

# TIMEPAC: Towards Innovative Methods for Energy Performance Assessment and Certification of Buildings

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# Consortium

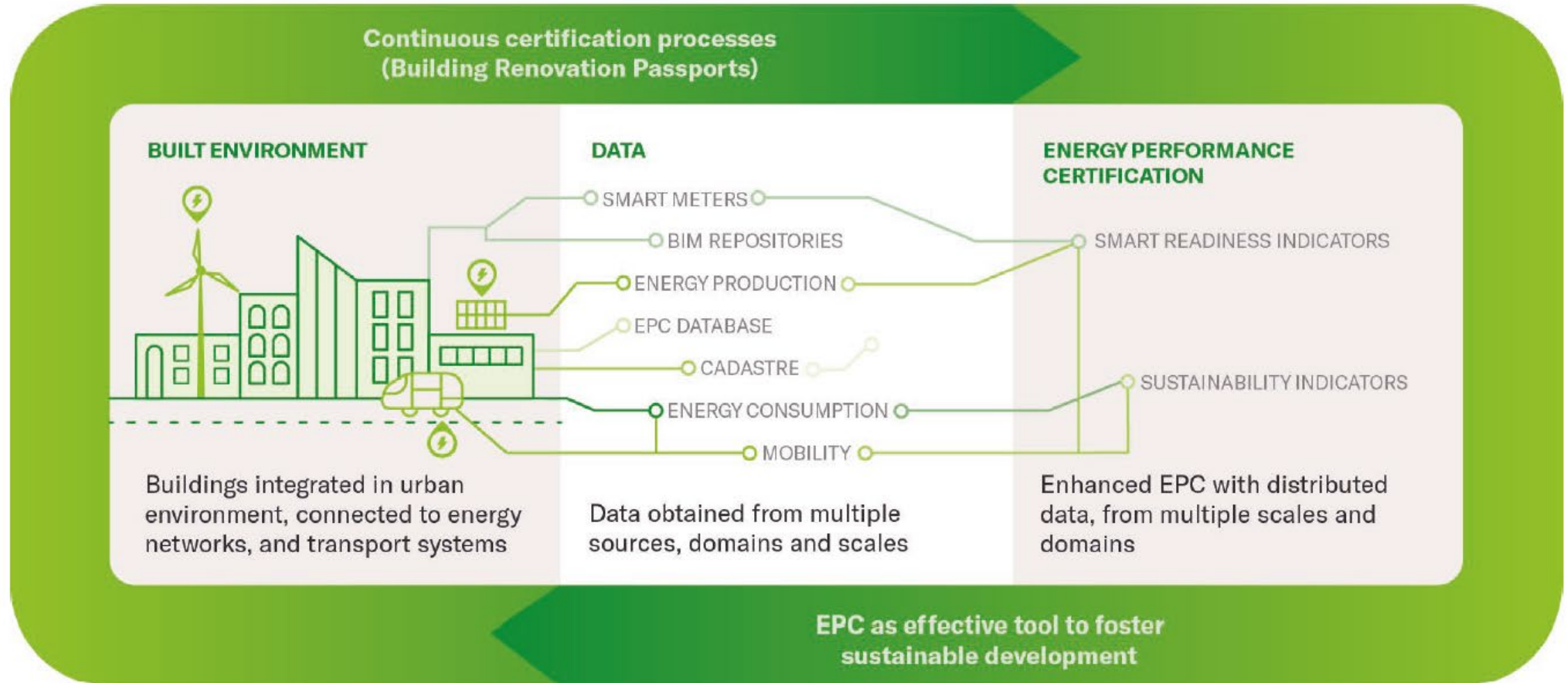
14 partners from 7 EU countries (Austria, Croatia, Cyprus, Germany, Italy, Slovenia, and Spain)



certification public bodies - local energy agencies and  
consultancies - software developers - research groups -  
communication agency

