

Welcome to **BUILD UP**

The European Portal for Energy Efficiency in Buildings

WEBINAR



BUILD UP

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WEBINAR

Hosted by
BUILD UP

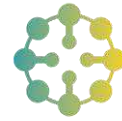
Knowledge transfer for energy efficiency and renewable energy sources in buildings

13th April 2023 / 11.00H - 12:00H



BUILD UP

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PROSPECT+



Agenda

11:00 - Welcome message from *the BUILD UP team*

11:05 - Knowledge transfer and BUILD UP by *Blerta Vula Rizvanolli* – *BUILD UP Ambassador, Architect and Lecturer at the University for Business and Technology*

11:15 - PROSPECT+ project by *Giulia Pizzini* - *Senior energy expert at the Institute for European Energy and Climate Policies (IEECP)*

11:30 - IN-PLAN project by *Tomislav Novosel* - *Expert Advisor at the North-West Croatia Regional Energy Agency (REGEA)*

11:45 - Q&A discussion *moderated by the BUILD UP team*

11:55 - Conclusions from *the BUILD UP team*

12:00 - Webinar end

KNOWLEDGE TRANSFER AND BUILD UP

*Blerta Vula Rizvanolli – BUILD UP Ambassador, Architect and
Lecturer at the University for Business and Technology*



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KNOWLEDGE TRANSFER



WHY IS KNOWLEDGE TRANSFER IMPORTANT



Nowadays, when the **reaction** of the **countries/businesses/academia/** toward **global challenges** are expected to be **prompt, sensible** and **well-thought-out**, the importance of **knowledge transfer** comes to the fore.

WHY IS KNOWLEDGE TRANSFER IMPORTANT



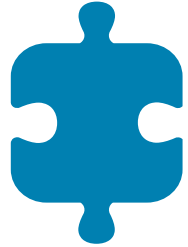
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Knowledge Transfer aims to bring stakeholders together by:

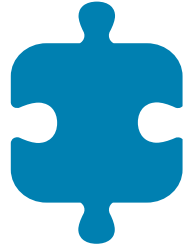
- Encouraging **Communication and Collaboration**
- Enhancing **Innovation**
- Developing **Expertise**
- Boosting **Efficiency and Competence**
- Improving **Decision Making**

TRANSFERRING KNOWLEDGE AMONG EU PROJECTS

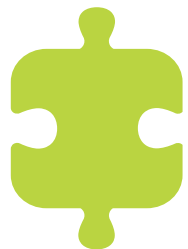


Sharing the knowledge among different **EU developed projects** enhance not only the **building of internal capacities** of the project, but also **support of development of the capacities in Partner Countries;**

TRANSFERRING KNOWLEDGE AMONG EU PROJECTS

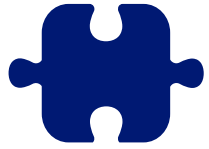


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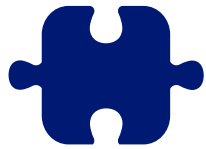


Knowledge Donation which is defined as “communication-based upon an individual’s own wish to transfer intellectual capital” and knowledge collecting as “attempting to persuade others to share what they know” encourage **building institutional memory, supporting thematic expertise by consolidating the innovative knowledge-sharing tools and communities** of experts and by **enabling cross-learning among practitioners.**

TRANSFERRING KNOWLEDGE IN ENERGY EFFICIENCY AND ENERGY SOURCES IN BUILDINGS



TRANSFERRING KNOWLEDGE IN ENERGY EFFICIENCY AND ENERGY SOURCES IN BUILDINGS



- Develop **strategies for copying good practices**
- Contribute to **skills development** and **capacity building**
- Assist in the **evaluation of alternatives** and in **site selection**
- Help to provide **suggestions** about **compensations** and possible **investment sources**
- Identify and describe **potential conflicts** and advise on **resolution processes**
- Advise on appropriate **institutional** and **co-ordination arrangements** for all **stakeholders**
- Collect **baseline data for evaluation and audit** purposes

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WHAT IS BUILD UP?

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**BUILD UP is the EU's largest platform
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The BUILD UP initiative was established by the European Commission in 2009. It is now managed by CINEA.

BUILD UP'S SCOPE

To be the main point of reference in Europe about energy efficiency in buildings by offering a diverse range of content targeting policymakers, public authorities, building professionals associations, industry stakeholders, researchers and students

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Specifically, to...

Reap the benefits of Europe's collective intelligence on energy reduction in buildings and disseminate relevant information

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Encourage the **exchange of knowledge** and **good practices** through case studies, tools, and more

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Bring together stakeholders working in the building sector and target the general public to help **improve** energy-efficient behaviours

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Bring together stakeholders working in the building sector and target the general public to help **improve** energy-efficient behaviours

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Support the implementation of the EPBD, EED and the European Green Deal

INTEGRATED INSIDE OUTSIDE APPROACH

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INTEGRATED INSIDE OUTSIDE APPROACH

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INSIDE

BUILD UP

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Developing and disseminating value-added information and content for the BUILD UP community and actors in the sector

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Overview
Articles

Technical
Articles

Interviews

Videos

Webinars

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OUTSIDE

BUILD UP Community



Engaging stakeholders to submit their own content to be shared with the BUILD UP community and actors in the sector

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News

Events

Publications

Case studies

Good practices



WHY IS BUILD UP AN EXAMPLE OF KNOWLEDGE SHARING PLATFORM?

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It is the main means of communication about energy efficiency in buildings of the European Commission

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It also shares knowledge from other European sources with the community



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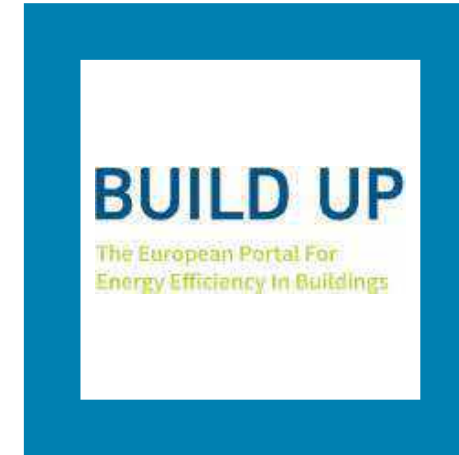
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It enables sharing of content from stakeholders in the BUILD UP community

HOW DOES BUILD UP WORK AS A KNOWLEDGE TRANSFER TOOL?

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1. Daily content

Every day BUILD UP publishes new content (external and own production) targeted to a diverse range of people



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It organises webinars with EU-funded projects in the BUILD UP network and helps them to disseminate their results



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5. Board of Ambassadors

It capitalises on its Ambassadors as a pool of expert knowledge to share about energy efficiency from their EU Member States



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6. Events participation

BUILD UP takes part in selected projects and associations' events to give further relevance to the topics addressed and to share BUILD UP's purpose

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BUILD UP KNOWLEDGE TRANSFER IN A NUTSHELL

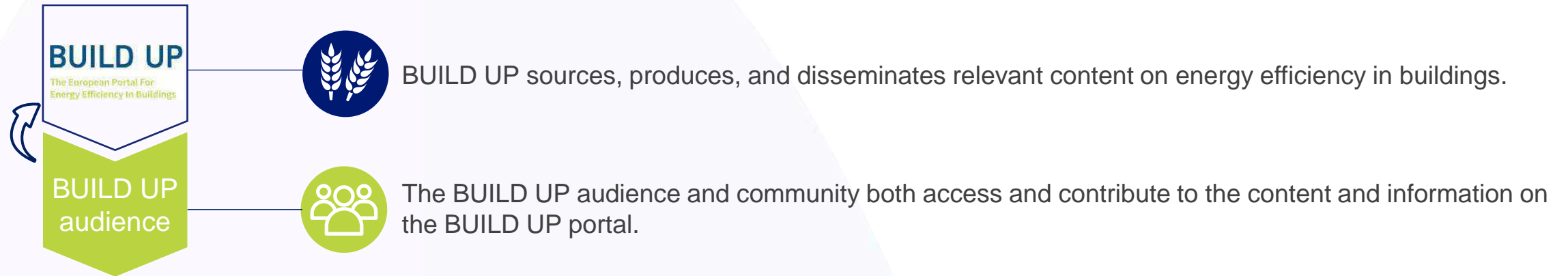
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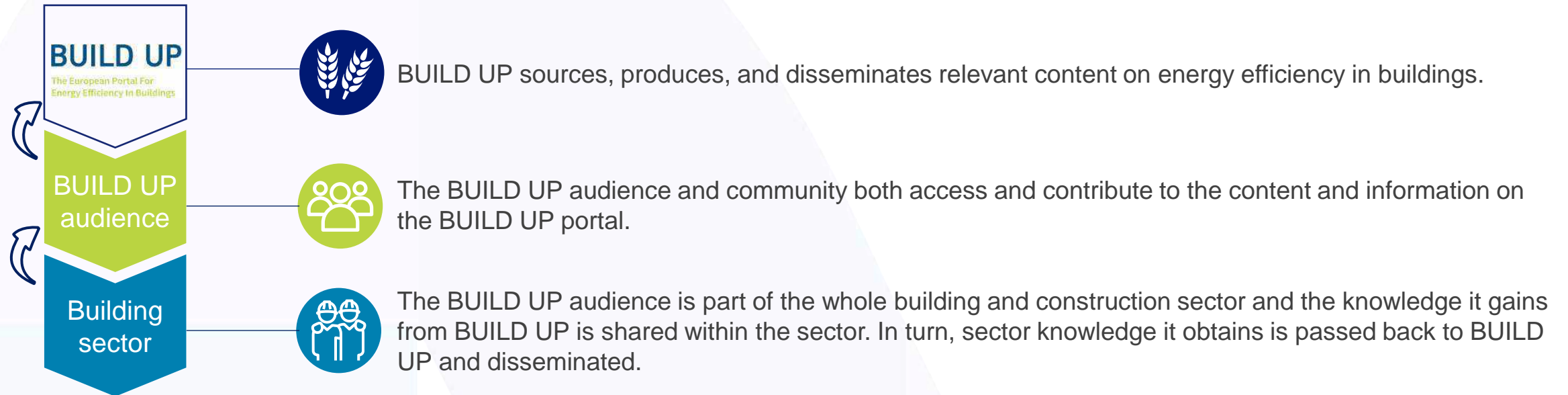


BUILD UP sources, produces, and disseminates relevant content on energy efficiency in buildings.

