

Zvyšování povědomí a připravenosti samospráv v oblasti digitalizace

ve spolupráci

SMO

SVAZ MĚST A OBCÍ ČESKÉ REPUBLIKY



Fáze 1: Plánování

29. dubna 2025



Program online školení: Česká republika

Fáze 1: Plánování

DIGITÁLNÍ DOVEDNOSTI

Jak využít potenciál digitalizace

- Klimatická neutralita a Smart Cities Mission: cíle, zdroje a jak se zapojit
- Hodnocení digitální vyspělosti pomocí nástroje LORDIMAS
- Jak pomocí EU metodologie vytvořit vlastní plán digitalizace
- Zadávání veřejných zakázek: šablony na míru v souladu s principy a standardy EU


 29.04.2025

 14:00

Phase 2: PREPARATION

DIGITAL TWINS How to Set Up Your IT Infrastructure

- Understand the importance of open and shareable data as the foundation of your data infrastructures.
- Learn how to implement open data platforms and data spaces through an open reference architecture supported by MIMs
- Discover the open-source tools available through the EU Local Digital Twin toolbox


 22.05.2025

 10:00

Phase 3: EMPOWERMENT

SUPPORT AND NETWORKS How Funding and the Community Supports You

- Discover the Living-in.EU learning community, how to make use of the resources developed for and by the community, and how to engage with their activities
- Discover funding opportunities at EU level and learn how to apply and prepare your proposal

 19.06.2025

 10:00

Program dnešního školení

Fáze 1: Plánování- Jak využít potenciál digitalizace



29.04.2025

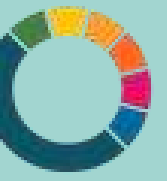


14:00

ČAS	TÉMA	VYSTUPUJÍCÍ
14:00	Úvod	Barbora Láničková – Svaz měst a obcí ČR Anastasia Sarantopoulou - Serendipity
14:10	Dosahování cílů dekarbonizace pomocí podpůrných služeb Cities Mission Platform	Eugenia Mansutti - Eurocities
14:30	Hodnocení digitální vyspělosti pomocí nástroje LORDIMAS	Paresa Markianidou - Technopolis Group
14:45	Vytvoření plánu digitalizace	Douwe Schoondorp - Deloitte
15:00	Podpora zadávání veřejných zakázek pro chytrá města: Seznámení se šablonami a pokyny EU pro zadávání veřejných zakázek	Eliana Gerardi - Intellera
15:15	Informace, zpětná vazba, další kroky	Barbora Láničková - Svaz měst a obcí ČR Anastasia Sarantopoulou - Serendipity
15:30	Závěr	Barbora Láničková - Svaz měst a obcí ČR Anastasia Sarantopoulou - Serendipity



DOSAHOVÁNÍ CÍLŮ DEKARBONIZACE POMOCÍ PODPŮRNÝCH SLUŽEB CITIES MISSION PLATFORM



Expanding Mission Platform support services



Funded by
the European Union



Concrete Offer: The Mission Platform as an accelerator of climate action for all cities wanting to become climate neutral

- Planning and financing tools
- Self-Assessment Tool
- Support pathways and inspiring examples
- Workshops and courses (also giving academic credits)

Online & learning



- Three Programmes:
 - Online peer groups
 - Study visits
 - Twinnings

Peer – EU



Dedicated helpdesk

- National spaces for debate and training (incl. events – political & technical)
- Mobilisation of national stakeholders
- National Platforms

Peer – National





- Planning and financing tools
- Self-Assessment Tool
- Support pathways and inspiring examples
- Workshops and courses (also giving academic credits)

**Online &
learning**

Online & learning: Six Climate Neutrality Support Pathways

Curated lists of resources and tools useful for cities wanting to transition towards climate neutrality

Objectives:

- Address the needs highlighted in the survey by respondent cities;
- Inform the design and delivery of services for new cities through the Mission Platform
- Guide cities in their climate neutrality journey through the Mission Platform tools, resources and services.



Funded by
the European Union



Online & learning: Six Climate Neutrality Support Pathways

Curated lists of resources and tools useful for cities wanting to transition towards climate neutrality

- 1. Climate neutrality foundations and mission approach**
- 2. Inclusive ecosystem for change and social Innovation**
- 3. Monitoring and Learning**
- 4. Technological Solutions and Innovation**
- 5. Policy and Governance**
- 6. Finance and Business Models**

Online by 15 October 2024!





- Planning and financing tools
- Self-Assessment Tool
- Support pathways and inspiring examples
- Workshops and courses (also giving academic credits)

Online & learning

Finance Guidance Tool

This tool supports cities as they identify finance options and supports their investment planning, based on a decision matrix which helps define needs and identify a range of options appropriate to the city's circumstances.

<https://netzerocities.app/financeGuidanceTool>

Trainings for cities on how to use the tool

PROS	CONS	TYPE OF PROJECT FINANCED	RELATED PRODUCTS
Grant 1. No need to repay capital 2. Pay no interest on capital	1. High competition for limited resources 2. Can change with political priorities 3. Design project to suit eligibility criteria	1. Depends on the grant	1. EU grants 2. National grants 3. Regional grants
Partial Grant plus Partial Self finance 1. No need to repay capital 2. Pay no interest on capital	1. High competition for limited resources 2. Can change with political priorities 3. Design project to suit eligibility criteria	1. Medium to large scale project	1. EU grants 2. National grants 3. Regional grants
Blended Finance - Partial grant plus partial self finance plus partial debt finance 1. Need to repay debt capital only 2. Need to pay interest on debt capital only	1. High competition for limited resources 2. Can change with political priorities 3. Design project to suit eligibility criteria 4. Still pay interest on capital borrowed	1. Large projects	N/A
Concessional loan 1. Pay low-interest rates 2. Can access capital 3. Can combine this model with others (e.g., a revolving fund)	1. Still pay interest on capital	1. Particularly accessible for public energy efficiency projects;	1. Development banks such as EIB, KfW etc
Green loans 1. Reduced interest rates 2. Can access capital 3. Can combine this model with others (e.g., a revolving fund)	1. Should fit the eligibility criteria of green projects	1. Small to medium sized green projects	1. Green investment loans 2. Green mortgage
Guarantee 1. Project security from third party 2. Improves the credit quality/credit rating	1. Guarantee fees	1. Financially sustainable infrastructure projects of various sizes;	N/A



NetZeroCities has received funding from the H2020 Research and Innovation Programme under grant agreement n°101036519.

- Planning and financing tools
- Self-Assessment Tool
- Support pathways and inspiring examples
- Workshops and courses (also giving academic credits)

Online & learning

Coming in November NetZeroPlanner

Online cost-benefit analysis tool which allows cities to create, improve, and track their climate action plan.

It helps to:

- Get a **detailed analysis of 13 decarbonisation sub-sectors** (e.g., transportation, buildings, waste), allowing cities to target high-impact areas;
- **Monetise co-benefits** such as health improvements turning intangible benefits into measurable financial gains.
- **Test different scenarios and ambition levels**, providing flexibility in planning for future challenges.



Already used by 50 Mission Cities – new cities will be trained to use it



NetZeroCities has received funding from the H2020 Research and Innovation Programme under grant agreement n°101036519.



- Three Programmes:
 - Online peer groups
 - Study visits
 - Twinings

Peer – EU

Peer Learning opportunities at the EU level

Twinning learning programme for 30 cities*

- Focused on deep learning from Mission Cities
- Over a longer period of time
- With study visits in both Mission Cities and Twin Cities
- Long-lasting connections between city practitioners
- Inspiration and guidance to replicate successful approaches

Online discussion groups with Mission Cities

- Focused on concrete challenges and domains
- Technical assistance and training
- Exchanges on successful measures
- Deep dives into Mission cities' projects

1st group of 70 cities registered to start in September



Leading to **study visits** to Mission Cities*



**For cities with a commitment to climate neutrality by 2050 at the latest*



NetZeroCities has received funding from the H2020 Research and Innovation Programme under grant agreement n°101036519.



Engagement at the national level

- National spaces for debate and training (incl. events – political & technical)
- Mobilisation of national stakeholders
- National Platforms

Peer – National

Why

Crucial role of national governments in climate neutrality policy (regulation, funding, knowledge, data, governance)

Upscaling of successful learning approaches

Involvement of cities in the design and implementation

Create alliances with different actors at the national level (including industry, academia, agencies)

How

National events with involvement of Mission cities and other cities in Europe and Associated Countries

Opportunities for dedicated technical assistance

Awareness Raising with national policymakers

Participation of new cities into existing platforms

CAPACITIES

HOME DUT EVENTS WEBINARS CONTACT DOWNLOADS

CapaCITIES: Advancing national support for climate-neutral cities

A support action for national and regional authorities to advance their governance structures and strengthen dedicated support for cities to achieve the climate-neutral Cities Mission. The project is funded under the EU Missions programme of Horizon Europe.

CapaCITIES coordinates actions across climate neutral city initiatives in Europe in order to exploit synergies between them and align efforts towards the goals of the mission including city networks, the UAEU partnerships, the CoR, and others.

