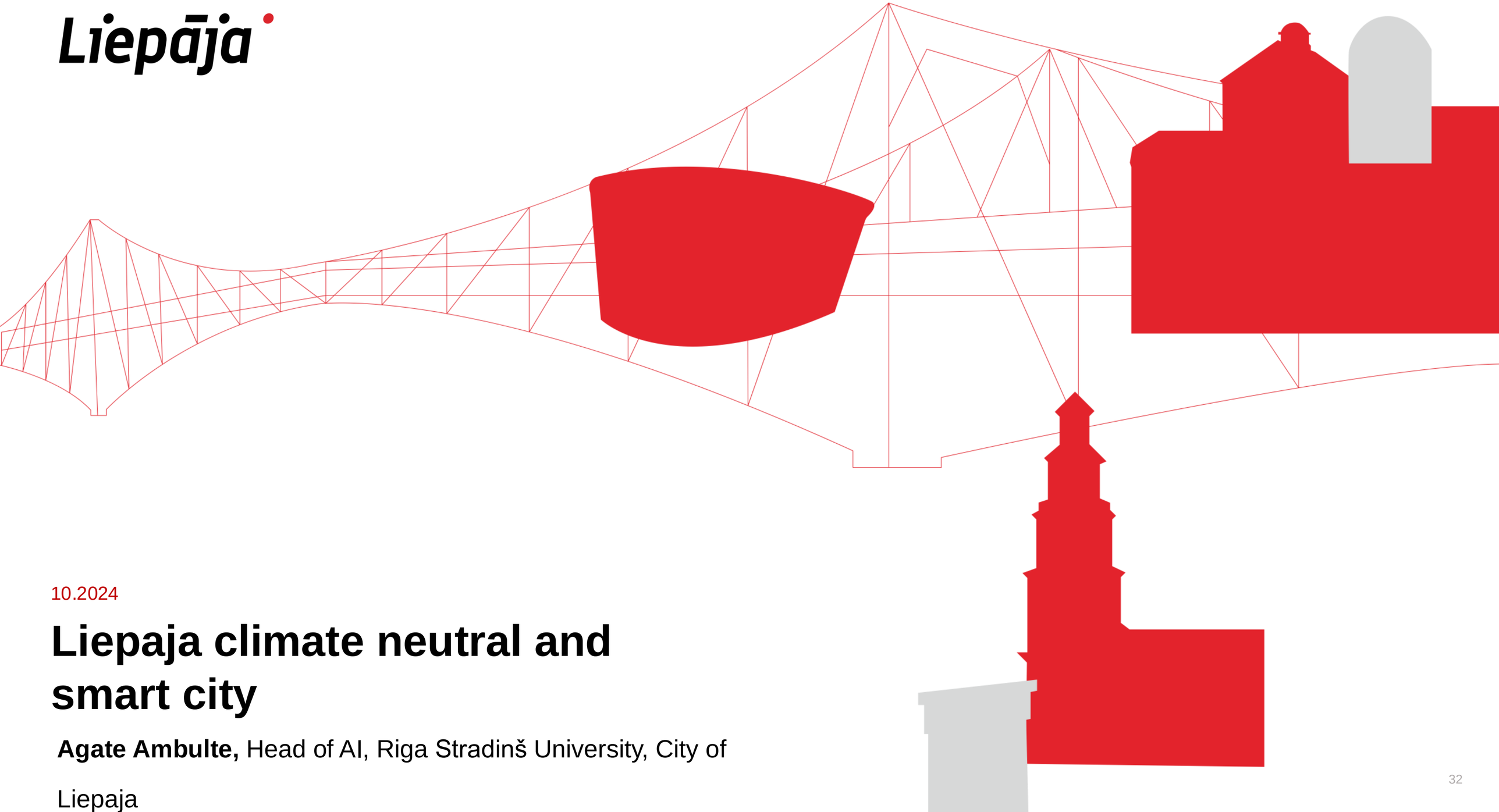
Targeted and long-term support for the development of the smart city of Riga to create a livable, safe and authentic environment, using the opportunities offered by science, innovations and modern technologies.

RĪGA

Expedite project

- Modeling the movements and behaviors of individuals within transportation system on a micro and macro-scale level
- Transportation simulation software
- Need for city-wide transport supply
- Data-driven pedictions
- Data driven predictions of traffic flows
- ML models trained on traffic sensor data
- Energy consumption forecasts based on accurate predictions of speed, traffic flows, etc.
- Interesting and unique cases

Liepāja



10.2024

Liepaja climate neutral and smart city

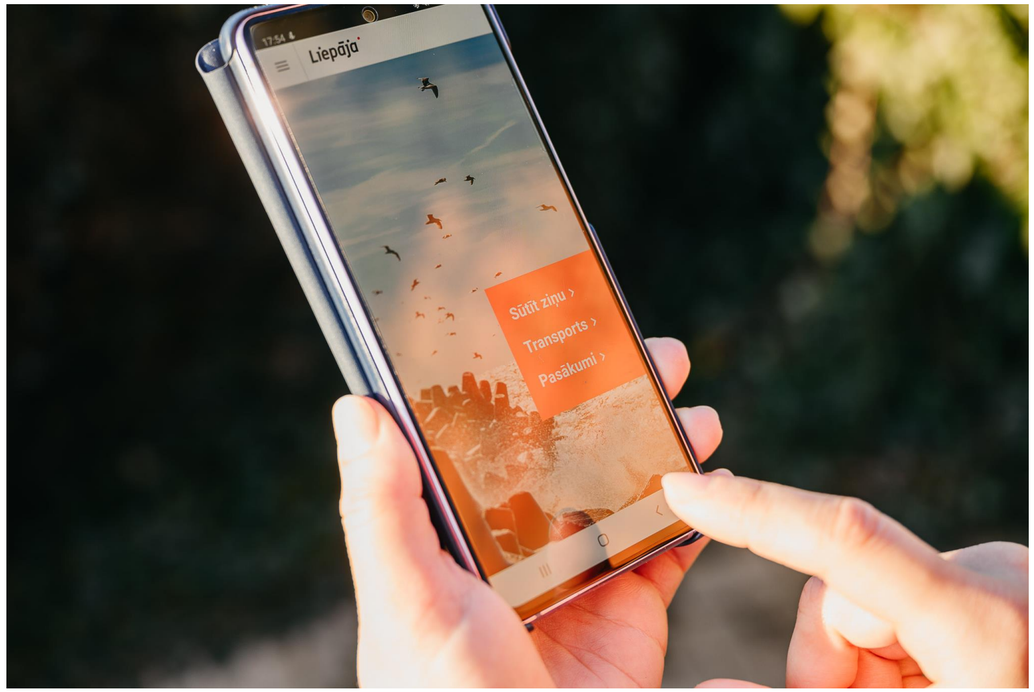
Agate Ambulte, Head of AI, Riga Stradinš University, City of Liepaja

Global scope with the comforts of a small town

- Liepaja is the third largest city in Latvia and the tenth largest city in the Baltic States
- ~ 70 thousand population in the city
- Climate neutral mission city 2030
- European Capital of Culture 2027
- Liepaja Smart City Roadmap: Transformative Mentorship, Knowledge Sharing and Collaboration with Valencia

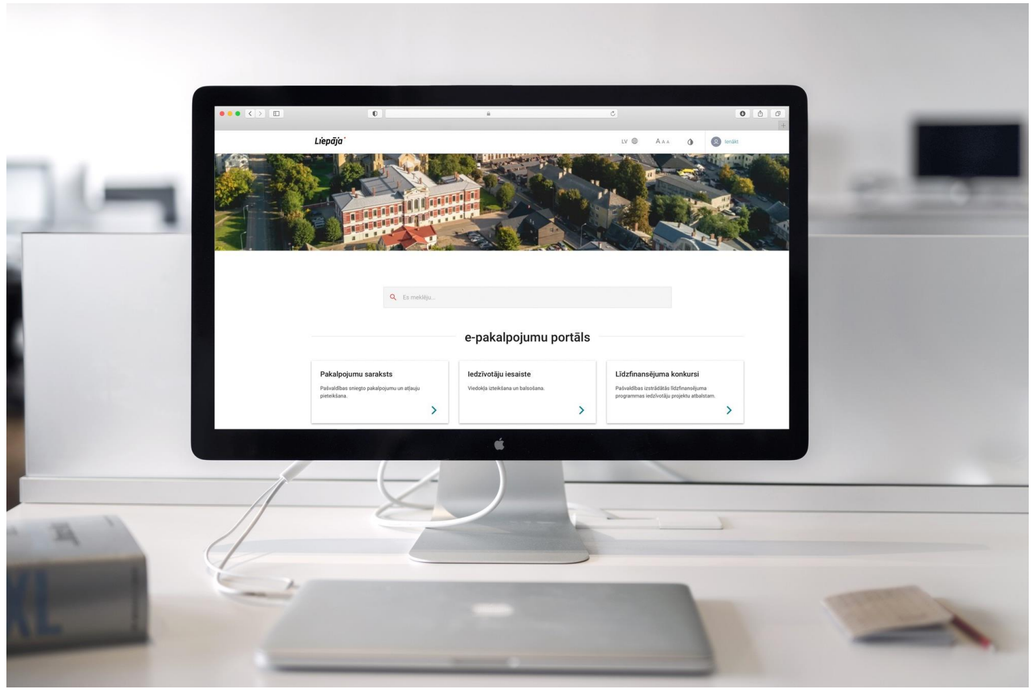
Priorities

Liepāja



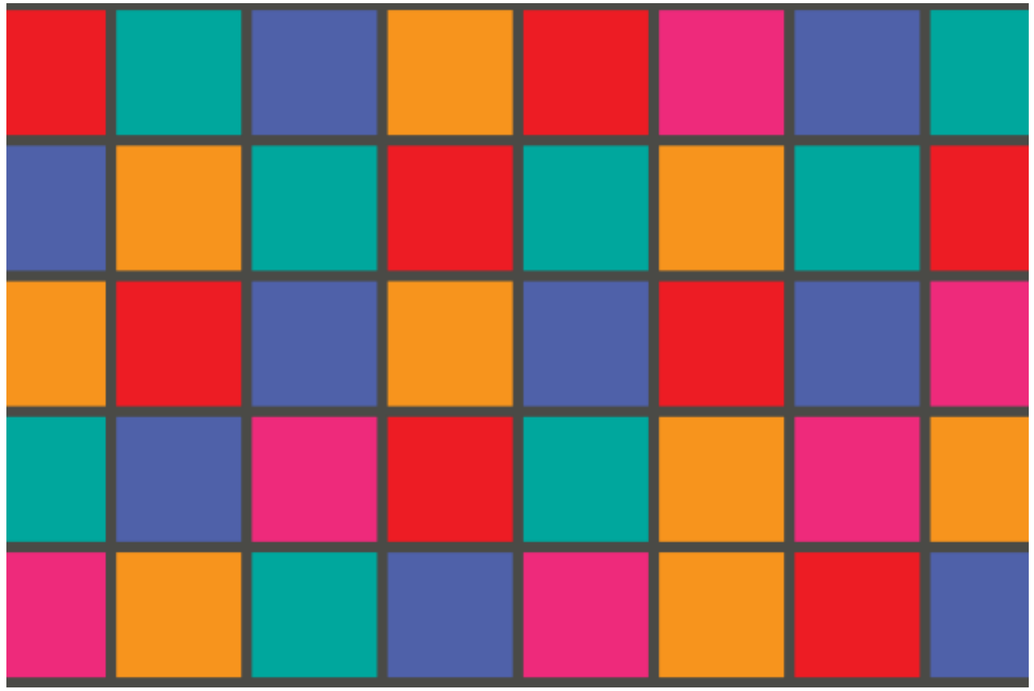
Mobile app «Liepaja city»

- Communication channel
- Public transport and e-payments
- Calendar
- Police module
- Google map
- Tourism
- E-service portal



E-service portal

- E-services
- Applications
- Cofunding projects
- Citizen engagement
- Online registration
- Data platform



Smart City

- City Platform & Digital Twin
- Sensors (in waste bins, transport, chanel)
- Cameras
- Data storage and BA tools
- E-learning platform
- Digital & Dematerilizіation Municipalities
- Experience exchange (Wegenerate, Energy cities, TAIEX)
- Smart City Road map

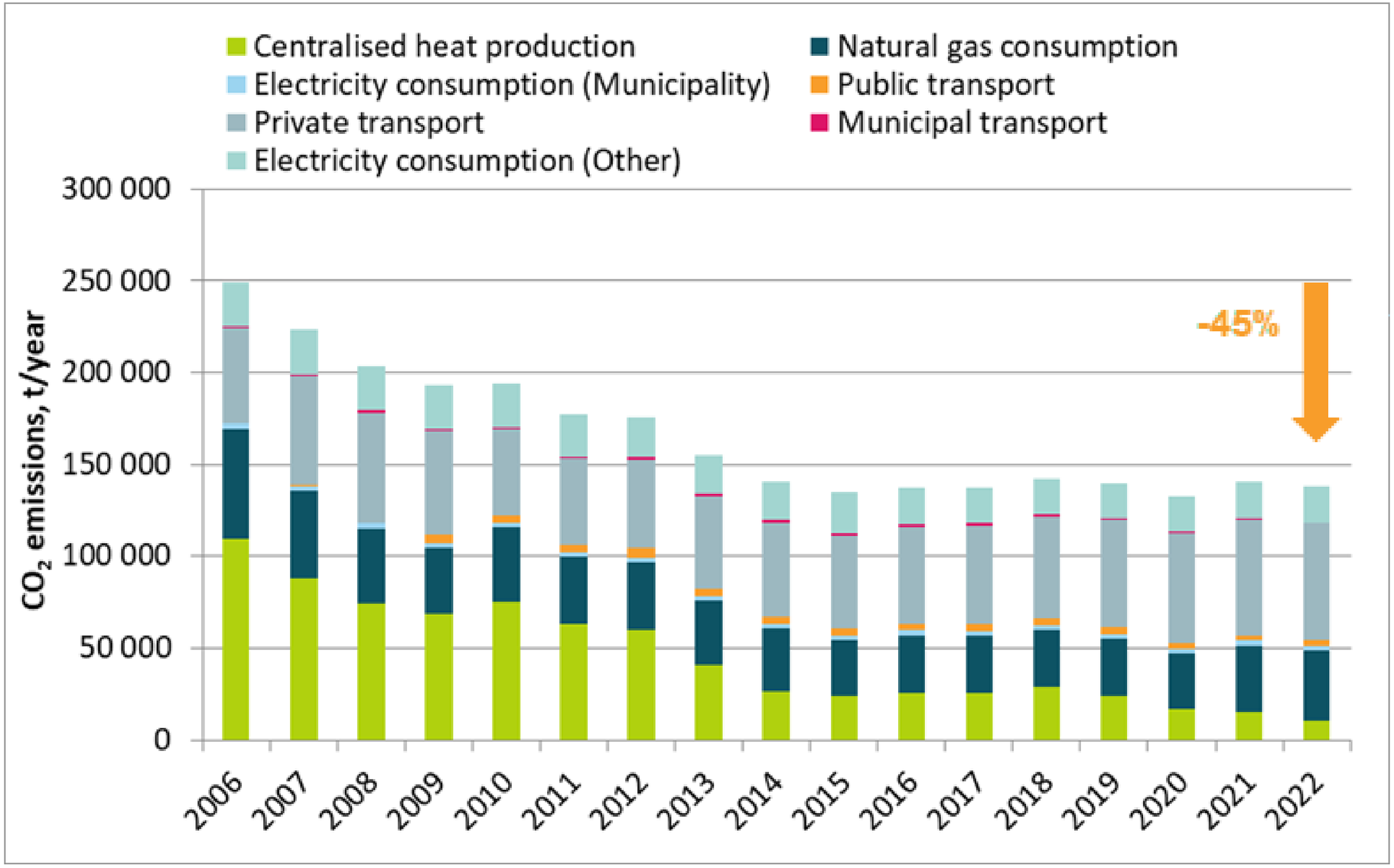
Liepaja as an example

- Energy management system (2016) and online monitoring system (2019)
- Renovation of buildings (since 2007)
- Municipal support programmes
- Smart solutions for traffic organization
- ESCO service for indoor lighting
- Remote control of heat nodes
- Principles of good governance, customer service, e-services and mobile application, etc.