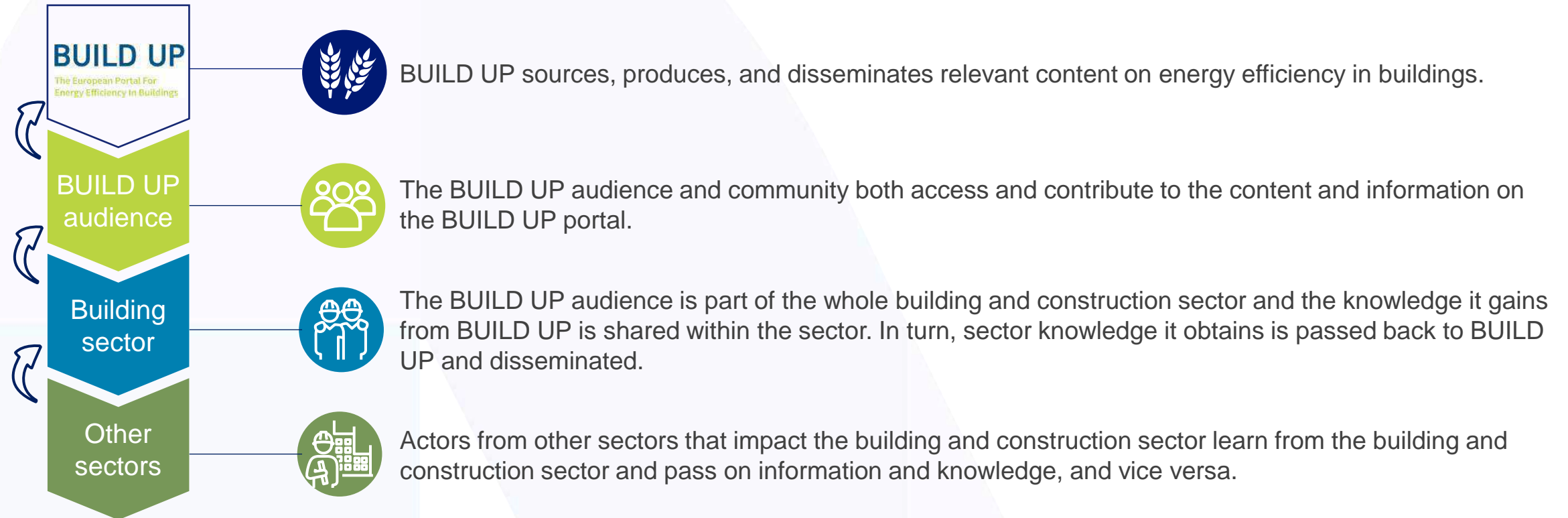
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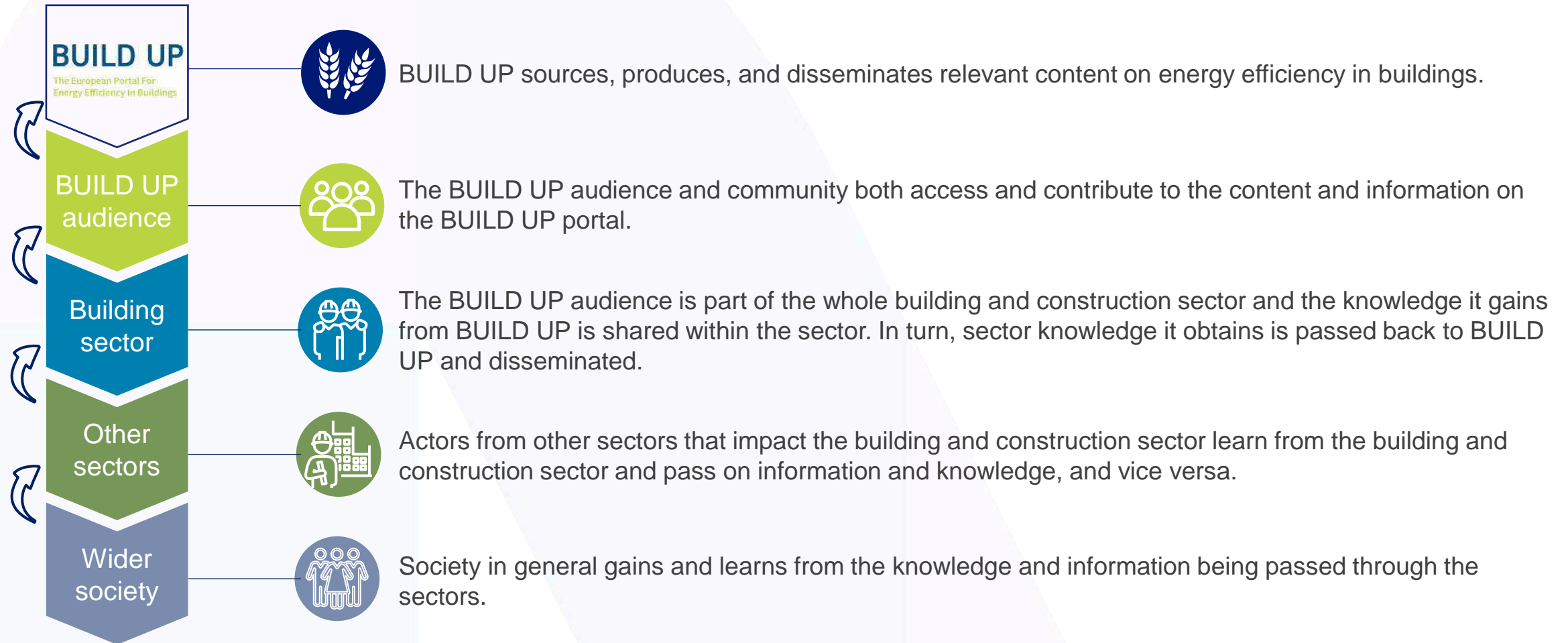
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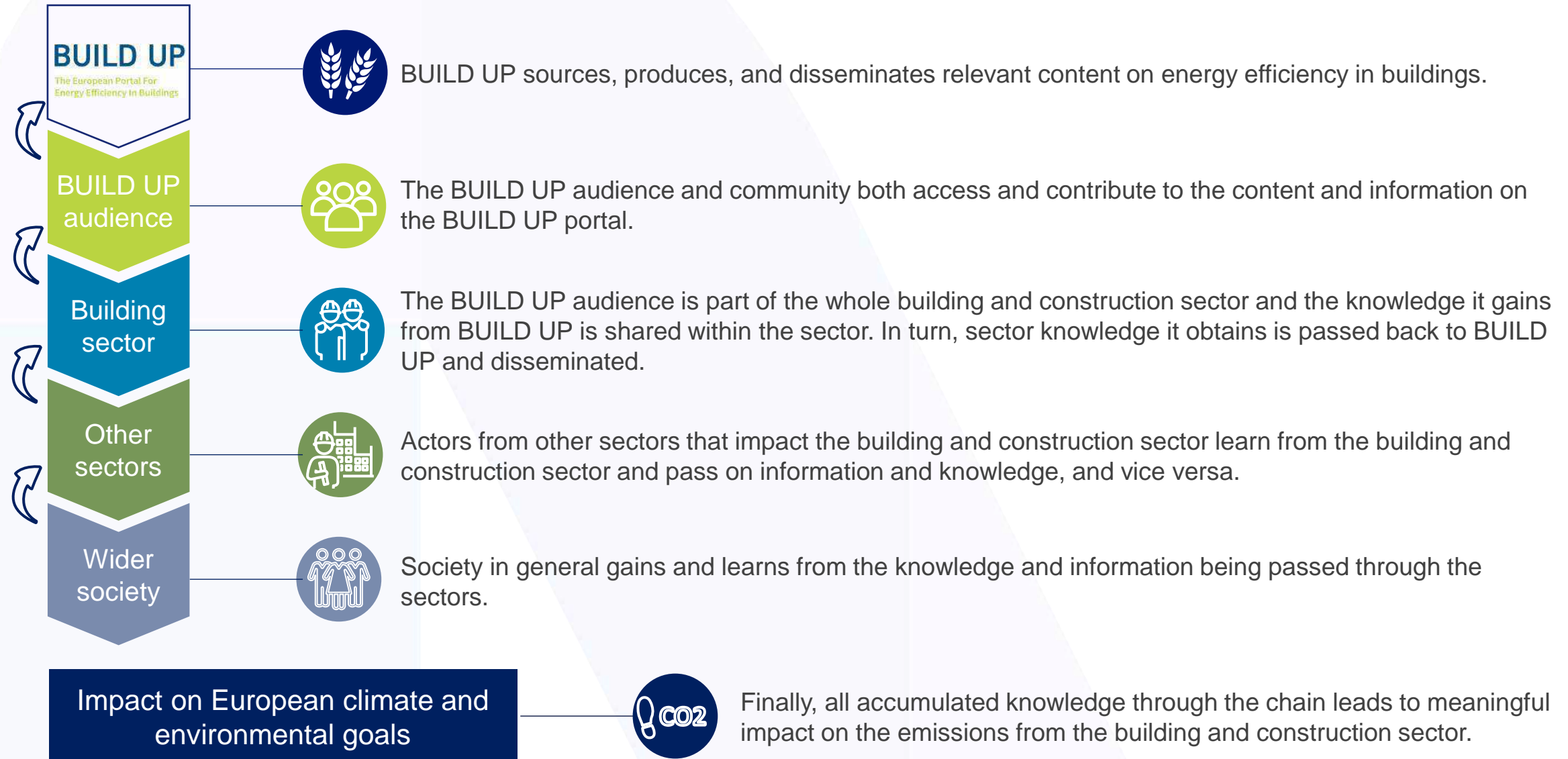
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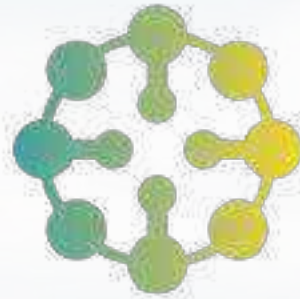
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THANK YOU!