- La Salle - URL (FUNITEC) (Coordinator), *Spain*
- Jožef Stefan Institute, *Slovenia*
- Politecnico di Torino, *Italy*
- Institut Català d'Energia, *Spain*
- CYPE Soft S.L., *Spain*
- Ministrstvo za infrastrukturo, *Slovenia*
- Goriška Lokalna Energetska Agencija, *Slovenia*
- European Science Communication Institute, *Germany*
- Edilclima, S.r.l., *Italy*
- Regione Piemonte, *Italy*
- Institute for Sustainable Energy and Resources Availability, *Austria*
- Energy Institute Hrvoje Požar, *Croatia*
- Cyprus Energy Agency, *Cyprus*
- Cyprus University of Technology, *Cyprus*

# A holistic approach to EPC



# EPC seamless data flow

**User-friendly environments to access EPC databases, interlinked to other data repositories (BIM, cadastre)**

Automatic storage of the certificate in BIM and EPC databases

Analysis of EPC repositories to identify potential areas for building renovation

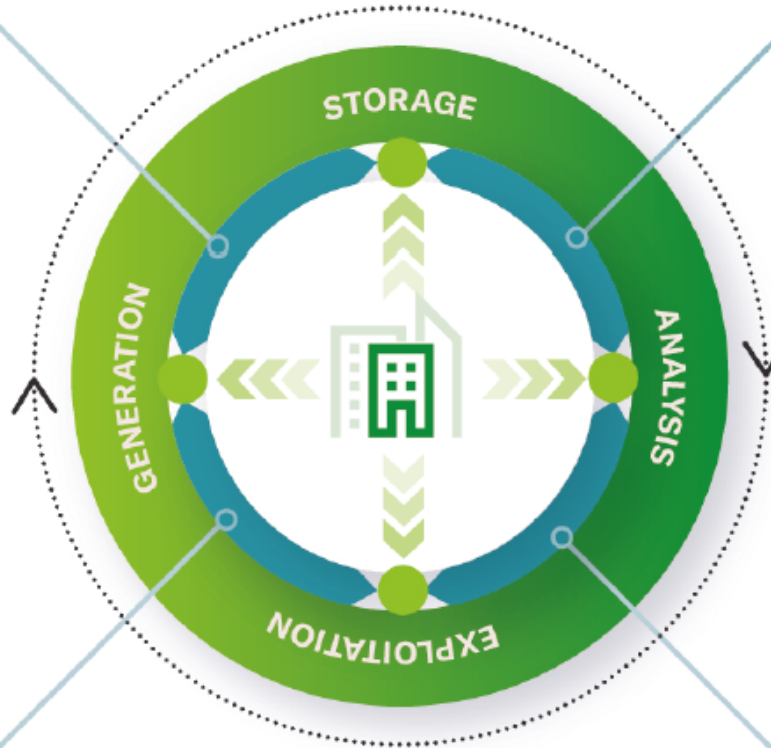
**Enhanced EPC schemes with SRI and sustainability indicators, generated from BIM models**

**Procedures and tools for large scale statistical analysis of EPC databases**

BIM models used to generate EPC to be used in future renovation projects

Identifying customers for building components and equipment in areas with a potential for renovation