Cities Mission

- The first city from the Baltic States – has received the EU Mission Label
- Commitment
- Action plan and Investment plan
- Liepāja benefits from priority in EU funding programs like Horizon Europe, with added points in evaluations for Mission Label cities.
- Accesses specialised funding, technical support from the Climate City Capital Hub, and European Investment Bank financing.

CO2 emissions in Liepaja 2006-2022

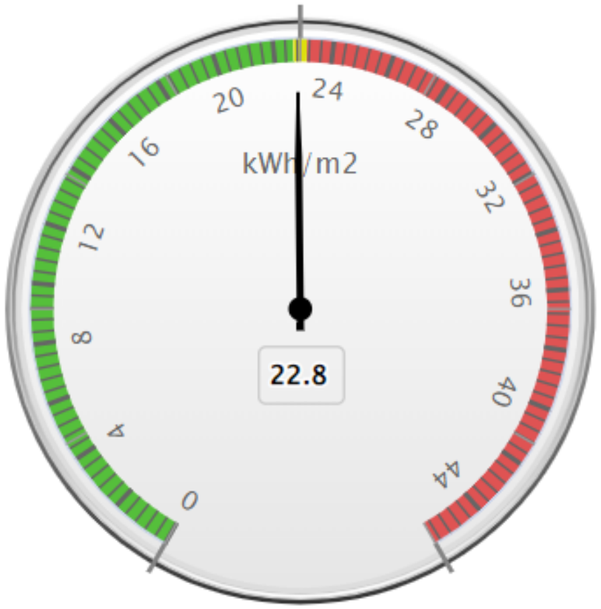


Examples

- Liepaja has Latvia's first smart traffic light, incorporating machine vision technology for improved road safety.
- This device, integrated into the traffic monitoring system, records information on drivers violating red lights, facilitating the imposition of administrative penalties by the Road Traffic Safety Directorate and the Municipal Police.
- While a notable advancement in road safety, it's crucial to highlight that the current smart traffic light lacks a specific CO2 measuring option.

Liepāja

Dati par 2023. gadu
Mērķis – 22.9 kWh/m2
Apkures diena nr. 287



Info	
m2:	5037.8
Mērķis (kWh/m2/gadā):	22.9
Teorētiski pašreiz (kWh/m2):	22.9
Faktiski pašreiz (kWh/m2):	22.8
Starpība (kWh/m2):	0.1
Apkures dienas (teor./fakt.):	193/287
Telpu mērķa t (°C):	20
Ekonomija (%):	-0.4

Online energy monitoring system with company «Energodata»

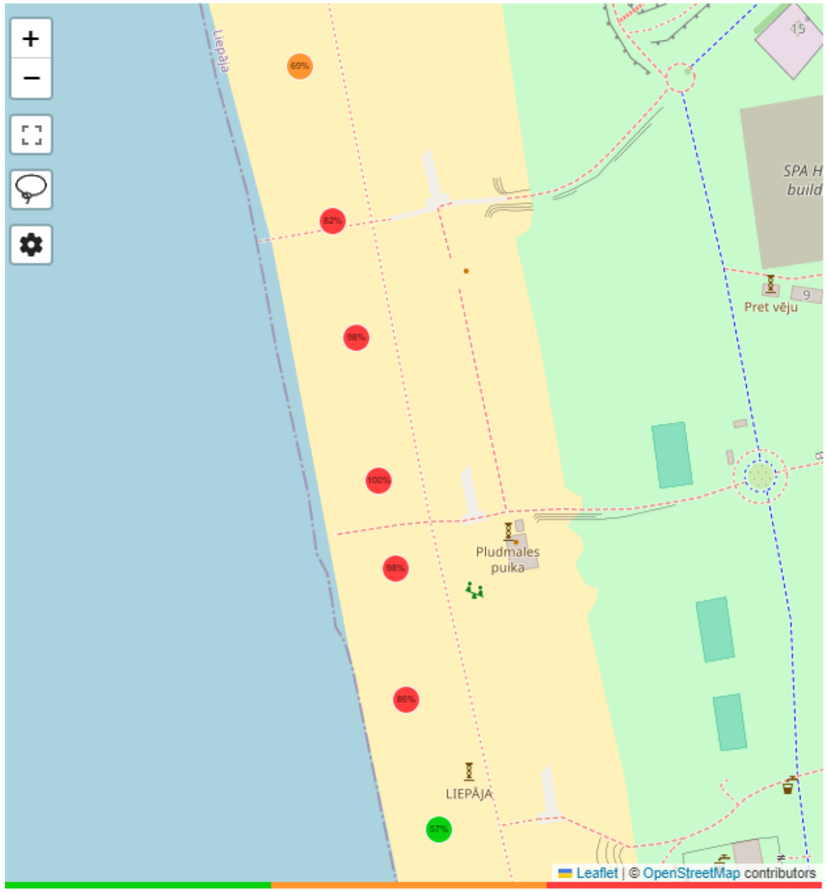
- ~70 municipality's buildings
- Online data for heating, humidity, CO2 levels
- Financial benefits for building managers and structures

Online waste managament data with «Goodman group»

Liepāja

((WMS)) Dashboard | Reports | Administration | Analytics — Liepājas Komunālā pārvalde — KB Kārlis Beihmanis operator

Bins | Routes | Feedback | Fleet | History



%	66 %	75 %
bins	3 bins	7 bins
kg	0 kg	0 kg

Itinerary planning | Add collection plan | Export all | Columns | Clear filters

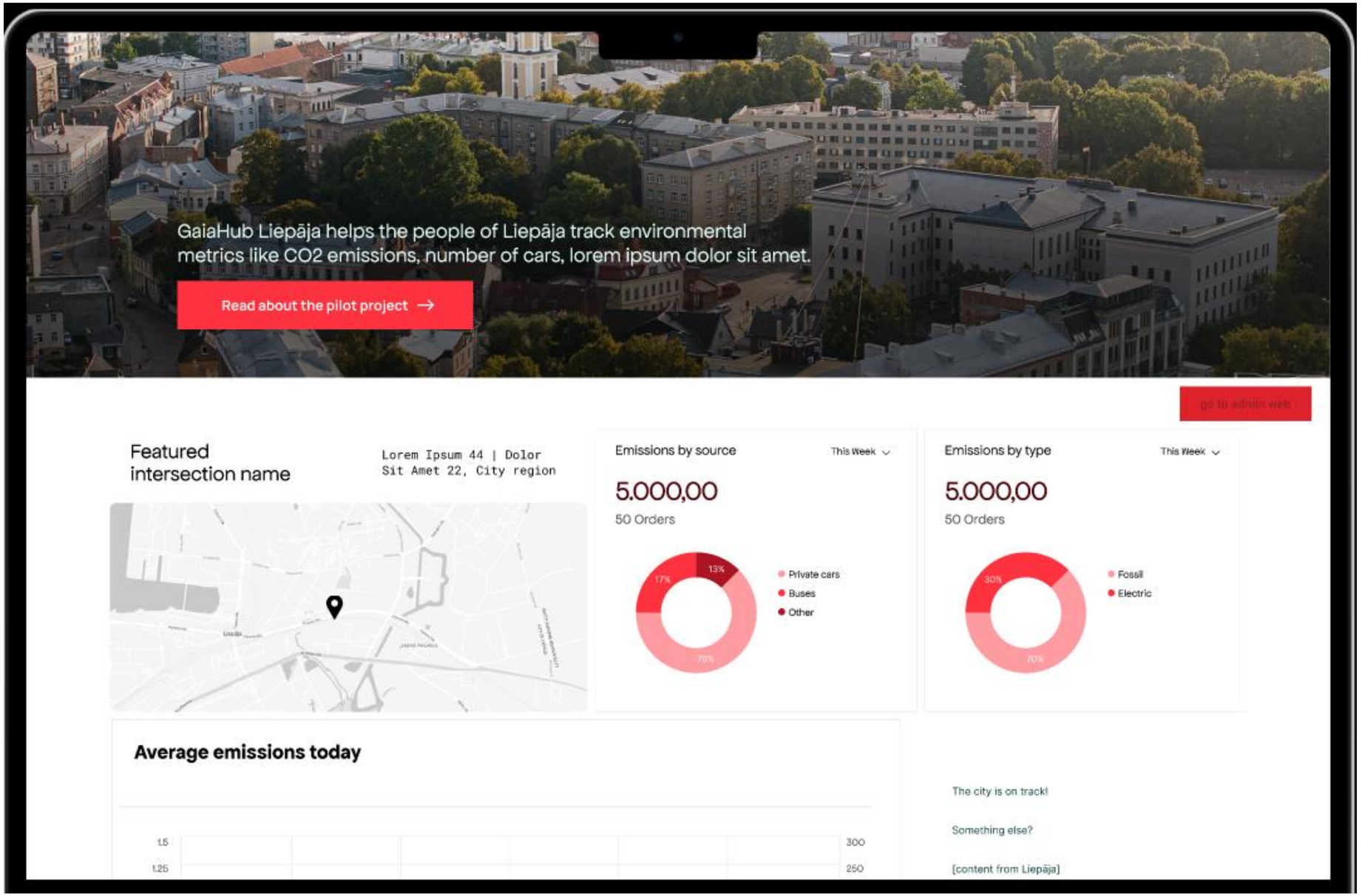
Stand code	Stand fill level	City	Address	Bin code	Device EUI	Bin fill level	Trash type	Status	RFID	Sensor ID
1	100%	Liepāja (LV-34)	Pludmale	1	89310834231039492796	100%	COMMUNAL	☑		SS7000CB1B
11				11	89310834231039513096	100%	COMMUNAL	☑		SS7000CA48
10	98%			10	89310834231039493606	98%	COMMUNAL	☑		SS7000CB34
12				12	89310834231039513176	98%	COMMUNAL	☑		SS7000CB1F
13	86%			13	89310834231039513256	86%	COMMUNAL	☑		SS7000CA4D
9	82%			9	89310834231039493526	82%	COMMUNAL	☑		SS7000CA50
6	78%			6	89310834231039493296	78%	COMMUNAL	☑		SS7000CA44
7	72%			7	89310834231039493376	72%	COMMUNAL	☑		SS7000CB30
15	71%			15	89310834231039513416	71%	COMMUNAL	☑		SS7000CB2F
8	69%			8	89310834231039493456	69%	COMMUNAL	☑		SS7000CB38
14	57%			14	89310834231039513336	57%	COMMUNAL	☑		SS7000CBDC
2				2	89310834231039492876	57%	COMMUNAL	☑		SS7000DCB2
5	34%			5	89310834231039493116	34%	COMMUNAL	☑		SS7000DCB5
4	33%			4	89310834231039493036	33%	COMMUNAL	☑		SS7000CB3A
3	27%			3	89310834231039492956	27%	COMMUNAL	☑		SS7000CA51

Initiative - Low emission zone CO2 monitoring

- Together with company «GaiaHub» develop new methodology for CO2 calculations
- Objective - establish a low-emission zone in Liepāja by integrating CO2 monitoring technology to reduce emissions
- Streamline data collection with advanced cameras and sensors to efficiently monitor and manage urban traffic emissions in real time

Co-funded by the European Union

Development of City’s data platform with «GaiaHub»



What’s next – new regulation for pilotterritories

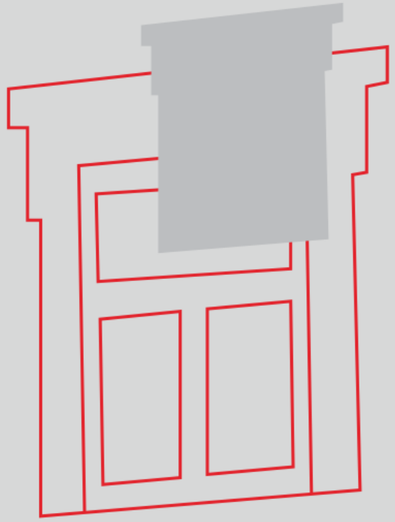
- Pilot territories will establish **low-emission zones** to enhance air quality and support climate neutrality.
- Key **locations** include Lielā street, residential areas, Liepāja SEZ, digital spaces, and public event areas, with additional options like schools and parks.
- Objectives include **reducing CO2** emissions, increasing resource efficiency, and boosting public engagement through data-driven urban planning.
- **Innovative technology** like air quality sensors and digital platforms will support participatory planning.
- Companies will receive **support** for testing sustainable solutions, with financing, infrastructure, and data access to foster green innovation.

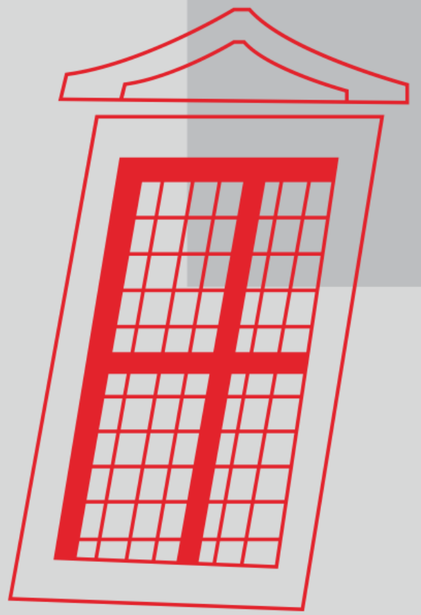
Existing barriers

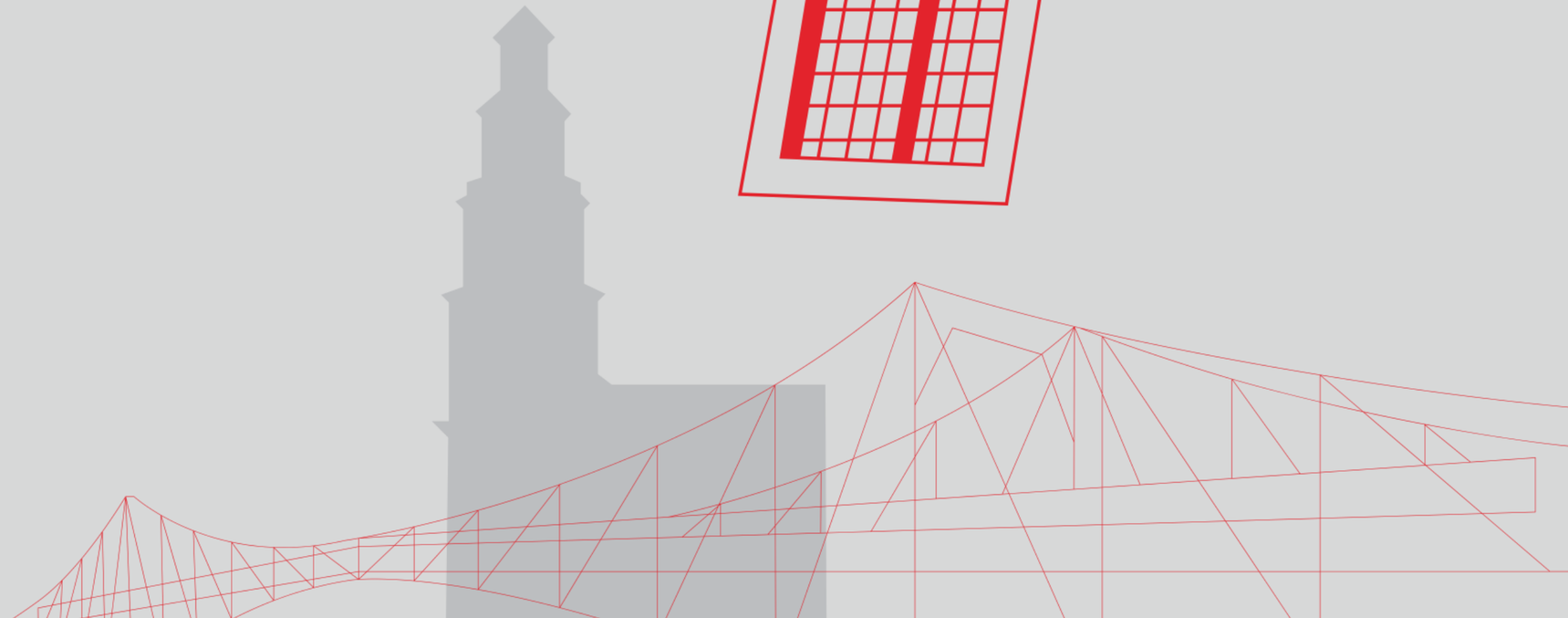
- Effective climate action often relies on more **active participation** and support of the community
- There is **lack of significance** at the national level
- The municipal **budget** funds are allocated primarily for ensuring basic needs, leaving little room for innovation or comprehensive projects

Liepāja

Thank you!