BUILD UP is for you

www.buildup.eu/en





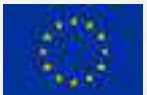
PROSPECT+

Capacity building for cities and regions - from learning to action!

Knowledge transfer for energy efficiency and renewable energy sources in buildings

13 April 2023

Giulia Pizzini (IEECP)



The PROSPECT+ project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101023271



To build public authorities' capacity in financing implementation of their sustainable energy action plans through peer-to-peer learning activities

-  To **enhance decision-making** in public authorities so that they are leaders in implementing energy efficiency measures | 300 public officers from 200 local and regional authorities from at least 20 EU MS
-  To support public authorities and their agencies in **profiting of the rich experience available**, taking inspiration from their peers | 64 groups and at least 300 public officers (200 directly involved public authorities) building partnerships on the issue of sustainable energy financing
-  To help use **synergies** by **linking public authorities** along with energy policy-makers, associations of planners, technical experts, financing bodies on sustainable energy, and local actors **in an intra-European network** through an **innovative peer-to-peer capacity-building experience on innovative financing of sustainable energy projects and measures** | Prospect+ Community of Practice engaging at least 100 additional public officials

Innovative financing schemes

THERE ARE MANY OPTIONS, OFTEN MORE FLEXIBLE AND QUICKER THAN SUBSIDIES – WE FOCUS ON:



- Citizens Finance (crowdfunding and cooperatives)
- Energy Performance Contracting (EPC)
- Internal Contracting
- Green Bonds
- Guarantee Funds
- Soft Loans
- Revolving Funds
- Third Party Financing

Phase 1: Preparing learning material and tools

✓ 5 Thematic areas



Public Buildings



Private Buildings



Public Lighting



Transport



Cross-sectoral

- ✓ **Learning material and tools:** Structure of the CBP & Action Plan, Handbooks for the 5 thematic areas, collection of cases on the implementation of innovative financing schemes for sustainable energy projects.

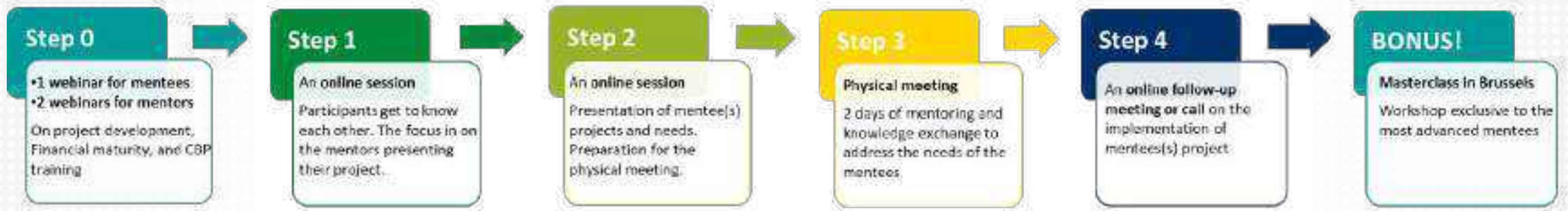
Phase 2: Engaging participants and forming learning groups

- ✓ **Call for applications** for mentors and mentees.
- ✓ **Selection** of public authorities and agencies and assignment of roles between **mentors** and **mentees**.
- ✓ **Matching** of mentors and mentees.

Methodology (2/3)

Phase 3: Launching 4 Learning Cycles

PROSPECT+ CPB Steps



PROSPECT+ CPB learning methods



Peer Mentoring
1 mentor & 1 mentee



Study Visit
1 mentor & up to 5 mentees

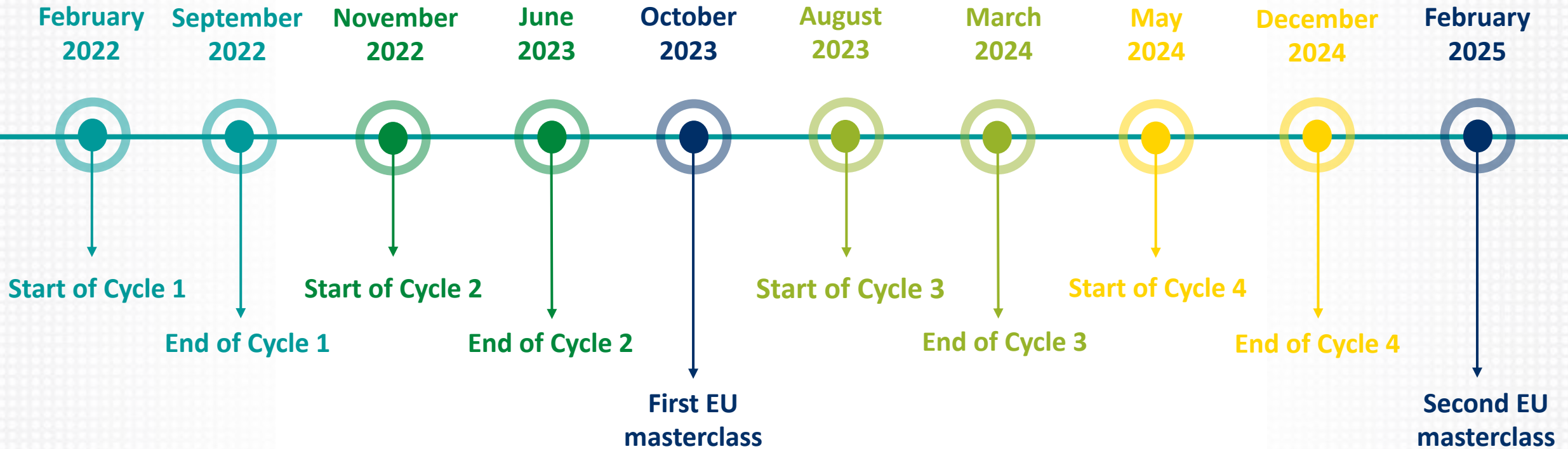


Local Mentoring
1 mentor, up to 7 mentees

ONLINE & OFFLINE MEETINGS, DISCUSSIONS, STUDY VISITS, SITE VISITS (plus local groups and CoP)



Timeline of our Learning Cycles



Phase 4: Monitoring Outcomes

- ✓ Setting clear **indicators and targets**.
- ✓ Determination of the learning objectives' **achievement success rate**.
- ✓ **Continuous monitoring** of the capacity- building programme implementation.
- ✓ **Collection of feedback** to ensure that if difficulties arise, they will be considered in the next round of the learning programme to achieve maximum results.

Phase 5: Replicating Learning Outcomes

- ✓ Formulation of the **Community of practice** with a larger number of public bodies and other stakeholders to guarantee **knowledge sharing**.
- ✓ Capture results and ensure that public bodies interested in **replication** of an EE project get **tailor-made advice, tools**
- ✓ Development of **impactful policy feedback/recommendations**
- ✓ Collection of projects information and **good practices** to enable easy replication

Example 1 | Prospect



**24 energy refurbished public buildings
in one year using EPC**

Municipality of Maribor with energy performing contracting implemented the biggest energy renovation project in the region in 2019. 24 public buildings were energy refurbished (schools, kindergartens, sport halls). Its implementation was followed by many stakeholders and media and is a good practice in the country. The cost of the project was 12 mio EUR. Yearly energy consumption was reduced by 5.952 MWh, energy costs by 446.000 EUR, maintenance costs by 28.500 EUR and CO₂ emissions by 1.305 tonnes.

Mentor organization	Energy Agency of Podravje (EnergaP) in Maribor, Slovenia
Mentee organizations	LENERG Energy Agency, Debrecen, Hungary City of Koekelberg, Brussels, Belgium
Learning methodology	Peer mentoring
Learning objective	To increase knowledge on accessing innovative sources of funding, specifically EPC



- **MENTOR:**
 - **ENERGAP (SI):** expert in refurbishment of streetlighting and public buildings through PPP and EPC schemes
- **MENTEES:**
 - **Debrecen (HU):** need to refurbish kindergartens (low energy consumption or passive buildings)
 - **Koekelberg (BE):** need to replace lighting systems in public buildings rented to private persons

OVERALL LEARNING OBJECTIVE: increase internal know-how on accessing innovative sources of funding (i.e. EPC) and to better understand procedural practices of procurement and implementation

COGNITIVE CHANGE

- Both organisations recognised a **need to hire an expert**:
 - **Debrecen**: the expert was hired by LENERG Energy Agency on Energy Management System development and building strong financial basis for the projects;
 - **Koekelberg**: an expert was hired in collaboration with other towns in the region;

RELATIONAL CHANGE

- Debrecen found extremely beneficial to **build relationships with higher governance levels** in order to be effective, while Koekelberg recognised the importance to give attention to each step of the process through **monitoring and evaluation**; Both mentees decided to deepen their relationships both with their citizens through communication campaigns and with policy makers at higher governance levels to gain support on their EPC projects.
- Moreover, in both cases the collaboration with other municipalities in the region became essential (ELENA)

SKILL DEVELOPMENT

- Mentees developed skills to understand better the energy expert and discuss projects in depth and to set up long-lasting agreements necessary for a successful EPC contract.