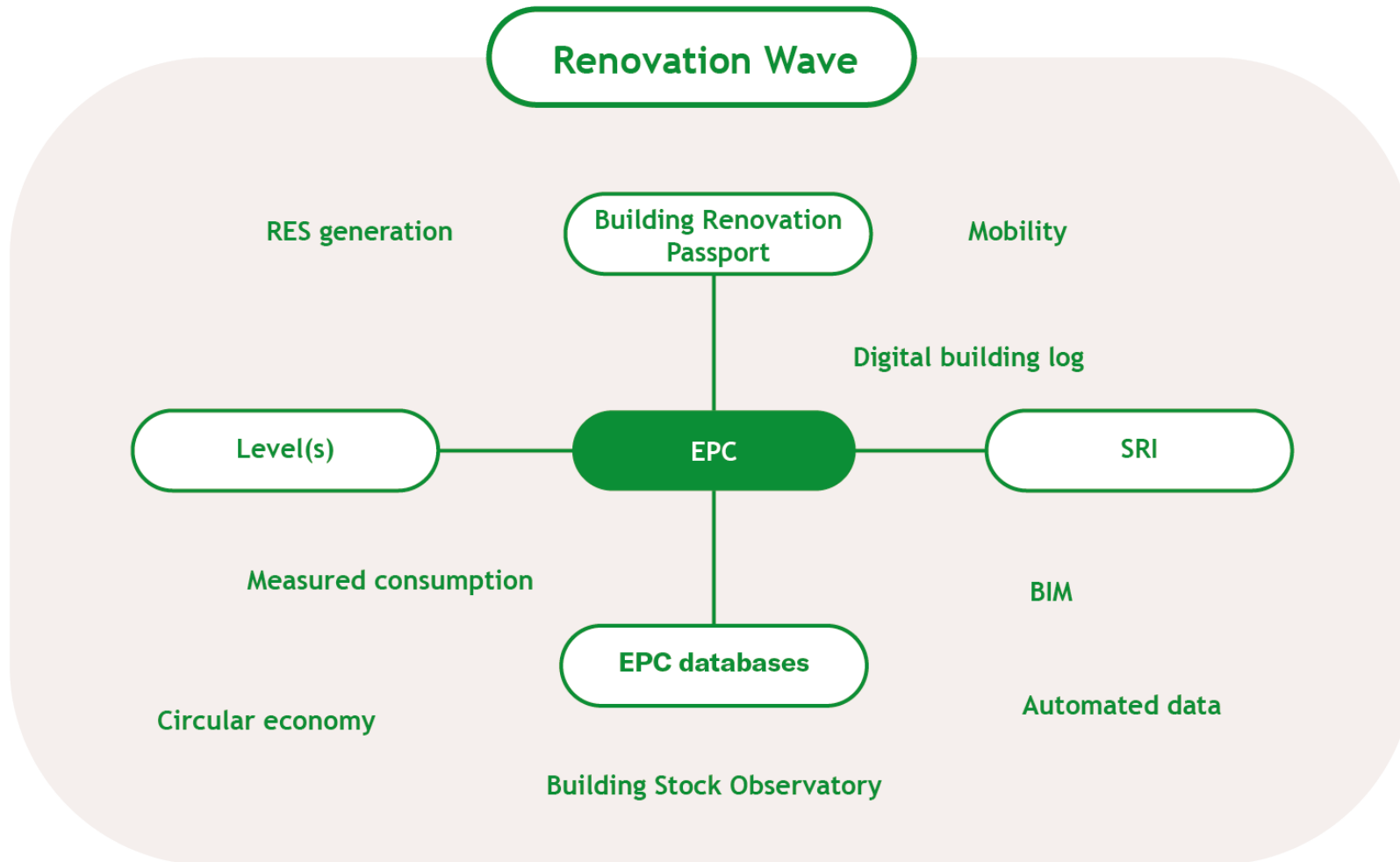
**New services for professional certifiers, ESCOs, consultants, building companies, to exploit EPC data in combination with other data sources**



# Specific objectives

- To increase the **quality and reliability** of EPC schemas
- To implement EPC schemas with **sustainability and smart readiness indicators**
- **To integrate EPC databases with other data sources** in order to improve the efficiency and reliability of EPCs
- **To increase awareness of the need to have EPC enhanced** with other data sources to foster the exploitation of EPC data
- To **provide training materials** including the new methods developed in TIMEPAC

