



Reahub

Building renovation
has a new place

Advancing energy performance assessment to enable holistic building renovation within sustainable urban development strategies

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La Salle-Universitat Ramon Llull

Project Coordinator



Co-funded by
the European Union

Project precedents

2021-24

Linking building renovation to urban regeneration and sustainable development

transFORMAT-LINK

URBEM

Retabit

Combine EPCs, building stock data, and socioeconomic and environmental indicators to identify renovation priorities and support targeted, sustainable intervention.

REAHUB

2026-29

TIMEPAC

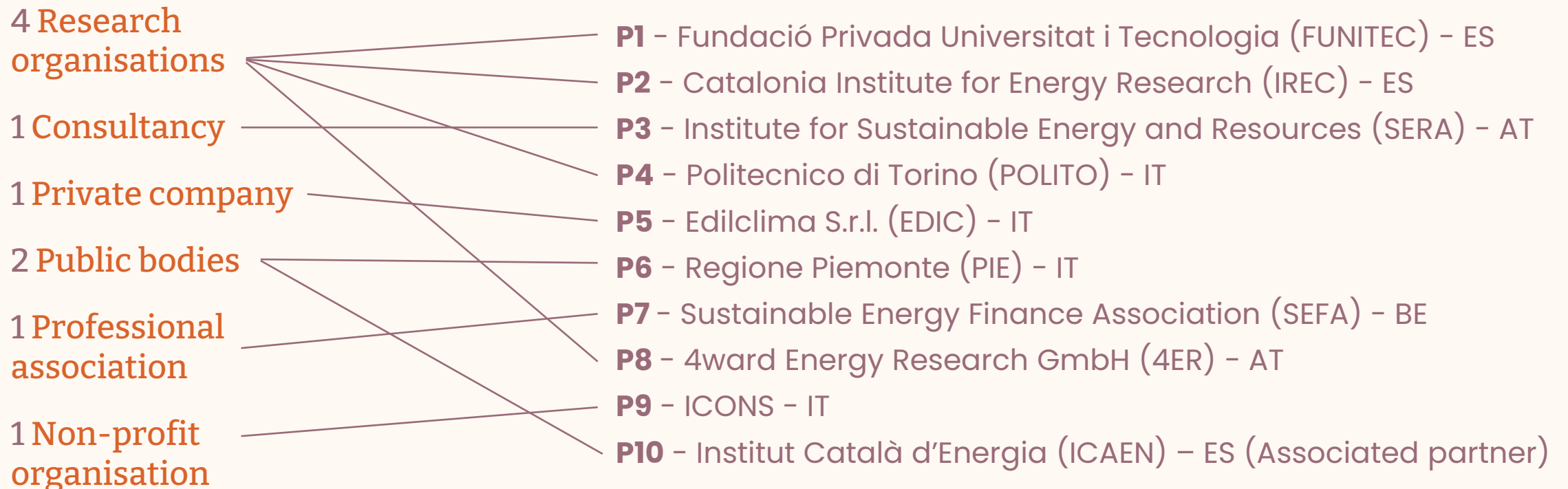
Integrating building performance certification schemes

Integrate EPC, Smart Readiness Indicator and Renovation Passport through harmonised data and procedures to support building assessment, renovation planning and digital logbooks.

Connecting building assessment, renovation planning, financing and services into a common framework for sustainable building renovation and urban regeneration.

Consortium

9 partners + 1 associated partner
4 countries: Austria (2), Belgium (1), Italy (4), Spain (3)



Supporting organisations

A total of 31 organisations in Austria (10), Italy (9) and Spain (12), and one operating at the European level, have provided a letter of support

- Agència de Energía de Barcelona
- Agència de l'Habitatge de Catalunya
- Ajuntament de Barcelona
- Ajuntament de Ripoll
- Ajuntament de Sant Cugat del Vallès
- Consell Comarcal del Baix Empordà
- Consell Comarcal del Pla de l'Estany
- Diputació de Barcelona
- Diputació de Girona
- Direcció General de l'Habitatge
- Fundació Europace
- Green Building Council España

- Climate Alliance

Styria & lower Austria (AT)

Piemonte (IT)

Catalonia (ES)

- Amascon Immobilien
- Caritas
- Climate and Energy Model Region (KEM)
- Modellregion Murtal
- Climate and Energy Model Region (KEM) Modellregion Thermenlinie
- Immobilien Verwaltung Lasserus
- Land Salzburg, Energiewirtschaft und -beratung
- Raum Sim Lab, TU Wien
- Stadtgemeinde Judenburg
- Universität für Weiterbildung Krems
- University of Applied Sciences and Communication, Vienna, Institute for Real Estate Management

- Assital
- Associazione Nazionale Costruttori Edili
- CNI, National Council of Italian Engineers
- Coordinamento Agende 21 Locali Italiane
- ENEA (2)
- Engie Servizi Spa
- FEDERESCO
- Green Building Council Italia
- Unioncamere Piemonte

REAHUB vision

Premises

- Europe's **clean energy transition** requires transforming the existing building stock into a more energy-efficient, decarbonised, resilient and inclusive built environment. Achieving this transformation depends on effective governance, high-quality data, adequate financing, skilled professionals, and informed decision-making to accelerate renovation at scale.

- Building renovation is a key component of this transition.** However, the impact of renovating a building depends not only on its own characteristics but also on its surrounding urban context, including the condition of neighbouring buildings, local energy infrastructure, socioeconomic conditions, climate risks, and municipal planning priorities.

- Consequently, renovation potential cannot be assessed solely at the level of individual buildings.** It must also be analysed at the neighbourhood and building stock levels to identify priorities, coordinate interventions, optimise resource allocation, and maximise environmental, social and economic benefits.