Example 2 | Prospect+



Vilnius:

identifying how we can add value despite major differences in the local context (PPP legislation in Lithuania vs examples from Spain).



Example 3 | Prospect+



“I think it’s really gratifying to be part of the Prospect project, to be able to have some of these experiences together and learn about these different cities and contexts.”

Alejandro Gómez Gil - Valencia City Council’s Climate and Energy Office (Prospect+ Mentee)

Read full article here: [link](#)

Our Community of Practice



Online Meetings



Collaboration Space



Replication Webinars



Policy Dialogue



Our Community of Practice



Online meetings only for the registered CoP members

The meetings will respond to **identified needs, feedback and best practices discussed across all learning groups** and learning cycles, based on feedback from our mentors, mentees and facilitators.

The meetings will be **open to representatives of local and regional authorities and their agencies** (other registered CoP members may be invited as guest presenters or observers).

Replication webinars and Policy Dialogue

Events **open to everyone** will promote the most relevant **best practices and recommendations** identified across all thematic areas.

A collaboration space for PROSPECT+ CoP members

PROSPECT+ eligible participants will receive access to the dedicated area on the Eurocities Collaboration Platform, set up for **ongoing sharing, commenting and networking**.

What will CoP participants do?

What are the options to participate in our Community of Practice?



Active

for those members who would like to take an active part in discussions, share their organisation's experience and provide input to policy feedback.



Observer

for those who would like to participate in webinars and receive information on best-practices.



Expert

for those who would like to provide expert input on the application of innovative financing instruments or policy context.

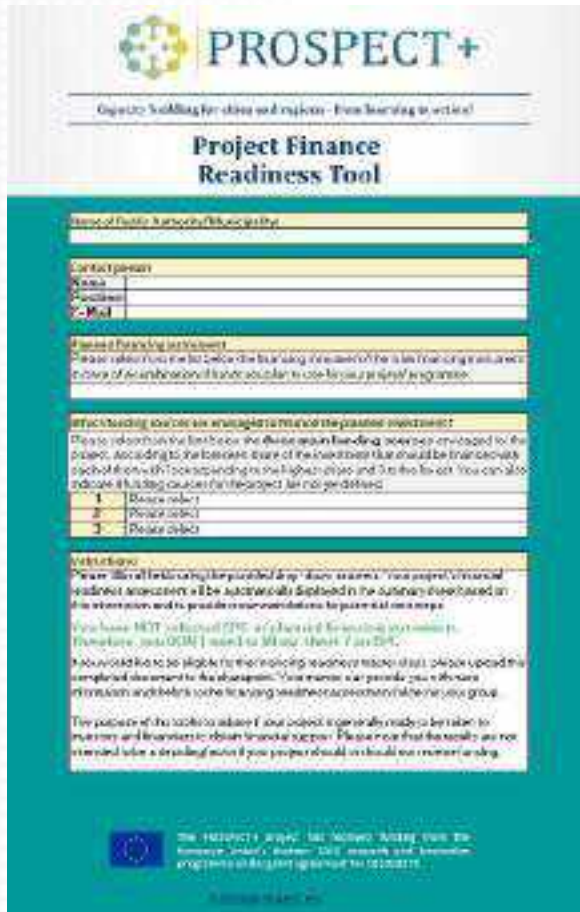
Interested in joining our Community of Practice?

Everyone who would like to learn more about the innovative financing instruments and examples of successful projects at their own pace can join our Community of Practice!

More information on www.h2020prospect.eu/community-practice

JOIN





The image shows a screenshot of the 'Project Finance Readiness Tool' form. At the top, it features the PROSPECT+ logo and the text 'Objective: SoCBAg for cities and regions - From learning to action'. Below this, the title 'Project Finance Readiness Tool' is prominently displayed. The form is divided into several sections with yellow headers: 'Name of Public Authority/Institution', 'Contact person' (with fields for Name, Position, and E-Mail), 'Reason for funding the project' (with a paragraph of text and a table for 'Number of beneficiaries' and 'Number of organisations'), 'Effectiveness of the project' (with a paragraph of text and a table for '1 - Please select', '2 - Please select', and '3 - Please select'), and 'Notes/Remarks' (with a paragraph of text). At the bottom, there is a small logo for 'THE PROSPECT+ PROJECT' and a date '13/04/2023'.

Objectives of the tool

- To assess the **financial maturity** of the planned sustainable energy projects of PROSPECT+ mentees
- To allow for a **self-assessment** of the finance readiness of the project to seek funding for its implementation
- To provide **orientation for mentees** on the elements needed for a finance ready project proposal
- To provide mentees with **suggestions for potential improvements** and recommendations of further support available
- To Select the most advanced mentees' projects to participate in the **masterclasses** and matchmaking with financial institutions

Resources: Handbooks



Typical Projects

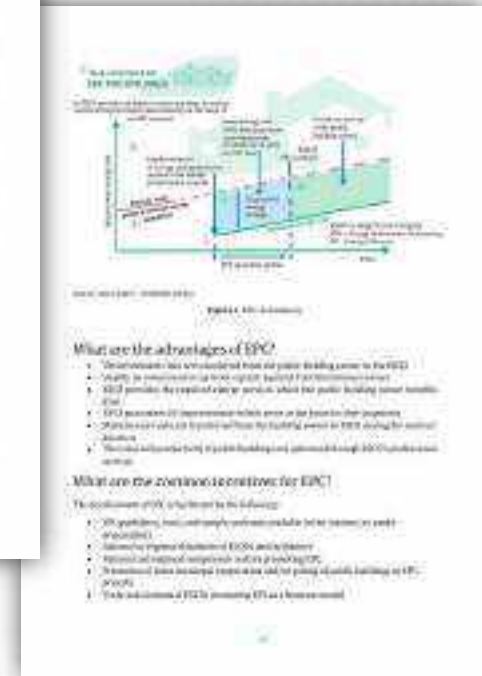
Typical projects under the scope of public buildings can be divided into two categories: **PROSPECT+ Core** and **PROSPECT+ Beyond**.

Table 1: Example dataset of typical public buildings

Project	Location	Investment (€)	Area (m ²)	Year	Category	Notes
Energy efficiency renovation of a public building	Madrid	10,000,000	10,000	2018	PROSPECT+ Core	Renovation of a public building for energy efficiency.
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Energy efficiency renovation of a public building	Madrid	10,000,000	10,000	2018	PROSPECT+ Core	Renovation of a public building for energy efficiency.

Table 2: Advantages of EPC

- Guaranteed cost reduction of 10-15% over the life cycle of the building.
- Guaranteed energy savings of 10-15% over the life cycle of the building.
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[Learning Handbooks | PROSPECT+ \(h2020prospect.eu\)](https://h2020prospect.eu)

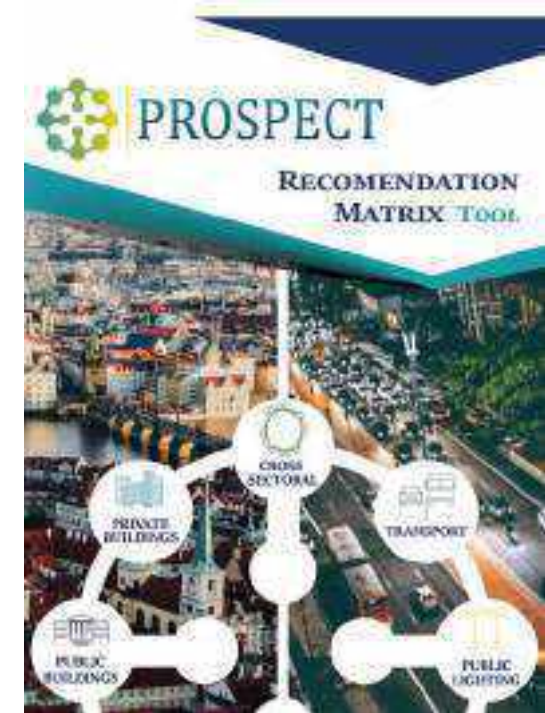
Resources: templates



[Financial Indicators Calculator
PROSPECT+ \(h2020prospect.eu\)](https://h2020prospect.eu)



[Glossary of Financial Terms
PROSPECT+ \(h2020prospect.eu\)](https://h2020prospect.eu)



[Recommendation Matrix Tool
PROSPECT \(h2020prospect.eu\)](https://h2020prospect.eu)

Types of Replicable Practices:

Promising practices: are not yet implemented but is in the planning phase without agreed and secured financing mechanism, but most other criteria are satisfied.

Good Practices: are an energy efficiency or climate adaptation practice which a city or a region has planned out (with innovative financing approved) or implemented with innovative financing solutions.

Innovative Practices: are original, either in type of activity, sector or financing, or with unusually high impact/savings achieved.



Examples

- **Innovative practice: Street Lighting through ESCOs in Portugal by Oeste Sustentavel**
- Implemented in 12 municipalities
- One of the largest LED projects in the world, and the biggest in Portugal as well as a **pioneer** in the intermunicipal financing model, reducing electricity bills by more than **€6,6 million at 2022 in electricity costs.**



PROSPECT+

Replicable Practices

Streetlight OesteLED IP, Oeste Region- Portugal

Project description:

The OesteLED streetlighting ESCO project was implemented in 12 municipalities that constitute an Intermunicipal Community, a NUT III region in Portugal, with a population of approximately 263,000 inhabitants.