# A new ecosystem for certification



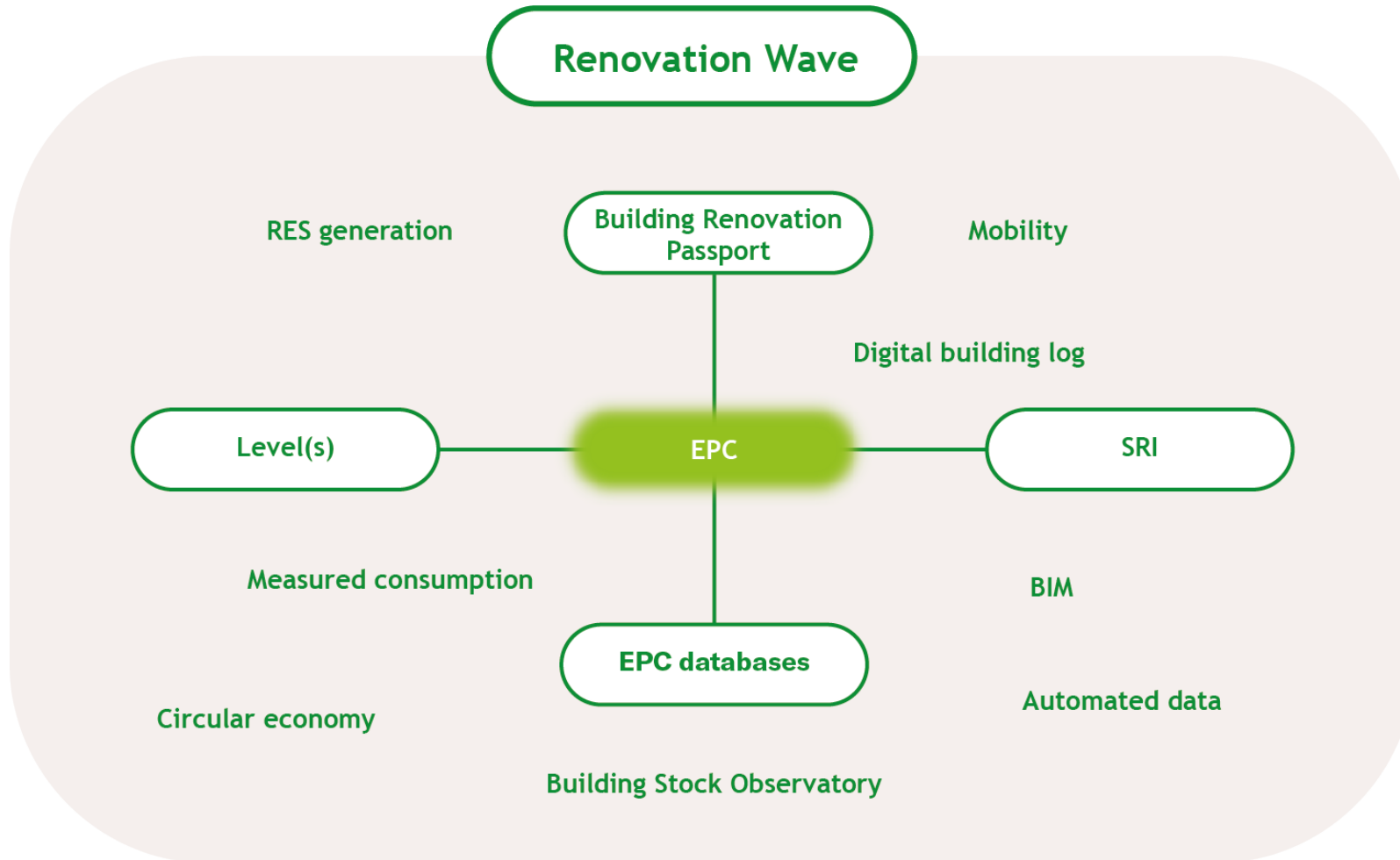
## Challenges:

\_ innovative approaches to building energy performance assessment -> integrating the different methods tools

\_ shared language of common standards to access information -> policies adapted to national contexts

\_ involvement of all stakeholders -> training

# A new ecosystem for certification



Open issues:

\_ how energy performance certificates will be in the new ecosystem?

\_ will they disappear in a network of data and a continuous data processing?