Challenges

- **REAHUB will develop an integrated data-driven framework that connects building-level interventions with urban-scale analysis.**
- **Building stock assessment** identifies where renovation efforts will have the greatest impact, supporting the development of coordinated renovation strategies.
- **Building-level interventions** implement these strategies in individual buildings. The resulting performance data and implementation experience feed back into the framework, improving future assessments, informing the evolution of regulations and standards, and strengthening the data and methodologies that underpin renovation planning.

MULTILAYER INTERTWINED LEGISLATION- DATA-PROCEDURES

EUROPE

EPBD, EED,
Climate-Neutral and
Smart Cities Mission

Building Stock
Observatory

Level(s)

COUNTRY

National renovation
plans

National EPC
databases

GWP

REGION

Regional energy and
climate strategies

Regional building
inventories, regional
energy agencies' datasets

MUNICIPALITY

SECAPs

Building codes

District energy
system data

Urban planning
regulations

BUILDING

EPC, SRI, RP, Digital
Logbooks

MEPS

Smart-meter
data

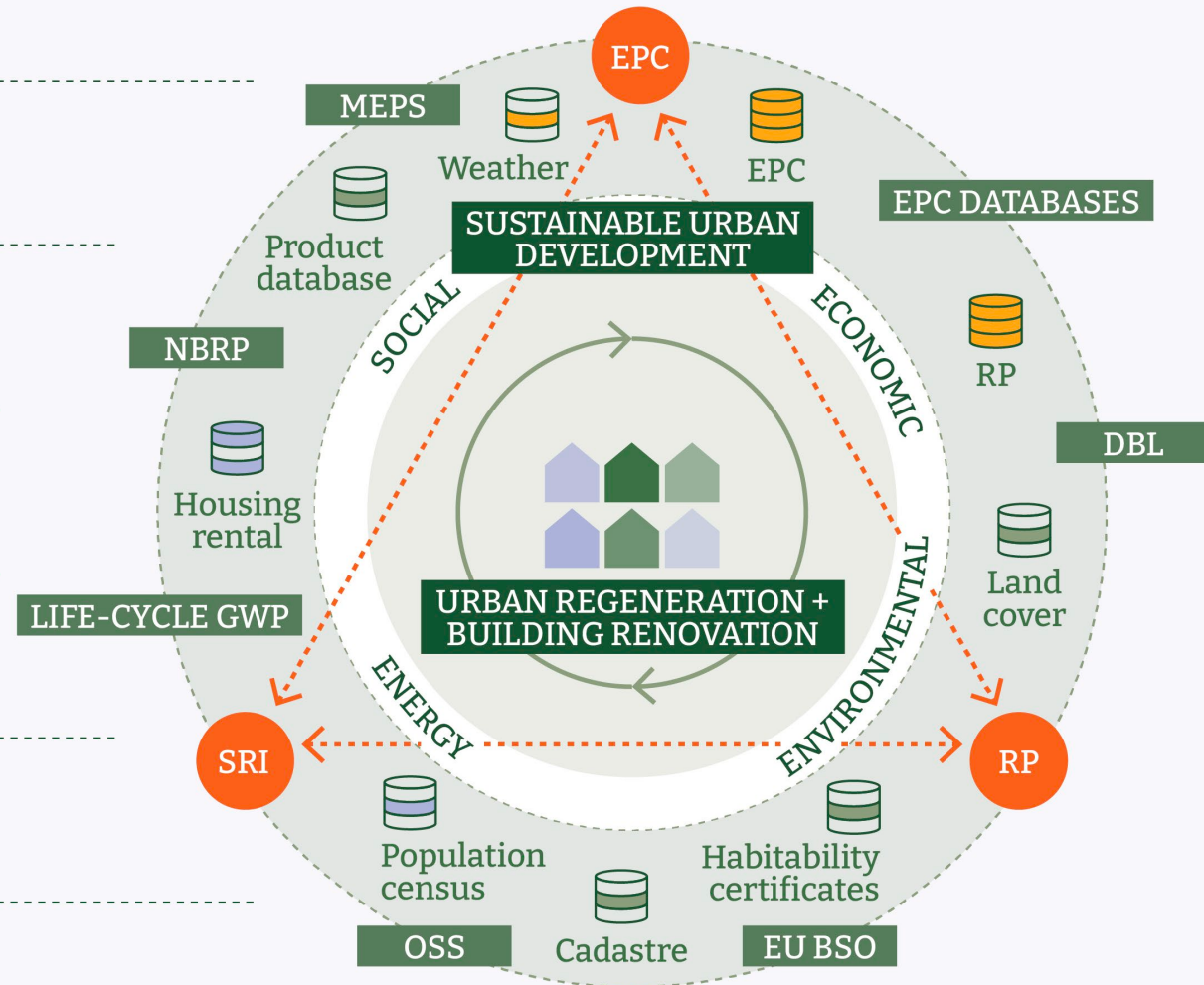
BUILDING UNIT

EPC

Smart-meter
data

REGULATORY FRAMEWORK

LOCAL BUILDING RENOVATION PROGRAMMES



INTERVENTIONS

An integrated ecosystem linking regulations, data and building assessment tools to enable coordinated renovation actions from building to city scale.