The main goal of the project was to improve efficiency in street lighting. It was one of the largest LED projects in the world, and the biggest in Portugal as well as a pioneer in the intermunicipal financing model, reducing electricity bills by more than €6,6 million at 2022 electricity costs.

The model:

Supported by a financing model based on an ESCO energy contract, the project is a result of approximately €12,5 M. investment over a 12-year contract.

The contract enables an annual €3,4 M. in energy savings where 58,8% is kept for the beneficiaries. The investment benefited from the large critical mass due to the large extent of the project which ensured high-efficient requirements.

On the technical perspective, the technological risk was minimized by the compliance of streetlighting standards, with other national references as well as those recognised by the current streetlight management and maintenance municipal concession.

This scenario resulted in large energy savings and therefore more space and more capacity to distribute a higher percentage of savings as a benefit to municipalities.

"A complex and immense project due to its dimensions, but with great results and a huge contribution towards energy and carbon emission reductions. The significant cost reductions may release funds to reinvest in sustainable energy and combat climate change. It was a real privilege to participate in it and to be able to share the experience through Prospect+."

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OesteLED IP Technical Director and Project Manager*



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Examples

- **Promising practice: PRODESA Project, Renewables for Public Buildings in Greece**
- **ESCOs**
- Energy efficiency interventions in 116 municipal buildings, integration of a total **3.2 MW of photovoltaics** on the roofs of these buildings and re-lamping for the municipal lighting.
- **Total energy savings are 45.6 GWh/y** and the generated energy from RES is 4.8 GWh/y.



The image shows a webpage titled "PROSPECT+ Inequalities Opportunities PRODESA, GREECE". It features a header with the PROSPECT+ logo and a navigation menu. The main content area is divided into two columns. The left column contains text under the heading "Energy efficiency in Greek municipal buildings". The right column features a photograph of a town with a church and a section titled "PRODESA's financing approach:" which includes a flowchart. The flowchart starts with "Building Public lighting retrofit (7%)", leading to "Energy efficiency interventions (20%)", then "Renewable Energy (20%)", "Energy efficiency (20%)", and "Renewable Energy (20%)". These steps lead to "Energy savings (45.6 GWh/y)", which then leads to "Energy savings (45.6 GWh/y) + Renewable Energy (4.8 GWh/y)", and finally "Energy savings (45.6 GWh/y) + Renewable Energy (4.8 GWh/y)".



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APPLY NOW! – deadline 14 April



GENERAL EU CALL (in English)

- [Guidelines](#)
- [Application form](#)



ITALIAN Local group (in Italian, for Italian LRAs)

- [Guidelines](#)
- [Instruction video](#)
- [Application form](#)



POLISH Local group (in Polish, for Polish LRAs)

- [Guidelines](#)
- [Application form](#)



IRISH Local group (in English, for Irish LRAs)

- [Application form](#)

The team

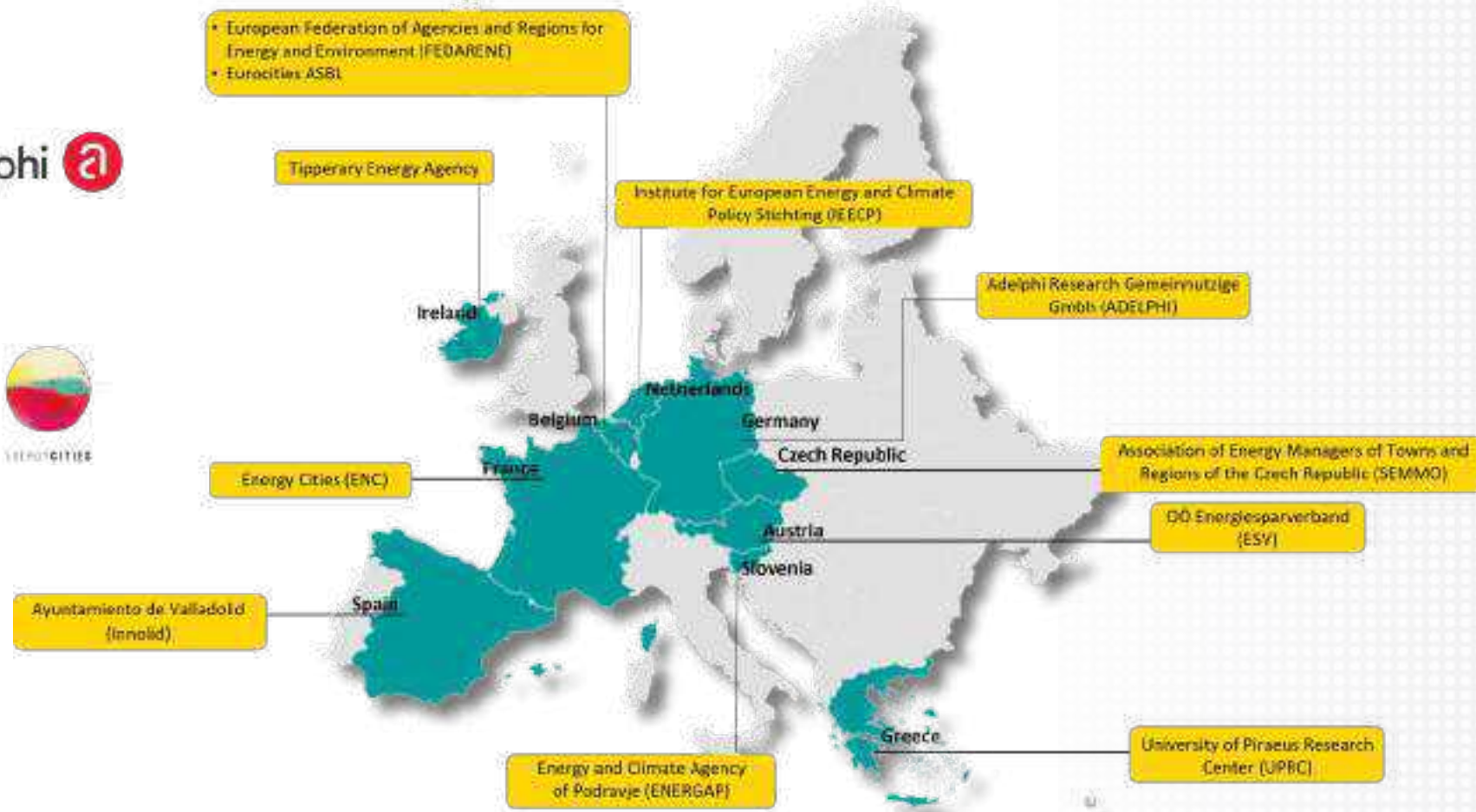
❖ Knowledge hubs

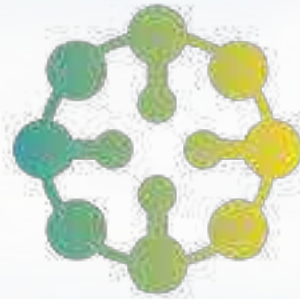


❖ Networks of cities and regions



❖ Regional Agencies





PROSPECT+

Capacity building for cities and regions - from learning to action!

Thank you!

giulia@ieecp.org

sylwia.slomiak@eurocities.eu



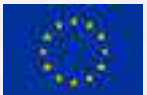
<https://h2020prospect.eu/>



Capacity Building for cities and regions:
<https://www.linkedin.com/company/pe-empoweredcitiesandregions/>



#H2020Prospect



The PROSPECT+ project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101023271





Integrated energy, climate and spatial planning

BUILD UP - Knowledge transfer for energy efficiency and renewable energy sources in buildings

Tomislav Novosel, REGEA

13.04.2023



Co-funded by the European Union under project ID101076428. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



Integrated energy, climate and spatial planning



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Elements of a municipality, city or region

Construction

Architecture

Green
infrastructure
and climate

(Green)
Energy

Cultural
heritage

Urbanism

Circular
economy

Transport

Ownership
and law

Sociology,
citizens and
stakeholders

Infrastructure

Challenges



Lack of capacity and mechanisms to enact and enforce binding energy and climate policies on a local or regional level



Lack of vertical and horizontal integration or alignment of strategies, plans, and policies



Lack of a systemic, integrated, and consistent approach to energy and climate planning



Lack of alignment between planning and the allocation of financial resources

Planning



Implementation



SECAP

Now?



Then?