LEARN MORE

The Netherlands
 Core Country
 Coordinating structure: There is no formal Cities Mission support structure in the Netherlands yet. However, the Ministry of Interior and Kingdom Relations (BZK), Regioorgaan SA, and Buisson's team work together to better support the seven Dutch mission cases in...
 More info
 ← →





Eugenia Mansutti (Eurocities) eugenia.mansutti@eurocities.eu

Do you want to know more?

Helpdesk for cities: infocities@netzerocities.eu



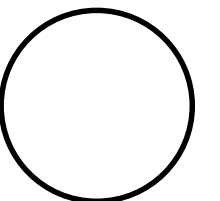
Funded by
the European Union

A person in a white shirt is holding a tablet. The tablet screen shows a city skyline at night with a digital network overlay of white lines and nodes connecting various buildings. The background is a blurred cityscape under a sunset sky.

HODNOCENÍ DIGITÁLNÍ VYSPĚLOSTI POMOCÍ NÁSTROJE LORDIMAS

What is LORDIMAS in one sentence

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



**EVALUA
TE**

A digital maturity tool

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

**COMPA
RE**

An interactive dashboard

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

**SHA
RE**

Repository of good practices

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

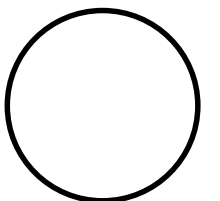
**LEAR
N**

Policy recommendations

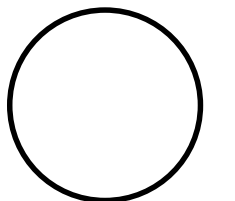
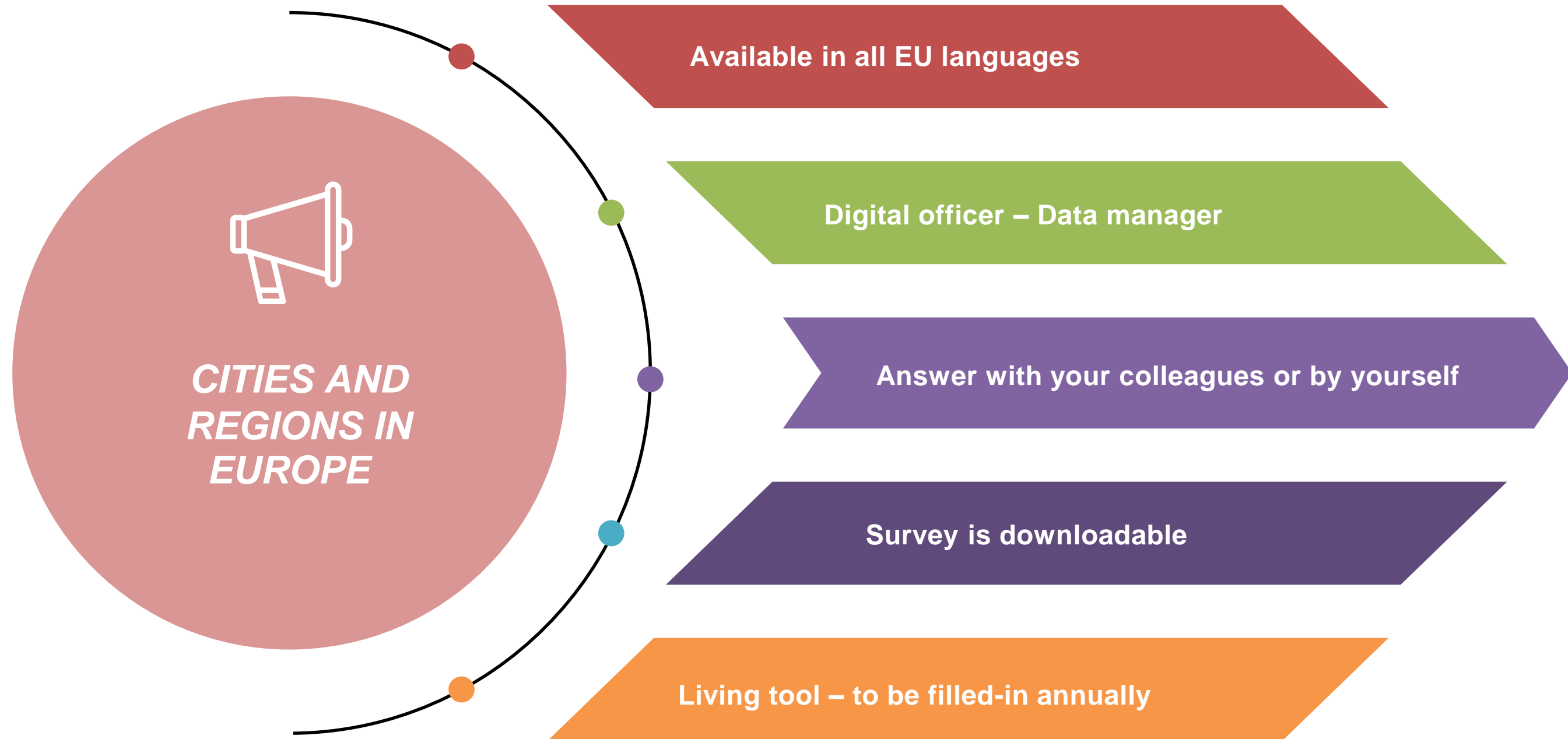
Bringing awareness about emerging topics at the EU level and to giving policy advice

What is **LORDIMAS?**

A functional approach

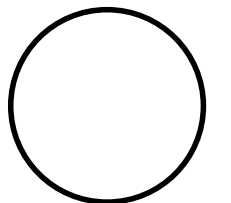
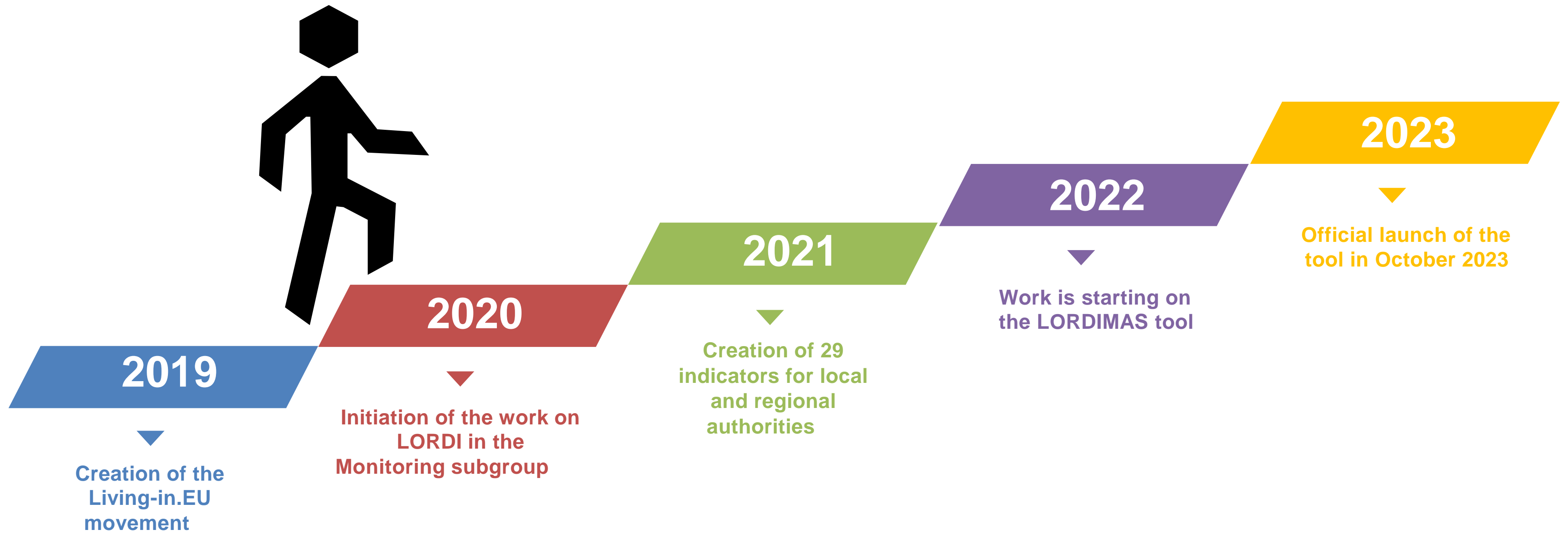


What else to know about LORDIMAS?



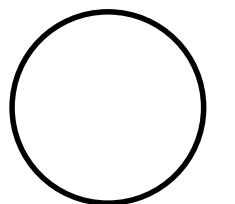
Where does LORDIMAS come from?

A collaborative process



How was LORDIMAS created?

A collaborative work with many stakeholders



What else to know about LORDIMAS?