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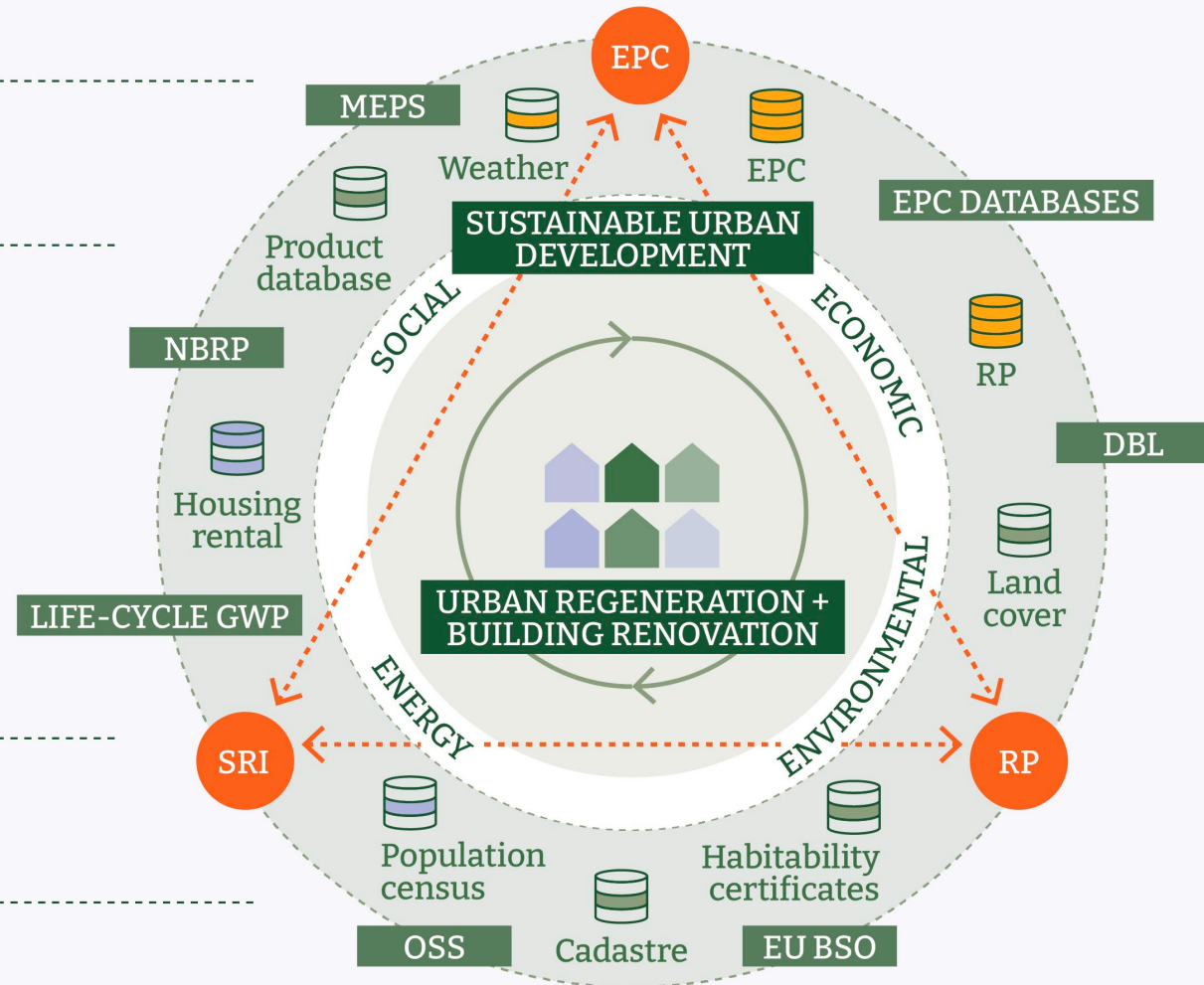
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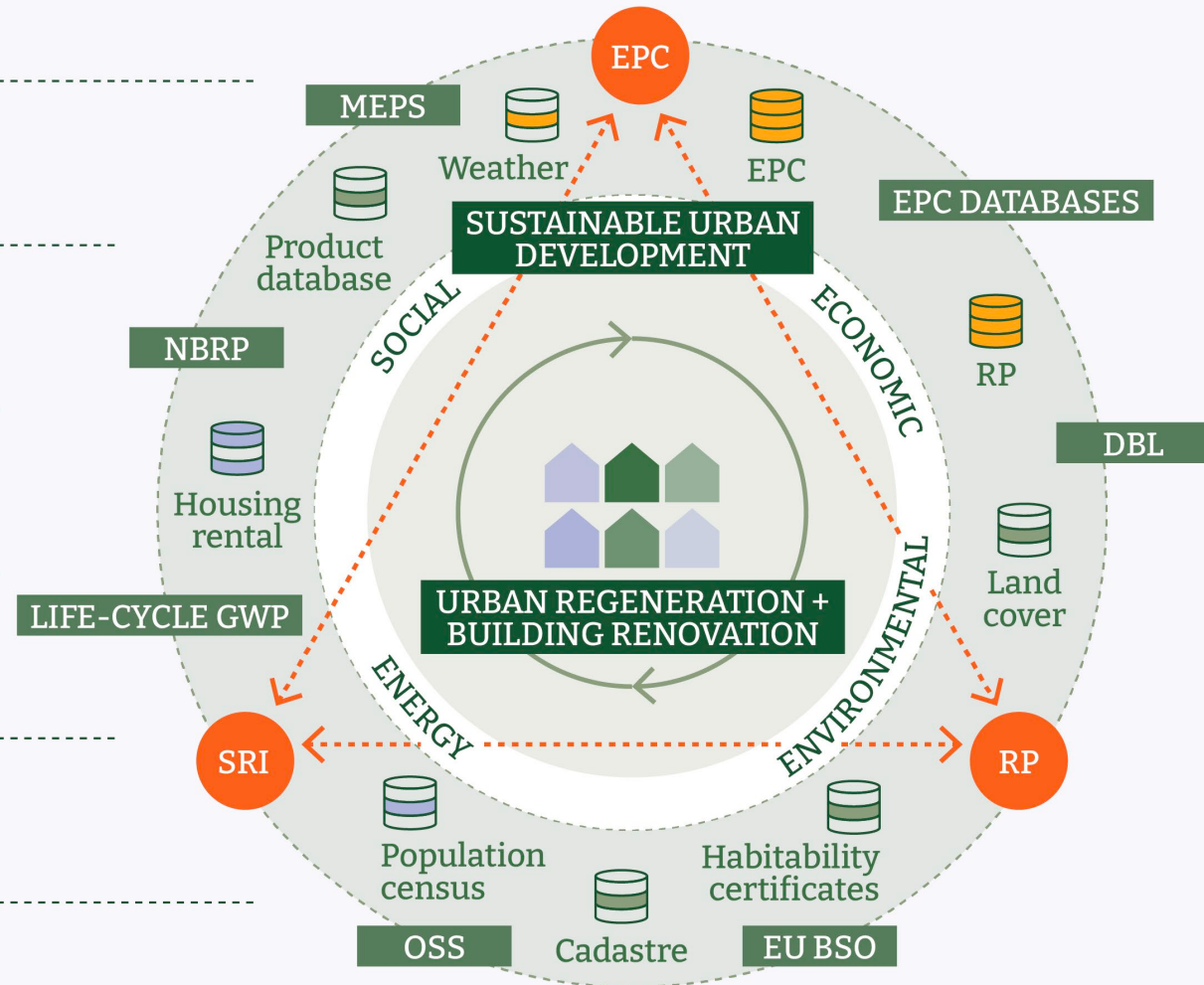
