



New Challenges for Europe's Cohesion



#EURegionsWeek



# LIVING-IN.EU



Digital Transformation for Regions

## EUROPEAN WEEK OF REGIONS & CITIES



DT4REGIONS is a European Parliament Preparatory Action supported with European Funds

October 12, 2022

## AGENDA for today

Agenda Point	Time	Speakers
Welcome & introduction	9:30- 9:35 am	<b>Fernando Vilariño</b> , Associate Director at Computer Vision Centre – UAB & ENoLL
Living-in.EU: enacting digital transformation for 300 million Europeans	9:35- 9:45 am	<b>Noirin Ni Earcain</b> , Seconded National Expert at DG CONNECT at European Commission
DT4REGIONS: the European Platform for Regions to enable AI and Big Data collective solutions	9:45- 9:55 am	<b>Stefania Sparaco</b> , DT4REGIONS Project Coordinator, Emilia-Romagna Region, Italy
FAIR AI procurement processes: the Helsinki way forward	9:55- 10:05 am	<b>Timo Ruohomäki</b> , Program Director IoT and Data at Forum Virium Helsinki
The Digital Skills Program of DT4REGIONS and Living-in.EU: aligning regional and city needs	10:05- 10:15 am	<b>Francesca Spagnoli</b> , Head of Capacity Building & Research at the European Network of Living Labs
Interactive Session: What digital skills? Which need? Widening up the DT4REGIONS and Living-in.EU Capacity Building Program	10:15- 10:55 am	Session moderated by <b>Francesca Spagnoli</b> , Head of Capacity Building & Research at the European Network of Living Labs
Wrapping & Closing of the event	10:55 – 11:00	<b>Fernando Vilariño</b> , Associate Director at Computer Vision Centre – UAB & ENoLL

Actions requested for the participants:

**Change your name by adding the keyword representing your favourite topic at the beginning.**

**We will use this to split participants in the break-out rooms slot:**

- **DT** - for Digital Twins
- **DS** - for Digital Spaces (Metaverses and Data Spaces)
- **DI** - for Digital Identities

Example:

**Fernando Vilariño (CVC-UAB-ENoLL)**  
has to be changed to  
**DT Fernando Vilariño (CVC-UAB-ENoLL)**

The 3 break out room sessions will be recorded, so do not worry.





# Living-in.EU: enacting digital transformation for 300 million Europeans



DT4REGIONS is a European  
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Noirin NI EARCAIN, DG CONNECT,  
Technologies for Smart Communities

# Policy context: climate-neutral and smart communities



## A Europe fit for the digital age

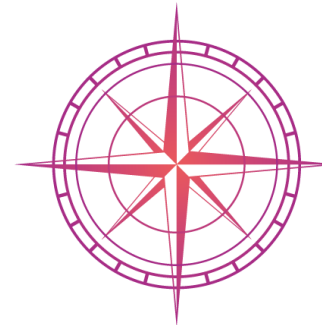
### Smart cities and communities - > 'twin digital and green' transition



**Public Services**  
**Key Public Services:** 100% online  
**e-Health:** 100% availability medical records  
**Digital Identity:** 80% citizens using digital ID

#### Skills

**ICT Specialists:** 20 million + Gender convergence  
**Basic Digital Skills:** min 80% of population



#### Infrastructures

**Connectivity:** Gigabit for everyone, 5G everywhere  
**Cutting edge Semiconductors:** double EU share in global production  
**Data – Edge & Cloud:** 10,000 climate neutral highly secure edge nodes  
**Computing:** first computer with quantum acceleration

#### Business

**Cloud up-take:** 75% of EU companies using Cloud/AI/Big Data  
**Innovators:** grow scale ups & finance to double EU Unicorns  
**AI adopters:** more than 90% of European SMEs reach at least a basic level of digital intensity



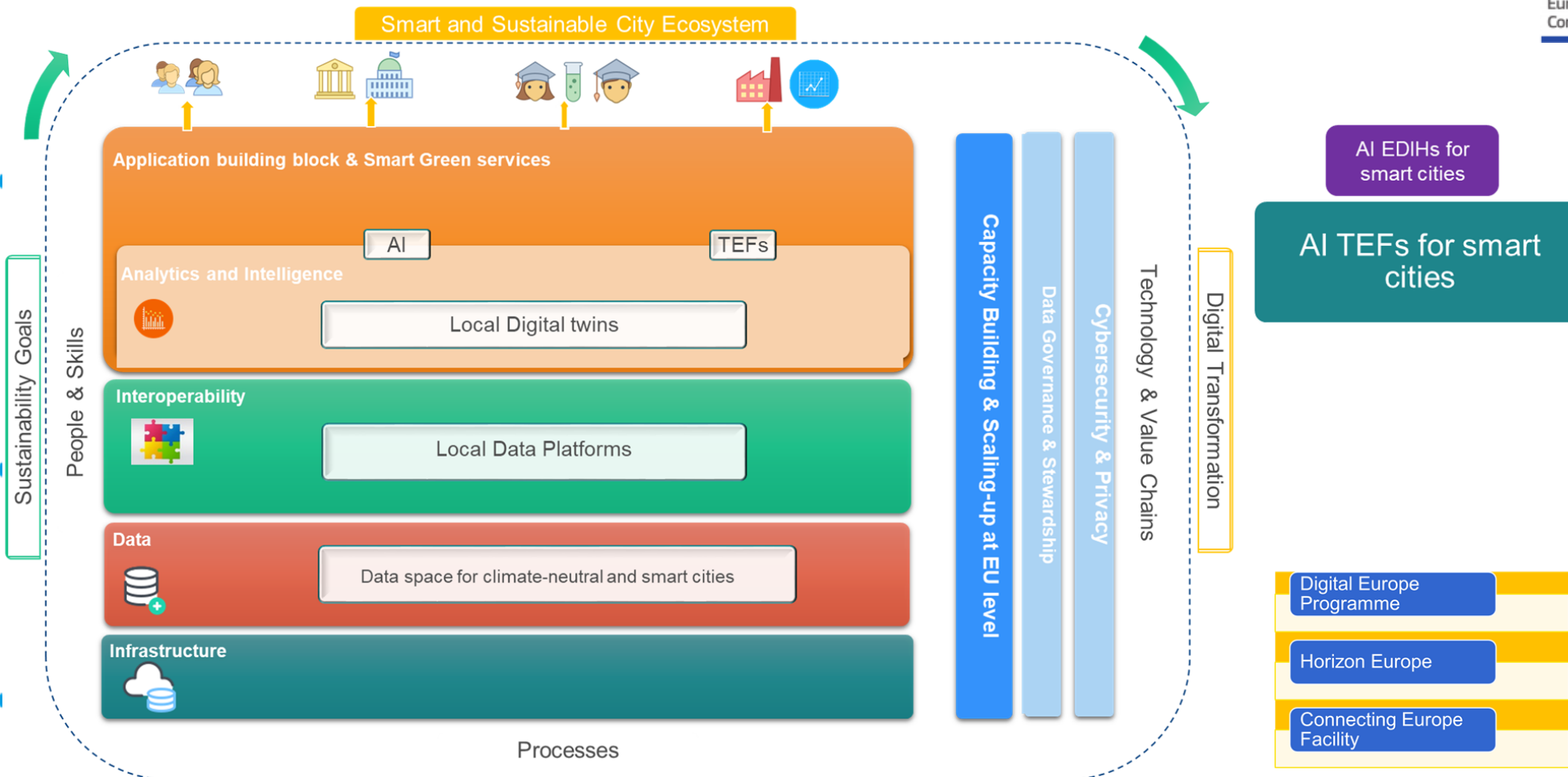
DT4REGIONS Digital Transformation for Regions



LIVING-IN.EU

<https://www.living-in.eu/>

# Smart cities and communities architecture



# Examples of cities & regions using digital twins



Port of Rotterdam



Antwerp



Helsinki



Madrid, The Hague, Budapest,  
Lyon, Oslo and Porto



Helsinki, Santander, Flanders

Flanders, Athens, Pilsen



Athens, Berlin, Flanders,  
Sofia

## Towards and ecosystem of networked Local Digital Twins in the EU

... For resource efficiencies, tackling environmental and climate challenges more effectively, creating a thriving market, etc. enabled by:

- **Interoperable platforms:** manage and share data and stakeholders, federation of many platforms to manage the city services in a holistic way - > supporting the take-up of interoperable, open standards-based platforms
- **Interoperable data:** data access, sharing, use and reuse - > fully-fledged, federated EU smart communities' data space
- **Interoperable Digital Twin components:** EU LDT Toolbox and sharing common principles and processes, enabled by interoperability and standards



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# EU funding DIGITAL Programme – starting now

## Data



Data space for climate-neutral and smart cities

- Developing data governance scheme
- Blueprint of data space (governance)
- Priority data sets aligned with blueprint standards and principles
- Roadmap
- Validation of the blueprint on at least two of the European Green Deal action areas
- **Piloting of data space in Call 3 *\*\*OPEN\*\****

## Interoperability



Local Data Platforms

Help prepare the procurement and deployment of the interoperable local platforms

## Application building block & Smart Green services

AI

TEFs

### Analytics and Intelligence



Local Digital twins

Procure a European toolbox for Local Digital Twins that all European cities could use when developing their digital twins



DigiNEB.eu Coordination and Support Action – Digital technologies in support of the New European Bauhaus objectives


# LIVING-IN.EU

The European way of digital transformation in cities and communities





# EU common data spaces

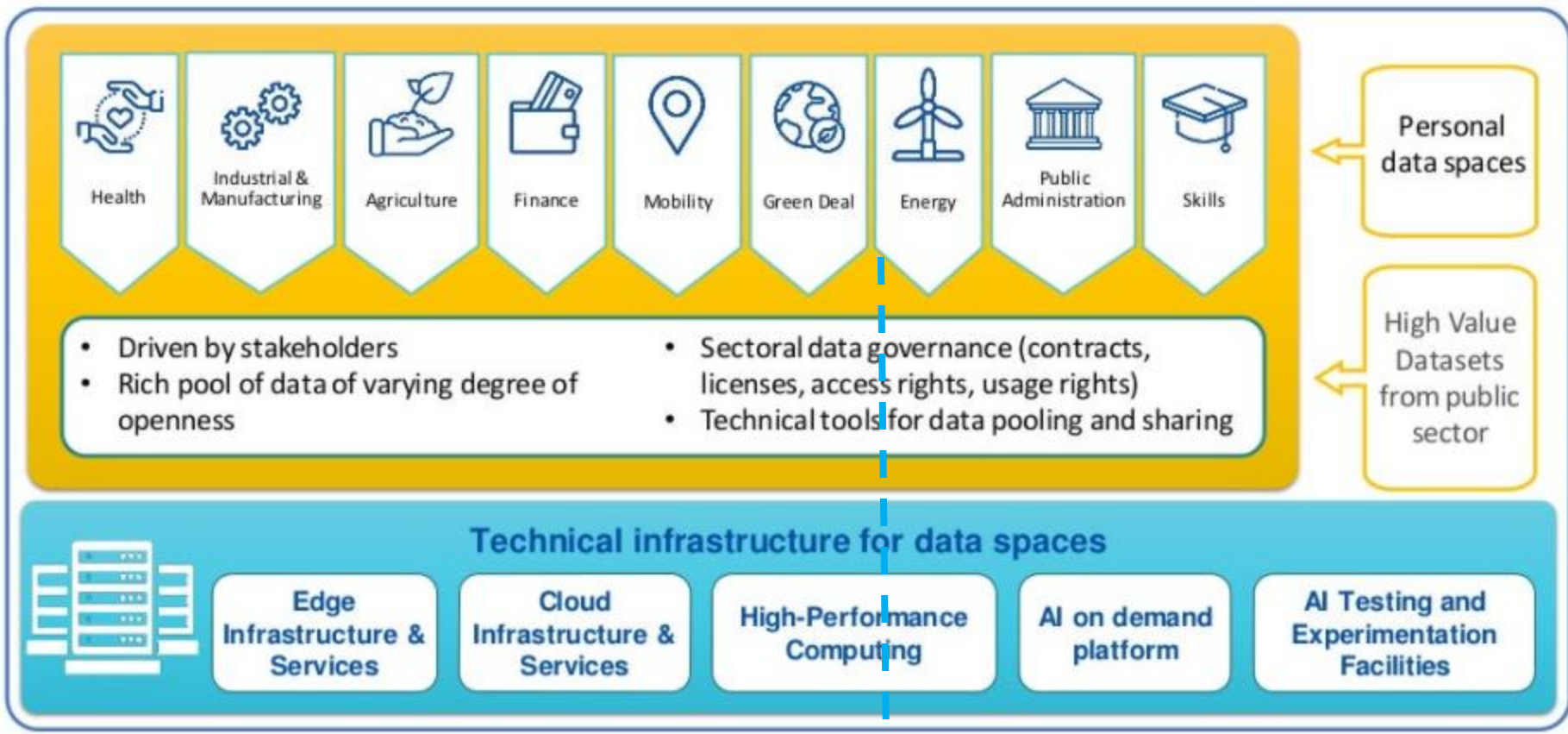
Data  Data space for climate-neutral and smart cities



## THE EUROPEAN DATA STRATEGY



Rollout of common European data spaces in crucial economic sectors and domains of public interest, looking at data governance and practical arrangements.