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

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

Overall Digital Maturity

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

Search and filter

Filter by year
No category selected

Filter by country
No category selected

Filter by type
No category selected

Filter by population size
No category selected

Filter my maturity
No category selected

Search by name
No category selected

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

Maturity Assessment

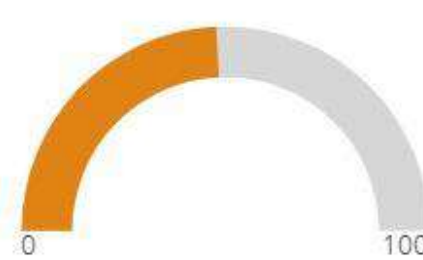
- ◆ **Digitally native**
Very high levels of digital transition
- ◆ **Digitally optimised**
High levels of digital transition
- ◆ **Digitally purposeful**
Moderate levels of digital transition
- ◆ **Digitally emerging**
Low levels of digital transition
- ◆ **Digitally reactive**
Very low levels of digital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


Population size

- ◇ > 5 000 000
- ◇ < 5 000

Maturity level: Digitally emerging

Maturity score: 48.6/100





Esri, TomTom, Garmin, FAO, NOAA, USGS

Powered by Esri

Indicator scoring

	Nascent	Reactive	Emerging	Purposeful	Optimised	Native
Governance	0	30	50	70	90	100
Service design	0	30	50	70	90	100
Data management	0	30	50	70	90	100
Interoperability	0	30	50	70	90	100
Service delivery	0	30	50	70	90	100
Technology	0	30	50	70	90	100
Networking	0	30	50	70	90	100

Benchmark and consult

You can access LORDIMAS at:








lordimas.espon.eu

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



living-in.eu

Call to Action - How to Get Started

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

JOIN,
BOOST,
SUSTAIN

A person in a white shirt is holding a tablet horizontally. The tablet screen displays a digital cityscape with a network overlay of white lines and nodes connecting various skyscrapers. The background is a blurred cityscape at sunset or sunrise.

VYTVOŘENÍ PLÁNU DIGITALIZACE

Developing your digitalisation roadmap

Learn how to implement the EU methodology to define your own
digitalisation roadmap

Focus of this training

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

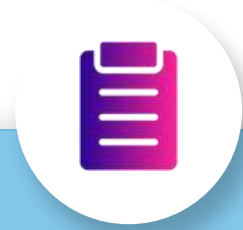


Receive support to identify procurement needs and templates

LORDIMAS

Governance	Service design	Data management	Interoperability	Service delivery	Technology	Networking
Twin transition	Digital-by-default	Data strategy	Technical specifications	Digital services	Big data	Cross-sector
Strategy	Agile and iterative	Data catalogue	Open source	Once-only principle	Immersive tech	Multi-level
Institutions	User engagement	Data platform	Open standards	One-stop shop	AI	Peer-to-peer
Capacity	Data-driven	B2G/G2B data sharing	Shared data models	Digital inclusion	IoT	International
Monitoring	Innovation ecosystems	Sensor registry	Open APIs	Proactive services	Robotics	
Privacy & Security		AI registry	Building blocks		Blockchain	
		Personal data			5G	
		Digital twin				

Assessments Methodology



Strategy Assessment

This Assessment will be composed of two main sections:



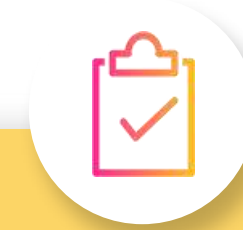
Business and Strategic View As-Is:

Aims to understand the community's as-in ambition and strategy and capture the sectors and services that the city has already invested in



Business and Strategic View To-Be:

Understand what the community's strategic future for objectives, ambitions, services and sectors are which it aims to leverage technology to improve urban living and efficiency



IT Infrastructure Assessment

This Assessment will be composed of two main sections:



Digital systems/applications:

Seeks to comprehend what the community's current and future digital systems and applications are and how data is collected from IoT devices to feed them.



Infrastructure:

Aims to understand the infrastructure that the community has in place, namely the physical and technological backbone that could support or is supporting the operation of Smart City solutions

Strategy assessment



The main goal of this Assessment is to identify the position of the community as-is and target digital



Business and Strategic View As-Is:

- Identify city/ community's digital ambition and strategy
- Identify sectors that the city is already investing in



Business and Strategic View To-Be:

- Identify city/community's goals on implementing local digital platforms (and later on local digital twins)
- Identify use cases that can benefit from the implementation of digital twins
- Identify enabling factors such as a smart city office and KPIs

ASSESSMENT

EXAMPLE ASSESSMENT QUESTIONS OF

ASSESSMENT OUTPUTS

AUDIENCE

Multiple Choice Questions

Questions to be answered in a Multiple-Choice format, allowing for more targeted answers

Open Questions

Questions to be answered whenever more detail is needed of a certain topic, allowing to understand the business and strategic view more deeply

Which of the following digital resources do you currently share with other communities?

How extensively defined is your strategic vision for digitalisation?

Valuable Insights

Collect valuable information to understand the community's current situation and how it can be addressed during the roadmap design, with regards to its vision, organisation and goals

Participants

Inputs should be provided by the following profiles:

- Chief Executive Officer or similar*
- Chief Technology Officer or similar*
- Chief Data Officer or similar*

Strategy assessment

Strategic Priorities

Vision & Objectives

Multi-City Platform

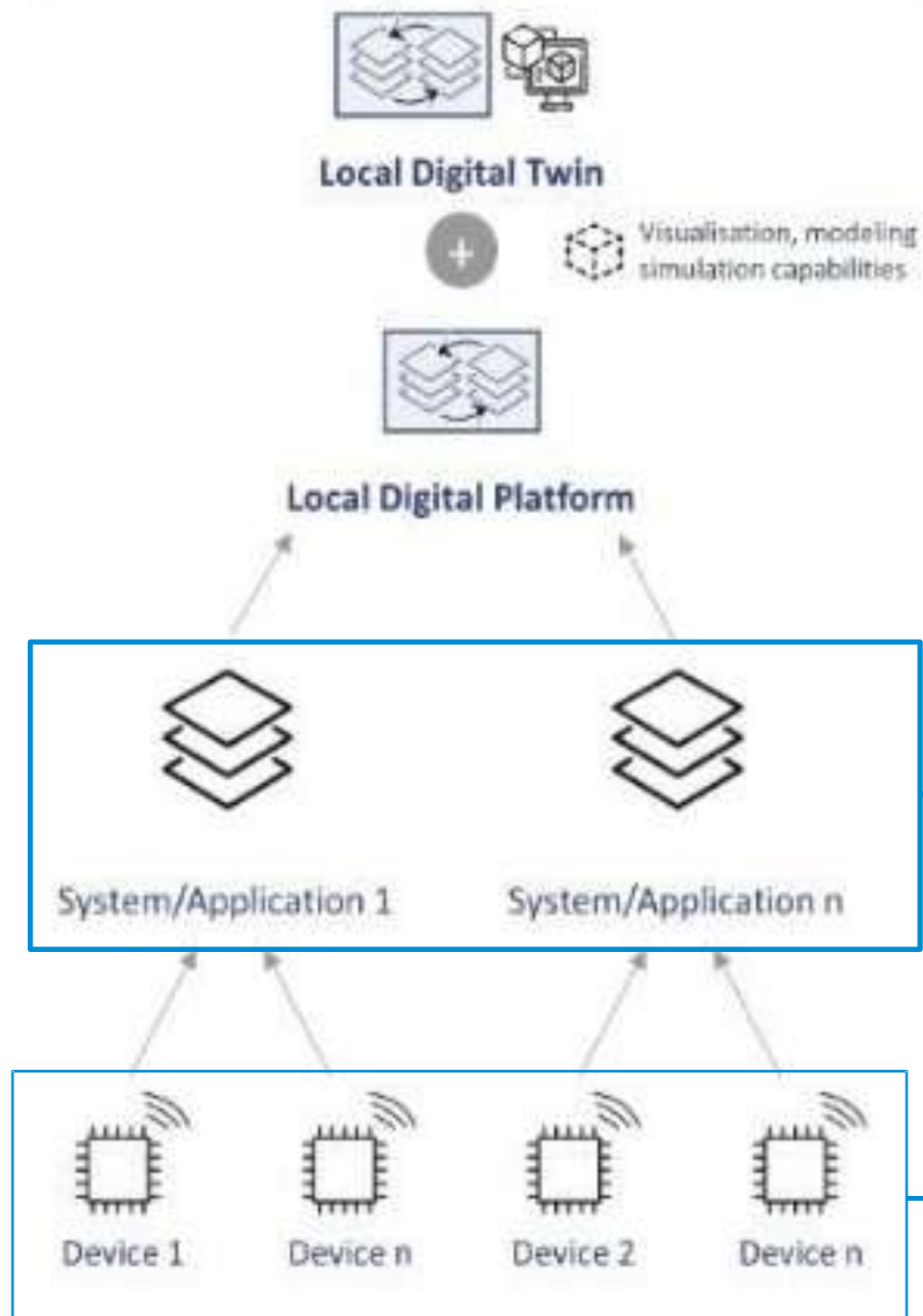
Governance

Strategic KPIs

IT Infrastructure assessment



The main goal of this section in the Assessment is to understand the city/community's digital platform maturity and