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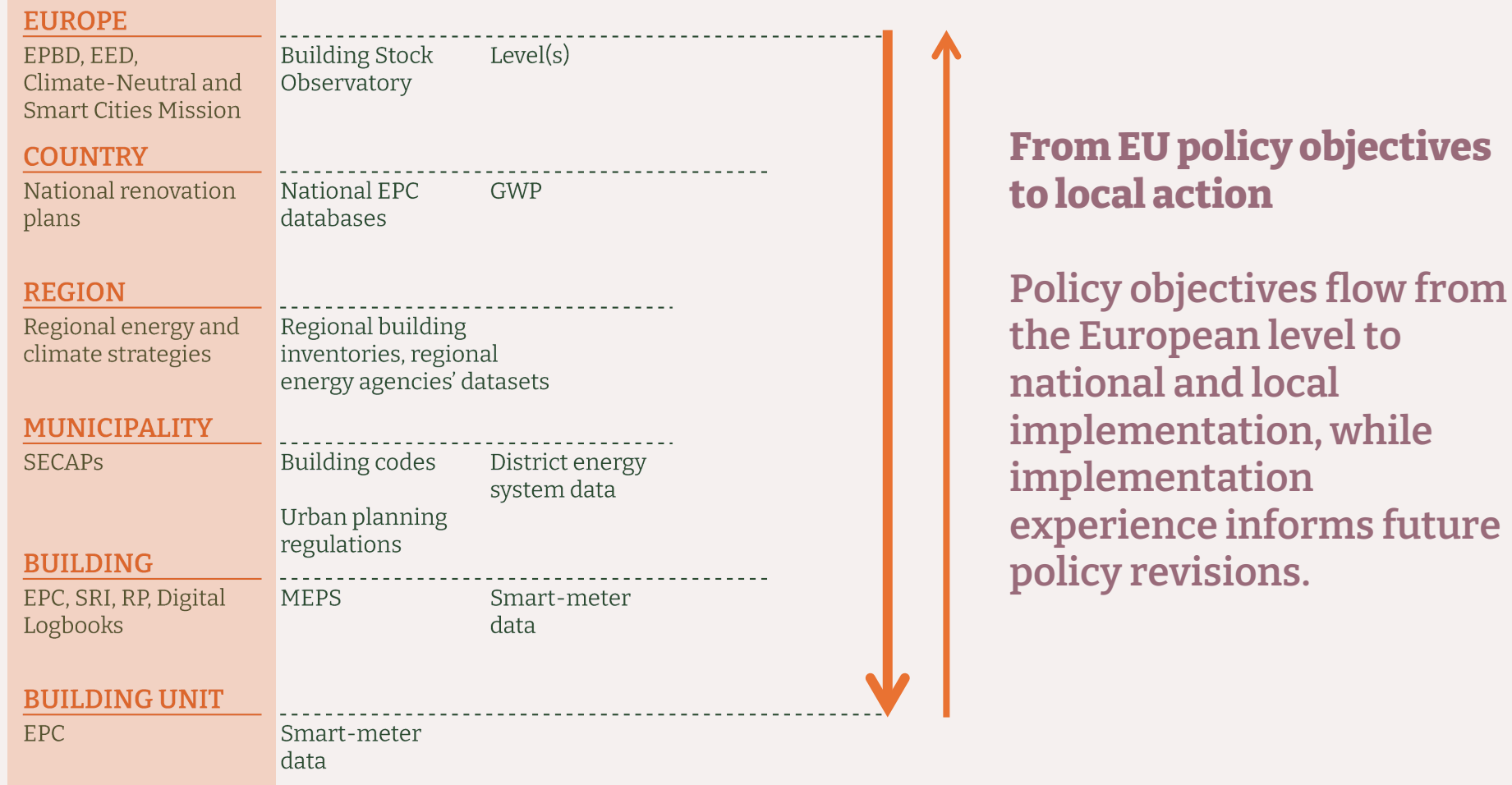
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INTERVENTIONS