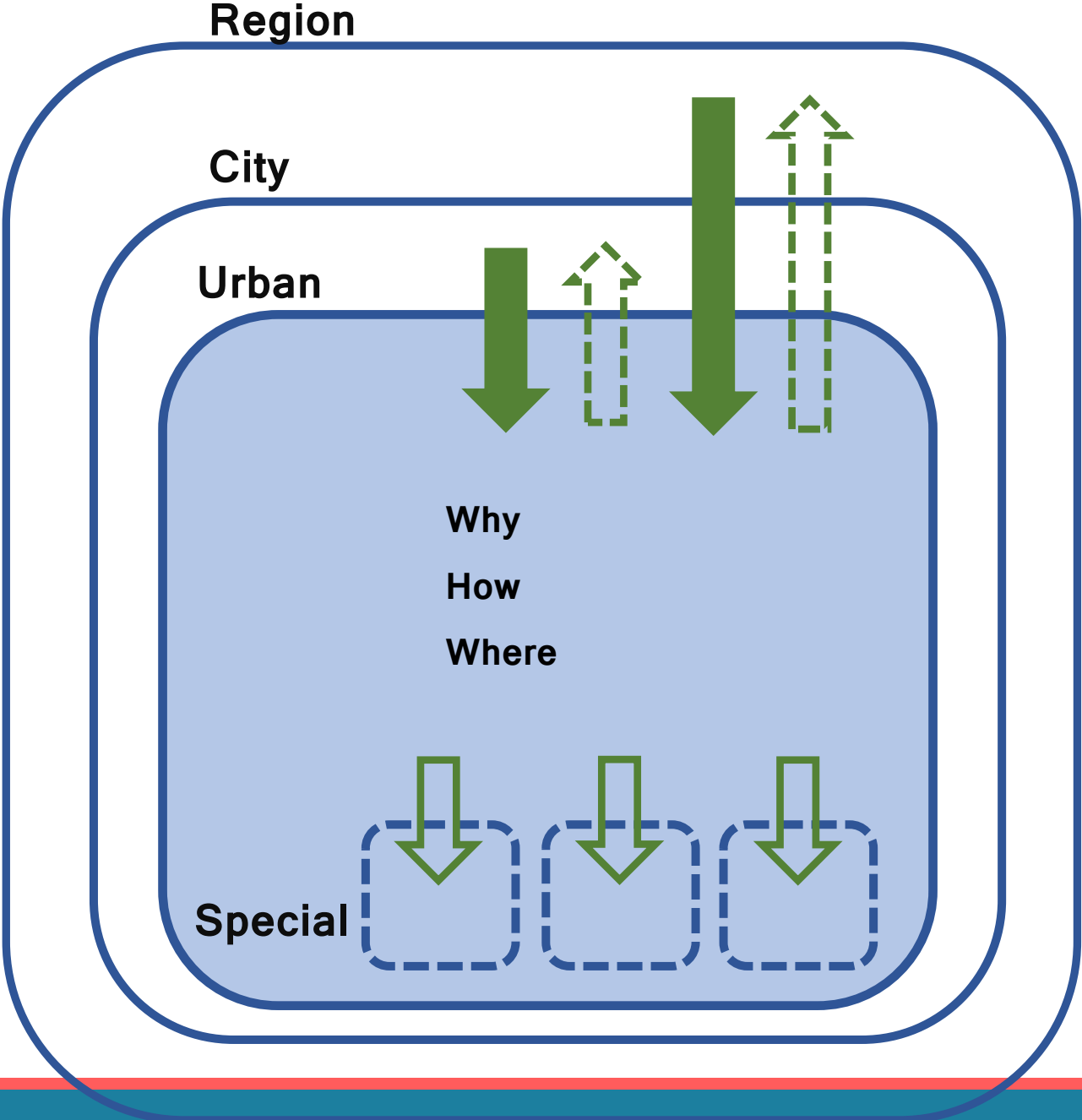


**Baseline
emissions
inventory**

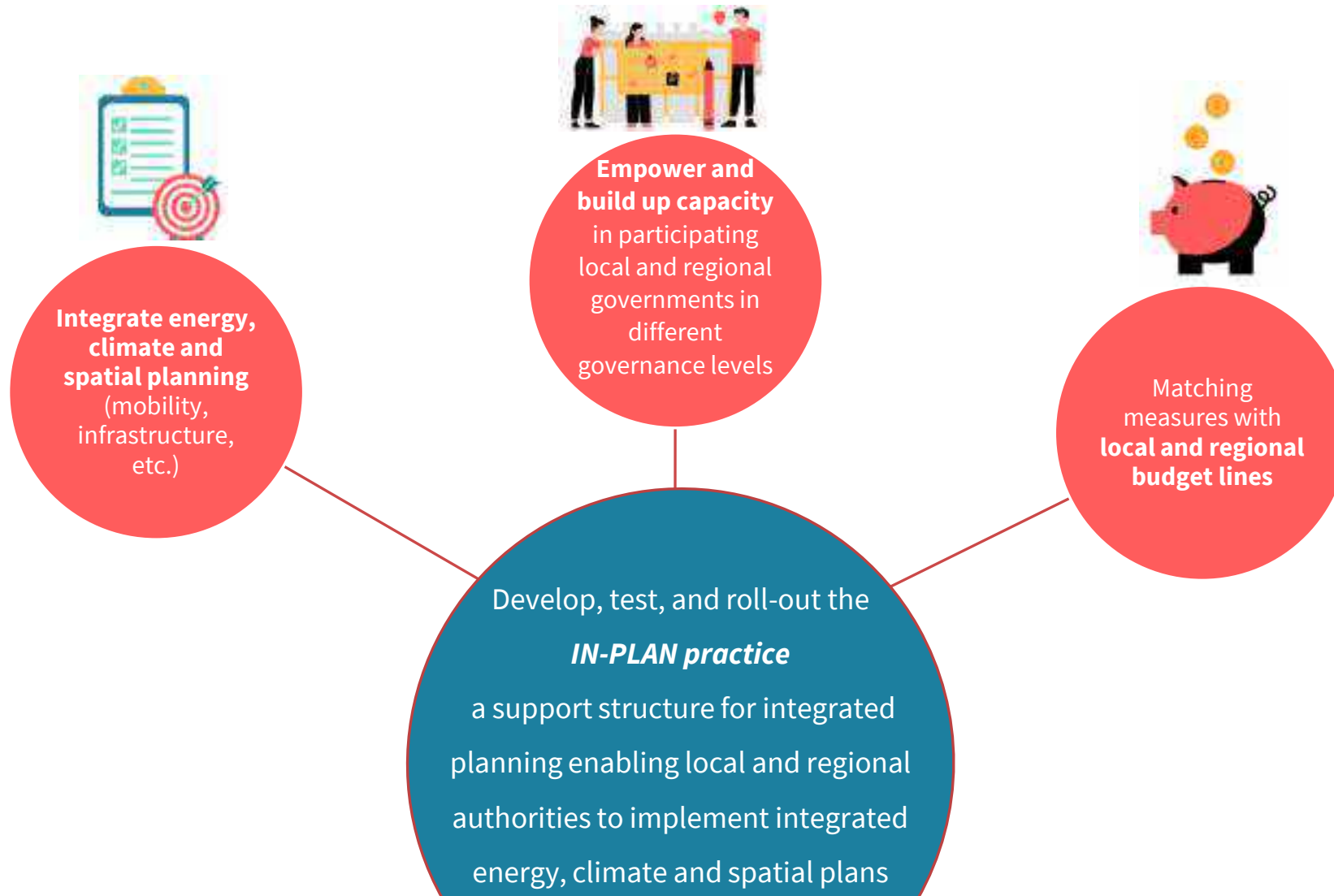
Activities

Concrete actions,
resources, monitoring
and verification

**Visions and
goals**



IN-PLAN objectives

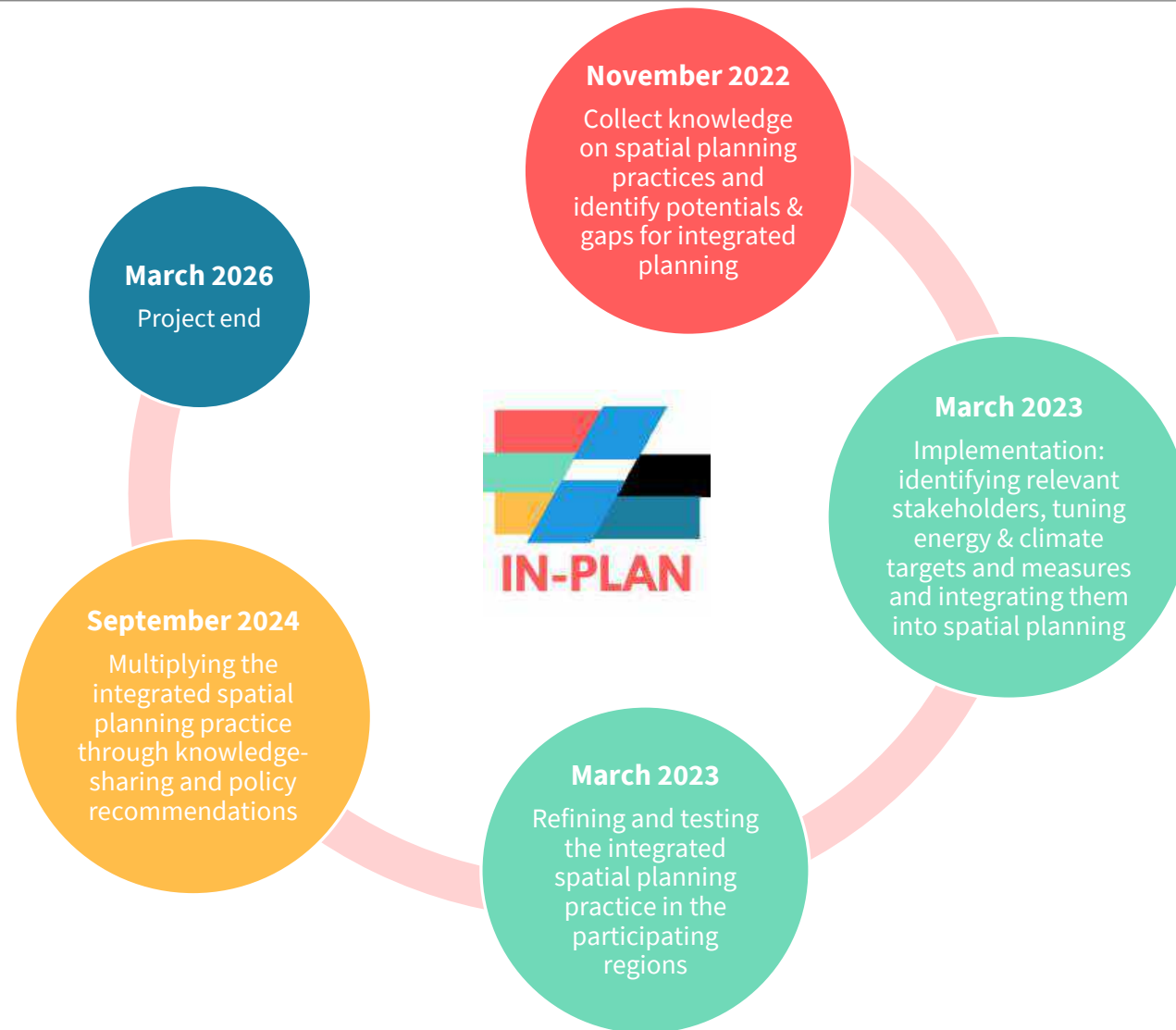