SYSTEMS/
APPLICATIONS

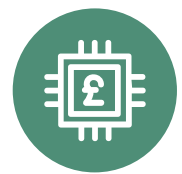


Definition:

Responsible for aggregating and processing sensor data to control and forecast often sector-specific operations

Target of the Assessment:

Understand if the community has any platform already in place and if those platforms are being shared between multiple cities/communities



IOT DEVICES



Definition:

Responsible for collecting, preparing, and managing community data to be used by the sectorial platforms

Target of the Assessment:

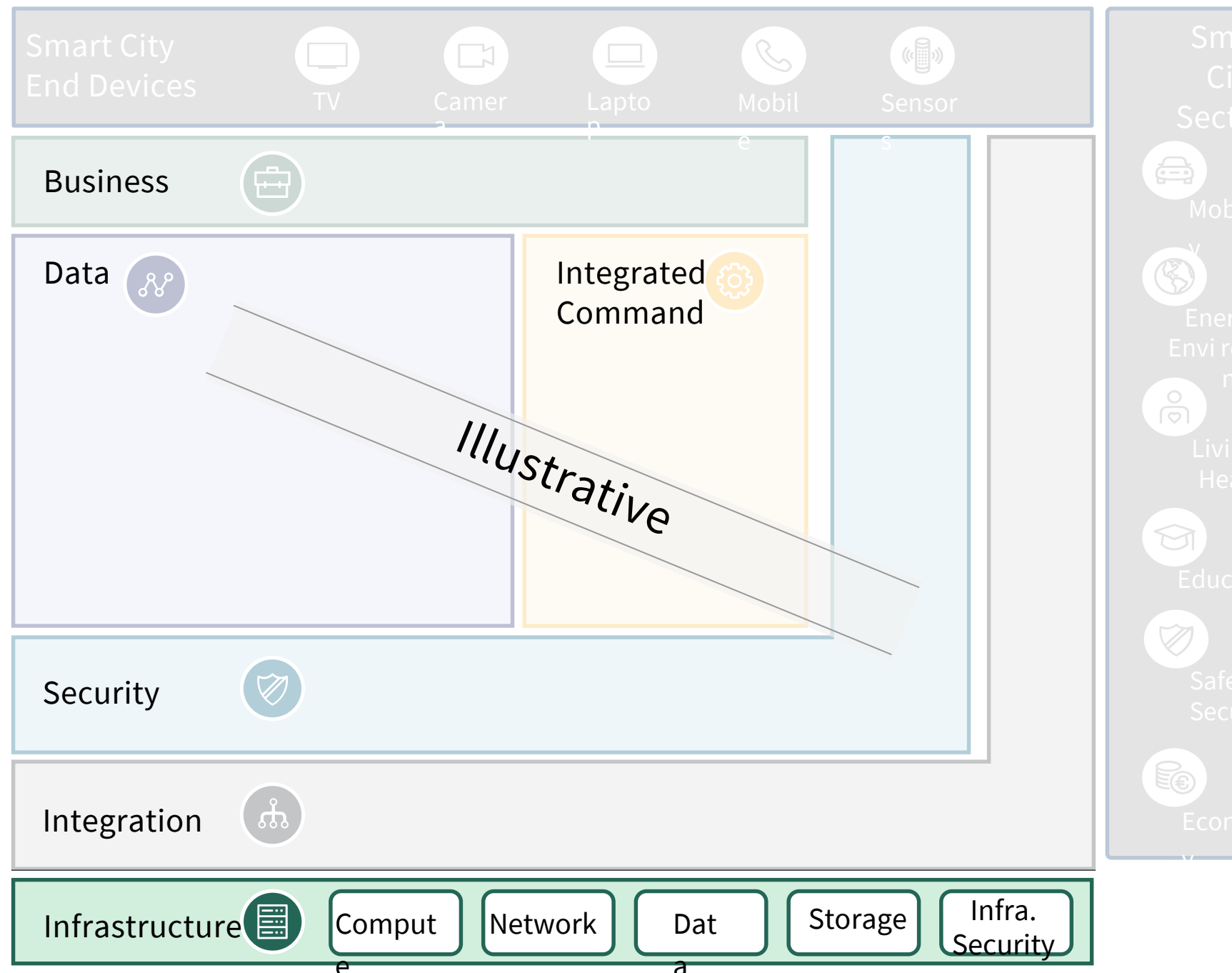
Understand if the community has any sensors in place from which they are collecting data

IT Infrastructure assessment



The main goal of this section in the Assessment is to assess the city/community technical level of maturity and have valuable insights on it.

REFERENCE ARCHITECTURE



INFRASTRUCTURE

CAPABILITIES

Compute

Applications and workloads require a great deal of compute capabilities, these services can be provisioned on demand or reserved

Network

Enables capabilities such as load balancing, segmentation and virtual data centres

Data

Examines large amounts of data to uncover hidden patterns, correlations and insights. Helps organisations harness their data and use it to identify new opportunities

Storage

Delivers scalable, flexible and redundant storage capacity through web services API, online interfaces and thick client applications

Infrastructure Security

Secure the entire infrastructure which includes all hardware and software

IT Infrastructure assessment

A RATIONALE

ASSESSMENT

5 Chapters in the Infrastructure Section (Compute, Network, Data, Storage and Infra Security)

Assessment Division

2 Chapters in the Digital Platform Section (City Platforms and IoT Devices)

Each chapter will be divided by....

“Yes or No” Questions

Questions to be answered in a “Yes or No” format. This should be the introductory question of each chapter to understand if the city/community already has the component/capability in study, and therefore if a deep-dive assessment is needed

Multiple Choice Questions

Questions to be answered in a Multiple-Choice format, allowing more targeted answers

Scale Questions

Questions to be answered on a scale of 1 to 5, to assess the current maturity of each capability, and how the city is positioned regarding the overall infrastructure needed to sustain local digital platforms (and later on local digital twins)

Detail Questions

Questions to be answered whenever more detail is needed for a certain topic. Should provide an overview of the components and capabilities' current state and give relevant insights and information to be utilised later in the roadmap design

Example questions

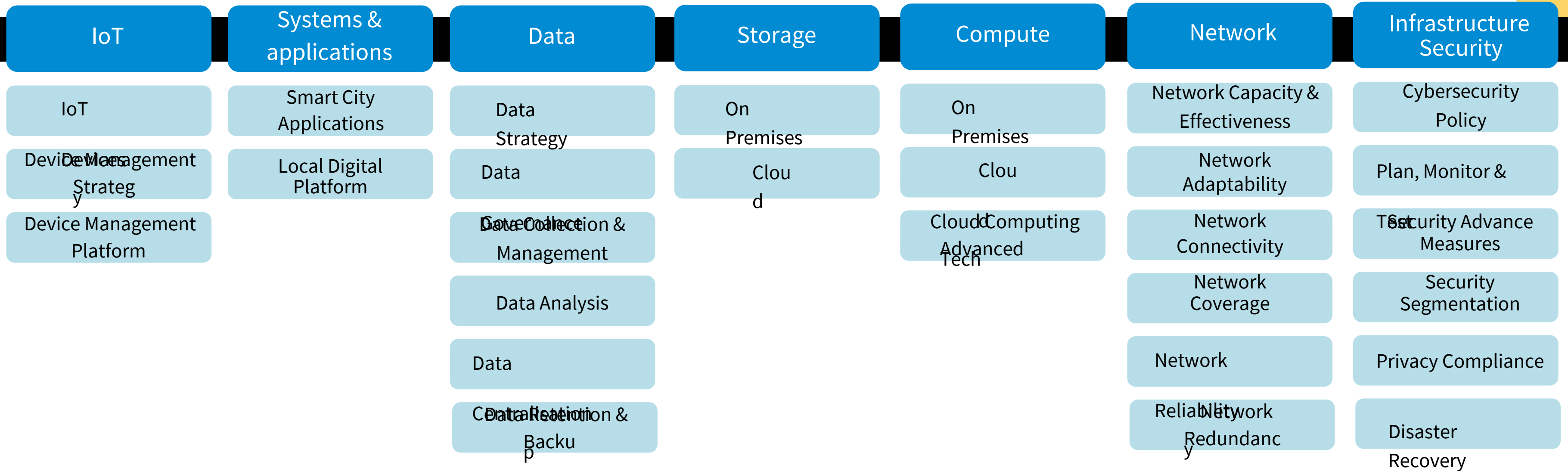
- Does your community currently have IoT devices implemented?
- For which types of IoT sensors does your community currently have ongoing activities for implementing them?
- Does your current Local Digital Platform integrate data from multiple systems, applications, and IoT devices?
- If applicable, kindly share further information about your Local Digital Platform, such as key use cases, solution provider, access type (public or restricted), and a link if available.