## Data space for smart communities

Data space: interoperable and secure environment, where currently fragmented and dispersed data can be shared among those, who become part of this data space based upon voluntary agreements and under certain conditions

# Interoperable, standards-based local data platforms

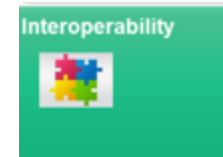
- [Minimal Interoperability Mechanism](#) (MIMs Plus) – see Living-in.EU
- Training and guidance material – Living-in.EU, JoinUp, Interoperability Academy
- [Digital Building Blocks](#)

## *Forthcoming solutions*

- Digital maturity assessment tool
- Standard procurement contracts for Local Data Platforms
- Advisory services for cities/communities
- Conformance assessment tool for MIM-compliant digital solutions



# Interoperable Europe Act – EIF4SCC



## Promoting interoperability through a European Interoperability Framework (EIF) for Smart Cities and Communities (EIF4SCC)



# Living-in.EU Movement

## The European way of digital transformation in cities and communities

Over 121 signatures so far... From Mayors, Regional and national Ministers and around 100 supporters

# LIVING-IN.EU



DT4REGIONS Digital Transformation for Regions



# LIVING-IN.EU

<https://www.living-in.eu/>

## Based on shared principles and values

### Political Declaration Principles

- Citizen-centric approach
- a city-led approach at EU level
- the city as a citizen-driven and open innovation ecosystem
- ethical and socially responsible access, use, sharing and management of data
- technologies as key enablers
- interoperable digital platforms based on open standards and technical specifications, Application Programming Interfaces (APIs) and shared data models

# LIVING-IN.EU



## Living-in.EU Sub-groups

- Legal & Ethics
- Technical
- Financial
- **Education & Capacity Building**
- Monitoring & Measuring

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# Coordinated Plan on AI (2021 Revision)

... the Commission will...

continue to support public administrations including cities and communities in procuring trustworthy AI (1) by developing a set of minimal capabilities for algorithms to be used in contract conditions through the Living-in.EU movement and by other means

support public administrations, including cities and communities in creating AI algorithm registries (2) to increase citizen trust, and encourage the use of catalogues of AI-enabled applications (3) for administrations to increase the take-up of AI by the public sector, for example through the European AI on demand platform

# 1) Procuring trustworthy AI standard contract clauses

Workshop held in [June 2021](#) on the topic of contract clauses for AI, following Amsterdam's example

**Procedural transparency:** to understand the purpose of the algorithm and how it arrives at its outcome (e.g. choices and assumptions made, which type of data is being used and how bias is counteracted)

**Technical transparency:** insight into the technical operation of the algorithm, i.e. the source code needed for the algorithm to run (usually not necessary)

**Explainability:** making the algorithm's decision-making transparent if the outcome of an algorithm affects someone personally

- Amsterdam's contractual clauses are being adapted to fit EU policy context, i.e. alignment with the AI Act
- AI Digital Public Buyers [Workshop](#) on 17<sup>th</sup> May
- AI Digital Public Buyers Community (led by DG GROW) and Living-in.EU will test these [clauses](#)





## 2) Deploying Algorithm Registers

Amsterdam and Helsinki have developed **Algorithm Registers** for citizens to access information on how AI has been used in decisions which affect them. **Eurocities'** Digital Forum Lab, will work with cities to develop common **procurement guidelines for local AI Registries** (can be used for an external supplier, but could also help those that would want to do it in-house or through open source software)

OASC/ Living-in.EU Tech subgroup will develop a **FAIR AI MIM** (MIM 5) to automate checking of contractual clauses and presentation of information via an AI Register.



### 3) Fair AI MIM (MIM 5)

To provide technical tools and guidance to support cities in procuring and using fair and transparent AI.

It will support the checks needed to use the contract clauses for procurement and align with the work on the Algorithm Registries.

- Amsterdam, Athens, Barcelona
- DG CONNECT, DG DIGIT
- ATOS, Engineering, NEC



### 3) Catalogue of AI enabled applications

AI on Demand Platform [ai4europe.eu](https://ai4europe.eu)

The European AI-on-demand platform seeks to bring together the AI community while promoting European values. The platform is a facilitator of knowledge transfer from research to multiple business domains.

The platform serves as a catalyst to aid AI-based innovation, resulting in new products, services, and solutions to benefit European industry, commerce, and society. By bringing people together, the community resource seeks to address the fragmentation of the European AI landscape and facilitate technology transfer from research to business.

The AI on Demand aims to create value, growth, and jobs in Europe through an ecosystem and a collaborative platform that unites the AI community, promotes European values, and supports research on human-centered and trustworthy AI.



## Other developments on AI

- **Experimentation, testing, piloting:** AI Testing and Experimentation Facility for Smart Communities (CitCom.ai)
- **Support for public administrations to build skills and capacity:**
  - European Digital Innovation Hub
- **Monitoring and identifying challenges and opportunities:** AI Watch, Adopt AI Programme
- **Support for data-sharing:** smart communities data space

[AI Watch – AI for the public sector](#)

[AI Watch: Road to the adoption of Artificial Intelligence by the Public Sector Study on up-take of emerging technologies in public procurement](#)

[AI for the Public Sector Conference, June 2022](#)

# Info Day, 18 October

## Data Space for Smart Communities (Deployment),

[Call text](#), News item on [Europa](#) and [the registration page](#)



### Indicative Agenda

14:30 - Introduction (purpose, the context)

14:45 - Topic presentation

15:00 - The precursor preparatory action (DS4SSCC)

15:10 - Questions from the audience and answers

15:30 - Online networking – presentation of potential ideas for a proposal

16:00 - Final messages

Sign, Support, Like ... the Join, Boost, Sustain Political Declaration

# LIVING-IN.EU

Join the movement !



DT4REGIONS Digital Transformation for Regions



## LIVING-IN.EU



@ConnectCitiesEU  
@living\_eu



# DT4Regions: the European Platform for Regions to enable AI and Big Data collective solutions



DT4REGIONS is a European Parliament Preparatory Action supported with European Funds

**LIVING-IN.EU**

*Stefania Sparaco – DT4REGIONS Project Coordinator, Emilia-Romagna Region, Italy*

# DT4REGIONS: The project in a nutshell



Preparatory action on the initiative of the European Parliament, co-funded by the European Commission



2-year duration:  
1 July 2021 – 31 June 2023



Total budget:  
€1,133,333.33  
(of which €850,000.00 EU contribution)