An integrated ecosystem linking regulations, data and building assessment tools to enable coordinated renovation actions from building to city scale.

MULTILAYER INTERTWINED LEGISLATION - DATA - PROCEDURES



REGULATORY FRAMEWORK

A continuous policy cycle connecting objectives, implementation and improvement.

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**Data flows across
governance levels**

Data generated at building
level is aggregated and
enriched across
governance levels,
supporting monitoring,
benchmarking and
evidence-based decision-
making.

REGULATORY FRAMEWORK

A connected data ecosystem supporting assessment, monitoring and decision-making.

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**Procedures connect
policy, data and action**

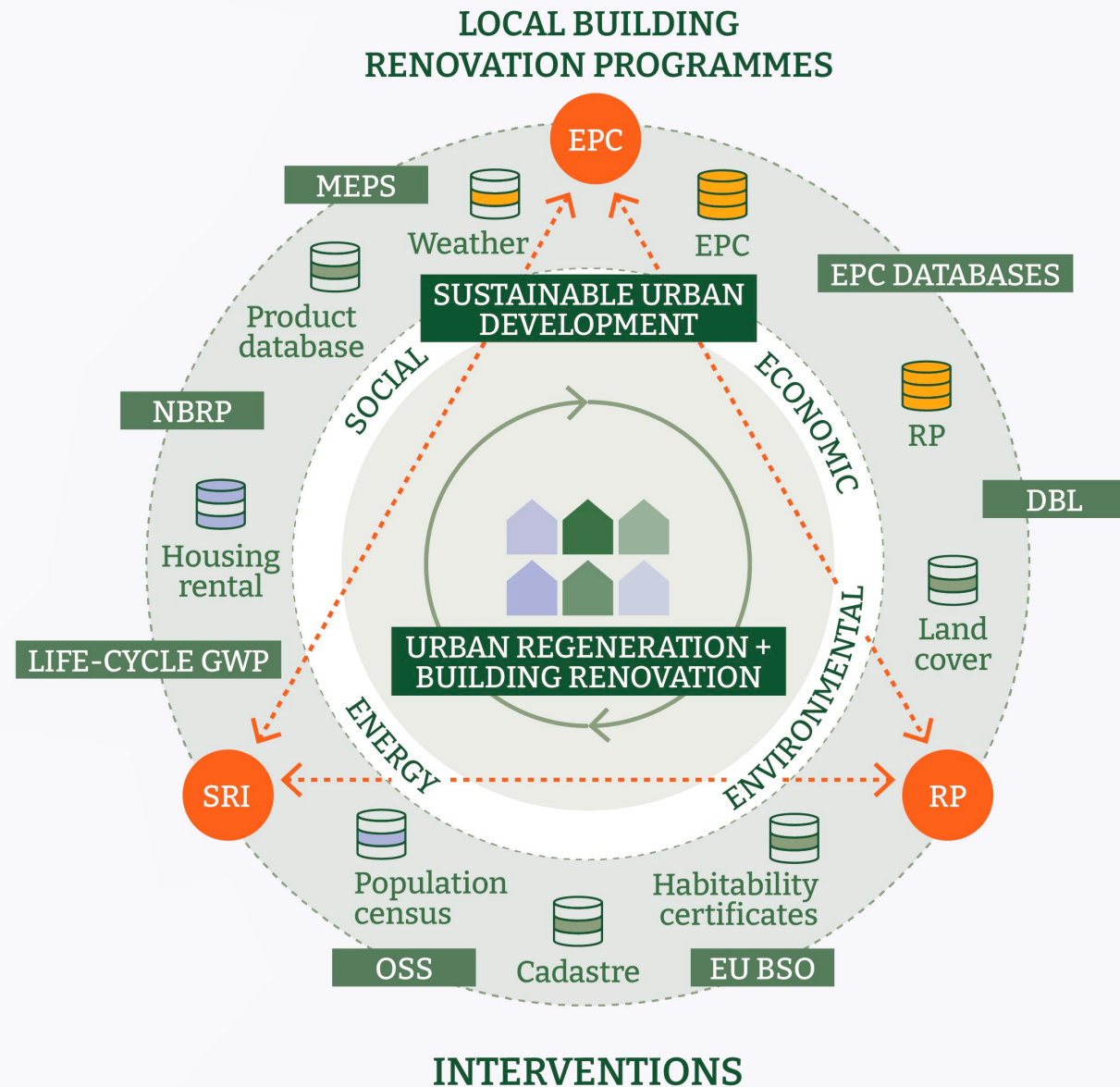
**Coordinated procedures
guide how regulations are
applied and how data is
used in practice,
supporting consistent
renovation planning and
implementation.**

REGULATORY FRAMEWORK

A shared operational framework connecting assessment, decision-making and action.