To have a comprehensive understanding of the city/community's technical maturity, the assessment inputs should be provided by the following profiles:

Chief Technology Officer, Chief Data Manager, Storage Manager, Network Manager, Security Manager, Infrastructure Provider, or similar profiles

IT Infrastructure Assessment



Assessment to Roadmap

Assessments Contribution to the Roadmap

Strategy Assessment

Will allow for a targeted roadmap through the vision and strategy of the city/community, focusing on the sector that the city/community is investing in or wants to invest in

IT Infrastructure Assessment

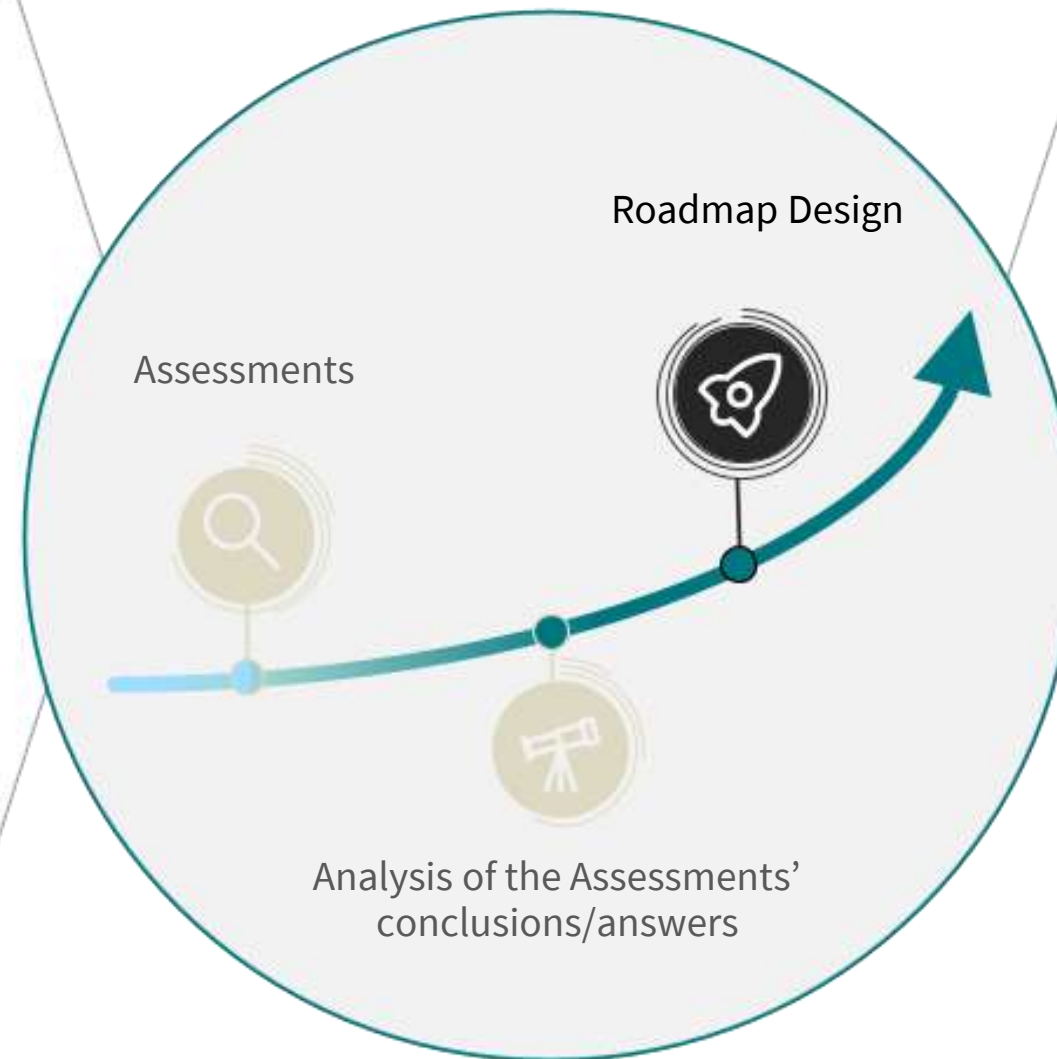
Will allow for a more focused roadmap on what the city/community really needs to invest in and evolve, because of the following view:

- If the city/community has digital platforms

or sensors in place

- If the city/community is interoperable and the state of it

- The maturity level of the city/community's infrastructure and their current technical condition



First Look to the Roadmap Template Methodology

Roadmap Templates based on the Infrastructure Maturity Levels:

- Digital Absent
- Digital Embryonic
- Digital Pioneer

Digital Foundation
Digital Growth

Main Topics needed to be included in the Roadmap

Template for each City/Community:

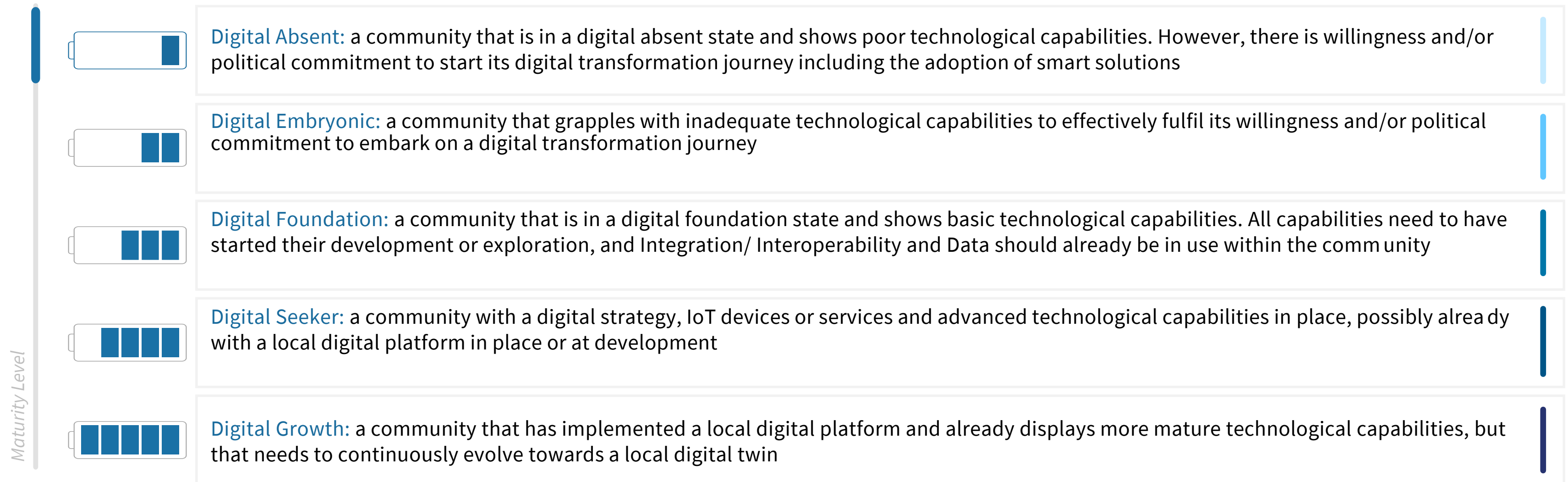
- Suggested Activities and “Must-have” Core Capabilities
- Use Cases Development and their Requirements
- Milestones, including the Procurement Processes and Templates

Technical Maturity Level



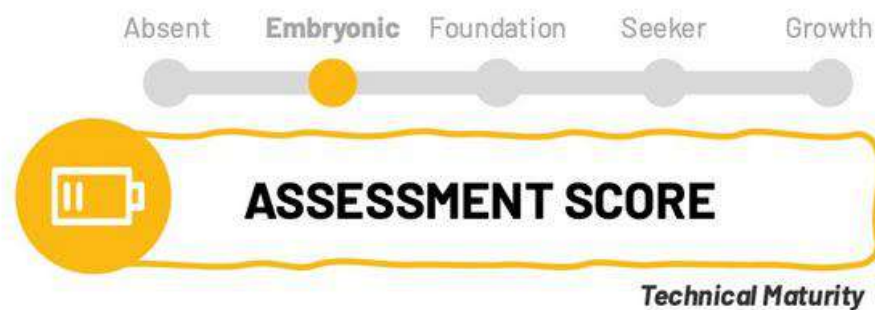
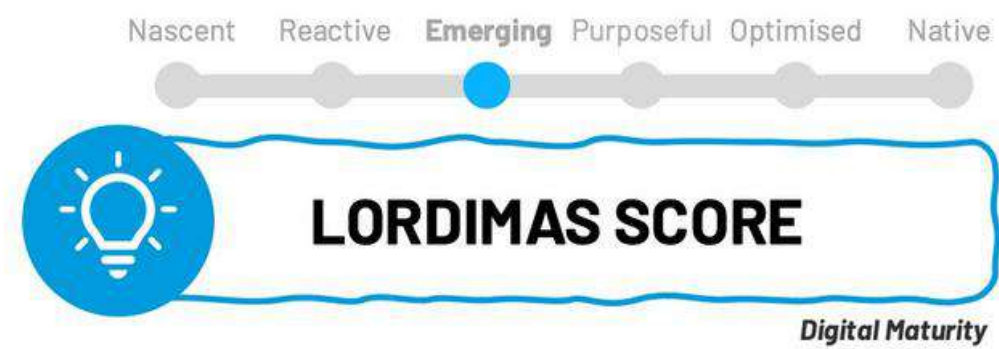
Technical Maturity Level

Based on the answers, calculate a maturity level that will serve as a benchmark for selecting the most appropriate roadmap template for each community



Assessment score

Your Maturity Level!