14 partners and  
13 supporting organisations





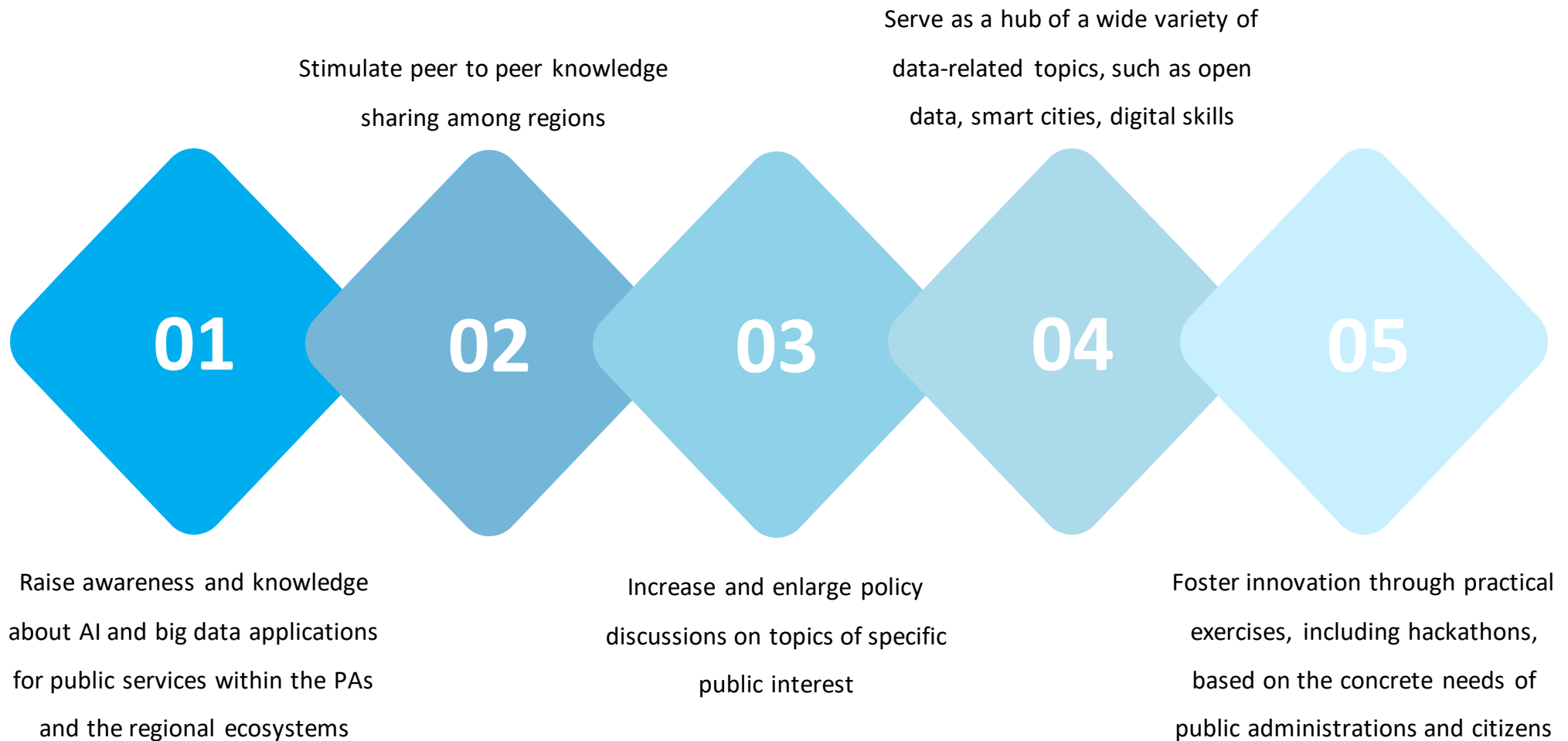
# DT4REGIONS partners



DT4REGIONS Digital Transformation for Regions



# DT4REGIONS specific objectives



# Challenges of Digital transformation of public administrations

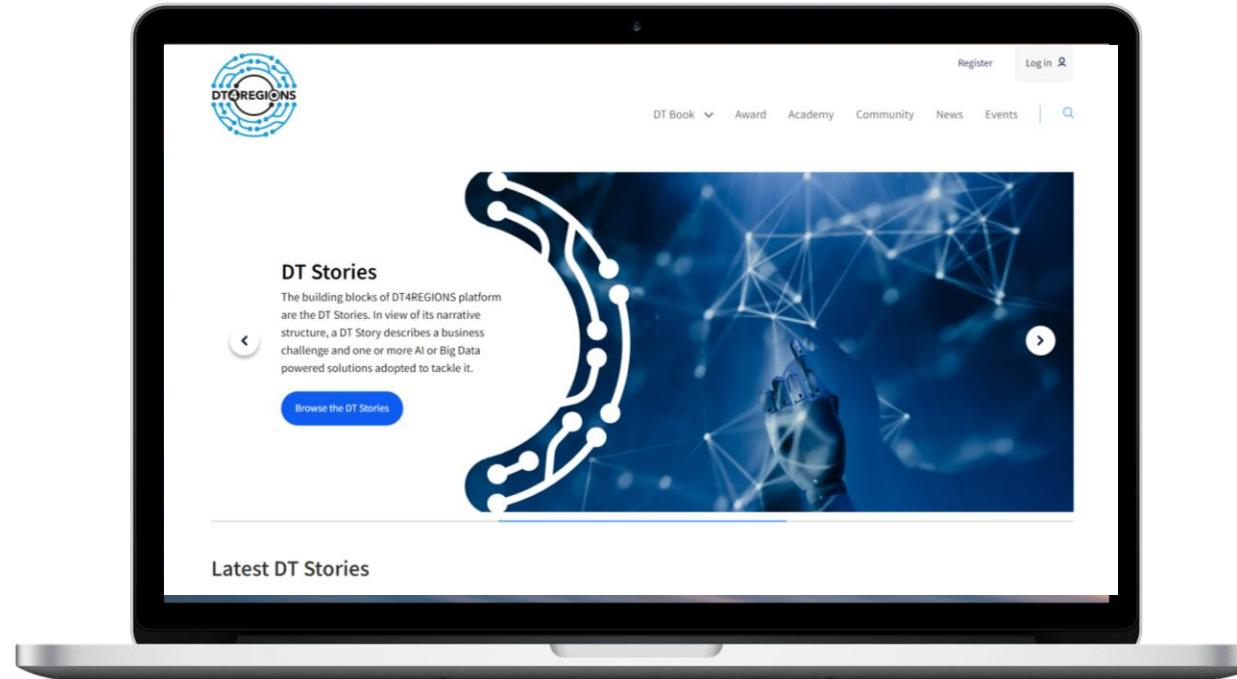
- The need to make the transition happen quickly
- The need to raise awareness and create a community on AI and Big Data
- The upskilling of competences
- The sharing and learning from mistakes
- The uptake of technical frameworks to facilitate replicability

## DT4REGIONS' response

- Creation of an European platform that:
  - ◆ enforce a community on AI and big data
  - ◆ allows the sharing and learning from experiences and mistakes
  - ◆ contains technical frameworks to allow replicability of experience



# dt4regions.eu

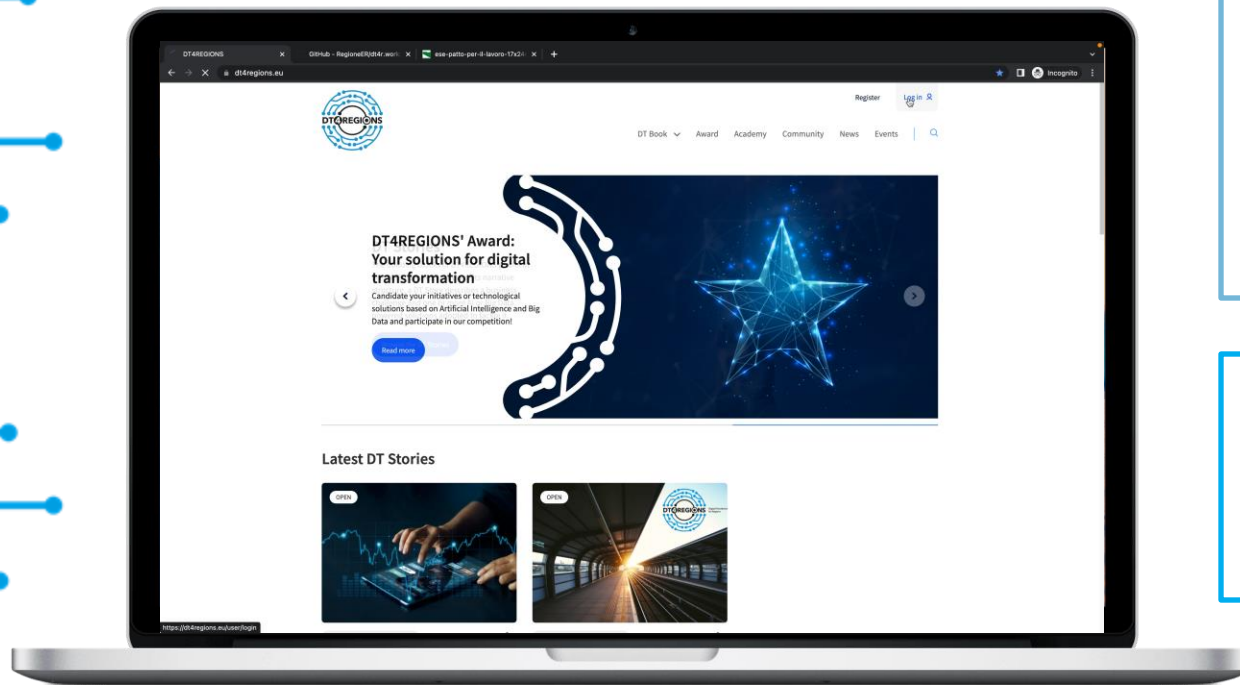


**DT4REGIONS** Digital Transformation for Regions



DT4REGIONS is a European  
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# DTStory & DTSolution



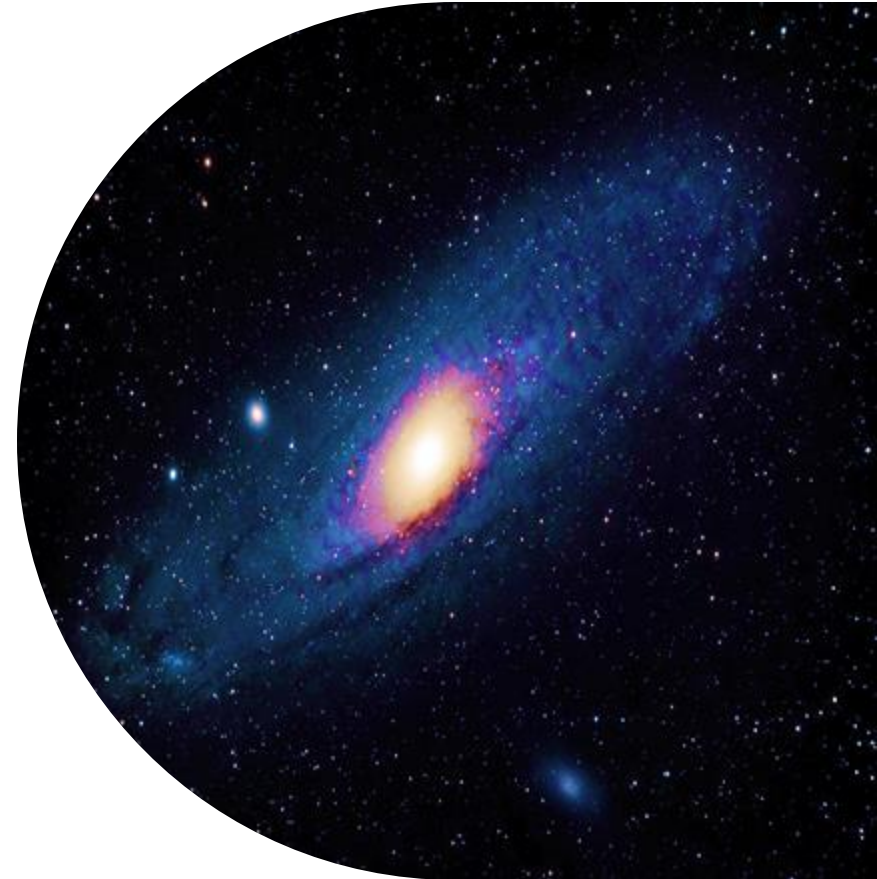
A DT Story represents an identified opportunity for value creation through digital transformation. It may be described as a set of problems to tackle or specific strategic objectives to achieve by implementing innovative practices, such as AI technologies or Big Data

A DT Solution is a reusable, interoperable, and self-contained set of digital resources and documentation that has proven its value in addressing the business challenges defined in a DT Story

## The challenge within the challenge: innovating the public sector into a platform ecosystem

The value and future of the platform depend on how able we will be to convey our learnings **in an easy and transferable form to share into the platform.**

**The more attractive we will make our DT Stories, and the wider the set of different DT Solutions we will be able to offer** to the shared DT Stories, the more our network will grow, fueling a sustainable process of innovation in the public sector.



# DT4REGIONS' Platform - Core Modules



# Starting from now: real opportunities for Regional and local administrations



Share DT Stories  
and DT Solutions  
through [dt4regions.eu](https://dt4regions.eu)



Call for applications for  
the DT4Regions Award  
till the end of october



Learning by doing  
(DT4Regions network  
and stakeholders)



## Keep in touch:



[DT4REGIONS platform](#)



[@DT4REGIONS](#)



[@DT4REGIONS](#)



[Sign up to the DT4REGIONS newsletter](#)



**DT4REGIONS** Digital Transformation for Regions



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# FAIR AI Procurement Process: the Helsinki way forward



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Timo Ruohomäki  
Forum Virium Helsinki Oy

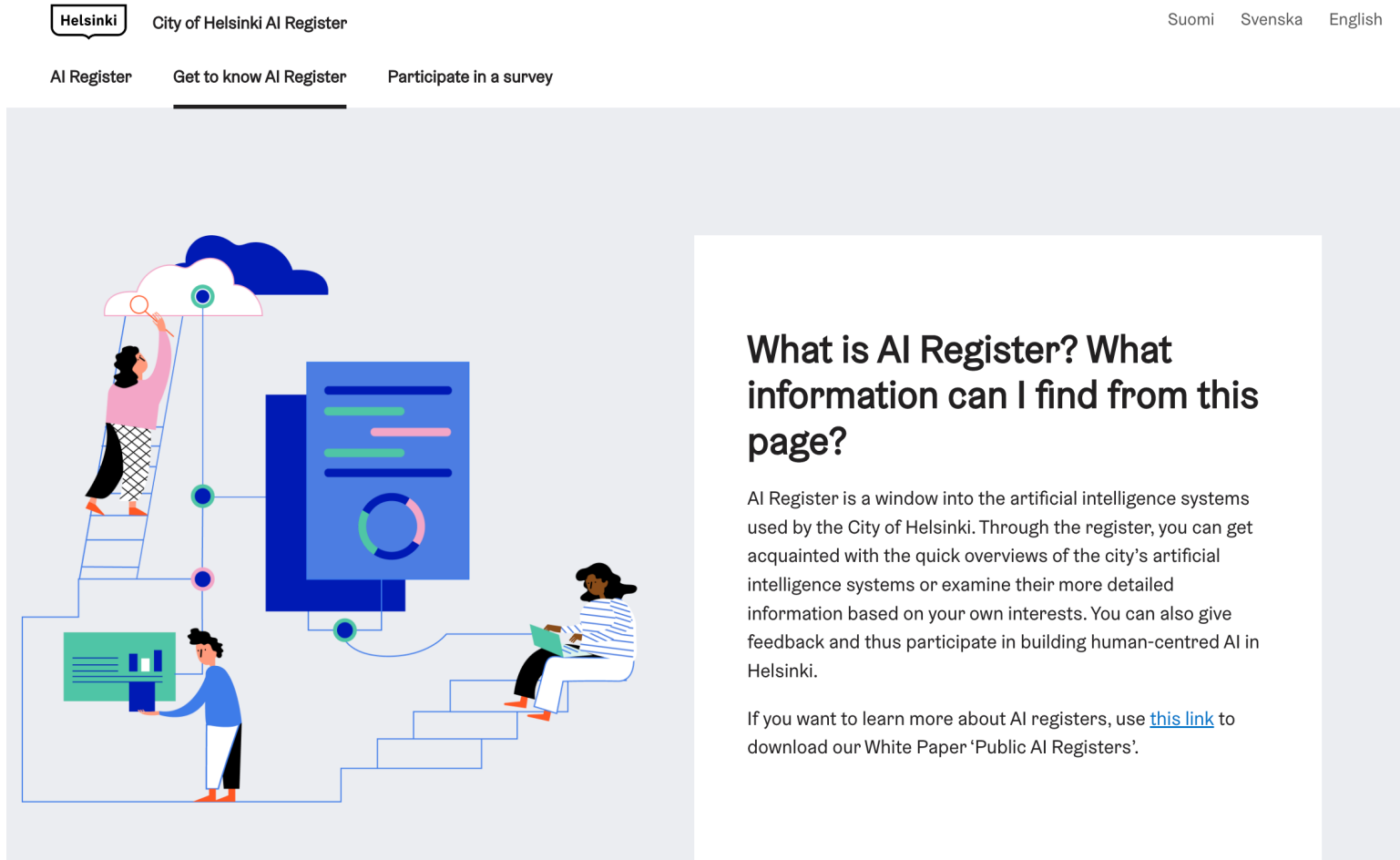


## Topics

- Building Trust with Transparency
- Innovative Procurement: Case AI4Cities



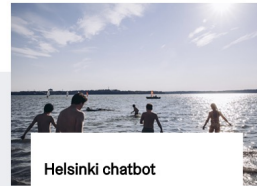
# AI Landing Page (https://ai.hel.fi/en)



# AI System Descriptions

## Artificial intelligence systems of Helsinki

Learn about the use cases where we currently utilise artificial intelligence as part of our city services.