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

mpowerment Phase

owering your digital transformation

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

European Commission

LORDIMAS: YOUR DIGITAL MATURITY ASSESSMENT

European Commission

LORDIMAS: YOUR DIGITAL MATURITY ASSESSMENT

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speaker:

Rodolphe Doité, Project and Policy Manager (ERRIN)

European Commission

DISCOVER LORDIMAS

Your digital maturity assessment

Rodolphe Doité, ERRIN and Living-in.EU representative

Supported by:

European Commission · European Committee of the Regions · EUROCITIES · European Network of Living Labs · CCRE CEMR L'Europe locale & régionale · ERRIN European Regions Research and Innovation Network · OPEN & AGILE SMART CITIES · ESPON · Co-funded by the European Union Interreg

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

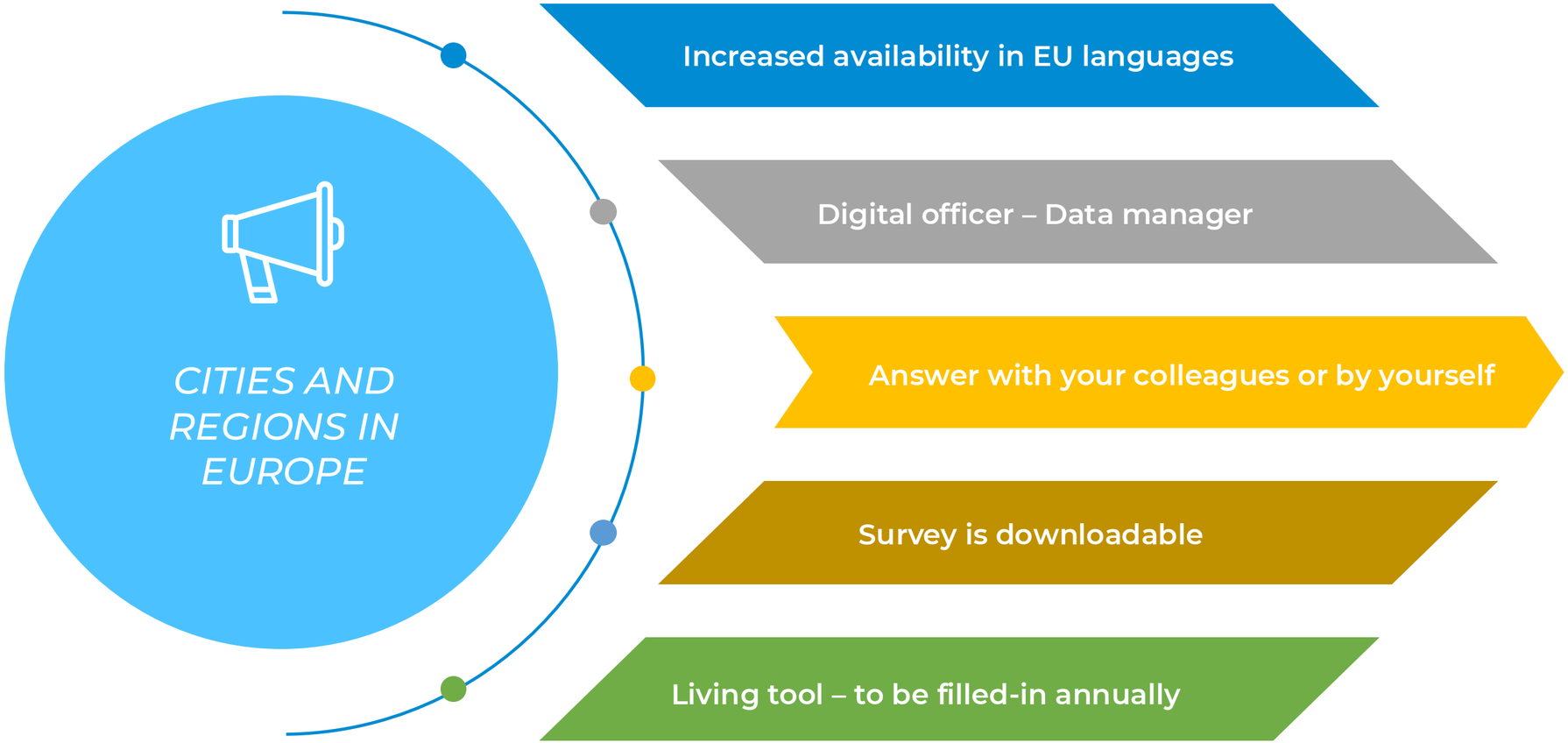
Policy recommendations

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?



Where do LORDIMAS come from?

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

How was LORDIMAS created?

A collaborative work with many stakeholders

How was LORDIMAS created?

A collaborative process

February 2023

First presentation in the M&M subgroup of Li.EU

Mars 2023

Launch of the ALPHA test for the LORDIMAS tool, focused on the survey

August 2023

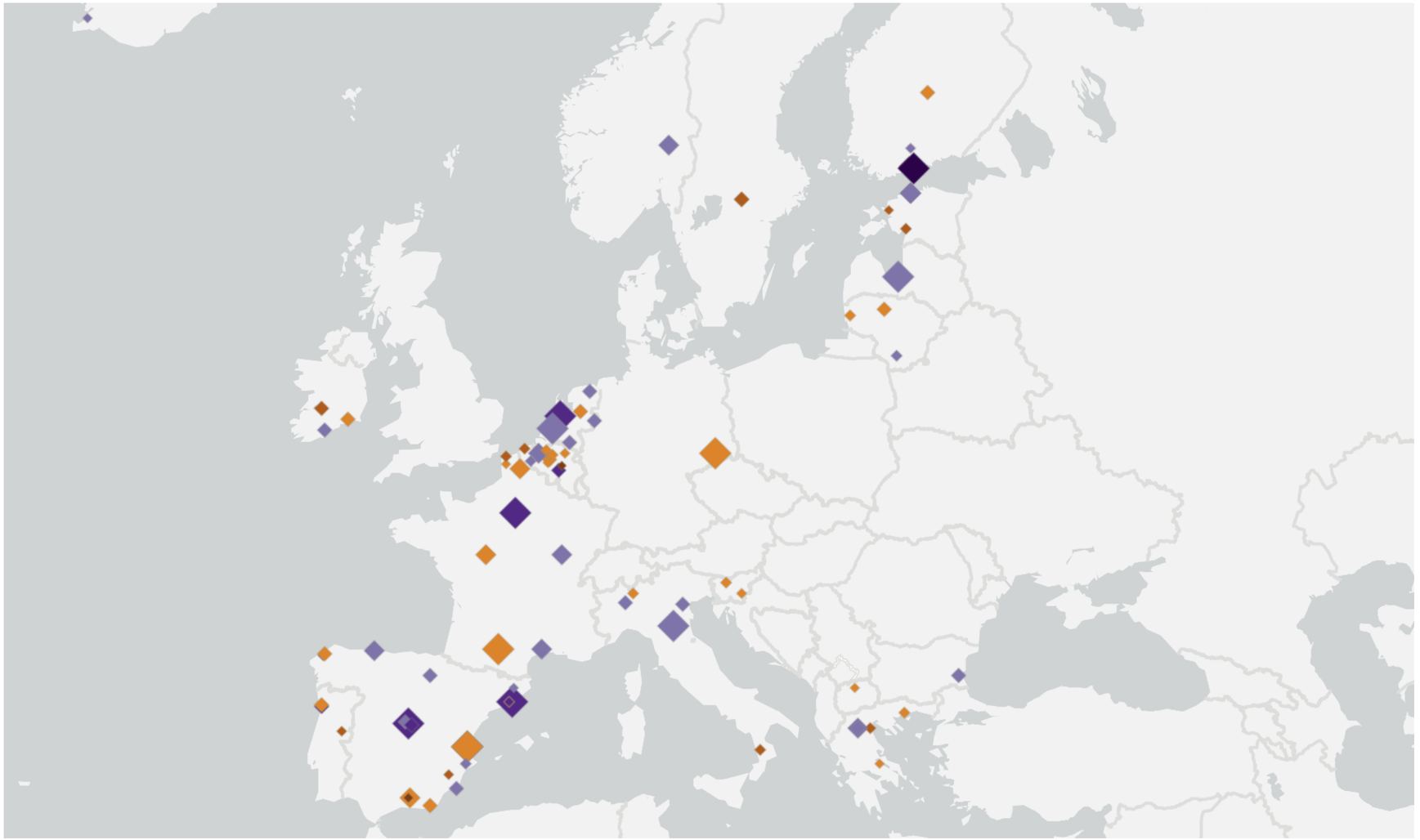
Launch of the BETA test on the full iteration of the LORDIMAS Platform

October 2023

Official release of the tool during the EWRC 2023

And since then?

A steady uptake



LORDIMAS
LIVING-IN.EU

And since then?

A steady uptake

88 answers

From 19 countries

1 in Latvia

With the support of Riga from the beginning of the process

90% of local authorities

With 80 answers in total on the 88

And now?

- Achieve **critical mass** to ensure the usability of LORDIMAS
- Foster **exchange of knowledge** through good practices
- Facilitate the **uptake of digital transformation solutions** at local and regional level

The role of Living-in.EU

- Integrate LORDIMAS as a Living-in.EU **asset**
- Foster **collaboration** and co-creation with Living-in.EU signatories
- **Support** signatories in using the tool

What are our objectives?

- Use the Monitoring and Measuring working group to **share the vision** of cities and regions
- Integrate **collaborative processes** on LORDIMAS in our activities
- Develop LORDIMAS for cities and regions, **with cities and regions**

Our ideas

- Collaborative work on the **good practices**
- **Co-creation** of future policy recommendations to harness the knowledge and expertise of cities and regions
- Integrate LORDIMAS in the local and regional authorities' **journey towards digital transformation**

SIGN THE
DECLARATION

Co-funded by the
European Union

MONITORING AND MEASURING WORKING GROUP

lordimas.espon.eu

Get in touch

rodolphe.doite@errin.eu

After the Break…

Phase 0: How to Start Your Digitalisation Journey

October 30th

14:00 EET

15:15 – 15:30	**Coffee Break**	
15:30 –15:55	**Online Procurement Helpdesk: developing your digitalisation roadmap**	**Genoveva Gil García |** Tech Lawyer & Project Manager, Serendipity **Anastasia Sarantopoulou |** Project lead & tech law consultant, Serendipity **Laine Celma |** Deputy IT Director, Riga Digital Agency
15:55–16:50	**EU Data Spaces, Open Data Platforms and Local Digital Twins**	**Janis Krakops |** Head of Data Management Unit, VARAM **Viktorija Tabakurska |** Ministry of Transport, State Road Infrastructure **Diāna Tumene |** Latvian State Roads, National Traffic Information Centre **Boriss Jelisejevs |** Latvian State Roads, National Traffic Information Centre **Edgars Indriksons |** Head of Data, Riga Digital Agency
16:50 – 17:25	**Supporting ecosystems: Living-in.EU, EDIC, and Innovation Movement VEFRESH**	**Gabriela Ruseva |** Living-in.EU Project Coordinator, Eurocities **Artis Gustovskis |** Digital Innovation Hub Manager, Kuldiga **Arnis Gulbis |** Director, Riga City Council
17:25 – 17:35	**Funding opportunities**	**Viesturs Celmins |** Managing Director VEFRESH
17:35 – 17:45	**Closure, Next Steps, Living-in.EU ceremony**	**Viesturs Celmins |** Managing Director VEFRESH
17:45 – 18:30	**Networking Reception**	

European Commission

ONLINE PROCUREMENT HELPDESK: DEVELOPING YOUR DIGITALISATION ROADMAP

European Commission

ONLINE PROCUREMENT HELPDESK: DEVELOPING YOUR DIGITALISATION ROADMAP

Moderator:

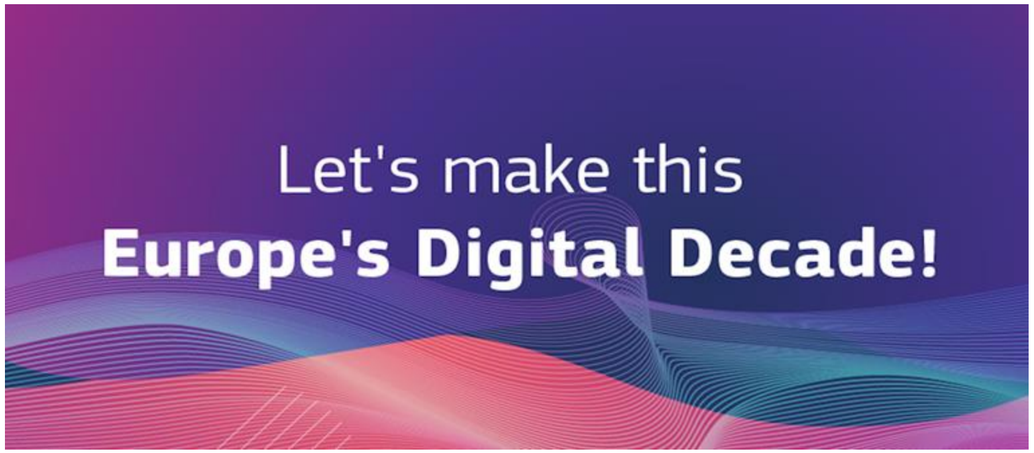
Viesturs Celmins, Managing Director VEFRESH

Speakers:

- **Genoveva Gil García,** Tech lawyer & Project Manager , Serendipity
- **Anastasia Sarantopoulou**, Project Lead & tech law consultant, Serendipity
- **Laine Celma,** Deputy IT Director, Riga Digital Agency

European Commission

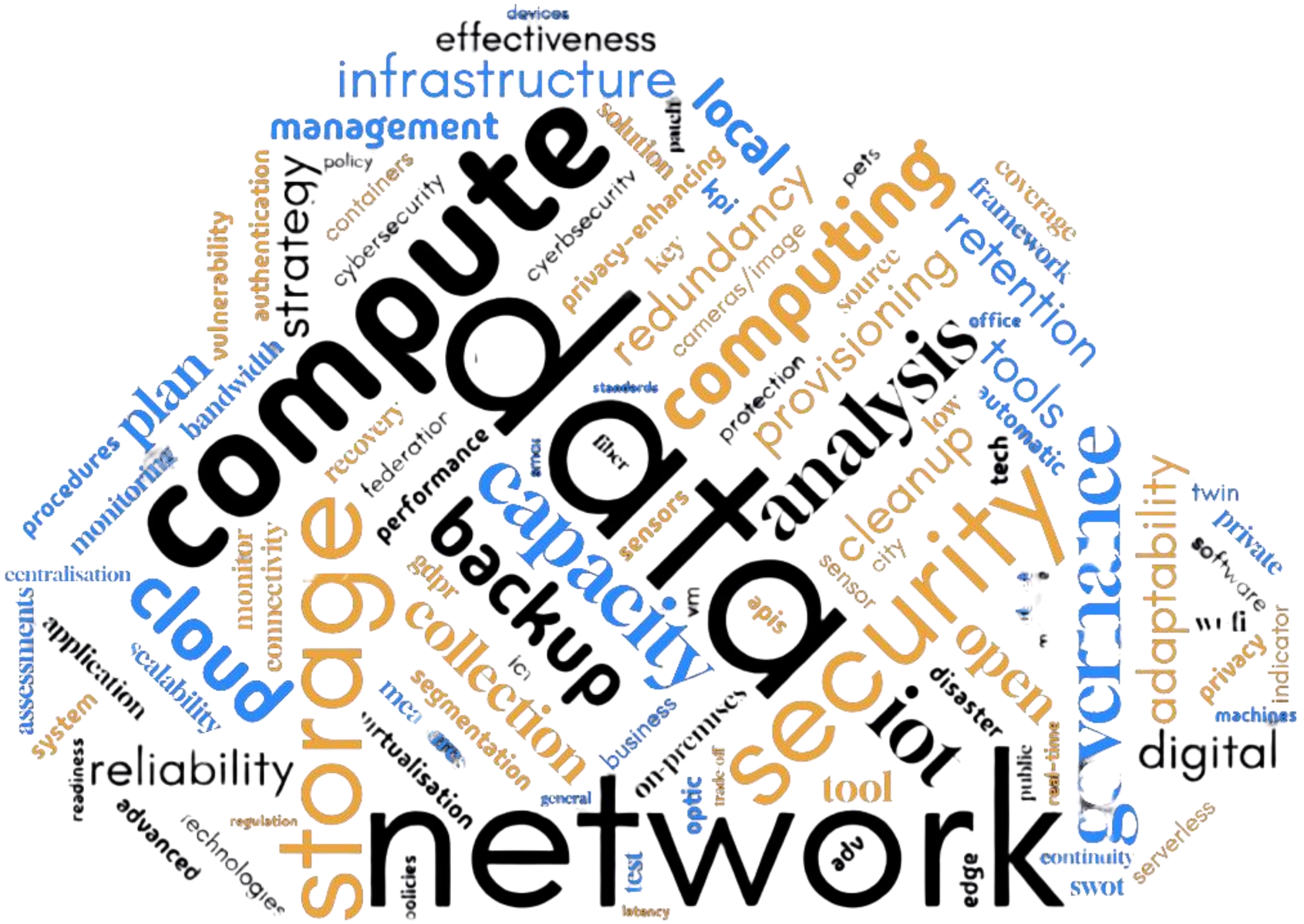
The importance of developing digitalisation roadmaps