Note: The two maturity levels presented cover similar but somewhat different scopes of analysis, which may result in differences. The Digital Maturity results directly from LORDIMAS, while the Technical Maturity score focuses on IT core capabilities and aligning them with the strategic ambition of the community. The Technical Maturity Scores are derived from the combination of assessments performed within the helpdesk's scope and underpin the presented roadmap.

COMMUNITY NAME Assessment Scores:

Digital Maturity (LORDIMAS Assessment)

Governance	Service Design	Data Management	Interoperability	Service Delivery	Technology	Networking

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

Digital Strategy	IoT Devices	Local Digital Platform	Integration/ Interoperability	Data	Storage	Compute	Network	Security
Under development		X						

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

Key Considerations

- > Add text
- > Add text
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- > Add text
- > Add text

Roadmap structure

The community's

The Enablers and Capabilities that are shown in the community's roadmap will translate into more detailed

Roadmap initiative

Phases



Enablers & Capabilities



Initiatives

The community's roadmap can be divided in up to **3 main phases** according to its level of maturity, from the **beginning of the community's digital journey** until the implementation of a **Local Digital Twin**, namely:

- i. **Foundation**
- ii. **Growth**
- iii. **Expand & Accelerate**

Enable

The roadmap may include up to **10 enablers** that facilitate and support the implementation of local digital twins. **Each enabler can have one or more sub-enablers** that collectively define the overall enabler

Examples: Strategy, MVP Digital Platform



Capabilities

The roadmap may include up to **9 main capabilities** that the community needs to have in place to enable efficient urban management and data-driven decision-making. **Each capability can have one or more sub-capabilities** that collectively define the overall capability

Examples: Data Capability, and Data Collection and Management Sub-

For each capability and enabler outlined in the community's previously defined roadmap, a corresponding **list of initiatives** is associated. The **initiatives will be refined** to what the community needs to **invest and ensure to have an outstanding utilisation** of the capabilities and enablers, according to its level of maturity in each sub-capability

Examples: "Identify and implement a

Backup Tool to streamline and enhance the effectiveness of the community's data retention and backup strategy and principles"

Reference Roadmap

Starting the Digital Journey

Implementing a Local Digital Twin

Increase of the digital transformation (local digital platforms and local digital twins)



Foundation



Growth



Expand & Accelerate

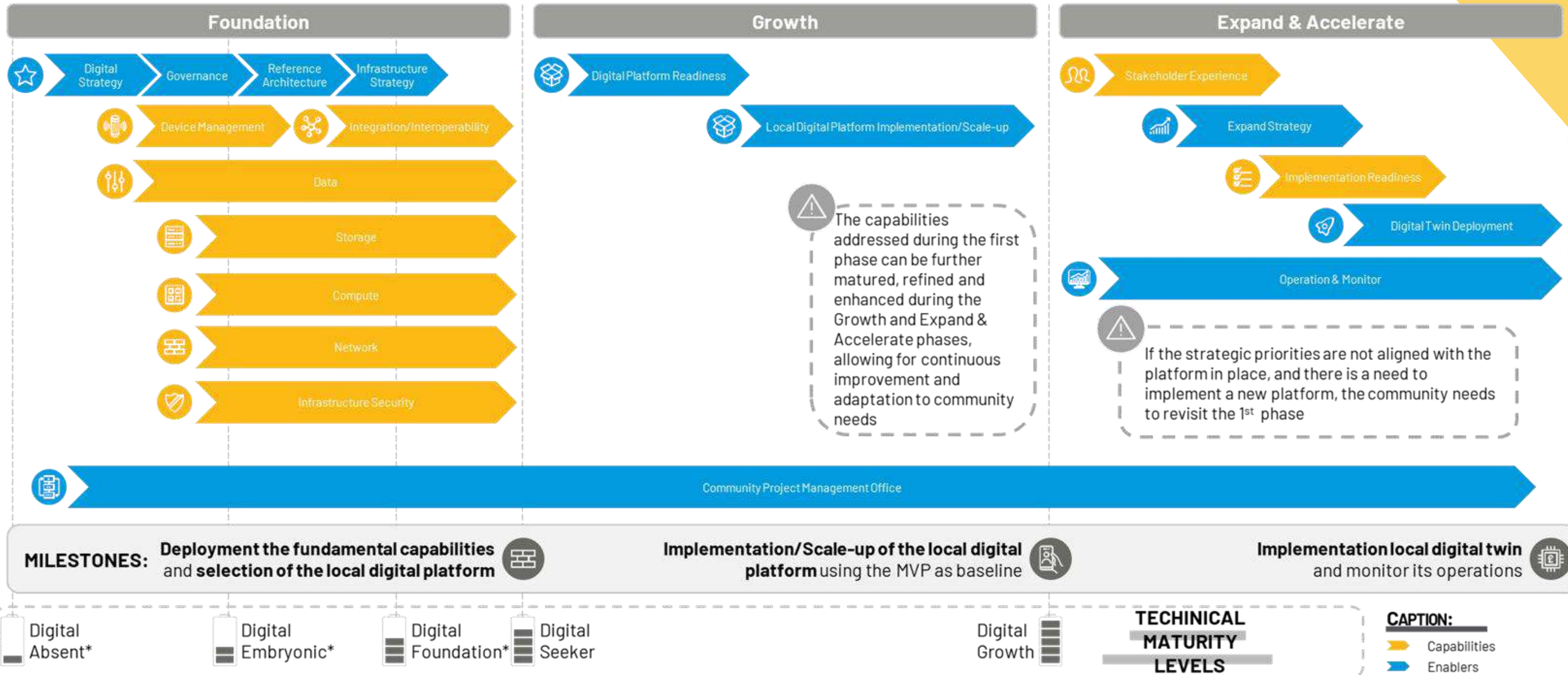
The main goal of this phase is to understand the strategy of the community and identify the core foundational capabilities and enablers to implement a Local Digital Platform

Growth phase focus on testing that the systems/applications, to be feasible validate if the chosen systems/ application(s) are a fit for the community.

Following successful validation, the deployed MVP will serve as a foundation to accelerate the implementation of the Local Digital Platform

Address the strategy of the community to implement a Local Digital Twin. Ensure all essential tools and initiatives are in place and achieve a successful implementation of the Local Digital Twin. If the community's ambition is not aligned with the platform in place, and there is a need to implement a new platform, the community needs to go back for the 1st phase

Reference Roadmap



Roadmap streams (1/2)

Digital Strategy

Design the community's strategy by defining the main goals, challenges and use cases that will enable the community's digital journey to achieve the deployment of a Local Digital Twin

Reference Architecture

Design a Reference Architecture that works as a comprehensive framework that defines the community's components' relationships and design principles to

Digital Platform

Leverage foundational capabilities and drive their continuous enhancement to establish and/or improve a robust LDP through reassessment, strategic planning, and iterative improvements, ensuring alignment with evolving strategic goals

Expand Strategy

Define community goals on implementing a local digital twin and identify the strategic priorities that can must benefit from the implementation of a local digital twin

Operation & Monitor

Encompass activities related to the day-to-day operations, maintenance, and optimisation of the local digital platform and the community's local digital twin

Governance

Design the Governance by defining the structure, processes, roles and responsibilities that guide decision-making, creating an efficient and sustainable framework that enables the implementation of smart community's initiatives

Infrastructure Strategy

Develop the digital twin, leveraging the collected data and chosen technology. Then integrate the digital twin with existing community systems

Implementation /Scale-up

Deployment and integration of a comprehensive technological infrastructure designed to support various digital services, applications, and data-driven functionalities across the community

Digital Deployment

Develop the digital twin, leveraging the collected data and chosen technology. Then integrate the digital twin with existing community systems

Community Project Management Office

PMO and project management for controlling collaboration and executing governance throughout project delivery helping drive the desired outcomes and risk mitigation

Roadmap streams (2/2)

Device Management

Develop and implement strategies for effective management and maintenance of community devices or services, ensuring optimal performance and longevity

Data

Implement effective data management practices to collect, organise, and utilise data from various sources within the community's infrastructure, supporting data-driven decision-making

Network

Establish and maintain a robust network infrastructure to ensure seamless connectivity and communication across all community devices, enabling efficient data exchange

Security

Promote the delivery of a community's cybersecurity framework covering different capability elements such as people, process and technology

Implementation Readiness

Collect multi-source real-time/historical data, choose the technology best suited for community needs and collaborate with community/regional stakeholders, fostering knowledge sharing and goal-alignment

Integration/ Interoperability

Foster seamless interaction and data exchange among devices and applications, promoting an integrated and connected urban ecosystem

Storage

Analyse future storage requirements versus current state and develop recommendations for the proposed initiatives concluded around the deployment of storage infrastructure