# **TIMEPAC Transversal Deployment Scenarios**

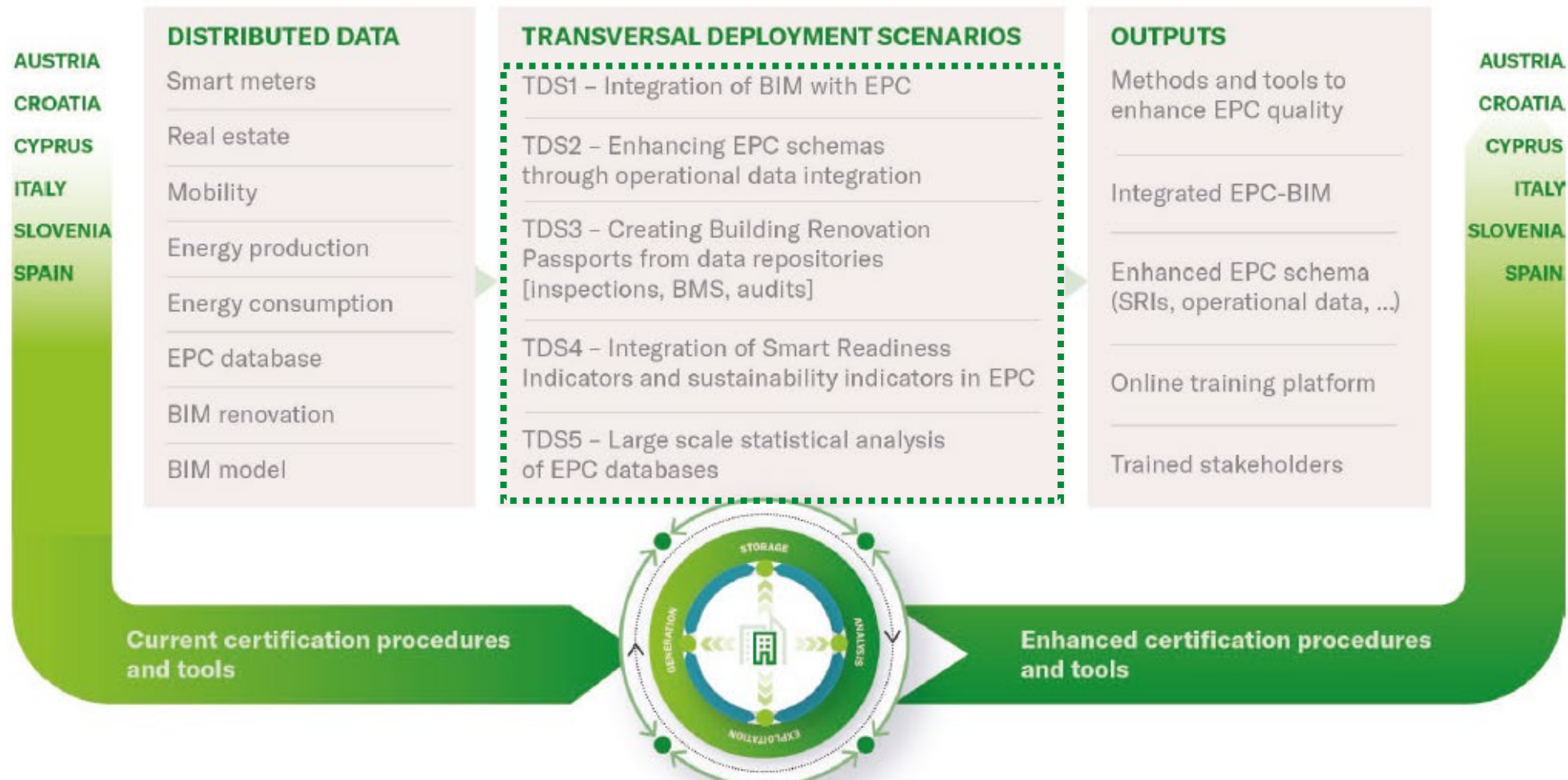
**How do we envision the future of EPCs?**