National Digital Decade strategic roadmaps

European Commission

What Digital Transformation Concepts Need to be in Place



European Commission

How to Develop Your Digitalisation Roadmap

Strategy and decision makers

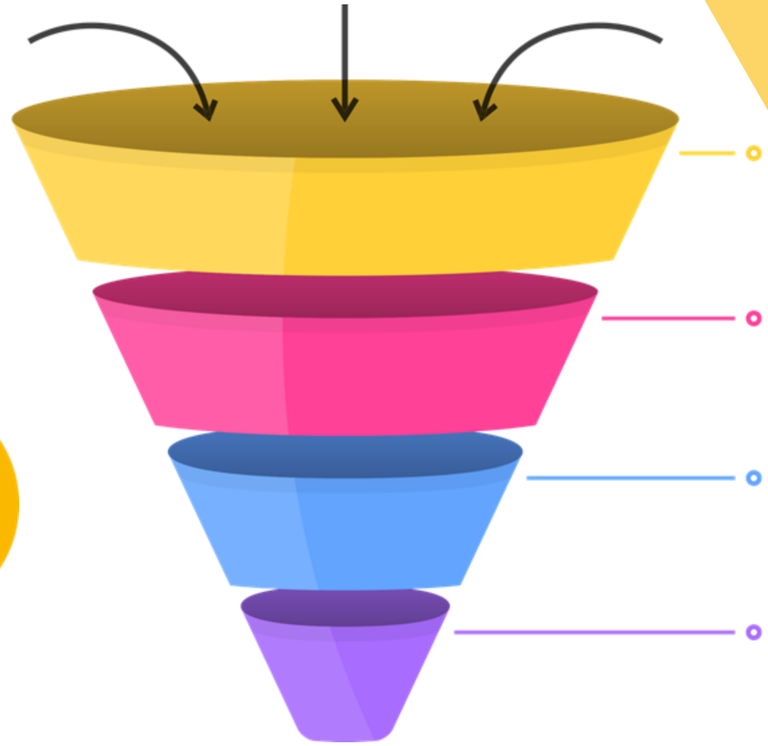
IT/Data/Architecture specialists

Thematic experts

Digital Maturity Assessment

Strategy Assessment

IT Infrastructure Assessment



Digital transformation roadmap

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

European Commission

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.

European Commission

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

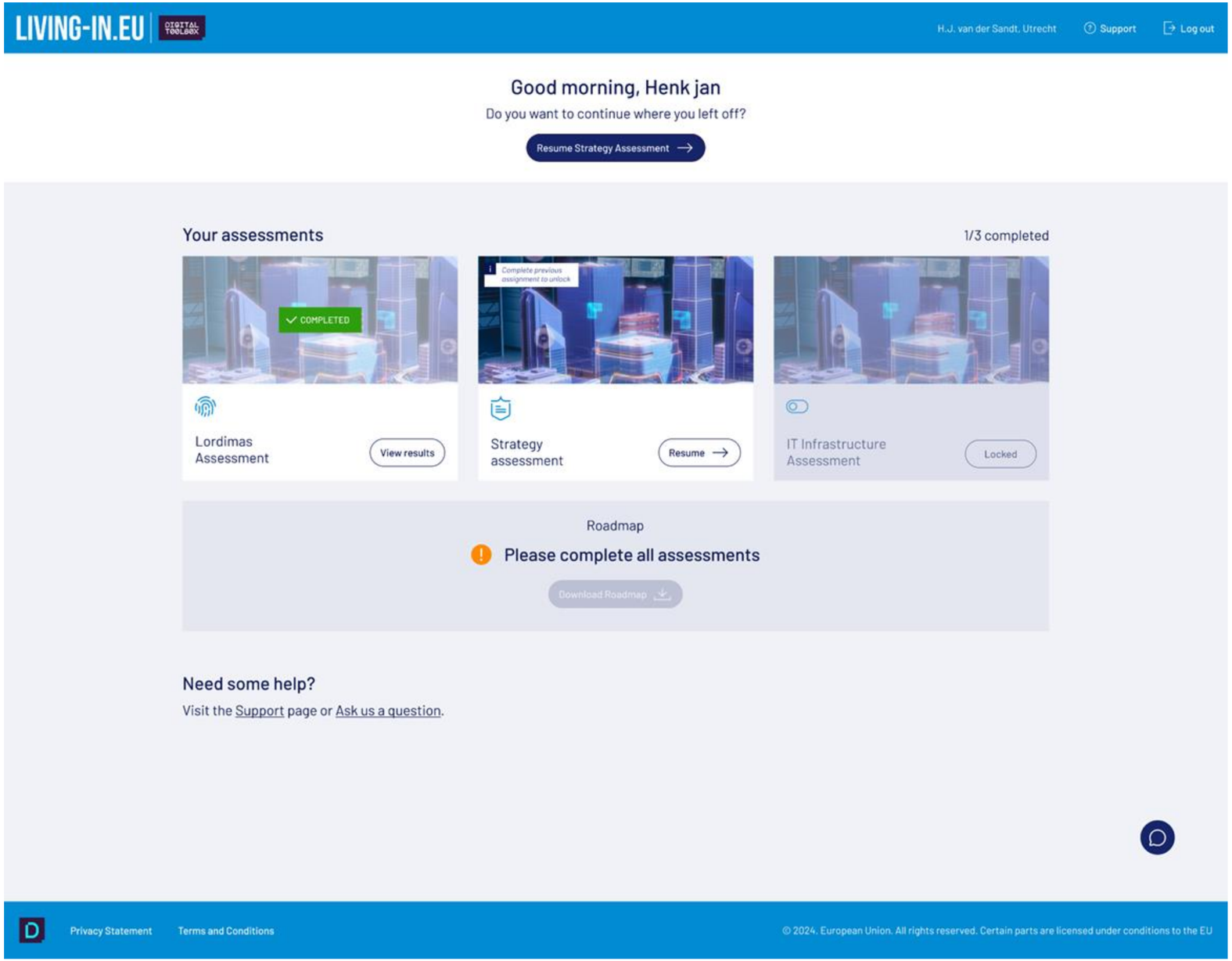
Receive support to identify procurement needs and templates

European Commission

*CGAs (City Guiding Agents)

*Local and Regional Digital Maturity Assessment

Procurement Helpdesk



European Commission

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.

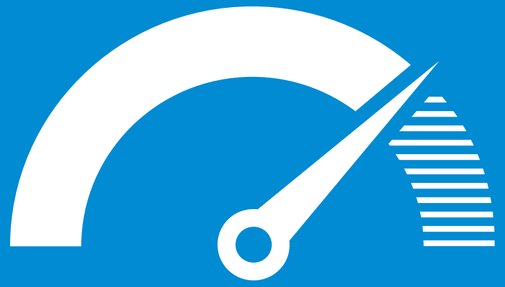
The main goal of this Assessment is to **understand a community' strategic priorities on digitalisation** as well as the key investment areas in terms of services and sectors.

European Commission

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

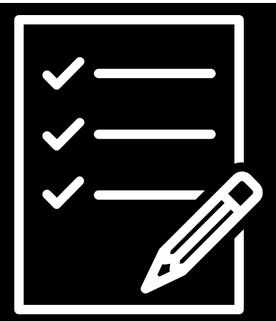


Aims to characterise the current maturity level of digital platforms/ verticals and their interoperability. It will also contribute to a better understanding of which data process mechanisms are in place and how data collection is handled

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

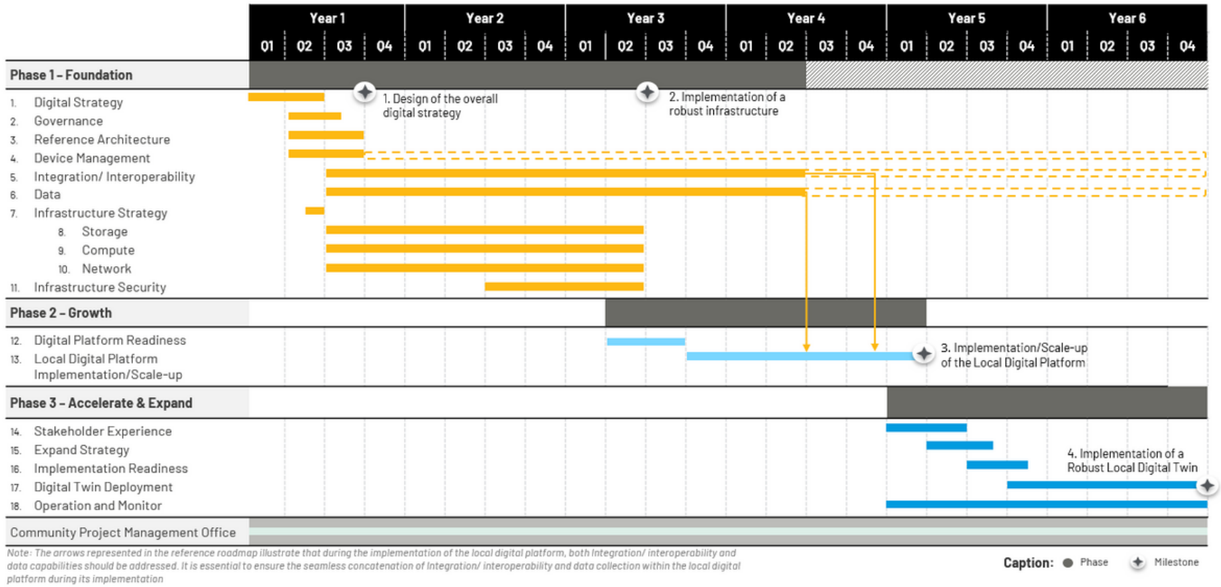


Tailored roadmap initiatives fundamental to the development of a Local Digital Platform and later a Local Digital Twin, according to the maturity of capabilities found at this stage.

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

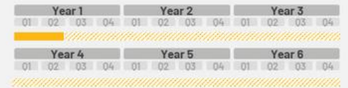
Device Installation

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 **reassure the strategy, facilitating procurement.**
- Offers another point of view to **evaluate current gaps and investment priorities**.

European Commission

More information about the Online Procurement Helpdesk

ONLINE PROCUREMENT HELPDESK: DEVELOPING YOUR DIGITALISATION ROADMAP

THANK YOU! PALDIES!

Express your interest!

ANY QUESTIONS?

genoveva@serendipity.buzz
anastasia@serendipity.buzz

European Commission

Advancing initial stages for the transformation of smart communities

Digital Transformation Roadmap

Riga

Laine Celma, Deputy IT Director,

Riga Digital Agency

Riga Assesment Scores

Digital Maturity (LORDIMAS Assessment)

Governance	Service Design	Data Management	Interoperability	Service Delivery	Technology	Networking
Digitally purposeful	Digitally emerging	Digitally purposeful	Digitally purposeful	Digitally emerging	Digitally emerging	Digitally purposeful

Technical Maturity (LORDIMAS Assessment, Strategy Assessment, IT Infrastructure Assessment)

Digital Strategy	IoT Devices	Local Digital Platform	Integration/ Interoperability	Data	Storage	Compute	Network	Infrastructure Security
✓ Yes, we have a digital strategy	3	✗ Under development/ implementation	4	3	3	4	4	3

Caption: ✓ In place ✗ Not in place 1 Not at all 2 Initial exploration 3 Basic utilisation 4 Advanced utilisation 5 Outstanding utilisation

Riga’s involvement

- **Initial Self-Assessment (March/April 2024)**
- Riga completed its first digital maturity assessment with LORDIMAS six months ago. This initial step provided a baseline overview of Riga’s digital capabilities and identified key areas for improvement.
- **Current Focus: Roadmap Development as Step 2**
- Based on the assessment, Riga is now moving forward with a structured **roadmap** aimed at **enhancing digital infrastructure**, improving service efficiency, and strengthening **cybersecurity**. This roadmap represents the second step in **Riga’s digital transformation journey.**

Why do we need it?

Future Value of LORDIMAS in Project Applications

- The LORDIMAS tool not only tracks digital progress but also serves as a strategic advantage, adding bonus points to project applications by demonstrating a structured approach to digital maturity.

Annual Review Process

- LORDIMAS will conduct annual reviews, assessing Riga’s advancements and measuring progress in key areas. This consistent evaluation a**llows Riga to continuously climb the digital maturity scale**, ensuring targeted and effective growth.

Strategic priorities identified for Riga

- **Improved Cybersecurity Protocols**: Strengthening data protection and securing critical infrastructures.
- **Enhanced Smart Data Utilization**: Supporting data-driven decisions across municipal services.
- **Expansion of Digital Services**: Increasing public access and engagement with digital tools.

EU DATA SPACES, OPEN DATA PLATFORMS AND LOCAL DIGITAL TWINS

European Commission

EU DATA SPACES, OPEN DATA PLATFORMS AND LOCAL DIGITAL TWINS

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speakers:

- **Janis Krakops,** Head of Data Management Unit, VARAM
- **Viktorija Tabakurska,** Ministry of Transport, State Road Infrastructure
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European Commission

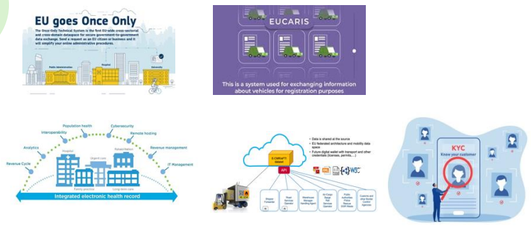
Viedās administrācijas un reģionālās attīstības ministrija