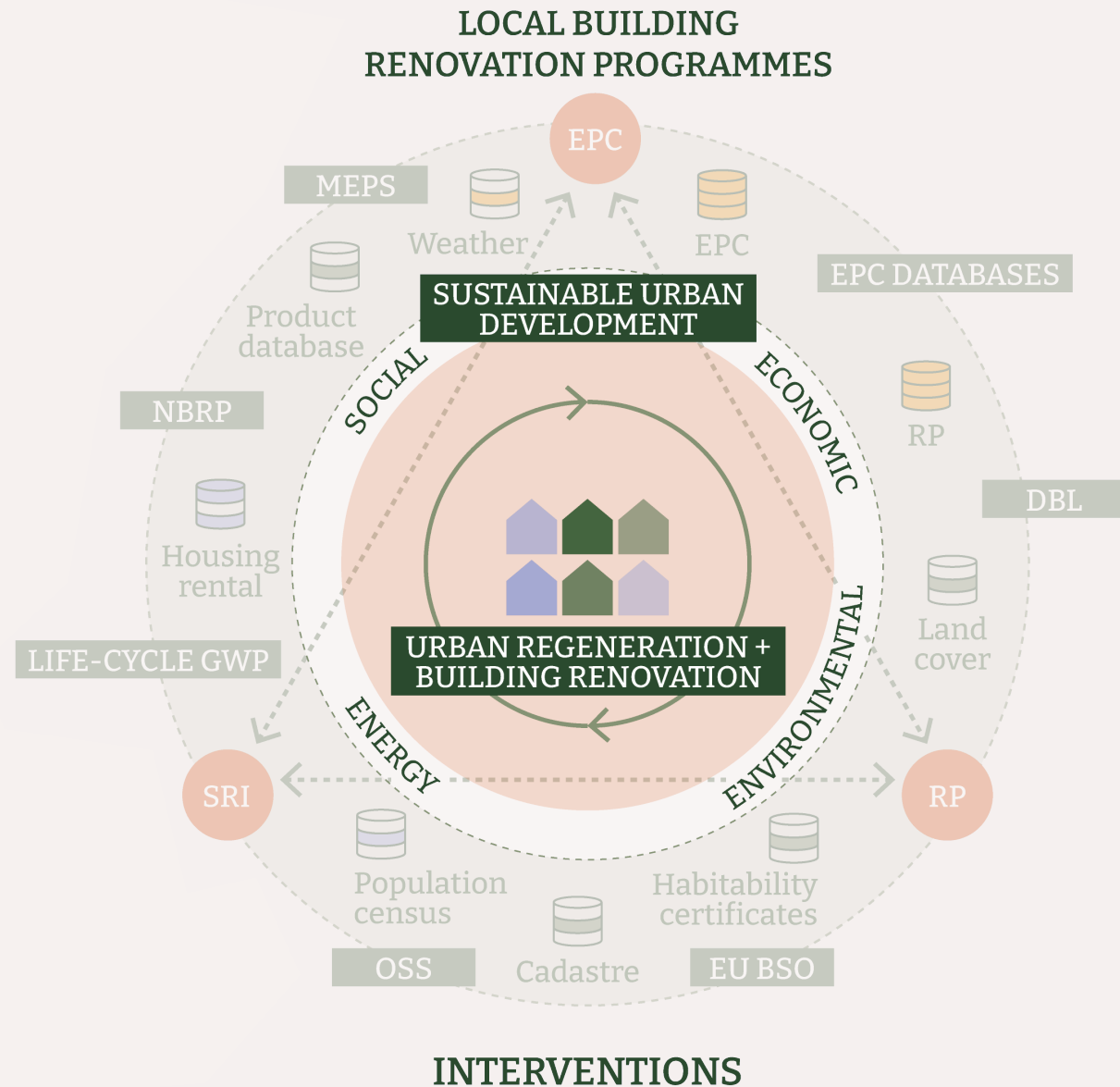
REAHUB transforms fragmented building and urban datasets into interoperable information services that support the joint assessment of energy performance, smart readiness and renovation roadmaps.

By linking EPCs, SRIs and Renovation Passports within a common framework, it enables a more coherent and data-driven renovation process from building to city scale.



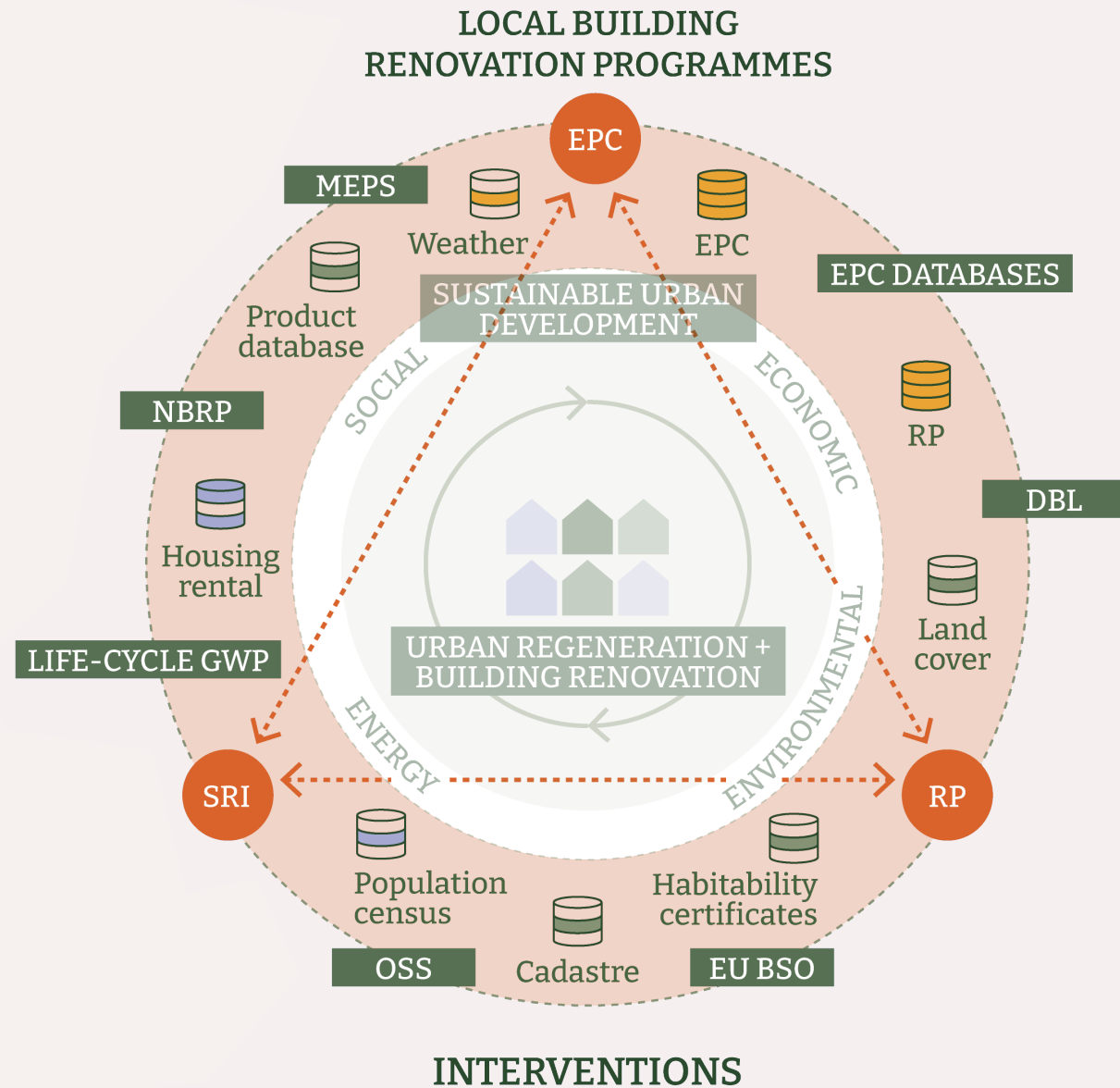
By integrating diverse building and urban data sources, REAHUB connects policy and practice, enabling local renovation experiences to inform future planning, assessment and policy development.