### Helsinki chatbot

Helsinki chatbot is a 24-hour customer service channel of the Helsinki City Information aimed at improving the accessibility of customer service and the customer experience and increasing the interactivity of the self-service. The service provides relevant information to each...

> [Read more](#)



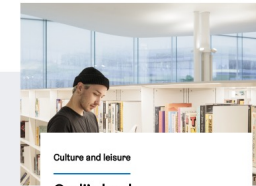
### Housing and environment

#### Parking chatbot

The parking chatbot is a customer service channel of city's parking services. Service provides automated answers to the parking-related questions of city residents and visitors. The service is available at the city parking website of Helsinki.

The service aims to improve the...

> [Read more](#)

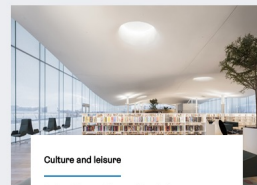


### Culture and leisure

#### Oodi's book recommendation service...

Odotti is Central Library Oodi's recommendation chatbot. The service recommends books from Oodi's selection according to the customer's interest and feedback. The service is aimed at all Central Library Oodi's customers and can be downloaded as a mobile application for Android and iOS...

> [Read more](#)



### Culture and leisure

#### Intelligent material management system

IMMS (Intelligent Material Management System) is an intelligent material management system for the entire library collection. The City Library's collection contains approximately 1.8 million items. An intelligent material management system was acquired while the city library moved away...

> [Read more](#)

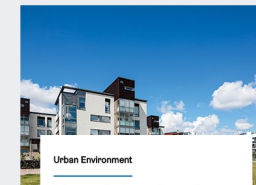


### Social services and health care

#### Health center chatbot

The chatbot provides health and illness-related advice easily without queuing. Chatbot directs the users to the right digital health services and advises on questions related to dental, mental health, substance abuse and social services. The service answers the most frequently asked...

> [Read more](#)



### Urban Environment

#### The rental apartment search chatbot

The rental apartment search chatbot is a 24-hour customer service channel of the City of Helsinki housing services aimed at improving the accessibility of customer service and the customer experience as well as increasing the interactivity of the self-service. The service provides...

> [Read more](#)

DT4REGIONS Digital Transformation for Regions



DT4REGIONS is a European Parliament Preparatory Action supported with European Funds

# About AI4Cities

**Duration:** 36 months  
(1.1.2020 – 31.12.2022)

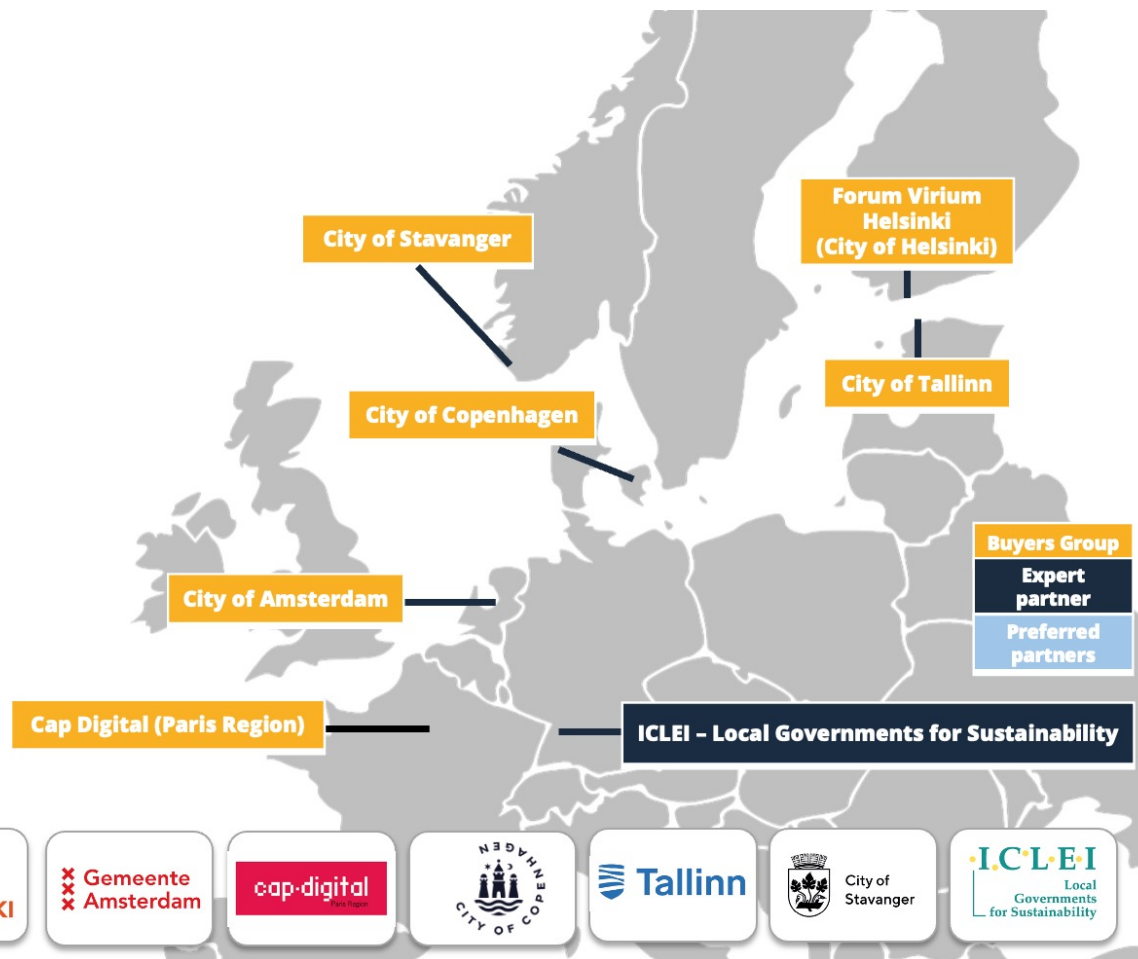
**Funding instrument:**  
Pre-commercial procurement  
(PCP)

**PCP Budget:**  
4.670.000€

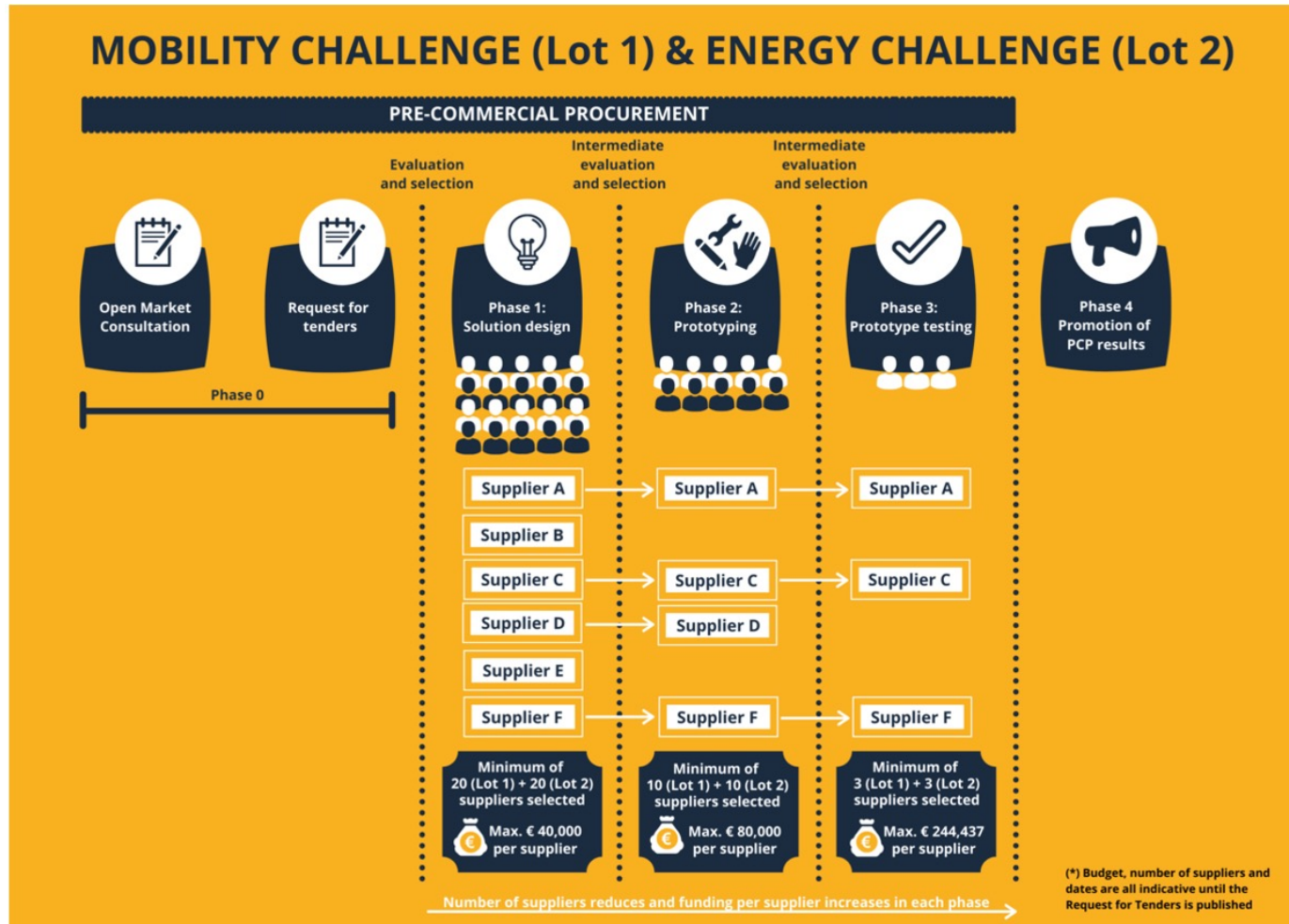
**Total Budget:**  
6.600.000€



The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 871914.