DATU JOMAS EVOLŪCIJA

1

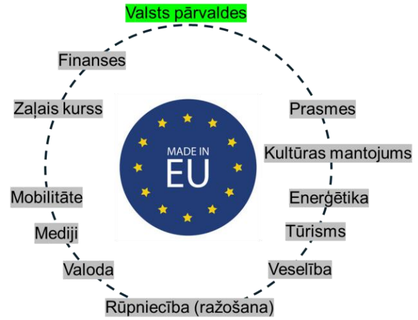
Datu apkopošana pamatdarbības ietvaros

2



Datos balstītu integrētu risinājumu izstrāde

3

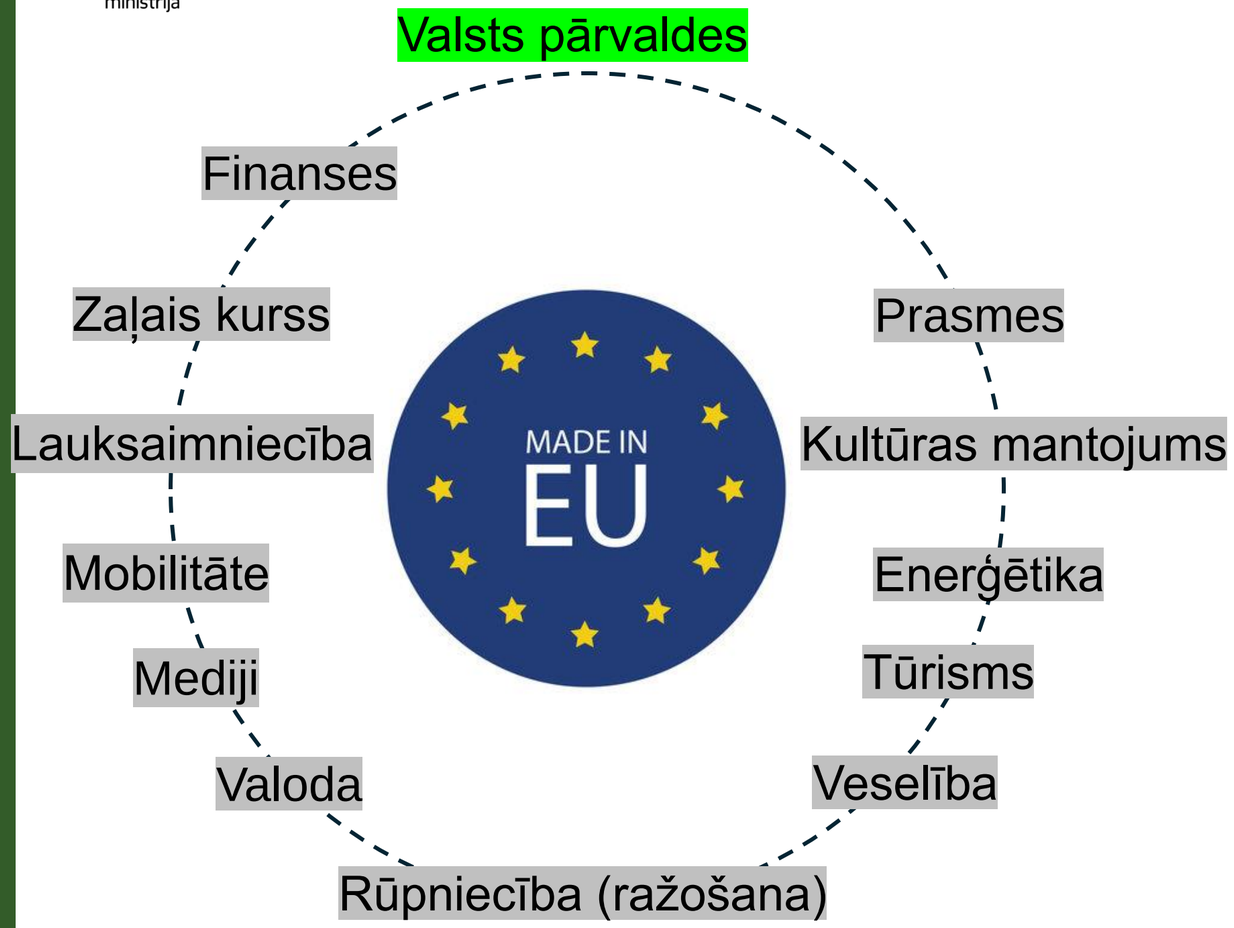


Standartizētas un vienotas datu ekosistēmas izveide

LOADING...

Viedās administrācijas un reģionālās attīstības ministrija

ES vienotās datu telpas



Organisational and Business Building Blocks

Business	*Governance*	*Legal*
Business Model Development	Organisational Governance	Regulatory Compliance
Use Case Development	Data Sharing Governance	Contractual Framework
Data Product Development		
Data Space Intermediary		

Technical Building Blocks

Data Interoperability	*Data Sovereignty & Trust*	*Data Value Creation*
Data Models	Access & usage policies and control	Data, Services and Offerings descriptions
Data Exchange	Identity Management	Publication and Discovery
Provenance & traceability	Trust	Marketplaces

Viedās administrācijas un reģionālās attīstības ministrija

Galvenais ir biznesa mērķis nevis tehniskais izpildījums

Rūpniecības un ražošanas datu telpa
Mērķis: Atbalstīt rūpniecības sektora digitālo transformāciju**, nodrošinot piekļuvi liela mēroga rūpniecības datiem**, uzlabojot darbības efektivitāti, produktu inovācijas un ilgtspēju.

Zaļā kursa datu telpa
Mērķis: **Veicināt vides datu apmaiņu, lai atbalstītu Eiropas Zaļā kursa mērķus, tostarp samazinātu oglekļa emisijas**, atbalstītu bioloģisko daudzveidību un veicinātu ilgtspējību enerģētikā, lauksaimniecībā un citos sektoros.

Veselības datu telpa
Mērķis:, **Nodrošināt** drošu un standartizētu **piekļuvi veselības datiem** visā ES lai **uzlabotu veselības aprūpi, pētniecību un personalizētu medicīnu**, vienlaikus nodrošinot pacientu privātumu, ievērojot GDPR prasības.

Valsts pārvaldes datu telpa
Mērķis: **Veicināt efektīvākus un pārredzamākus valsts pakalpojumus**, nodrošinot datu apmaiņu starp publiskajām institūcijām, pašvaldībām un ES līmenī, vienlaikus aizsargājot iedzīvotāju datu privātumu.

Viedās administrācijas un reģionālās attīstība ministrija

Datu telpu radars

Viedās administrācijas un reģionālās attīstības ministrija

Digitālās Eiropas programma 2021.-2027.gadam

Calls for proposals

Calls for proposals are funding opportunities issued by the European Union institutions, agencies and bodies. These are direct financial contributions, known as grants, that are awarded to third-party beneficiaries (e.g., research organisations, public entities, non-governmental organisations, and private companies) to engage in activities that serve EU policies.

More details

Filters

Quick search

data space

2021 - 2027

Digital Europe Programme (DIGITAL)

Call

Submission status

All filters

2 item(s) found

Programme Digital Europe Programme (DIGITAL)

Towards networked Local Digital Twins in the EU

DIGITAL-2024-CLOUD-DATA-AI-07-DIGITALTWIN | Call for proposal

Opening date: **04 July 2024** | Next deadline: **21 November 2024** | Single-stage

Programme: **Digital Europe Programme (DIGITAL)** | Type of action: **DIGITAL Grants for Financial Support**

Call for Pilots within the European data space for smart communities (submission round 2)

DS4SSCC-DEP | Cascade funding

Opening date: **01 September 2024** | Next deadline: **01 December 2024** | Single-stage

Programme: **Digital Europe Programme (DIGITAL)** | Type of action: **-**

Items per page: **50**

Showing 1–2 of 2

Share this page

Viedās administrācijas un reģionālās attīstības ministrija

Datu apmaiņa valsts pārvaldē

3 **Datu apmaiņa DAGR**

DAGR

Savienotājs

Savienotājs

Datu devēji

Datu ņēmēji

1 Datu devēji apraksta datus VIRSIS sistēmā

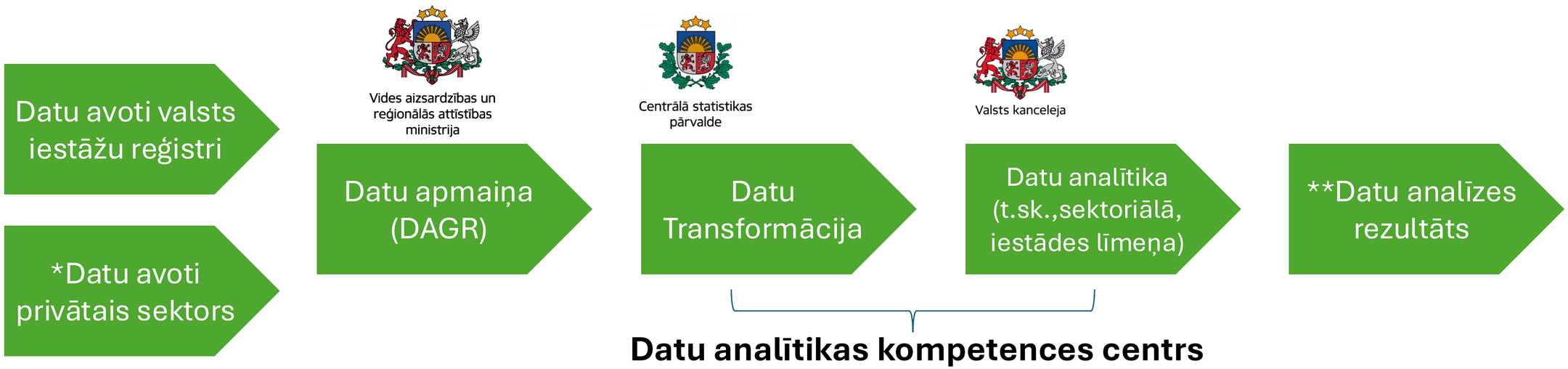
2 Datu ņēmēji pieprasa datus VIRSIS (standartizēta vienošanās)

VIRSIS

Informācijas resursu aprakstīšana (metadati) un līgumu noslēgšana

Viedās administrācijas un reģionālās attīstības ministrija

Datu analītika



Uzdevumi kas izriet no DGA	Personalizēti analītikas produkti
Nodrošināt datu analīzei nepieciešamos datus	TBD
Nodrošināt datu anonimizāciju (metodisko atbalstu)	TBD
Nodrošināt droši apstrādes vidi, kas atbilst DGA prasībām	TBD

Viedās administrācijas un reģionālās attīstības ministrija

Turpmākie soļi

Līdz 31.12.2024.

- **TAP portālā uz saskaņošanu tiks publicēta «Datu pārvaldības un koplietošanas stratēģija 2025.-2029.gadam»**

- **TAP portālā uz saskaņošanu tiks publicēts konceptuālais ziņojums «Par valsts pārvaldes datu analītikas kompetences centra» izveidi.**

EU DATA SPACES, OPEN DATA PLATFORMS AND LOCAL DIGITAL TWINS

Moderator:

Viesturs Celmins, Managing Director VEFRESH

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European Commission

National Access Point (NAP) for mobility data

LATVIJAS VALSTS CEĻI

TRANSPORT MOBILITY

transportdata.gov.lv

Satiksmes ministrija

National Access Point (NAP) of Intelligent Transportation System domain (ITS) is a node (f.i. web portal in Latvia), where mobility-related data are concentrated and published as EU-specified open datasets.

NAPs were mandatory set up to facilitate access, easy exchange and reuse of transport related data in Europe, e.g. to support the provision of EU-wide interoperable travel and traffic services to end users and next-gen mobility services (CCAM, MAAS).

napcore

DATEX II

EUEIP European ITS Platform

TN-ITS Map Update Exchange

TISA Traveller Information Services Association

ERTICO ITS EUROPE

European Commission

Legal framework for NAP

Basis for the creation of the NAP is the ITS (EU) Directive with a set of corresponding Delegated Regulations for certain type ITS service provision.

LV NAP's actual focuss

ITS Directive 2010/40/EU

ITS Directive (EU) 2023/2661

Delegated Regulation (EU) 2017/1926 – EU-wide multimodal travel information services (MMTIS)

Delegated Regulation (EU) 2015/962 – EU-wide real-time traffic information services (RTTI)

Delegated Regulation (EU) 2022/670 – EU-wide real-time traffic information services (RTTI)

Delegated Regulation (EU) No 886/2013 – Safety-related (minimum universal) traffic information (SRTI)

Delegated Regulation (EU) No 885/2013 – Safe and secure parking places for trucks (SSTP)

Delegated Regulation (EU) 2024/490 EU-wide multimodal travel information services (MMTIS)

ITS sector before NAP

Mobility services

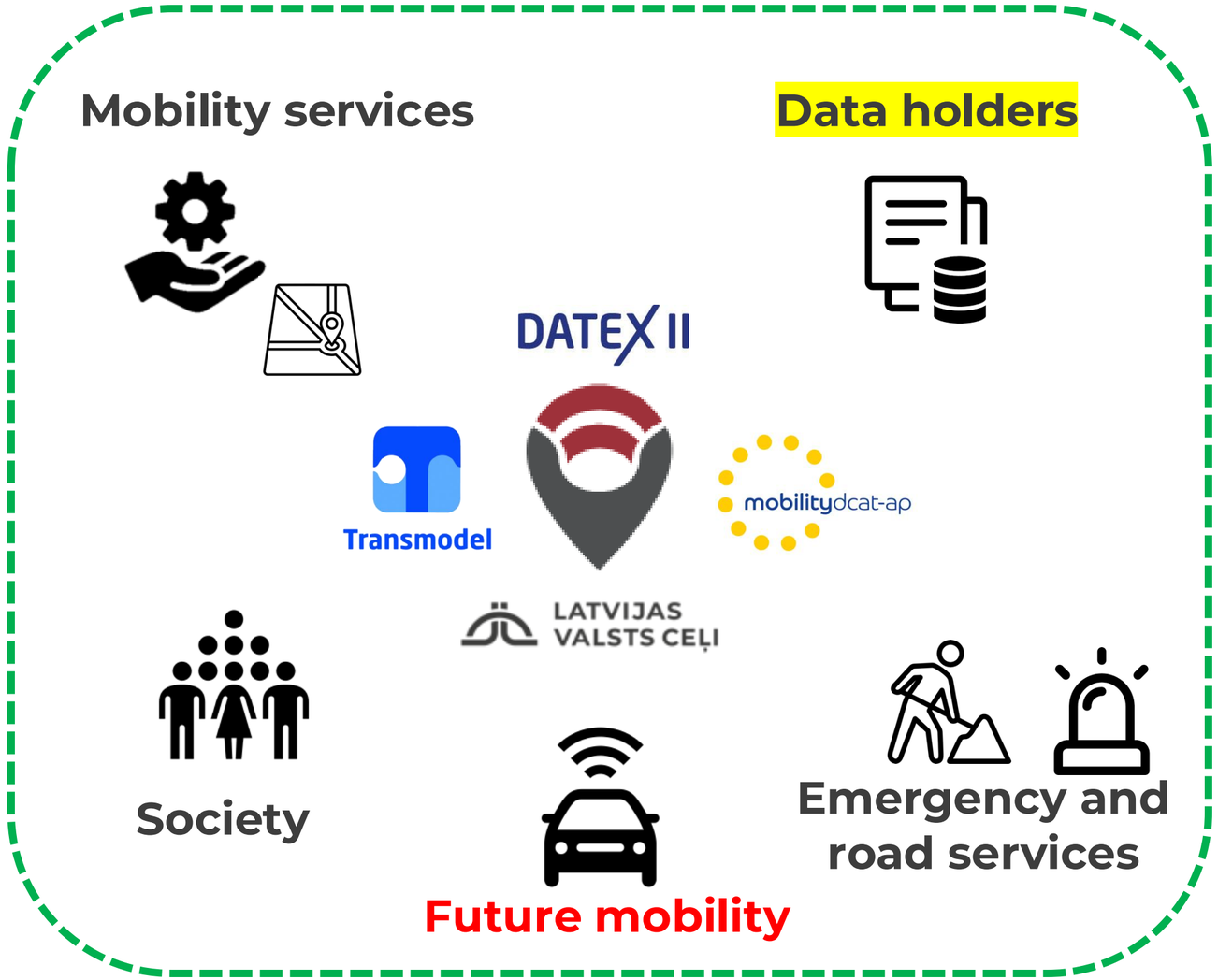
Data holders

Society

Emergency
and road services

- Incompatible data formats, standards and services
- Fragmented data sources
- Different levels of data quality
- Lack of unified principles for transport data exchange and reuse
- Parallel and duplicate operations

ITS sector with NAP



- Centralized and unified transport and mobility data exchange at the EU level (unified quality, data standards, exchange protocols)
- Comprehensive support for today's and future mobility services
- Harmonization of NAPs at the EU level, as cross-domain framework, services, standards, metadata and development strategy

Data flow through NAP

Data provider → **Data clients**

TEN-T Network
Government roads
Urban notes

Road equipment data
Road data
Traffic incidents
Public transport data

Road authorities
Alternative fuels station operators
Traffic information centre
Public transport operators