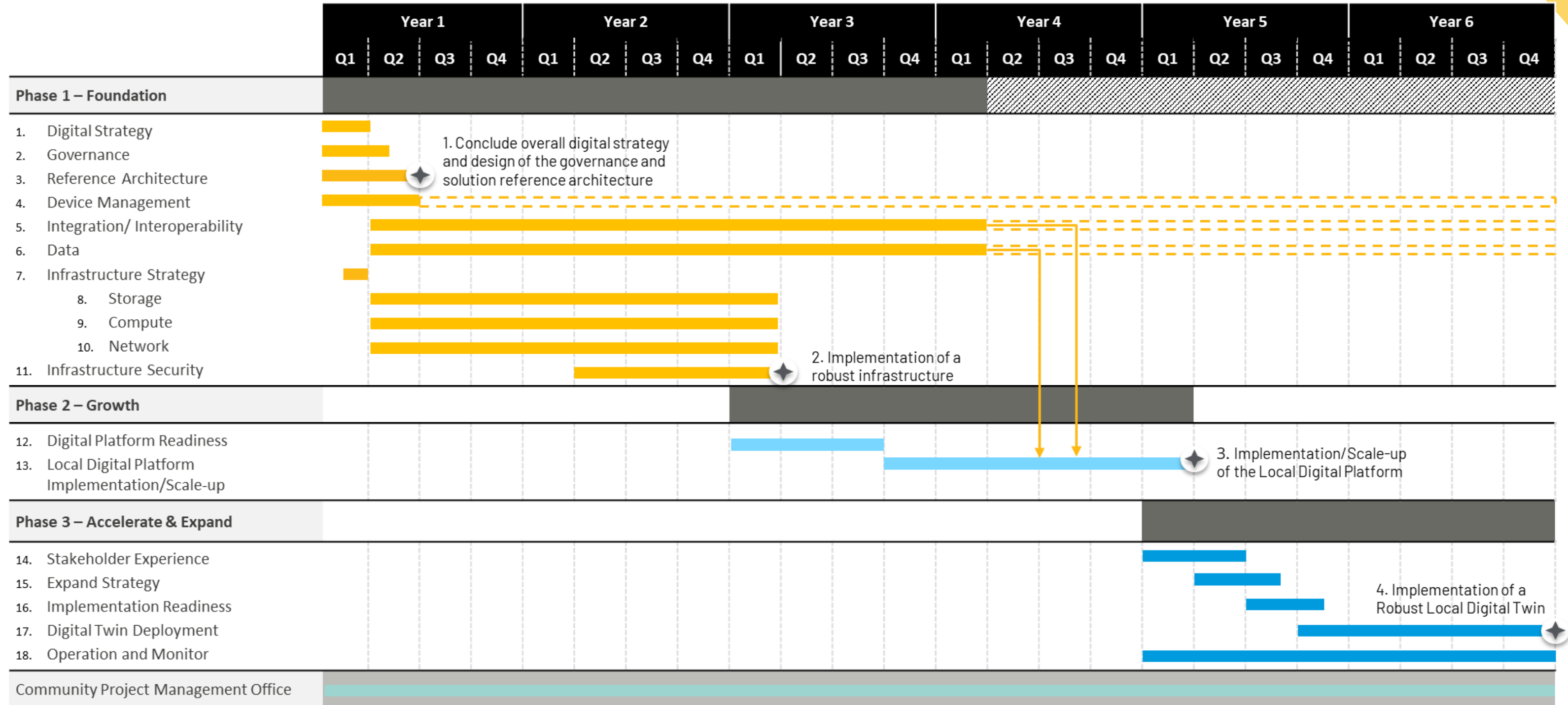
Compute

Implement robust computational capabilities that facilitate efficient data processing and decision-making within the community's ecosystem

Stakeholder Experience

Communicate and collaborate with community's stakeholders to understand their concerns and manage their vision of the community's goals and ambitions

Reference Roadmap



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

Caption: ● Phase ◆ Milestone

Initiatives

5 Data

Data Capability refers to the city's ability to effectively collect, process, manage, and utilise data from various sources and domains, including infrastructure, technologies and processes in place. This capability can be divided into 6 major sub-capabilities: Data Strategy, Data Governance, Data Collection & Management, Data Analysis, Data Centralisation and Data Retention & Backup.

☰ Main Initiatives (1/2)

Data Strategy

- Design/ Review the Data Strategy which sets the approach for the acquisition, storage, management, sharing, usage and governance of data, in support of enhancing city digital services and improving quality of life for residents

Data Governance

- Review the Data Governance Principles, Framework and Tool selected, ensuring that is aligned with the community's ambition
- Identify Governance Tools for managing and ensuring the policies and standards, quality, security and compliance of the data used and collected by the city
- Implement a Data Governance Tool for managing and ensuring the policies and standards, quality, security and compliance of the data used and collected by the city

Data Collection & Management

- Review the Data Collection and Management Strategy, ensuring that is aligned with the community's ambition
- Drive the community towards a more data-driven paradigm by modernising data collection methods, as well as implementing and improving the collection of the data sources, e.g., based on specific events, periodically, and considering the integration of real-time data collection. Real-time collection is one of the most important components for a smart city, since it helps the community to make informed, timely decisions, enhancing efficiency and the quality of decision-making
- Gradually increase the variety and quantity of data sources to enrich the community's information landscape and enhance the quality of insights that can be produced from an increasingly integrated view

Foundation

Growth

Accelerate & Expand

Calendar Estimate

Year 1				Year 2				Year 3			
01	02	03	04	01	02	03	04	01	02	03	04
██████████				██████████				██████████			
Year 4				Year 5				Year 6			
01	02	03	04	01	02	03	04	01	02	03	04
██████████				██████████				██████████			

Procurement Objects*

- Data Governance tool
- Real-time data collection tools
- Data providers
- Data analytics tool

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

Interdependencies

- 2 Reference Architecture
- 3 Device Management
- 6 Infrastructure Strategy

A person in a white shirt is holding a tablet. The tablet screen shows a city skyline at night with a network of white lines connecting various points, symbolizing smart city technology. The background is a blurred cityscape.

**PODPORA ZADÁVÁNÍ VEŘEJNÝCH ZAKÁZEK PRO CHYTRÁ
MĚSTA: SEZNÁMENÍ SE ŠABLONAMI A POKYNY EU PRO
ZADÁVÁNÍ VEŘEJNÝCH ZAKÁZEK**

Procurement support for Smart Communities: Learning about the EU tailor-made procurement templates and guidelines

Agenda of the training session

1 Scope of the training | Objective, learnings and target audience

2 Procurement process overview and identification of needs

3 Procurement support | Templates and Guidelines

4 Call to action | Get involved in the review process!

1. Learn how to understand and identify your procurement needs to implement enhanced ICT solutions.
2. Learn how to use the procurement materials provided by the *Support services for EU Smart Communities* project for the acquisition of key technical components and services needed to advance digital initiatives.

0

What the procurement support is about

Identification of procurement needs

Access to open procurement templates

Access to procurement guidelines

0

2

How to effectively use the procurement templates

Procurement templates provide you with open and MIM-compliant *tender* and *technical specifications* templates, that are customisable for each community.

0

How to benefit from the procurement guidelines

Procurement guidelines will orient you throughout your procurement process

1 Scope of the training | Target Audience

Overall, the training session is designed for users who want to scale-up their digitalisation journey towards the implementation of local digital platforms and twins.

Urban managers
and planners

Sustainability
managers

Digitalisation and
Smart City experts

Innovation
managers

Data Managers

ICT Managers

Procurement
Officer

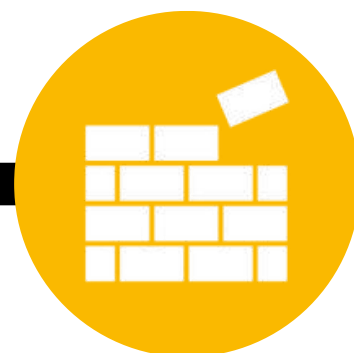
FROM THE ROADMAP TO PROCUREMENT SUPPORT

Digitalisation
Roadmap



Based on their level of digital maturity, communities define a digitalisation roadmap

Initiatives
identification



Communities identify a set of initiatives to build the capabilities required for the development of LDPs and LDTs, on the basis of the strategy defined

Procurement
needs



Communities identify their procurement needs, focusing on the procurable initiatives

Procurement
templates



Communities will have access to open procurement templates to customise and use when launching procurement processes