Building renovation is informed by a multidimensional assessment of the urban environment, integrating social, economic, environmental and energy perspectives.



Urban regeneration and building renovation linked through a multidimensional assessment framework spanning social, economic, environmental and energy dimensions.

EPCs, SRIs and Renovation Passports are derived from interconnected data sources spanning buildings, cities and national databases



Integrated EPC, SRI and RP workflows supported by distributed data sources to enable data-driven renovation planning.

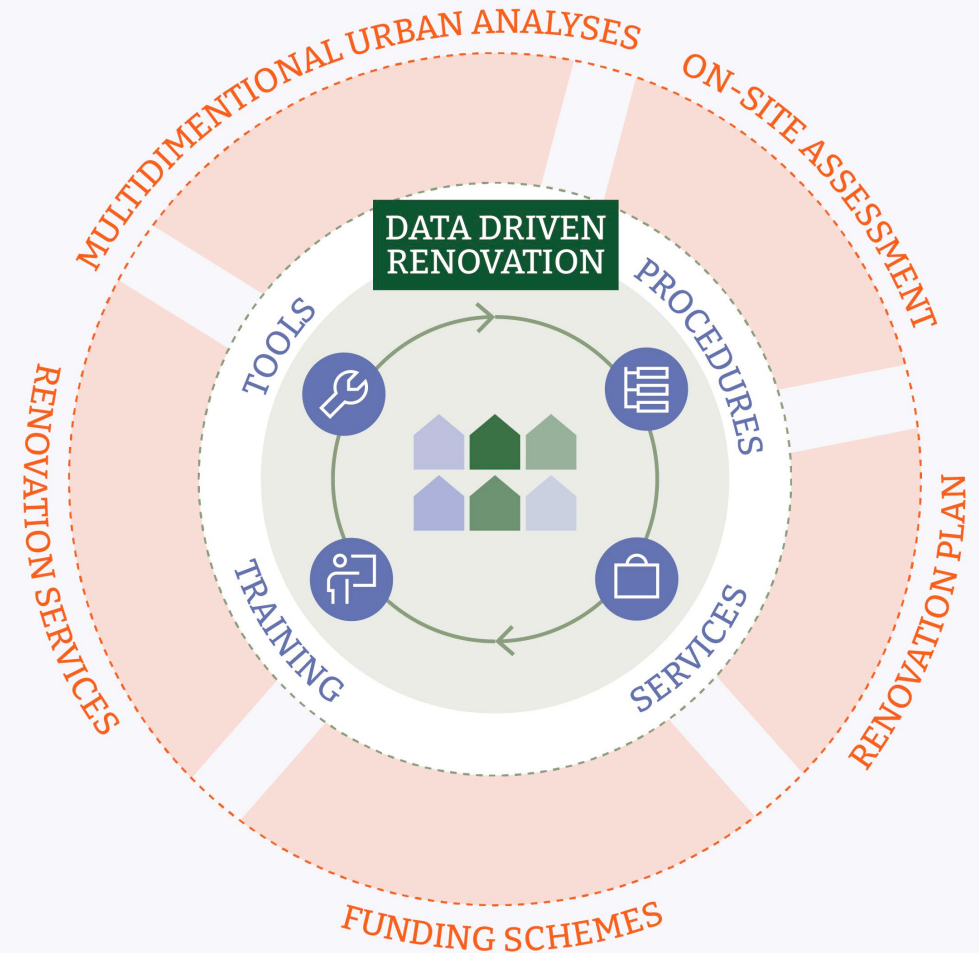
REAHUB framework

The REAHUB framework supports data-driven renovation through five **sequential stages**:

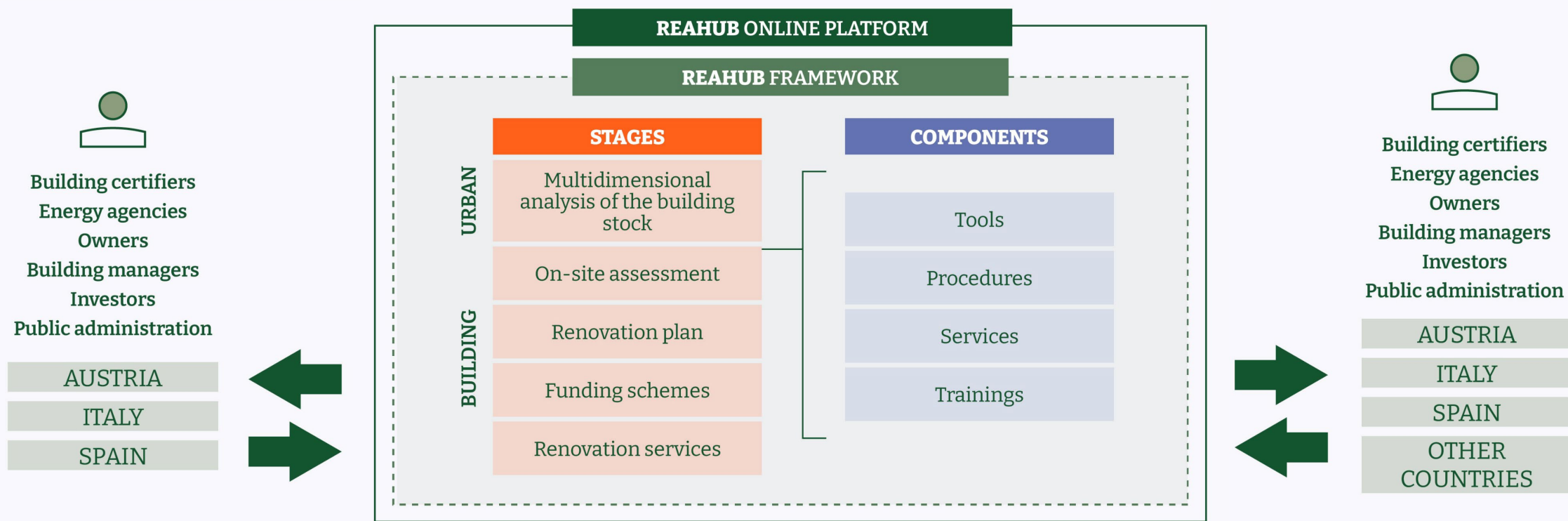
- multidimensional urban analysis
- on-site assessment
- renovation planning
- funding schemes
- renovation services

Each stage involves four **cross-cutting components**:

- tools
- procedures
- services
- training



A comprehensive renovation framework that bridges urban and building scales, empowering stakeholders with the tools, procedures, services, and training needed for effective EPBD implementation.



Pilot regions play a dual role: they provide the data, knowledge, and stakeholder input needed to develop the framework, and they act as real-world testbeds to validate, improve, and demonstrate its application.

EPBD implementation

CA-EPBD VI
20022-27

EPBD
transposition- May
2026

NBRP submitted –
December 2026

National databases
building data to the
BSO

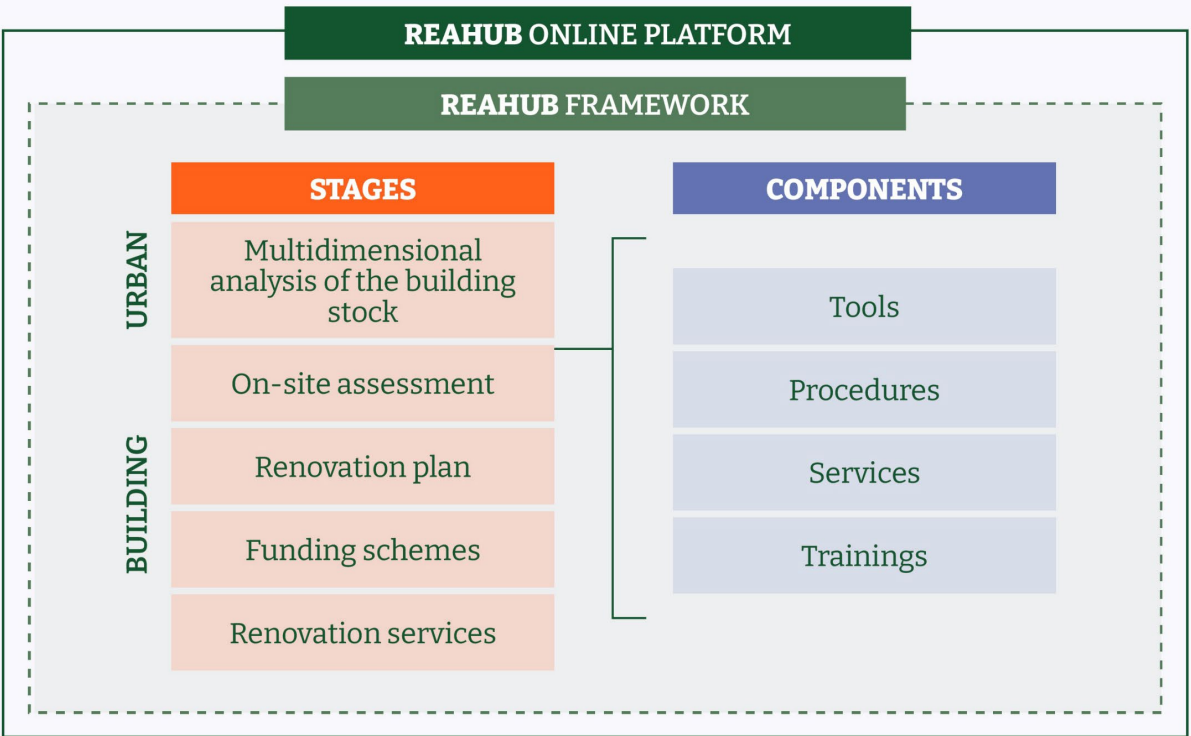
2026-onward
EED

RP for public
buildings
RED III

Ensuring ZEB
standard

EU Taxonomy

➔



Research projects

EPC-SRI
iEPB
SmarterEPC
SRI2MARKET
easySRI
EPBD.wise
TUNES
TIMEPAC

RP
OneClickREN

Oss
Localised
CROSSFIT
EU-Peers

BSO
OBSERVE

FINANCING
GEAR-UP
NEW-PACE

➔

Research projects and EPBD implementation activities provide complementary and iterative inputs that shape both the REAHUB platform components and the building rehabilitation process.



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has a new place

Thank you!

If you need more information, please contact us

info@reahub.eu



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the European Union**

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