# Pre-Commercial Procurement (PCP) Process



# Lot 1 – Mobility Sub-Challenges

**Cities present: Amsterdam, Helsinki, Paris, Stavanger, Tallinn**

Depicts current needs in the cities

Sub-Challenge 1: Mobility-as-a-service

Sub-Challenge 2: Traffic Flow Optimization

Sub-Challenge 3: Optimization of Logistics

Sub-Challenge 4: Wild Card







## Lot 2 – Energy Sub-Challenges

**Cities present: Amsterdam, Copenhagen, Helsinki, Paris, Stavanger**

Sub-Challenge 1: Flexible Energy Consumption

- Flattening peak loads and using more renewable energy to decrease emissions

Sub-Challenge 2: Energy Efficiency

- Finding ways to use less energy by using energy more efficiently

Sub-Challenge 3: Development of Renewable Energy

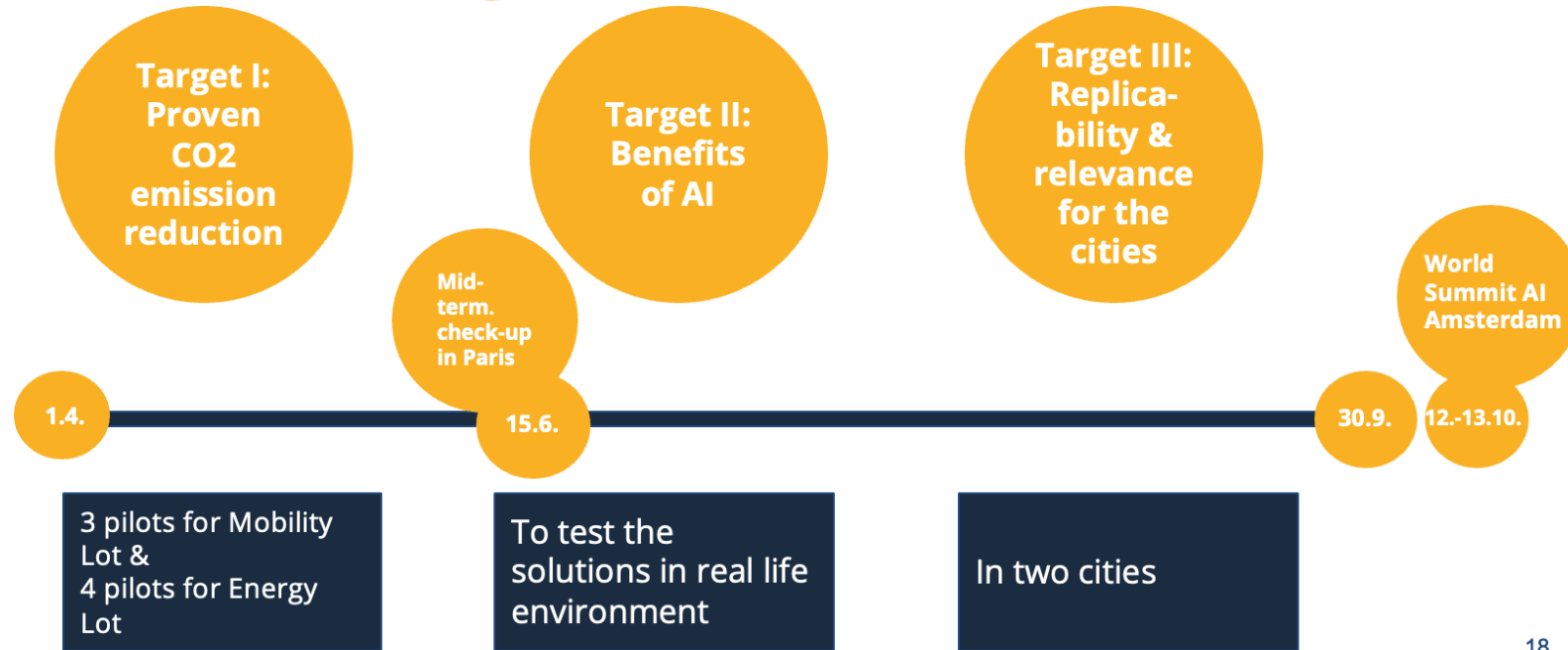
- Finding way to increase the use of renewable energy

Sub-Challenge 4: Wild Card

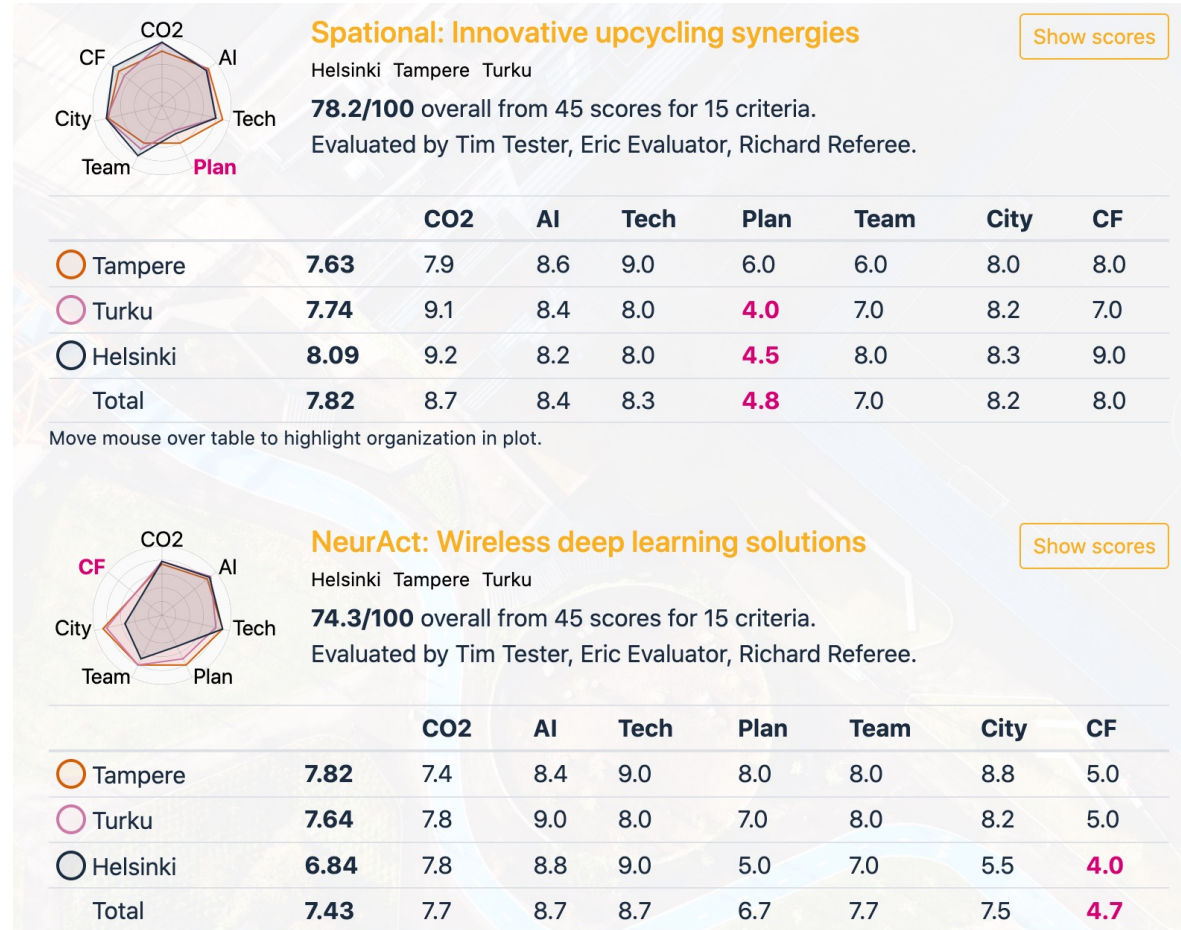


# Piloting Plan

## Phase 3: Piloting



# AI4Cities Application Evaluation Tool





# The Digital Skills Program of DT4REGIONS and Living-in.EU: aligning regional and city needs



DT4REGIONS is a European  
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**LIVING-IN.EU**

Francesca Spagnoli, Head of Capacity  
Building & Research at ENoLL

# DT4REGIONS & Living-in.EU Capacity Building Programme

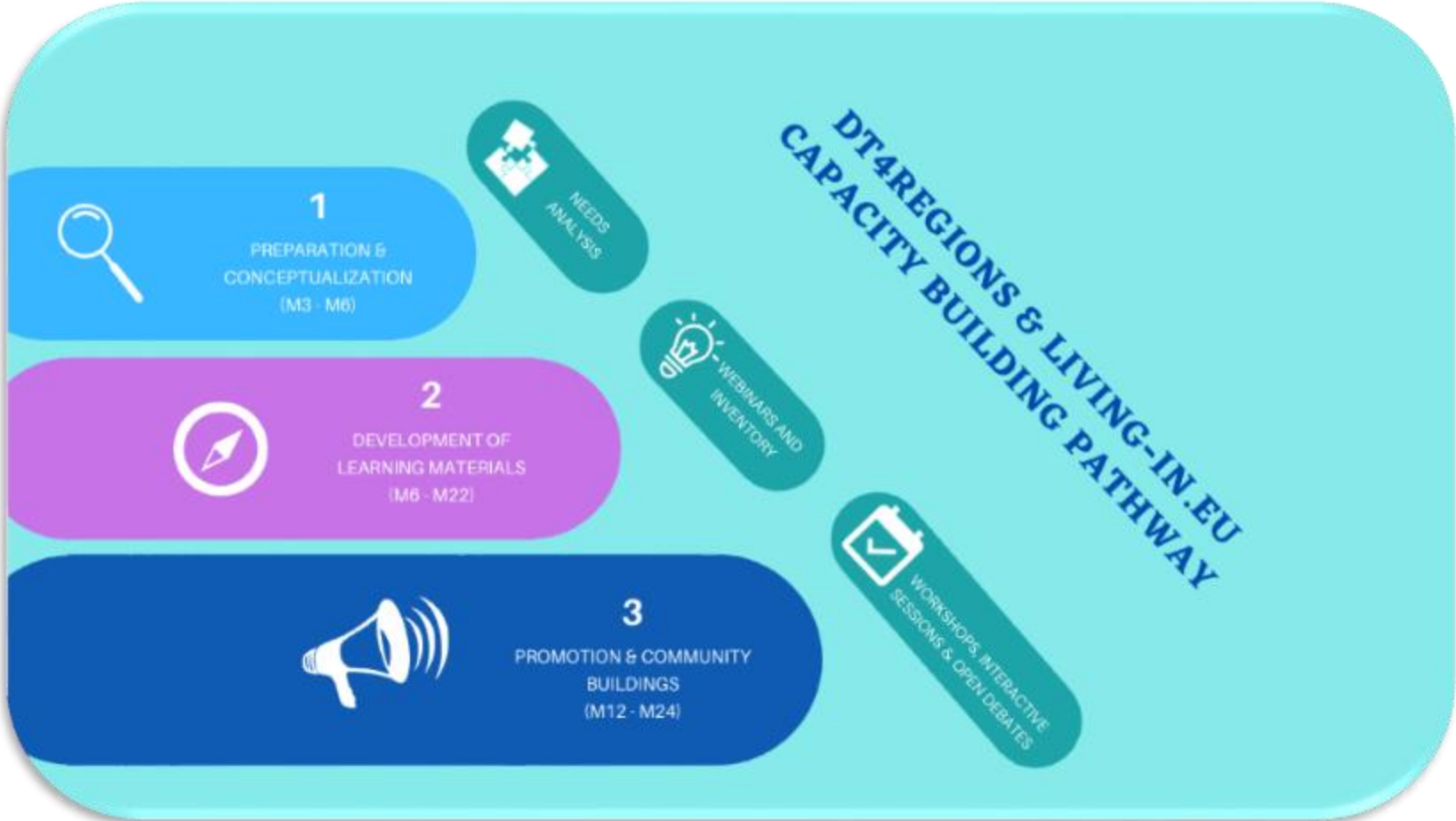
## Objectives of the joint Capacity Building Programme

- Raise awareness and knowledge about AI for public services.
- Stimulate peer to peer knowledge sharing on digital transformation among cities and regions.
- Increase and enlarge policy discussions on topics of specific public interest.
- Serve as a hub of a wide variety of information for mutual learning on the digital transformation of European regions and cities.