**Where do we currently stand,  
and how can we move towards those future scenarios?**



# Project concept

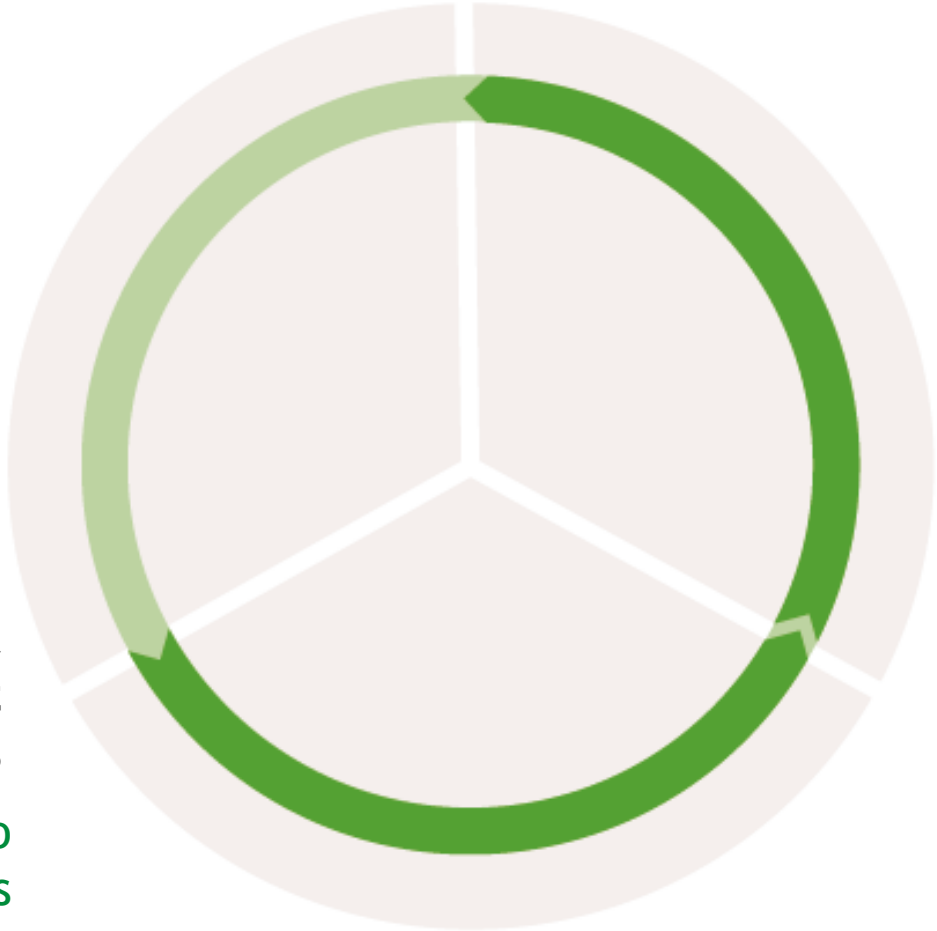
A holistic and dynamic approach to EPC in practice will be developed in five **Transversal Deployment Scenarios (TDSs)** with the participation of the partner organizations, at a **European scale**.