IN-PLAN scope

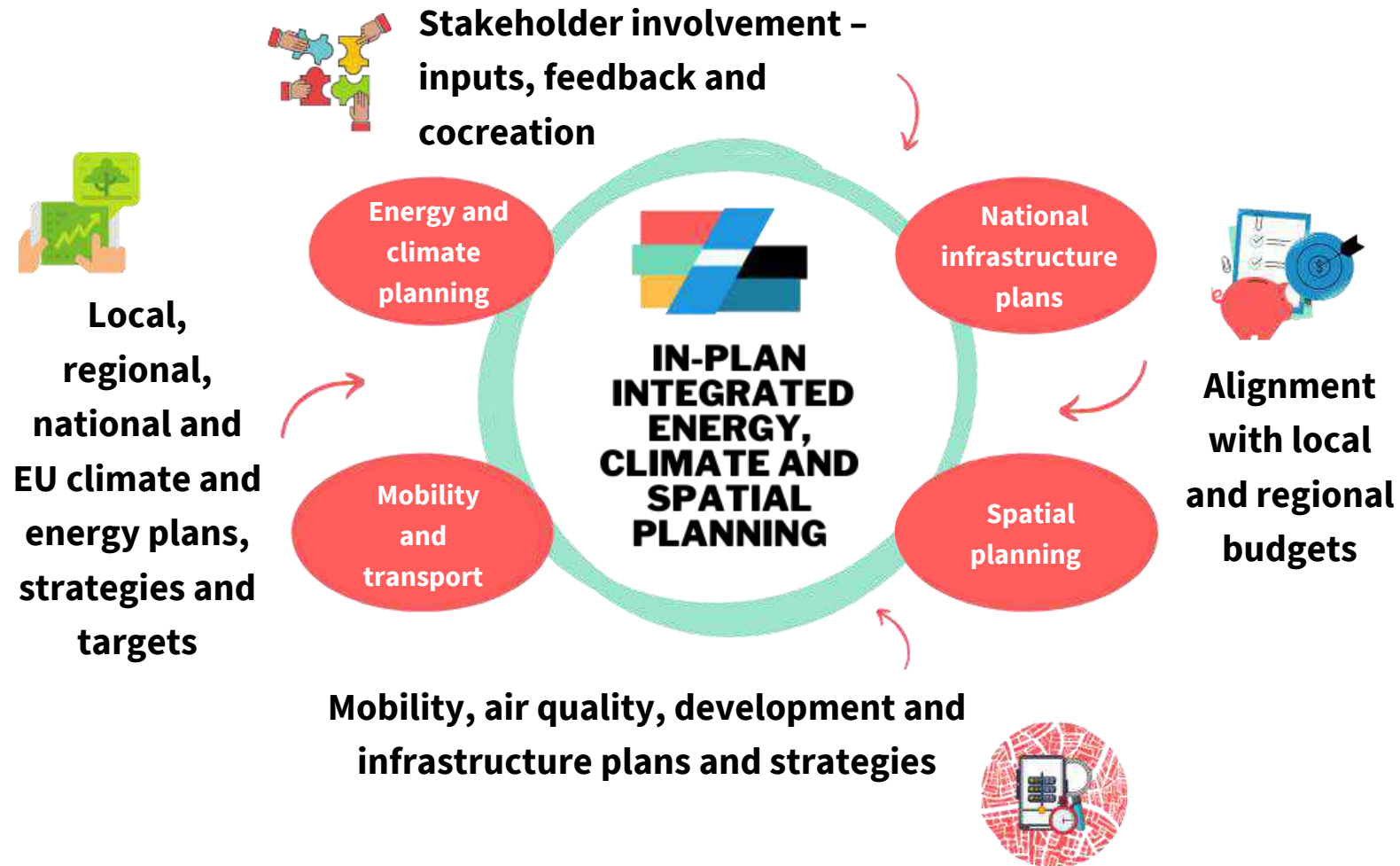
The LIFE project intends to develop and tests **the IN- PLAN practice in 5 pilot countries**, to then roll it out to other EU MS and regions through a two-stage capacity building programme.