Procurement
guidelines

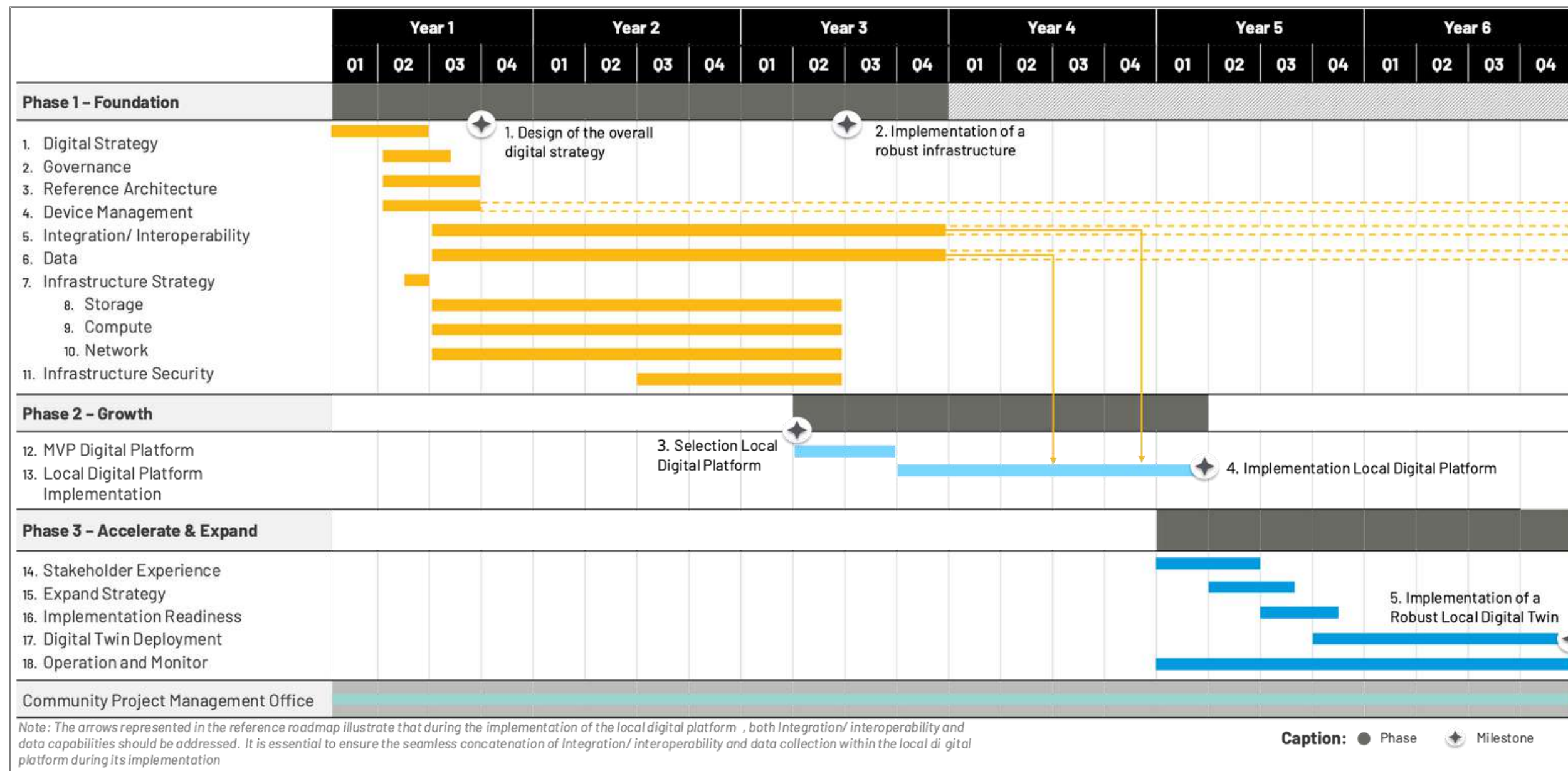


Communities will have access to a set of guidelines, as supporting material of the templates, to address questions, doubts and problems

Digitalisation Roadmap and identification of initiatives

- Communities develop a digitalisation roadmap, based on their digitalisation level. The roadmap presents the
- key technical capabilities that a community needs to build to develop LDPs and LDTs. For this, a set of
- initiatives and an implementation timeline are defined.

Overview of capabilities and enablers and correspondent reference timeline



Mapping procurement needs

From initiatives to procurement materials

Defining the digitalisation roadmap

Identifying
procurement needs

Tailoring and using
the templates

Capabilities &
enablers

Initiatives

Procurement
needs

Specific procurement
template



Procurement
Templates



Procurement
Guidelines



Procurement
Templates



Procurement
Guidelines



Procurement
Templates

COMING
SOON

in English,
French and
German!

Tender specifications



Scope and description
of the procurement



General tendering
information



Evaluation and award

Technical specifications



Compliance checks
and warranty



Technical and functional
requirements



Minimum Interoperability
Mechanisms (MIMs)

Procurement Templates



Procurement
Templates

TEMPLATE

contains →

PROCUREMENT OBJECTS

TEMPLATE	contains →	PROCUREMENT OBJECTS
IoT devices Data & security user-facing applications		IoT devices User authentication federation tool, Cyber threat detection tool, Data governance tool, GDPR compliance tools
Backend data SW application		Data analytics tool (3D modeling services), Data Backup tool, Data prediction and simulation models, Real-time data analytics tool, Real-time data collection tools
Network infrastructure		Network, Network monitoring tool, Network capacity infrastructure Hardware
IoT platform		IoT platform
On premises computing		On-premises Automatic Computing Management Tool, On-premises Computing measures Tool, On-premises Computing Provisioning and Cleanup Tool
On premises storage		On-Premises Automatic Storage Management tool, On-Premises Storage Provisioning and Cleanup tool
		Advanced cloud computing tools, Cloud Automatic Computing Management Tool, Cloud Computing measures Tool, Cloud Computing Provisioning and Cleanup Tool
Cloud computing		Cloud Automatic Storage Management tool, Cloud Storage Provisioning and Cleanup tools
Cloud storage Software		Ad hoc SW development services, PETs application, Middleware Software
development services		Data providers
Information provider services		Local Digital platform
User-facing platform		IaaS: edge computing, virtual machines, containers, etc.
Cloud connection services (IaaS)		SaaS software (managed in a stack logic)
Cloud connection services (SaaS)		PaaS platforms (managed in a stack logic)
Cloud connection services (PaaS)		



Procurement
Templates



Procurement
Guidelines



Procurement
Guidelines

Thematic areas



Templates guidance



Market engagement



Funding & financing



Tender development



Evaluation & award

Procurement Guidelines



Procurement
Guidelines

List of Guidelines

AREA	GUIDELINE
Templates guidance	How to use the templates and guidelines Tailoring procurement templates Key features and considerations to use the templates Guidance on user profiles Guidance on needs identification EU legal frameworks and compliance Technical specifications reading and tailoring Innovation procurement Engagement of market actors and SMEs Sustainability and social goals Supplier evaluation processes and negotiation Conditionalties and contractualisation MIMs, standards and certifications' compliance
Tender development	
Market engagement	
Evaluation & award	
Funding & financing	Guidance on EU Support and Finance

Call to action

Get involved in the review process!

LDT procurement material |
Interest in providing feedback





OTÁZKY – prosíme zašlete do chatu

Užitečné informace a další kroky

1



Vytvořte strategii pro digitální dvojče

2



Připojte se k hnutí Living-in.EU

3



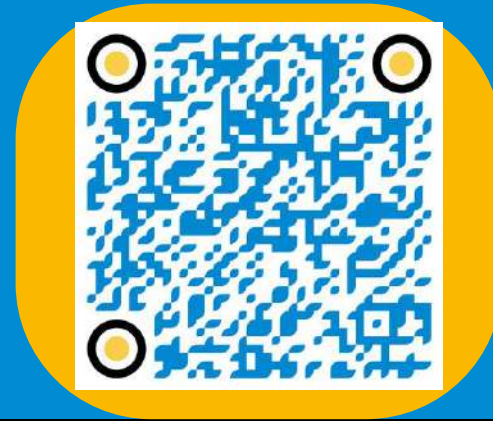
Zhodnoťte digitální připravenost s LORDIMAS

4



Objevte MIMs Plus a začněte budovat Open Data Architecture Framework

5



Přístup k EU Support Services for Smart Communities

6



Online Procurement Helpdesk - podpora při zadávání veř. zakázek

**PŘÍŠTÍ ŠKOLENÍ -
REGISTRACE
BUDE BRZY
SPUŠTĚNA**

PŘÍPRAVA
Online školení 2
22. 5. 2025
10:00

**Prosíme vyplňte stručný dotazník.
Předem děkujeme za zpětnou vazbu!**



<https://forms.office.com/r/AiRRK7ztzp>



Pozvánka na další školení Česká republika

Fáze 2: Příprava

FÁZE PŘÍPRAVY

Jak nastavit potřebnou IT infrastrukturu

- Význam otevřených datových platforem a datových prostorů jako základ vaší datové infrastruktury
- Jak vytvořit otevřené datové platformy a datové prostory prostřednictvím otevřené referenční architektury s podporou MIMs
- Přehled open-source nástrojů dostupných prostřednictvím EU Local Digital Twin Toolbox

 22.05.2025

 10:00

Fáze 3: Posílení

PODPORA A SÍŤOVÁNÍ

Podpora prostřednictvím financování a komunity

- Objevte komunitu Living-in.EU, využijte její potenciál a zdroje, zapojte se do aktivit
- Možnosti financování na EU úrovni a jak získat finanční prostředky

 19.06.2025

 10:00

Zvyšování povědomí a připravenosti samospráv v oblasti digitalizace

ve spolupráci

SMO

SVAZ MĚST A OBCÍ ČESKÉ REPUBLIKY



DĚKUJEME