## Outcomes

- **2 workshops** and **2 interactive sessions** to share the platform's learning content.
- **4 video webinars** created around the main technologies on AI and BD and their potential use by the European public administrations. These webinars will be integrated in **4 online interactive sessions** for awareness and online discussion with public administrators.
- **2 open debates** organised by the ENoLL Action Oriented Task Force on the Social Impact of AI with the aim of identifying the main concerns in dealing with AI and Big Data for all the stakeholders, and set-up a permanent on-line forum to exchange information using the platform tools.
- An **inventory of training materials** on AI and Big Data accessible through the DT4REGIONS platform (by Summer - Autumn 2022)

# Capacity Building Programme Pathway



# State of the art of the CBP

Shortcut	Title	Start date	Due date	2021				2022				2023					
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
OLLD2021	Workshop #1: Enacting Digital Transformation of European cities and Regions	9/9/2021	9/9/2021														
Survey	Assessment of the learning needs through survey	9/11/2021	31/1/2022														
Inventory	Inventory of Learning Materials	3/1/2022	29/4/2022														
Workshop	DT4REGIONS and Living-in.EU Joint Capacity Building Programme workshop	31/3/2022	31/3/2022														
Debate #1	Debate on the Social Impact of AI #1: An acceptable AI for, with and by the citizens	28/6/2022	28/6/2022														
Webinar #1	Hybrid Webinar #1: The integration of AI into Digital Twins	29/6/2022	29/6/2022														
OLLD 2022	OLLD Workshop #2: "Developing the Mutual Learning Community through DT Stories"	21/9/2022	21/9/2022														
EWRC #1	EWRC Interactive Session #1: Addressing the European digital skills gap on AI and Big Data	12/10/2022	12/10/2022														
SCEWC2022	DT4REGIONS Mutual Learning Interactive session at Smart City World Expo	16/11/2022	16/11/2022														
Webinar #2	"DTStories for Mutual Learning: Our Digital identity"	12/12/2022	12/12/2022														
Webinar #3	"DTStories for Mutual Learning: Digital Spaces and Data Spaces"	2/1/2023	2/1/2023														
Webinar #4	"DTStories for Mutual Learning: Living Labs for the Digital Transformation"	3/2/2023	3/2/2023														
Debate #2	AOTF Social Impact of AI: Debate #2	8/6/2023	8/6/2023														



# Survey Results

The **DT4Regions** and **Living-in.EU** initiatives have created a short survey opened for all the European cities and Regions to participate in from **December 2021 to February 2022**. The aim of the survey was to map relevant stakeholders related to Digital Transformation, Big Data and AI in regions and cities, as well as to identify learning needs and challenges faced by the public sector and practitioners. Responses to the survey provides an important point of reference in the process of the DT4Regions platform creation.

In total we received **38 answers** to the survey, which provided very insightful information in terms of stakeholder mapping, as well as interests and needs of European cities and regions in terms of future trainings and learning offerings. The distribution of answers was quite equal between regions and cities, and most of them already have experience in implementing digital transformation projects (28 out of 38 answers). In general, most of the respondents to the survey has shown willingness to contribute to the development of the training program of DT4Regions and Living-in.EU, to be combined with an inventory of already existing training courses on digital transformation.



JOIN,  
BOOST,  
SUSTAIN

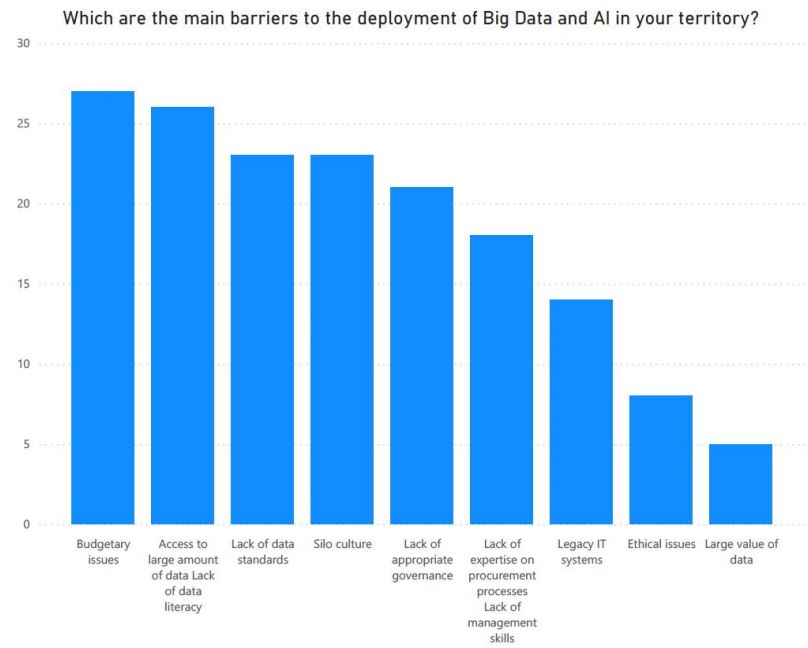
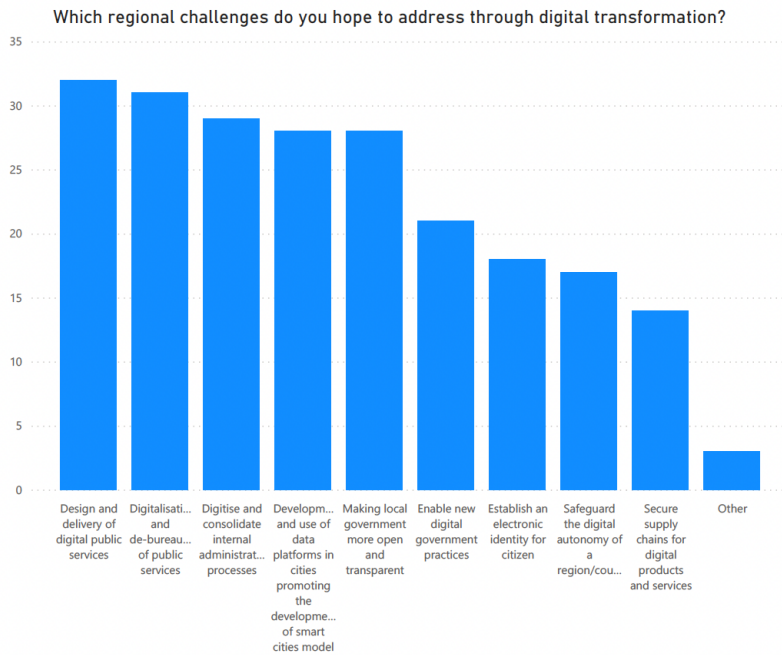
## DT4Regions

### Capacity Building Survey – Short Report

*This document provides a brief overview about the the results of the joint survey to further inform and scope the DT4Regions and Living-in.EU Capacity Building Program.*



# Challenges and barriers to deploy AI and Big Data



# Topics and Formats of the Capacity Building Programme

What topics are you interested the most to learn more about?



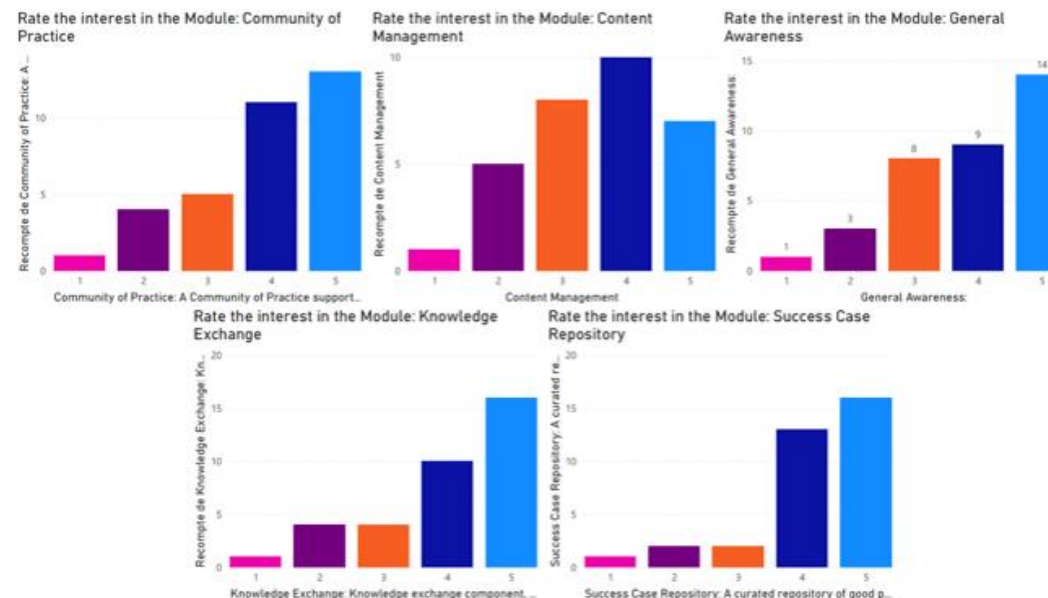
What kind of format/s do you prefer for the trainings?



# Survey Results

## Relevance of Capacity Building Platform Modules

With reference to the modules that will be offered by the Capacity Building platform of DT4Regions, the European regions and cities are mostly interested in the *knowledge and repository* features, while the content management system part is mainly addressing the technical part of the platform. The *Community of Practice* is also selected as one of the relevant features, which should include in the opinion of the respondents to the survey: sharing experiences, open forum to ask questions, transparent knowledge sharing, information about digital policies at all levels, information about funding and cooperation opportunities, along with the possibility to work on small result-oriented working groups.



# Agenda of the Workshop: “DT4REGIONS and Living-in.EU Joint Capacity Building Programme”

 DT4REGIONS is a European Parliament Preparatory Action supported with European Funds

## Workshop

Regions, cities and policymakers:

- Learn more about the **DT4REGIONS and Living-in.EU Joint Capacity Building Programme**
- Exchange on your training needs in the field of **digital transformation** in an interactive session

 **31 March 2022 • 10:00-12:00 CEST**  
Register: <https://bit.ly/3IHfBz>



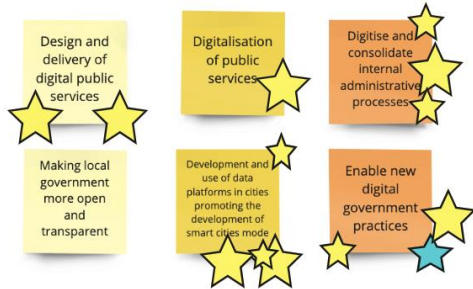
**50 participants to the event**

Agenda Point	Time	Speakers
Welcome & objectives	10.00 – 10.05 am	<i>Francesco Raphael Frieri - General Director, Emilia-Romagna Region, Italy</i>
DT4REGIONS and Living-in.EU Initiatives: Strategic Alignment	10.05 – 10.20 am	<i>Noirin Earcain, Seconded National Expert at DG CONNECT at European Commission</i>
The Joint Capacity Building Programme and Results from the Survey	10.20 – 10.25 am	<i>Francesca Spagnoli – Head of Projects &amp; Capacity Building at the European Network of Living Labs</i>
Interactive Session: Further Scoping the Capacity Building Needs of European Cities and Regions	10.35 – 11.35 am	<i>Session moderated by Francesca Spagnoli – Head of Projects &amp; Capacity Building at the European Network of Living Labs</i>
<b>Break</b>		
Wrapping and conclusion	11.45 - 11.55 am	<i>Fernando Vilariño – Leader of the Action Oriented Task Force on Social Impact of AI and Associate Director at Computer Vision Centre</i>
Closing of the event	11.55 am - 12.00 pm	<i>Stefania Sparaco – DT4REGIONS Project Coordinator, Emilia-Romagna Region, Italy</i>

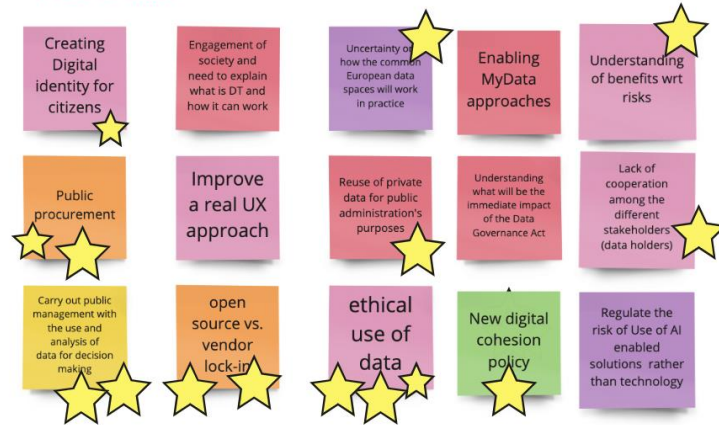
# Workshop Results

## Challenges

What's in it now?