DatexII
SIRI
NeTEX

MQTT
HTTP/HTTPS
API
REST

Road safety-traffic data (SRTI)
Real time data (RTTI
Multimodal data (MMTIS)
Parking places (SSTP)

temporary slippery road

obstacles, debris on the road

animal, people on the road

road network links and their physical attributes

Short term roadworks

data on regulations and restrictions

recharging points and stations for electric vehicles

data on the state of the network

dynamic travel and traffic data

trip plan computation – for scheduled transport

Other data types

NAP

Datex II publications

Transmodel publications

Other open mobility data publications

Public UI interactive map

European Commission

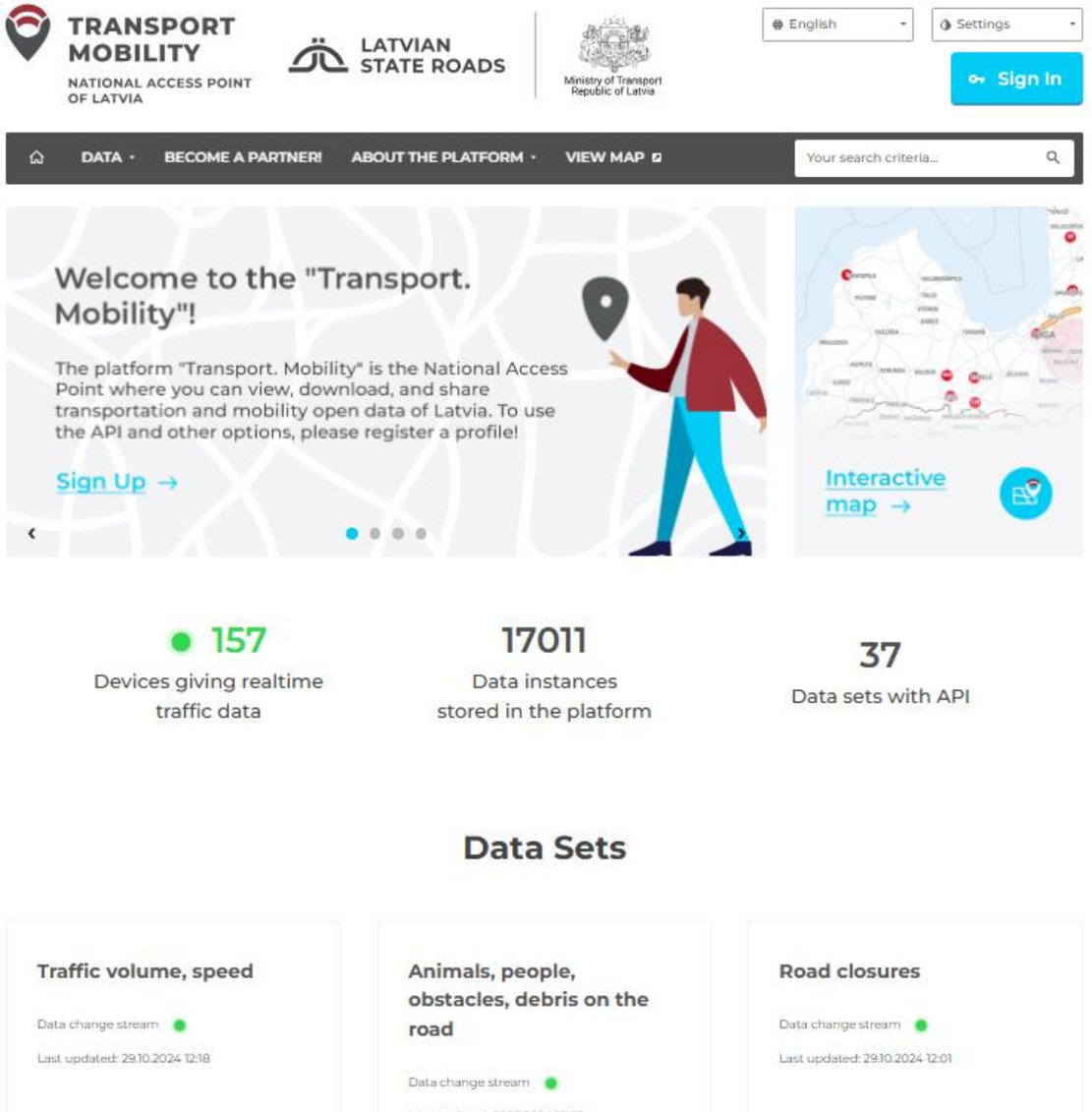
TRANSPORTS MOBILITĀTE

NAP platform

The main functions:

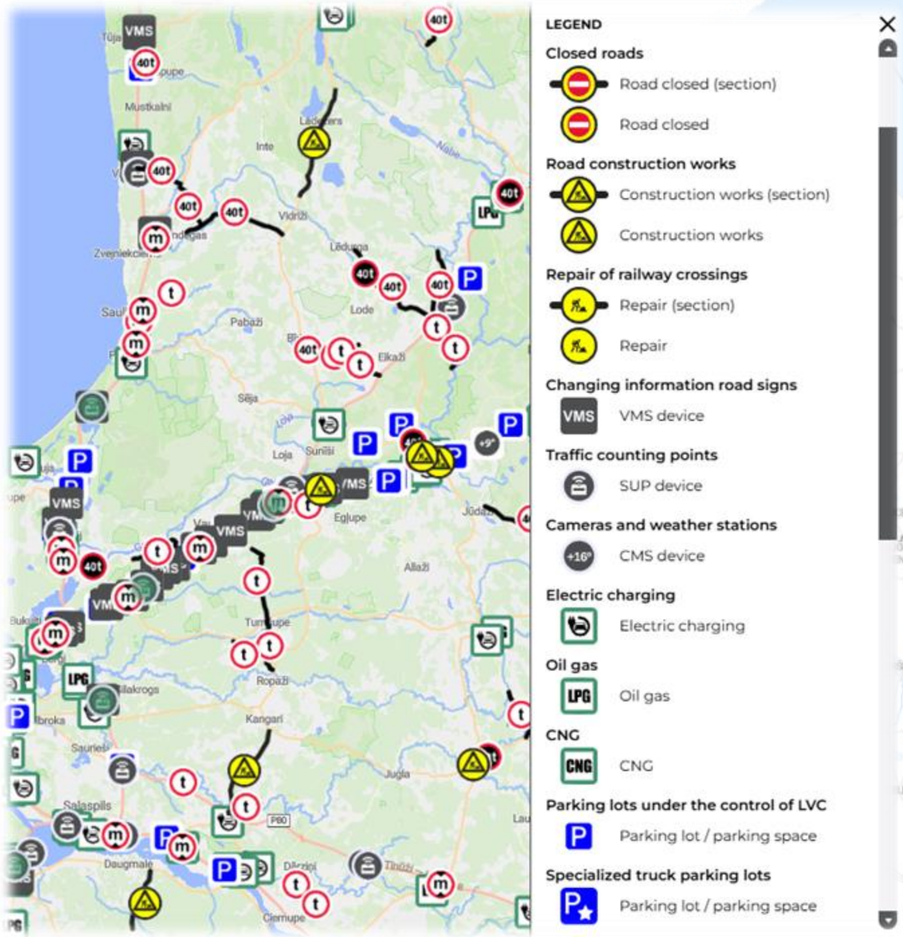
- Exchange (submission and subscription) of open transport and mobility data
- Viewing and searching data in the data catalog, interactive map
- Automated submission and subscription of data and data change flow using a software interface (API), MQTT protocol

Website address: transportdata.gov.lv



European Commission

NAP interactive map



LEGEND

Closed roads
- Road closed (section)
- Road closed

Road construction works
- Construction works (section)
- Construction works

Repair of railway crossings
- Repair (section)
- Repair

Changing information road signs
- VMS device

Traffic counting points
- SUP device

Cameras and weather stations
- CMS device

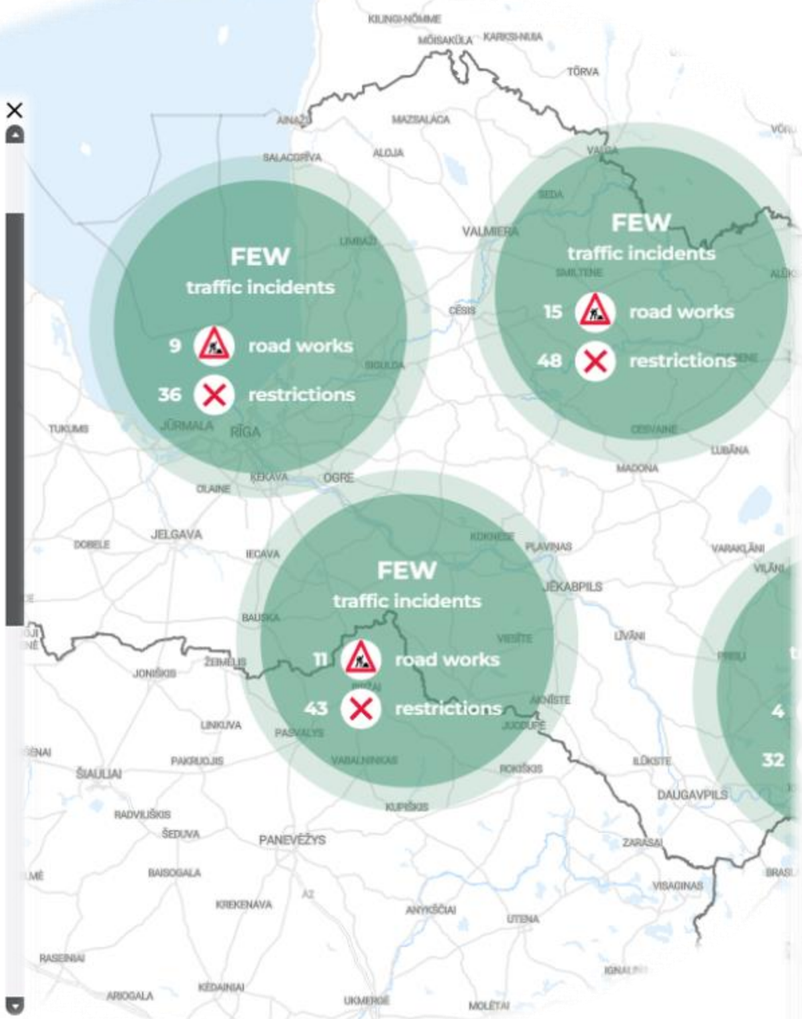
Electric charging
- Electric charging

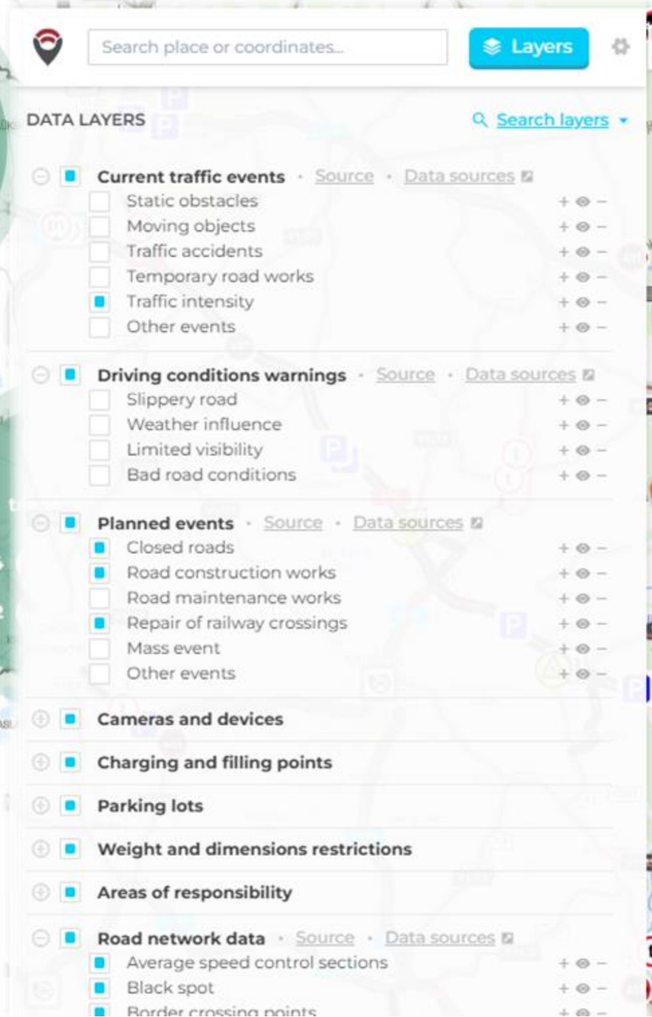
Oil gas
- Oil gas

CNG
- CNG

Parking lots under the control of LVC
- Parking lot / parking space

Specialized truck parking lots
- Parking lot / parking space





European Commission

The nearest NAP-related plans

- LV Government Rules regarding data provision to NAP will come in force soon, so new data providers (primaraly from the public sector) will be requested to join NAP on their own
- Data provision from municipalities and operators of electric cars' charging points
- MMTIS provision from the Directorate of road transport
- Up to 4 different data provision schemes to NAP for the prompt choice in every situation

LATVIJAS VALSTS CEĻI

TRANSPORT MOBILITY

Satiksmes ministrija

We invite all the stakeholders for further cooperation!

European Commission

EU DATA SPACES, OPEN DATA PLATFORMS AND LOCAL DIGITAL TWINS

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speakers:

- **Janis Krakops,** Head of Data Management Unit, VARAM
- **Viktorija Tabakurska,** Ministry of Transport, State Road Infrastructure
- **Diāna Tumene,** Latvian State Roads, National Traffic Information Centre
- **Boriss Jelisejevs,** Latvian State Roads, National Traffic Information Centre
- **Edgars Indriksons**, Head of Data, Riga Digital Agency

European Commission

Securely share data across borders

European data strategy

- creating common European data spaces in key areas like health, public administration, energy, and industry
- Emphasis on data sovereignty, trust and security
- Stategic use for public benefit

Open data platforms in action

- GEO Riga
- Riga.API portal
- Public data - accessible for developers, business and citizens
- Innovation and better governance

Minimal Interoperability (MIM's)

- A crucial element in the success of digital twins and data spaces
- Riga has already started adopting MIM's > better data exchange and integration across municipal services
- OASC has a largerly supportive role, focusing on quality management

Challenges

DATA SECURITY

PRIVACY CONCERNS

STANDARTIZATION ISSUES

TECHNOLOGICAL CHALLANGES

& Opportunities

ENERGY EFFICIENCY

TRAFFIC MANAGEMENT

POLLUTION CONTROL

DECISION MAKING

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European Commission

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 & VEFRESH

European Commission

SUPPORTING ECOSYSTEMS

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speakers:

- **Gabriela Ruseva,** Governance of Living-in.EU Project Coordinator, Eurocities
- **Artis Gustovskis,** Digital Innovation Hub Manager, Kuldiga municipality
- **Edgars Indriksons**, Head of Data, Riga Digital Agency

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!

VEFRESH can facilitate your participation and support you in using the resources offered!