**From**  
**Transversal Deployment Scenarios**  
**To**  
**Verification Scenarios**  
**To**  
**Training Scenarios**

**Training  
Scenarios**

Train stakeholders involved in certification  
through the TIMEPAC Academy



**Transversal  
Deployment  
Scenarios**

Envisioning future scenarios to  
enhance EPCs

**Verification  
Scenarios**

Verify future scenarios with  
practitioners

**Training  
Scenarios**

Train stakeholders involved in certification  
through the TIMEPAC Academy

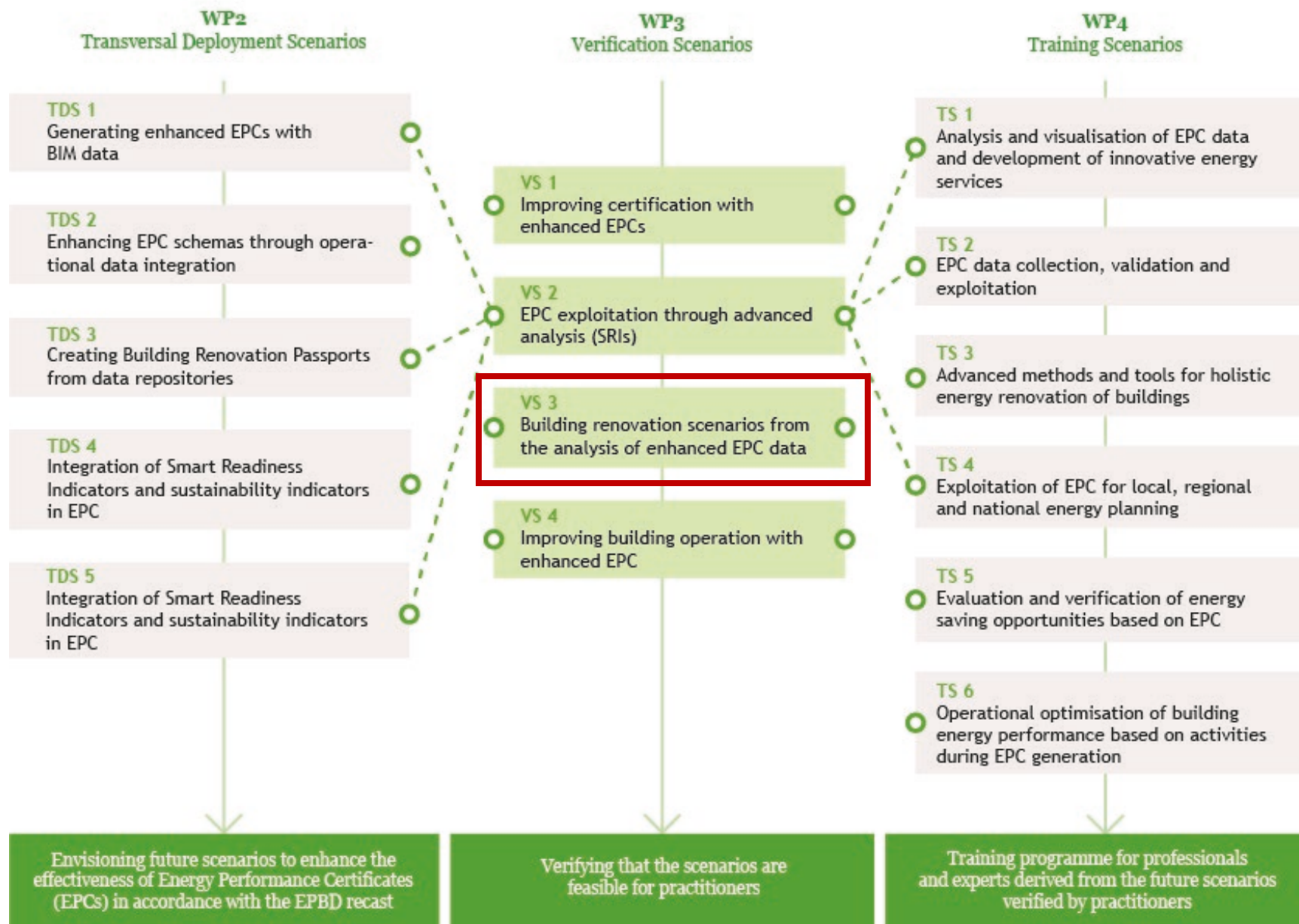


**Transversal  
Deployment  
Scenarios**

Envisioning future scenarios to  
enhance EPCs

**Verification  
Scenarios**

Verify future scenarios with  
practitioners



The present deliverable, D1.3, relates to the work performed in Task 1.3 of TIMEPAC. Task 1.3 is part of Work Package 1 (WP1), which is aimed at carrying out a comparative study of the elements involved in the energy performance certification (EPC) data flow devised in TIMEPAC,...