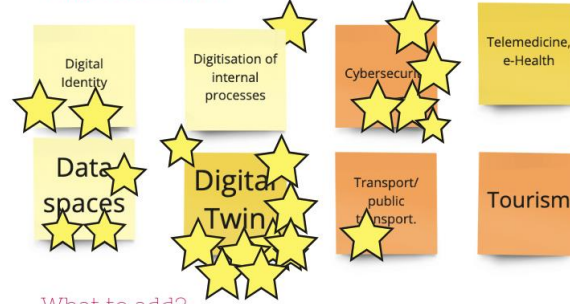
What to add?



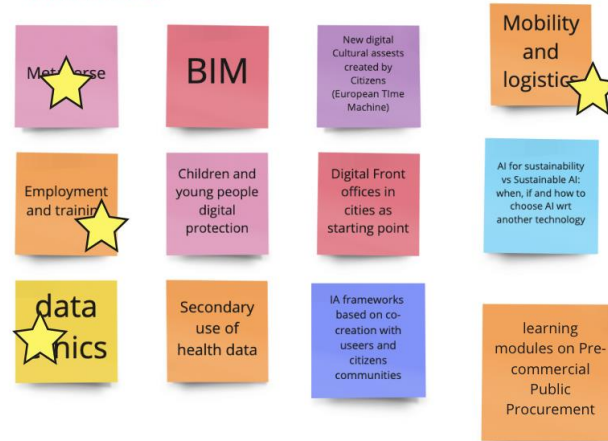
Please vote for the most important ones (only 1 vote each)

## Fields of work

What's in it now?



What to add?



Please vote for the most important ones (only 1 vote each)

## Barriers for deploying AI

What's in it now?

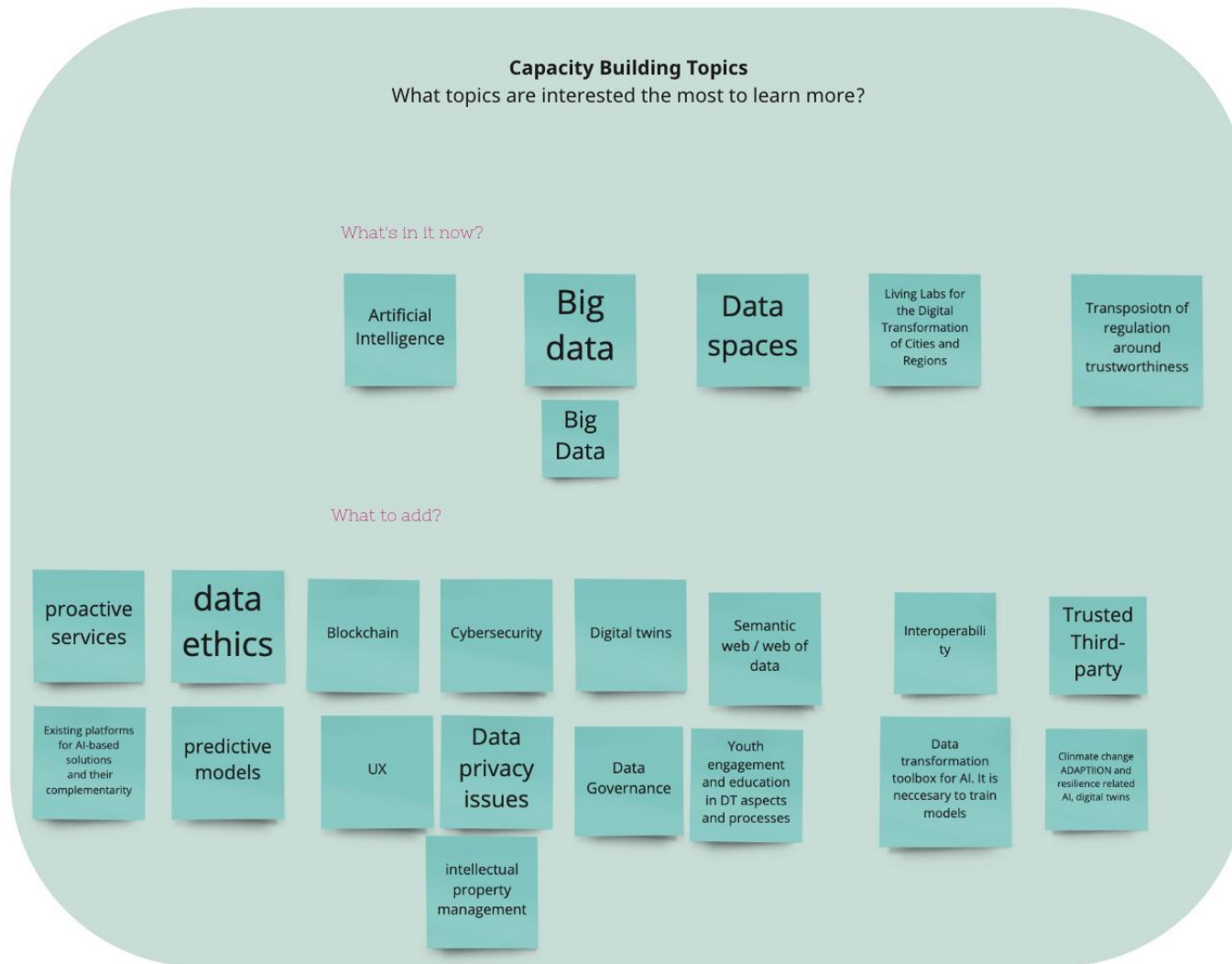


What to add?



Please vote for the most important ones (only 1 vote each)

# Workshop Results



# Workshop Results

## Learning formats What kind of formats do you prefer for the training?

What's in it now?

Workshops

Case studies/best practices

Peer to peer on site trainings

Short videos

MOOC

What to add?

Hands-on learning activities to explain the topic

Platform to share informations

mastermind groups

AI fair

Engaging students. Impact in cities from Innovation

CTF Capture the flag competition

Competitions to validate knowledge after training

Demo days

fuckup sharing / fuckup nights

Not online. it is difficult not to be interrupted

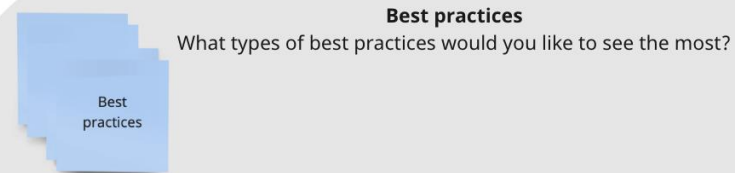
Sandboxing & Living Lab

Private competition like Kaggle

CTF for Cybersecurity



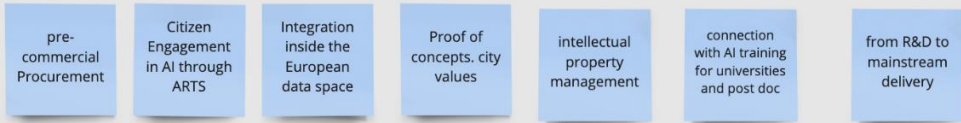
# Workshop Results



What's in it now?



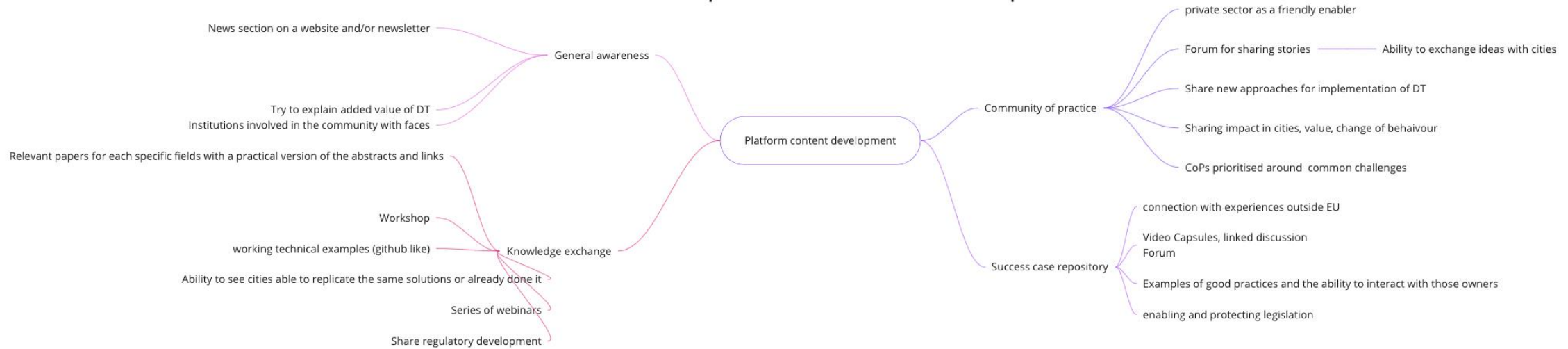
What to add?





# Workshop Results

## DT4REGIONS platform: content development





ID	Name	Organization	Initiative	Link	Topic	Type	Publication date
1	Digital Services for Europe	Urban Agenda of the EU, European Commission	Living-in.eu	<a href="#">Here</a>	Digital Awareness; Digital Leadership; Digital Technology;	Paper	2020
2	Machine Learning With Neural Networks	INRIA	ai4europe	<a href="#">Here</a>	Machine Learning; Neural Networks;	Masterclass	12/09/2021
3	Dynamic Visualisations for Analysing Road Accidents and Traffic Conditions: The Case of WebGLayer	PoliVisu	EU Horizon 2020	<a href="#">Here</a>	Transportation;	Webinar	23/6/2020
4	Virtual Learning Lab of ENoLL	ENoLL		<a href="#">Here</a>	Living Labs;	Training course	-
5	The Experimental Approach: Reinveting Policy Making In The Age Of Data	PoliVisu	EU Horizon 2020	<a href="#">Here</a>	Policy making; Big Data;	Webinar	30/10/2020
6	Data-driven methodology for electricity characterisation of districts	EC Joinup	ELISE	<a href="#">Here</a>	Energy; Big Data;	Webinar	4/7/2021
7	Open data for cities and communities	OASC CxC Academy		<a href="#">Here</a>	Open Data;	-	-
8	ELISE - European Location Interoperability Solutions for e-Government	EC Joinup	ELISE	<a href="#">Here</a>	Geospatial Data;	Training course	-





JOIN,  
BOOST,  
SUSTAIN

**An acceptable AI for, with and by the citizens: A horizon of potential actions from DT4Regions and LIVING-IN.EU**

Palau de Pedralbes, Barcelona (Spain)  
28 June 2022 from 2 to 3:30 pm CET

Agenda Point	Time	Speakers
Welcome & introduction of the topic	2:00 – 2:10 pm	<i>Fernando Vilariño – Leader of the Action Oriented Task Force on Social Impact of AI and Associate Director at Computer Vision Centre</i>
DT4REGIONS and Living-in.EU Initiatives: Strategic Alignment	2:10 – 2:20 pm	<i>Noirin Earcain, Seconded National Expert at DG CONNECT at European Commission</i>
Open Debate on the Social Impact of AI	2:20 – 3:20 pm	<i>Session moderated by Fernando Vilariño</i>
Closing of the event	3:20 pm – 3:30 pm	<i>Stefania Sparaco – DT4REGIONS Project Coordinator, Emilia-Romagna Region, Italy</i>

**75 participants in the Open Debate/Workshop + 30 in the Webinar**

## DAY TWO - 29 JUNE

**14:30 to 16:30**

### Parallel Thematic workshops

**Two thematic workshops** explore the linkage between DT4REGIONS and innovative policy areas – **digital twins** and **data spaces** – against the landscape of AI use cases in the public sector

#### Workshop 1

*The integration of AI into Digital Twins:  
The City as a physical and digital living lab*

Recently, Digital Twins have attracted more and more interest from managers, policy makers and representatives of European Cities and Regions. Since Digital Twins allow for the simulation of complex processes in dynamic environments, they are **excellent candidates for the modelling of real cities**. Specific objects, processes and/or services in the Physical City are replicated in its Digital Version (the Digital Twin). This opens the door to the validation of processes in areas such as urban design, mobility, energy, waste management, industrial processes and so on, in real time, while having control on the different variables and the potential scenarios of use. The integration of AI into the Digital Twin advances the **optimization of decision-making processes**, opening up a world of opportunities. This session will introduce the basics of Digital Twin technologies, propose clear directions for the integration of AI into the Digital Twin, and illustrate fully-curated examples already working in the European context, with the support of bibliographic material and a repository of case-studies.