VEFRESH

European Commission

LIVING-IN.EU

5G TECHRITORY

LIVING-IN.EU

JOIN, BOOST, SUSTAIN

Supporting Ecosystems

Digital Kuldiga Innovations

Living-in.EU Community

by Mg. soec. **Artis Gustovskis**

Kuldiga Digital Innovation Hub

artis@kuldiga.lv

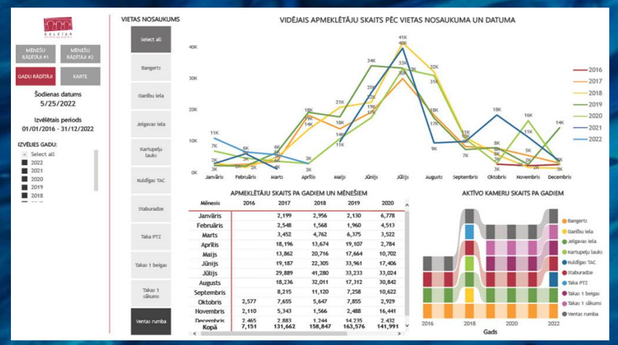
Kuldiga OldTown
UNESCO World Heritage

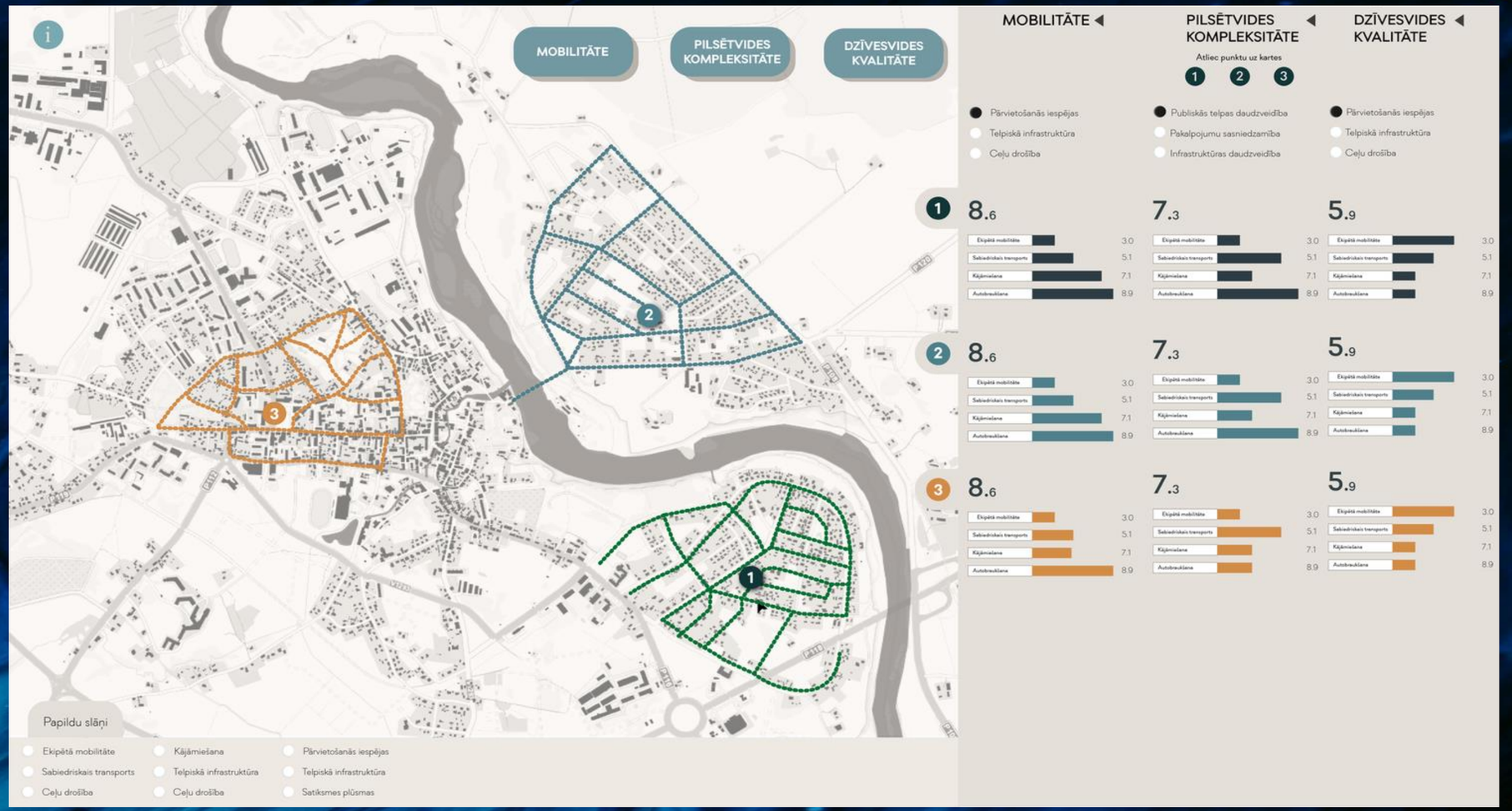
Since 2023 Kuldiga Old Town is included in UNESCO World Heritage List

Development of a **Big-Data-**based **Mobility** planning **Tool** in Kuldiga

Project by **Vividly Urban** **Jaņa Seta** **Kuldiga DIH**

Video cameras and sensors combined with machine learning.
Video analytics provides the widest and most comprehensive identification and classification of movement participants, providing the opportunity to analyze, for example, movement flows, identification of problem areas of congestion, occupancy of parking lots, etc.



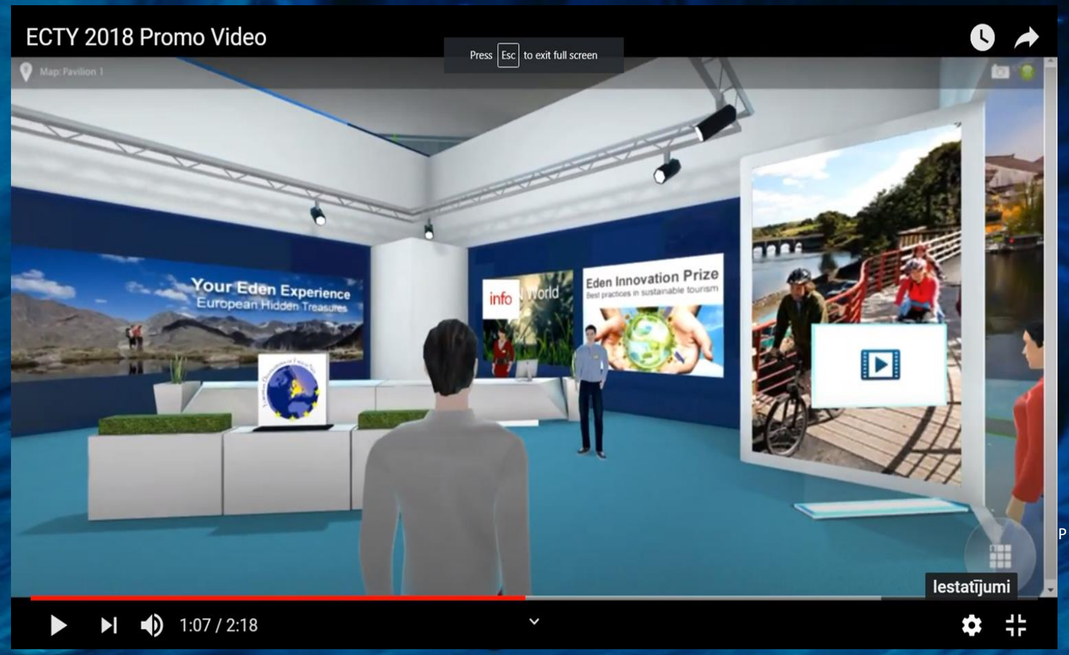


https://www.vividlyurban.eu/blogs/projekta-datos-bzta-mobilittes-plnoanas-rka-izstrde-noslgums

Co-creation of the

1st EU-China **Virtual Travel** Fair

SMART TOURISM DESTINATIONS



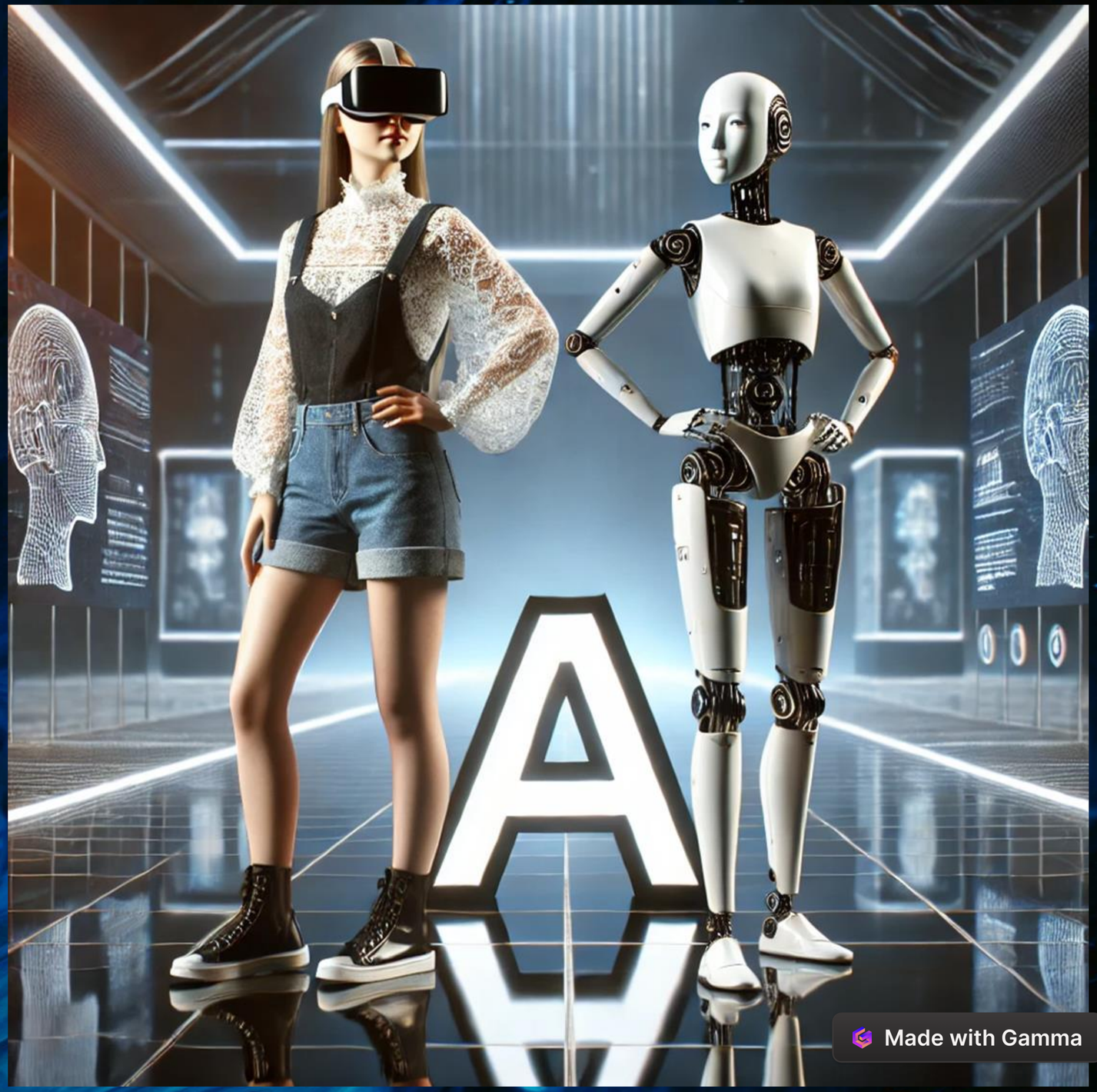
https://www.youtube.com/watch?v=3fs8KQgEE94&t=2s

Made with Gamma

EU-TECH-GIRLS Project

It's all about AI

Kuldiga(Latvia) –
Pedreguer (Spain)