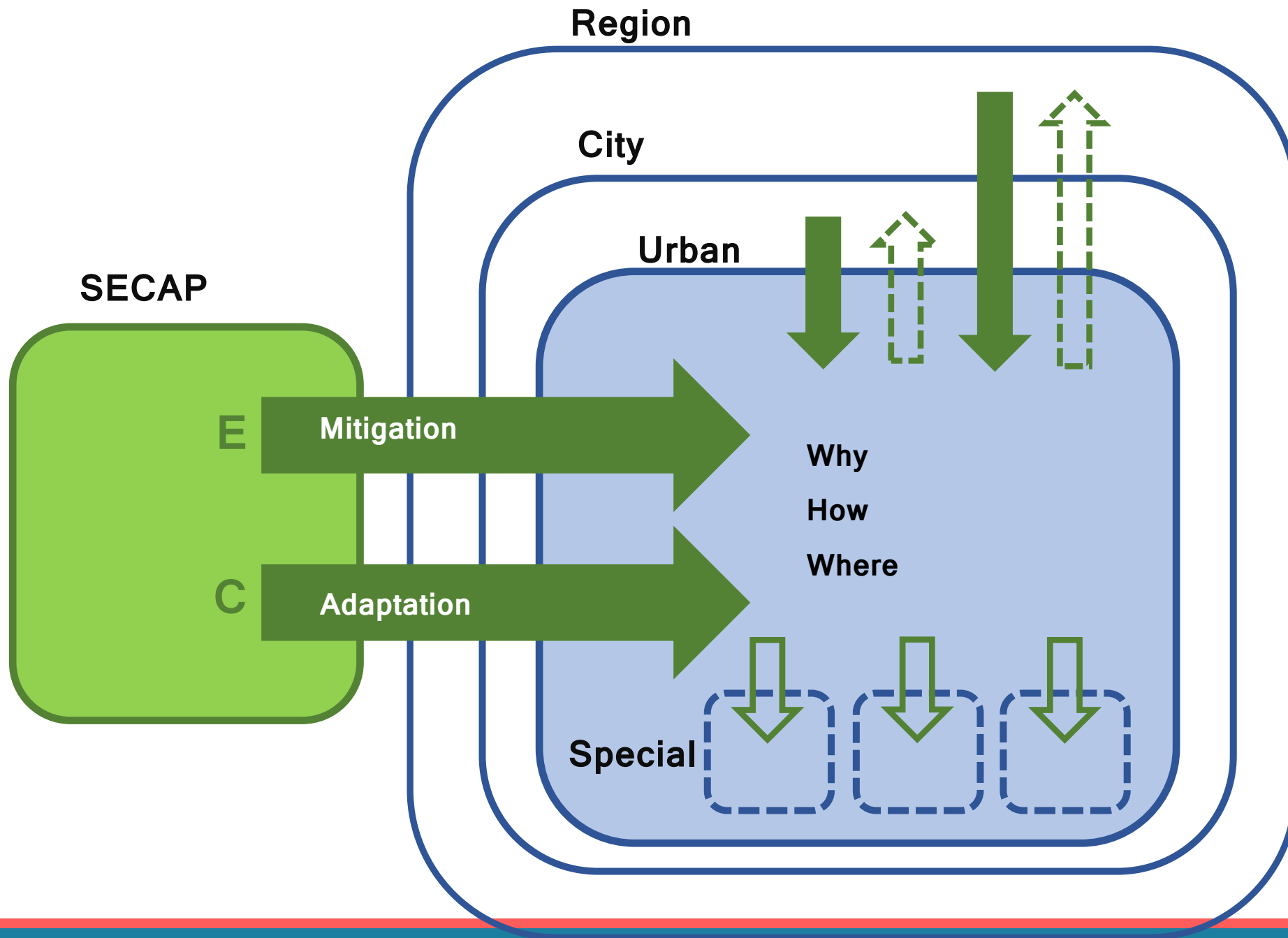


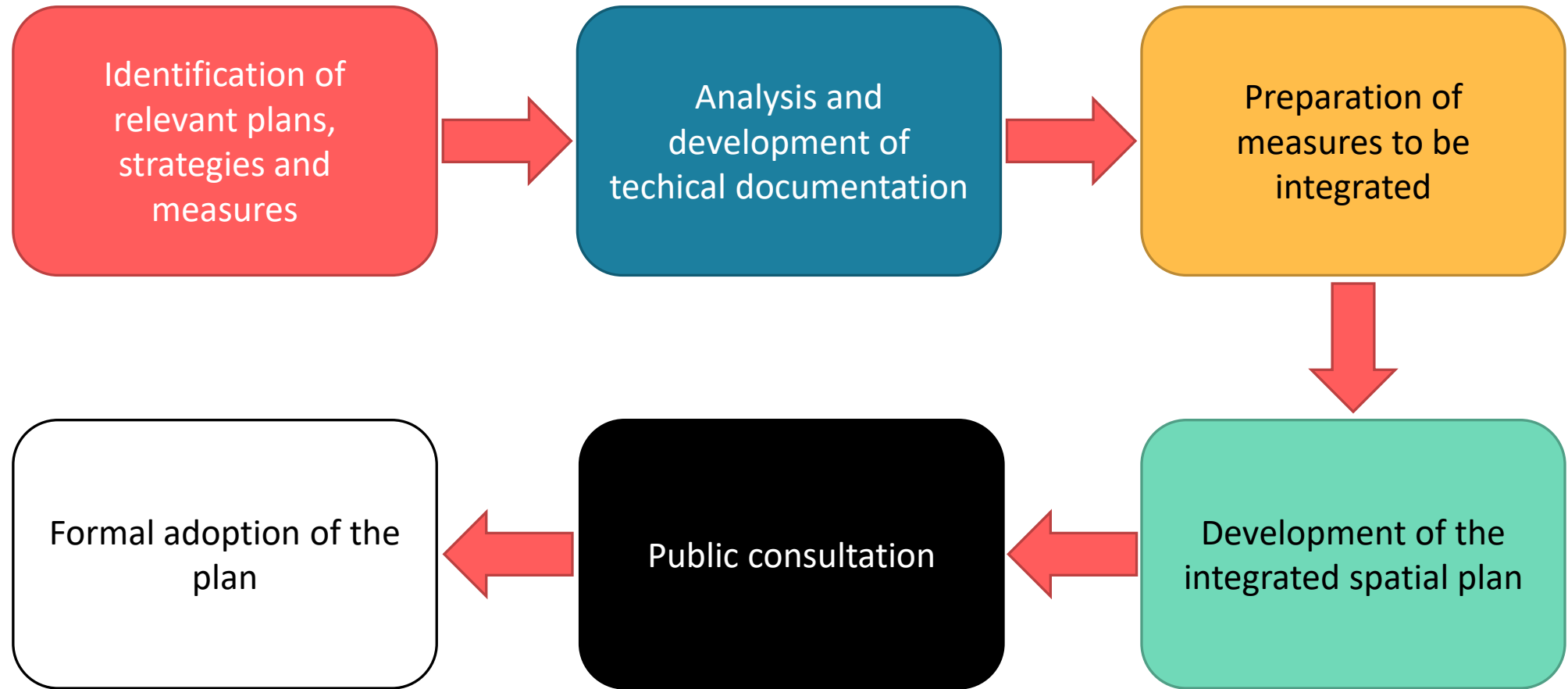
IN-PLAN timeline



IN-PLAN impacts

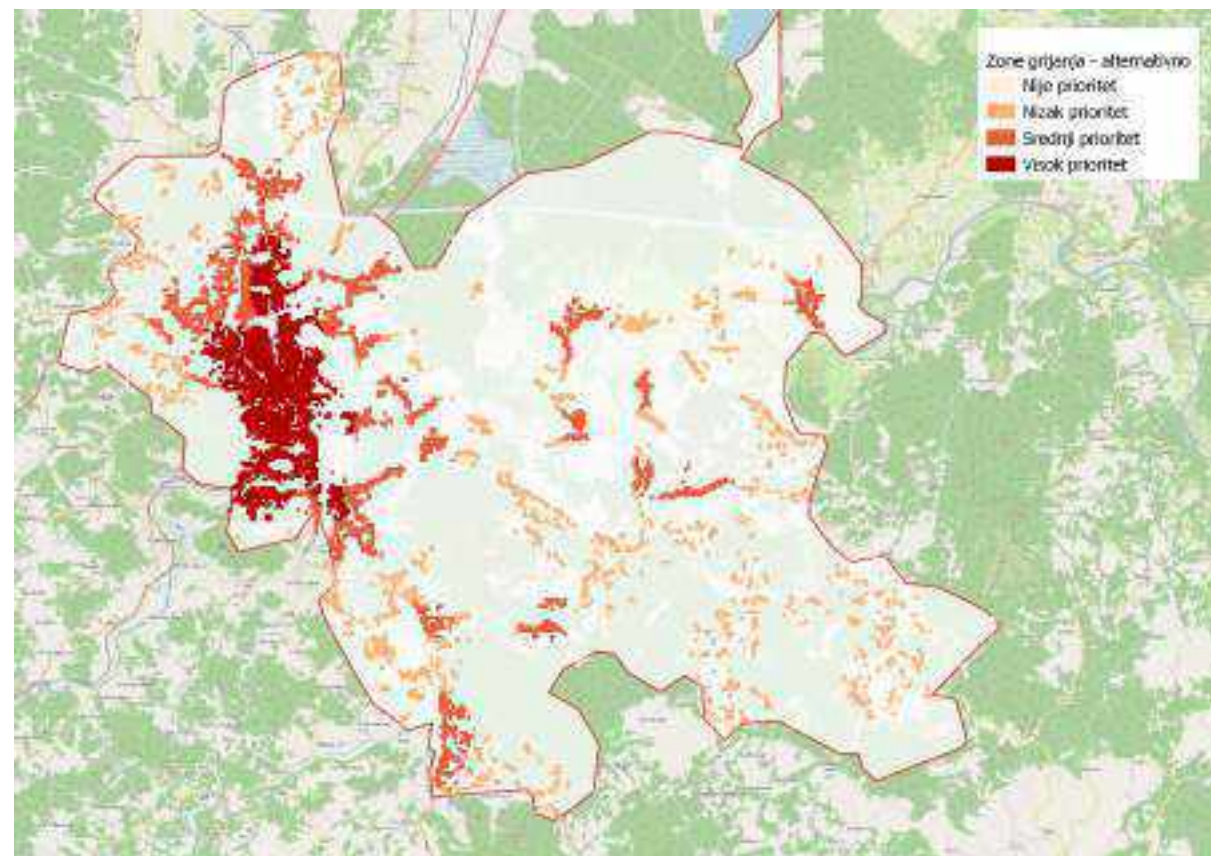
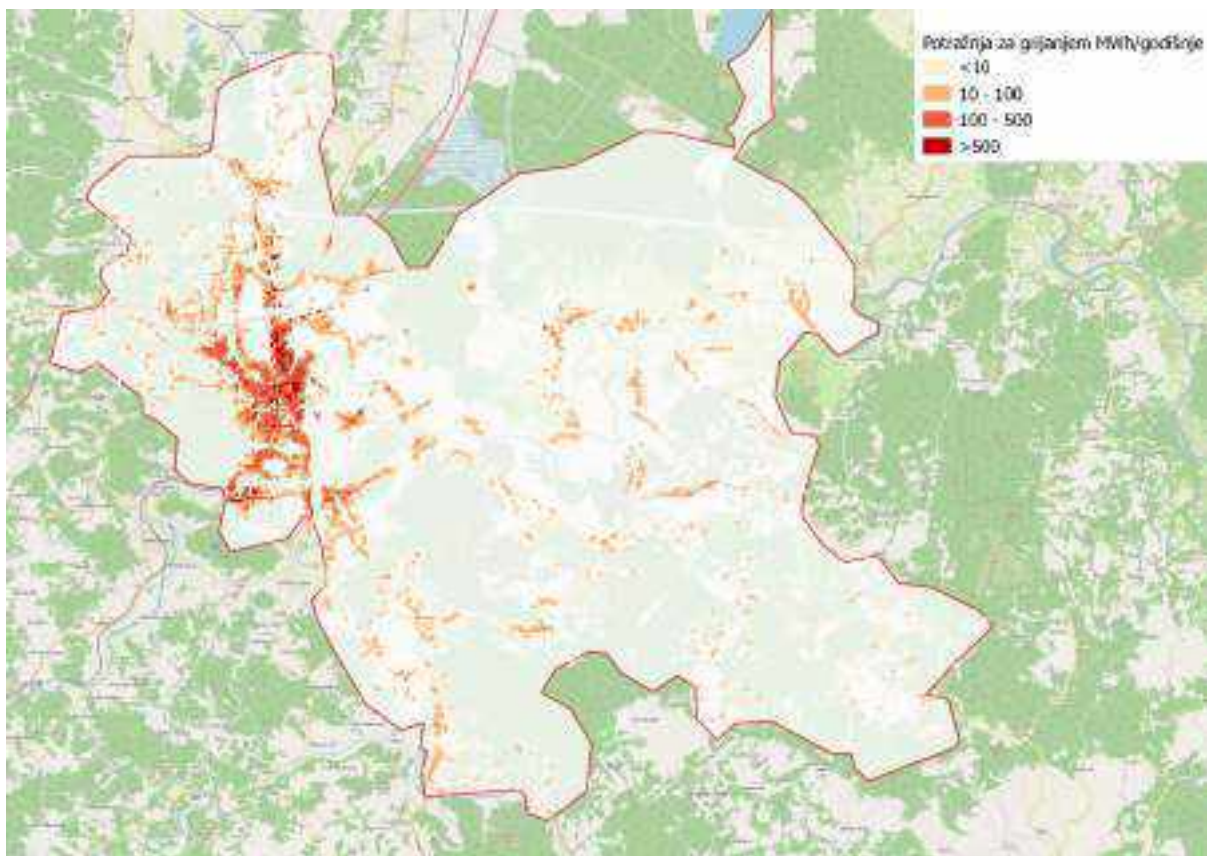






Continous communication and cooperation with the City and the developers of the spatial plan





First results

And next steps

The approach has been successfully tested in 2 cities

The draft methodology and capacity building plans are ready for implementation

2-stage capacity building programme:

- IN-PLAN trains multipliers (energy, climate and/or development agencies)
- Multipliers implement in and build capacity of local and regional governments
- More news will come soon – first round of capacity building will start before the end of the year



Thank you.

For more info, follow our hashtag, visit our website or contact us:



#LifeINPLAN



fedarene.org/project/in-plan/



tnovosel@regea.org



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BUILD UP

The European Portal For
Energy Efficiency In Buildings

Q&A SESSION





THANK YOU!