#### SPEAKERS

- [Claudia Ribeiro](#) Project Manager, POLIS Network
- [Hugo Kerschot](#) Managing Director, IS-Practice (Flanders)
- [Antonio M. López](#) Researcher, CARLA Simulator as Digital Twin for Mobility, Comput Vision Center (CVC)
- [Josep Maria Salanova Grau](#) Associate Researcher at CERSH and Leader of ENoLL Working Group on Mobility

Moderated by - [Fernando Vilariño](#) Researcher at ENoLL and Associate Director, Comput Vision Center (CVC)



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**“The city as a Lab, but now for real!”**

Re-working open innovation environments for inclusive, green and digital transition through emerging technologies

#OLLD22

20-23 September 2022 in Turin, Italy



## **DT4Regions OLLD22 Workshop: Developing the Mutual Learning Community through DTStories**

*21 September 2022, Turin (Italy)*

This is an action coordinated by the Action-oriented Task Force on Social Impact of AI at ENoLL and the Computer Vision Center Barcelona

***35 participants gathered in Turin***



# What's next?

European Week of Regions  
& Cities DT4REGIONS  
Interactive Session  
12 October 2022



DT4REGIONS Mutual Learning  
Interactive session at Smart  
City World Expo  
16 November 2022



*"DTStories for Mutual  
Learning: Our Digital identity"*  
Webinar #2  
December 2022



*"DTStories for Mutual Learning:  
Digital Spaces and Data Spaces"*  
Webinar #3  
January 2023



*"DTStories for Mutual Learning: Living  
Labs for the Digital Transformation"*  
Webinar #4  
February 2023



AOTF Social Impact  
of AI Debate #2  
June 2023





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DT4REGIONS

# DT4REGIONS platform features reviewed

## VIDEO RESPONSES



Users can provide links to short (2 min) video questions, responses and ideas

## FORUM



Users can share questions, answers and contents in the Forum

## PUBLICATIONS



Users can share bibliography on reports, articles, digital materials and other types of knowledge sources

## MY SUBMISSIONS



Users can access and show their catalogue of DTStories, comments, bibliography, messages, etc.

## MY PROFILE



Users can share their profile to better know each other and develop the Mutual Learning Community

## PRIVATE MESSAGING



Users can connect to each other through private messages

## NEWSLETTER



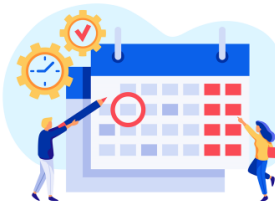
Subscribers will receive an update on the DTStories and new highlighted contents

## DTSTORIES & SOLUTIONS



DTStories tackle local and global challenges from different points of view

## EVENTS



Users can share the local, regional and supra-regional events among colleagues

## ACADEMY



Quality modules for capacity building (structured and unstructured)

## BLOG



Short written contributions on both general or specific topics

## INTERACTIVE MAP



Visual geographical distribution of the participants

## TRANSLATION



Easy access to information in different languages.

## SCHEDULE ONLINE MEETINGS



Schedule for virtual meeting rooms for speaking with other peers





**“The city as a Lab, but now for real!”**  
 Re-working open innovation environments for inclusive, green and digital transition through emerging technologies  
 #OLLD22  
 20-23 September 2022 in Turin, Italy



**OPEN LIVING LAB DAYS**

**DT4Regions OLLD22 Workshop:  
 Developing the Mutual Learning Community through DTStories**

21 September 2022, Turin (Italy)

This is an action coordinated by the Action-oriented Task Force on Social Impact of AI at ENoLL and the Computer Vision Center Barcelona

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DT4REGIONS Digital Transformation for Regions



DT4REGIONS is a European Parliament Preparatory Action supported with European Funds





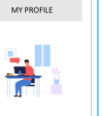
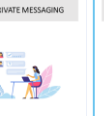








LIVING-IN.EU

55


## DYNAMICS FOR THE MUTUAL LEARNING COMMUNITY for Skill Development

- People is the reaching point of every interaction
- DTStories are case-study actions
- Metadata for a linkable platform
- A safe place for the knowledge exchange
- Sand box, like a children playground with rubber soil, anonymous
- Conceptual and multilayer map connecting with people
- Variable engagement intensity

**DT4REGIONS platform features reviewed**

<p><b>VIDEO RESPONSES</b></p>  <p style="font-size: x-small;">Users can provide their views (if any) with questions, requests and ideas</p>	<p><b>FORUM</b></p>  <p style="font-size: x-small;">Users can share questions, answers and contents in the Forum</p>	<p><b>PUBLICATIONS</b></p>  <p style="font-size: x-small;">Users can share bibliographies on reports, articles, digital materials and other types of knowledge sources</p>	<p><b>MY SUBMISSIONS</b></p>  <p style="font-size: x-small;">Users can access and show their catalogue of DTStories, comments, bibliographies, messages, etc.</p>	<p><b>MY PROFILE</b></p>  <p style="font-size: x-small;">Users can share their profile to better know each other and develop the Mutual Learning Community</p>	<p><b>PRIVATE MESSAGING</b></p>  <p style="font-size: x-small;">Users can connect to each other through private messages</p>	<p><b>NEWSLETTER</b></p>  <p style="font-size: x-small;">Subscribers will receive an update on the DTStories and new highlighted contents</p>
<p><b>DTSTORIES &amp; SOLUTIONS</b></p>  <p style="font-size: x-small;">DTStories tackle local and global challenges from different points of view</p>	<p><b>EVENTS</b></p>  <p style="font-size: x-small;">Users can share the local, regional and supra-regional events among colleagues</p>	<p><b>ACADEMY</b></p>  <p style="font-size: x-small;">Quality modules for capacity building (structured and unstructured)</p>	<p><b>BLOG</b></p>  <p style="font-size: x-small;">Users can write contributions on both general or specific topics</p>	<p><b>INTERACTIVE MAP</b></p>  <p style="font-size: x-small;">Visual geographical distribution of the participants</p>	<p><b>TRANSLATION</b></p>  <p style="font-size: x-small;">Easy access to information in different languages</p>	<p><b>SCHEDULE ONLINE MEETINGS</b></p>  <p style="font-size: x-small;">Schedule the virtual meeting rooms for speaking with other users</p>

DT4REGIONS Digital Transformation for Regions



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## A few lessons Learnt

- *Lesson learned & recommendation #1: European Regions and Cities share common needs for the Joint Capacity Building Programme*
- *Lesson Learned & recommendation #2: The Artificial Intelligence field must be analysed from a wider perspective for enacting mutual learning of European Regions and Cities*
- *Lesson Learned & recommendation #3: The DT4Regions platform as an enabler for replicating technological solutions and DTStories from European Regions also at City level*
- *Lesson Learned & recommendation #4: DT4Regions as a hub for connecting the community of European Regions and Cities*

**A MUTAL LEARNING COMMUNITY  
for EU Public Servants in AI and BD**



**Interactive Session: Hands on!**

Actions requested for the participants:

**Change your name by adding the keyword representing your favourite topic at the beginning.**

**We will use this to split participants in the break-out rooms slot:**

- **DT** - for Digital Twins
- **DS** - for Digital Spaces (Metaverses and Data Spaces)
- **DI** - for Digital Identities

Example:

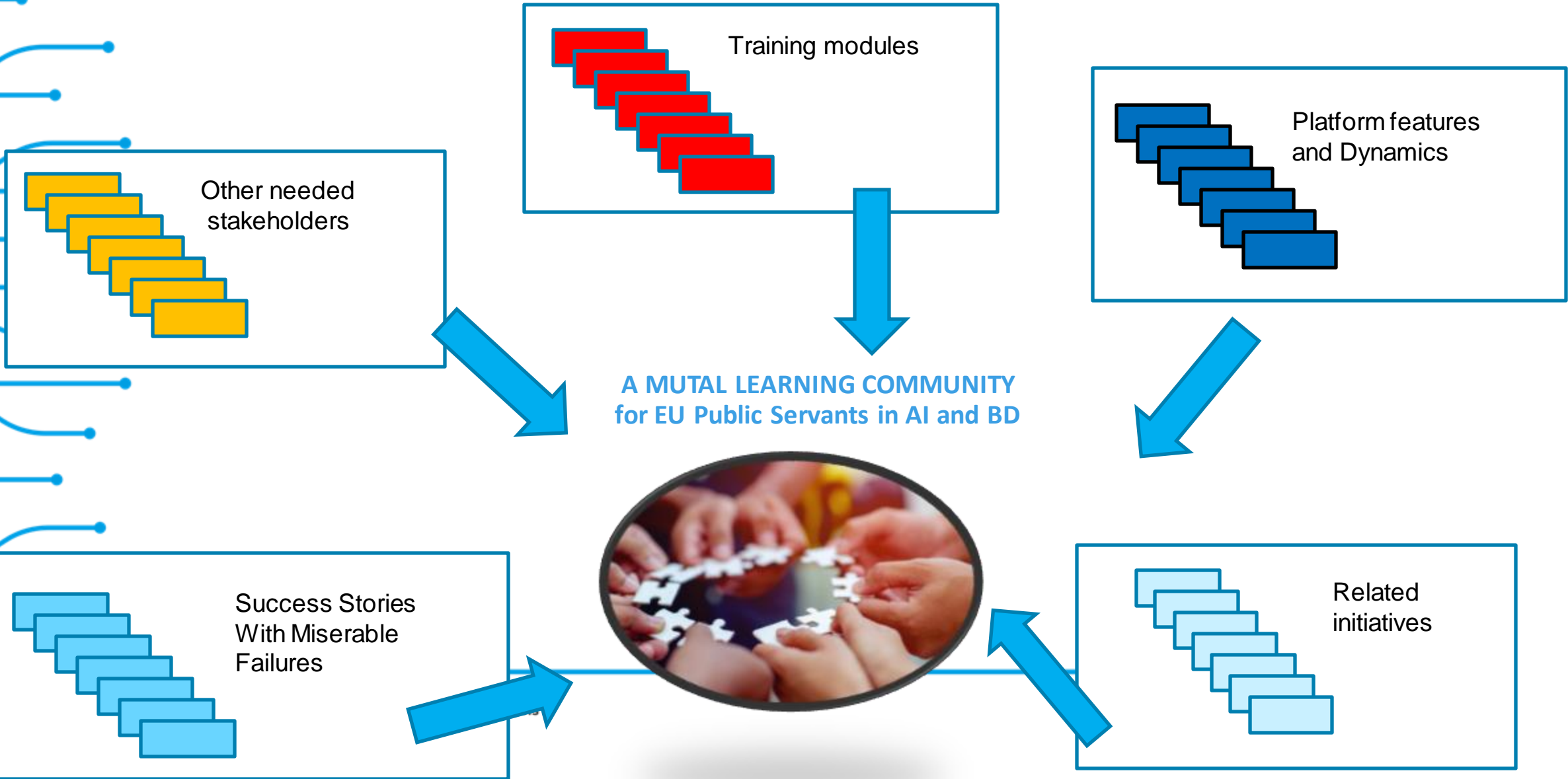
**Fernando Vilariño (CVC-UAB-ENoLL)**

has to be changed to

**DT Fernando Vilariño (CVC-UAB-ENoLL)**

The 3 break out room sessions will be recorded, so do not worry.

# Ingredients for a Mutual Learning Community for Digital Twins at DT4REGIONS





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