Made with Gamma

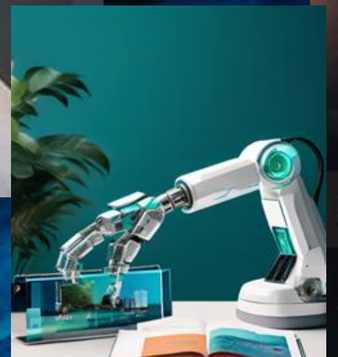
VIRTUAL REALITY

for Education Network

MINOX 2022-2023 Innovations

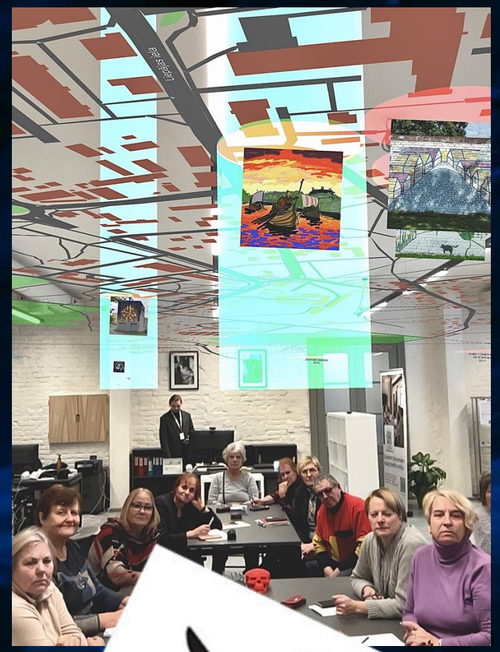
1862

RIGA TECHNICAL UNIVERSITY



Augmented Reality & METAVERSE

solutions



Augmented Reality, AI & *METAVERSE*

COOLdiga ART FEST

solutions

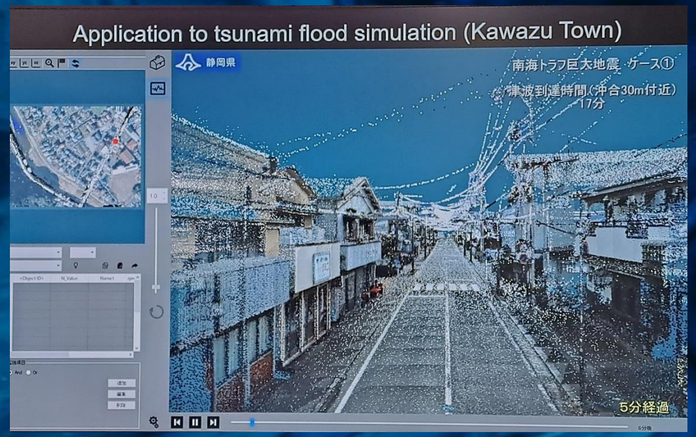
ART+

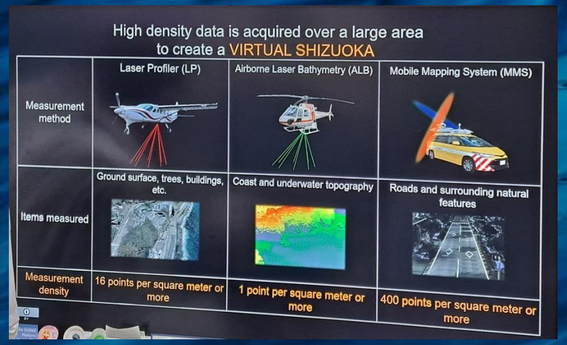
COOL DIGA ART FEST

https://artplus.app/

https://www.youtube.com/watch?v=J5udWCd8374&t=1s

Kuldiga **DX-Project** with TwinTown City of **Fuji, Japan**

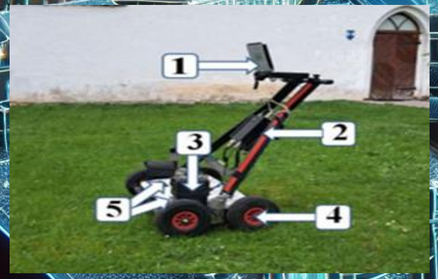




Creation of **Kuldiga virtual space** using

3D **point cloud** data

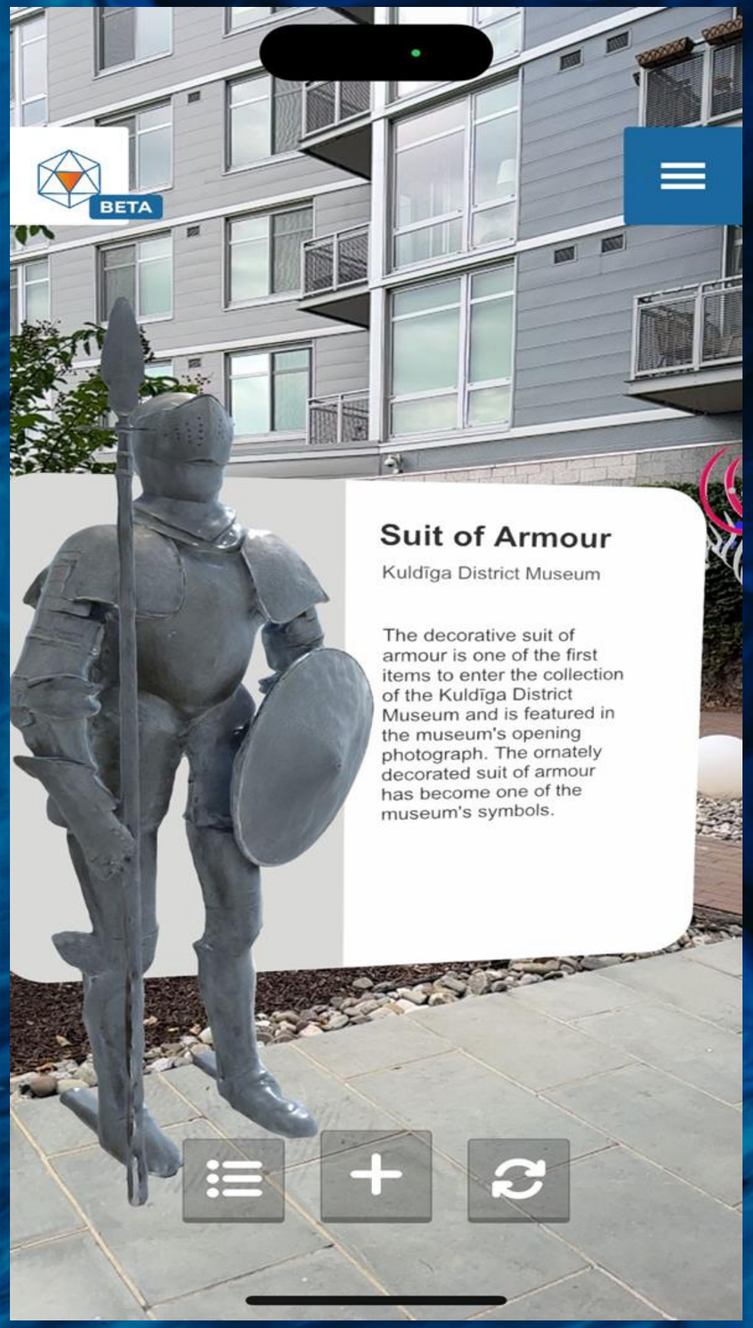
as the first step into **Metaverse**



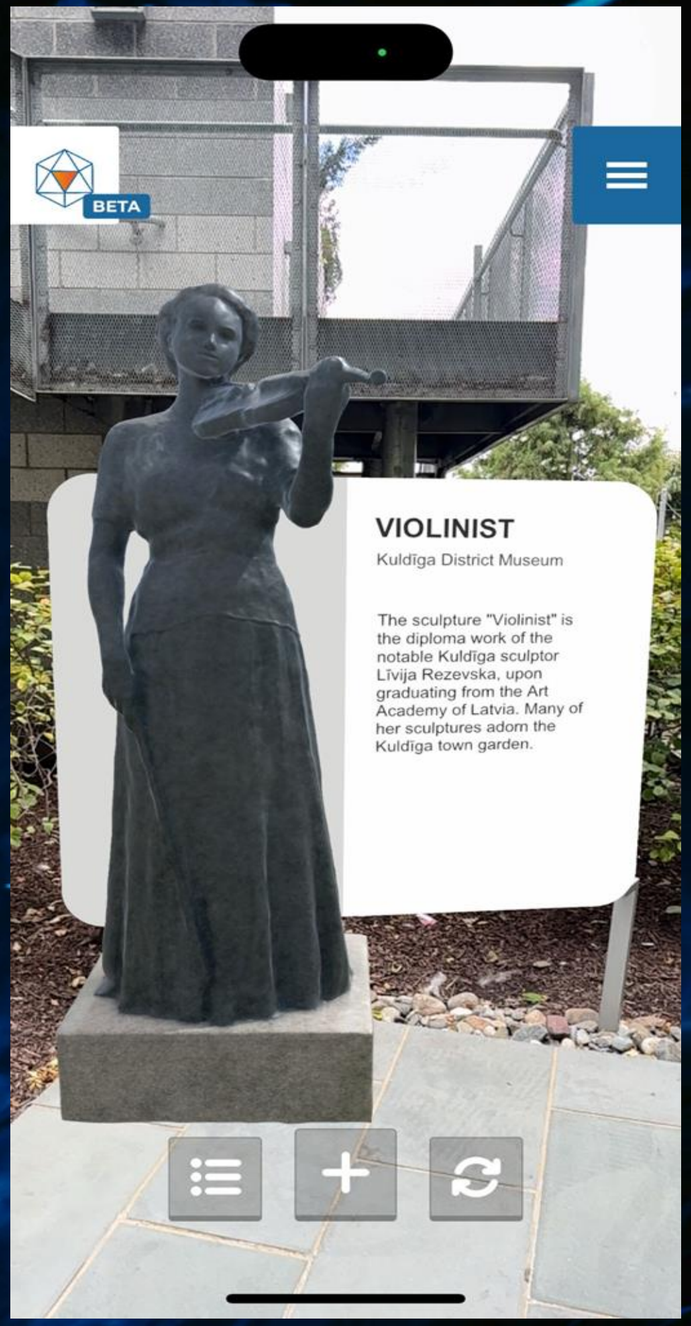
https://3dscan.lv

AR & XR "twins" as the first step of **Metaverse**

Kuldiga Digital Innovation Hub together with **XR MASTERS** created **3D virtual replicas** of the **UNESCO heritage**



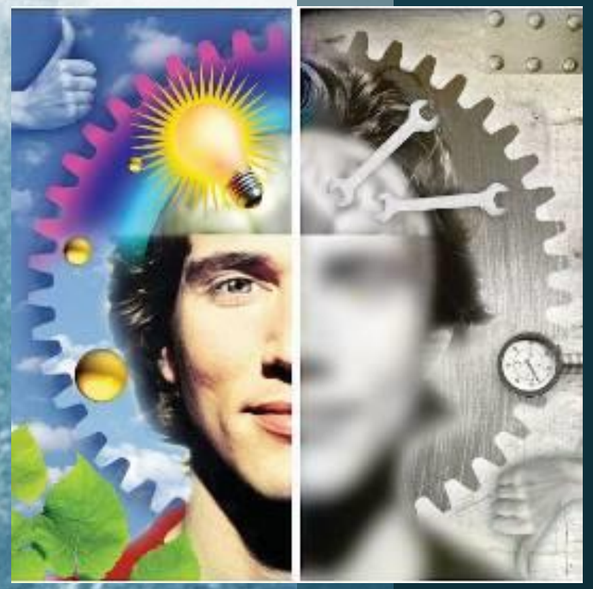
https://xr-masters.com/



ART+

Be Unique, Innovative and Creative!

Thank you for Attention!



Mg. soec. **Artis Gustovskis**

Kuldiga Digital Innovation Hub

EU Smart Tourism Destinations

Artis@kuldiga.lv

LIVING-IN.EU SIGNATORY CEREMONY

KULDIGA Municipality
Represented by Artis Gustovskis

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

SUPPORTING ECOSYSTEMS

Moderator:

Viesturs Celmins, Managing Director VEFRESH

Speakers:

- **Gabriela Ruseva,** Governance of Living-in.EU Project Coordinator, Eurocities
- **Artis Gustovskis,** Digital Innovation Hub Manager, Kuldiga municipality
- **Arnis Gulbis,** Director of Riga City Council

European Commission

Supporting ecosystems

from a governance and city perspective

SMART RĪGA

RIGA DIGITAL AGENCY

LIVE RIGA

Arnis Gulbis, Director of Riga City Council

Riga Digital Agency becomes the official coordinator for EDIC's Local Digital Twins & CitiVERSE initiative in Latvia

Riga's role in EDIC

Interconnected digital twins across EU cities

- Enabling data-driven urban management and problem-solving
- Supported by Latvia's Ministry of Environmental protection and IKT development (VARAM)
- Unify local digital twins, creating EU-wide digital twin to address challenges

Challenges to solve

- Traffic congestion
- Air quality
- Decarbonization
- Data integration across systems
- Public engangement and awareness

Benefits

- Access to best practices and frameworks
- Support from European networks to standardize and integrate digital solutions across sectors
- Increased funding opportunities
- Enhanced collaboration and knowledge sharing

EDIC – future plans

Why EDIC matters for Riga

Enhanced Urban Management

Digital twins will optimize city planning and resource management through real-time data and AI insights.

Broader Digital Transformation

Leveraging data, AI, and augmented reality for efficient governance across sectors like education, healthcare, and transportation.

Planned activities

Collaboration with Academic, Public, and Private Sectors

Engaging stakeholders to develop real-time simulation models for sustainable city development.

Starting Mid-2024

Practical implementation phase, building on Riga’s existing initiatives and creating a repeatable model for other Latvian municipalities.

FUNDING OPPORTUNITIES

European Commission

EU’s 2021-2027 long-term budget

Multiannual Financial Framework (MFF)

The EU’s 7-year budget

€1.211 trillion

€806.9 billion

NextGenerationEU

COVID-19 recovery package

Recovery and Resilience Facility

€723.8 billion

- **€338.0** billion grants
- **€385.8** billion loans

NextGenerationEU contribution to other programmes

EUR 83.1 billion

Note: All amounts are in current prices.

European Commission

EU Digital Funding Opportunities

Each programme contributes uniquely to the digital transformation of public administrations, supporting EU objectives of sustainable growth, competitiveness, and cohesion.

Digital Europe Programme (DEP) supports the development of digital infrastructure/skills, focusing on public admin efficiency + accessibility.

Horizon Europe funds research and innovation projects to advance digital technologies and public services.

Interreg promotes regional cooperation to enhance digital connectivity and innovation in public services.

Technical Support Instrument (TSI) offers tailored technical support for designing/ implementing digital reforms in public admin.

Connecting Europe Facility (CEF) improves digital networks and infrastructure, enhancing public administration services and connectivity.

The European Union (EU) supports the digital transformation of public administrations through various funding programmes. Here's an overview of how the funding works, who funds what, and who the stakeholders are for key programmes:

More info:

European Commission

Digital Europe

- **Funding Source**: The DEP is funded by the EU budget, with €7.6 billion allocated for 2021-2027.
- **Stakeholders**: Public administrations, industry, and research communities involved in digital transformation.
- **Objectives**: DEP aims to strengthen Europe’s digital capabilities by funding projects that develop digital infrastructure, enhance cybersecurity, and promote advanced digital skills. It supports public administrations in deploying AI, high-performance computing, and digital public services to improve efficiency and accessibility

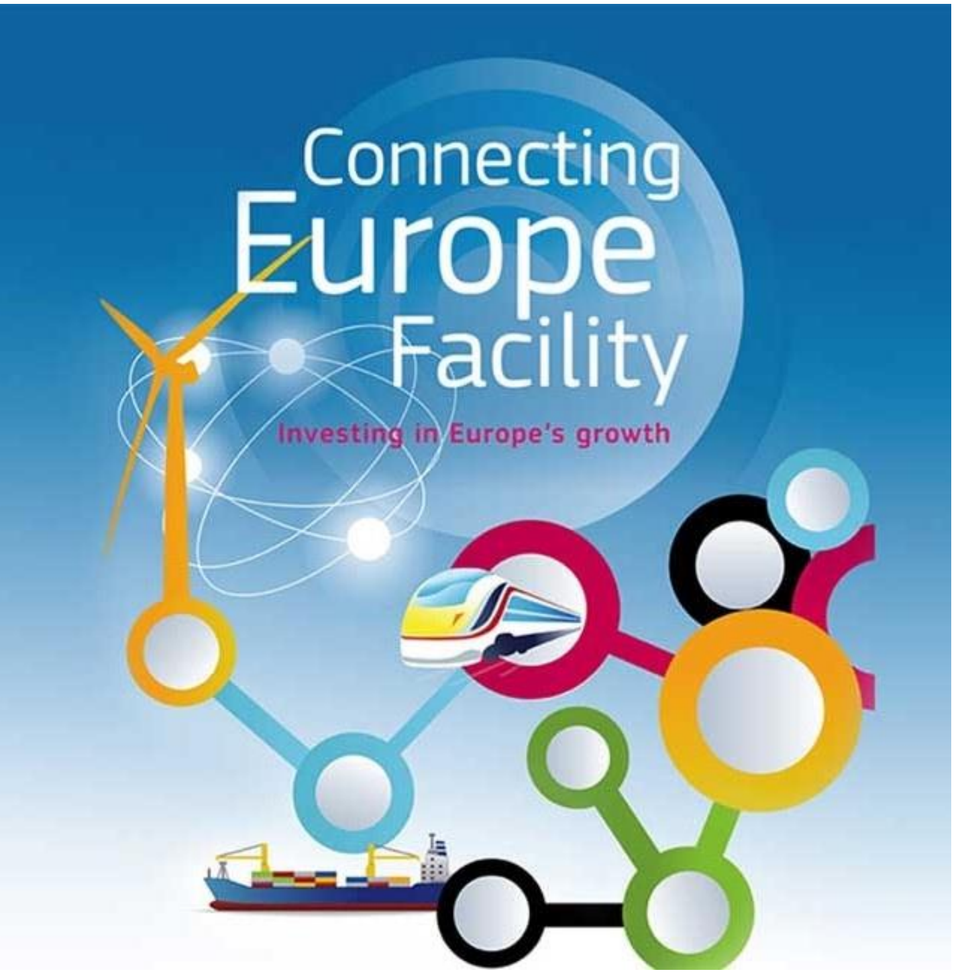
Horizon Europe

Horizon Europe

- **Funding Source**: Horizon Europe is the EU's main funding programme for research and innovation, with over €95 billion for 2021-2027. Overall it is expected that 35% will support digital transformation.
- **Stakeholders**: Researchers, universities, research organizations, SMEs, public authorities, and private sector entities.
- **Objectives**: HE has a dedicated budget for enabling technologies, such as artificial intelligence and robotics, next generation Internet, high performance computing, big data, key digital technologies, 6G.

European Commission

Connecting Europe Facility (CEF)



- **Funding Source**: CEF is funded by the EU budget, with €33.7 billion for 2021-2027.
- **Stakeholders**: Public authorities, infrastructure operators, and private entities in the transport, energy, and digital sectors.
- **Objectives**: CEF aims to enhance EU connectivity and infrastructure by funding projects that develop and modernize digital networks. It supports public administrations in deploying high-speed broadband, digital public services, and secure digital infrastructures to improve administrative efficiency and citizen engagement

European Commission

Interreg

Interreg Europe

Co-funded by the European Union

Sharing **solutions** for **better** **regional policies**

- **Funding Source**: Interreg is financed through the European Regional Development Fund (ERDF) and other EU instruments.
- **Stakeholders**: Regional and local authorities, public bodies, NGOs, and businesses.
- **Objectives**: Interreg promotes cross-border, transnational, and interregional cooperation. It funds projects that enhance digital connectivity and innovation in public administrations, facilitating collaboration and knowledge sharing across regions to address common challenges and improve public service delivery.

European Commission

Technical Support Instrument (TSI)

- **Funding Source**: TSI is funded through the EU budget under DG REFORM, with a focus on supporting structural reforms.
- **Stakeholders**: National and regional authorities of EU Member States, experts from Member States' administrations, international organisations, private firms, and consultants.
- **Objectives**: TSI provides tailored technical expertise to help Member States design and implement digital reforms. It supports projects that enhance digital governance, modernise public administration, and improve public service delivery through the adoption of digital technologies.

InvestEU

- **Funding Source**: InvestEU supports sustainable investments by leveraging both private and public funds. It aims to mobilize over €372 billion in investments through an EU budgetary guarantee.
- **Stakeholders**: National, regional and local governments. Public agencies. Companies and non-profit organisations.
- **Objectives**: InvestEU recognizes the importance of digitalization for Europe’s competitiveness and prosperity. At least 10% of the program’s resources will be directed toward digital objectives. This aligns with the European Green Deal and emphasizes the transition to a digital economy.

Upcoming Funding Opportunities

TOPIC OPPORTUNITY	DATES	AVAILABLE FUNDING
HORIZON: Rethinking Urban Spaces Towards Climate Neutrality	**Open 17.9.24 | Close 11.2.25**	45 MEuro funding – Projects must include pilot demonstrations in at least **3 cities**, including both urban and suburban areas.
HORIZON: Zero-Pollution Cities	**Open 17.9.24 | Close 11.2.25**	20 MEuro funding - Projects must include pilot demonstrations in at least 2 cities
HORIZON: Mobility Management Plans and Behavioral Change	**Open 17.9.24 | Close 11.2.25**	5 MEuro funding - Co design activities with stakeholders and citizens
HORIZON: Integrated Peri-Urban Areas in the Transition Towards Climate Neutrality	**Open 17.9.24 | Close 11.2.25**	28 MEuro funding - Pilot demonstrations in at least 3 peri-urban areas.
Cascade funding: European data space for smart communities	**Open 1.06.24 | Close 28.02.25**	Three Open Calls during the period. It funds pilot projects up to 3M € with 50% co-funding to advance the development and implementation of data spaces.
Cascade funding: Other funding opportunities	**Several dates**	Citcom.AI, Communicity, etc. Funding available for pilots to leverage AI and other emerging technologies in addressing the needs of cities and communities

The **EU funding calls** provide a significant opportunity to transform **urban spaces** towards **climate neutrality**. These initiatives not only support technological and policy innovation but also promote collaboration among diverse stakeholders to achieve lasting environmental impacts.

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

INCREASING DIGITALISATION AWARENESS & READINESS OF LATVIAN COMMUNITIES

in collaboration with

VEFRESH

LIELS PALDIES!

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