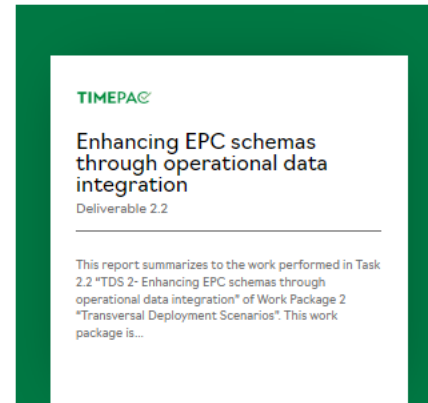
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This document contains the results of the work carried out in Task 1.4 "Exploitation of EPC data" of Work Package 1 "Context Analysis to Support EPC Workflow" of the TIMEPAC project. The objective of WP1 is to carry out a comparative study of the elements involved in...

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This report summarizes the work of Task 2.1 "TDS 1- Generating enhanced EPCs with BIM data", one of the five scenarios carried out in Work package 2 "Transversal Deployment Scenarios" (TDS). This work package is concerned with the creation of future scenarios with the aim...

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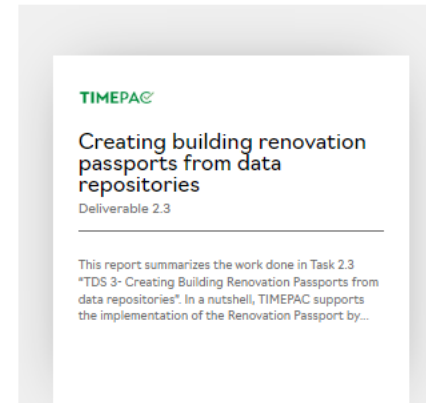
## Enhancing EPC schemas through operational data integration

Deliverable 2.2

Published November 16, 2023

This report summarizes to the work performed in Task 2.2 "TDS 2- Enhancing EPC schemas through operational data integration" of Work Package 2 "Transversal Deployment Scenarios". This work package is concerned with the creation of future scenarios with the aim of deploying and delivering new...

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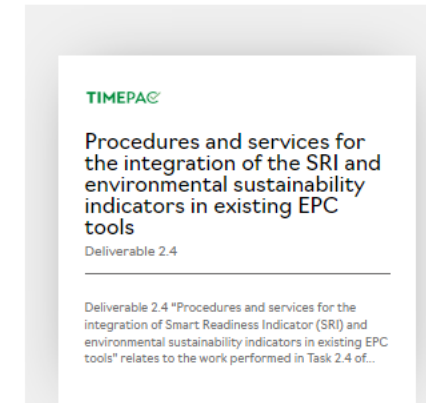
## Creating building renovation passports from data repositories

Deliverable 2.3

Published November 13, 2023

This report summarizes the work done in Task 2.3 "TDS 3- Creating Building Renovation Passports from data repositories". In a nutshell, TIMEPAC supports the implementation of the Renovation Passport by assessing renovation projects in the partner countries regarding procedures how to make use of data...

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## Procedures and services for the integration of the SRI and environmental sustainability indicators in existing EPC tools

Deliverable 2.4

Published November 16, 2023

Deliverable 2.4 "Procedures and services for the integration of Smart Readiness Indicator (SRI) and environmental sustainability indicators in existing EPC tools" relates to the work performed in Task 2.4 of the TIMEPAC project "Towards Innovative Methods for Energy Performance Assessment and Certification"

<https://timepac.eu/reports/>

## Verification Scenarios (ICAEN, November 17, 2023)

1. How BRP can contribute to the retrofiting of the building stock?
2. How enhanced EPCs (including BRP) and EPC databases can contribute to design and implement building retroffiting progammes over time?

Thanks for your attention!

**If you would like more information, please visit**  
**[www.timepac.eu](http://www.timepac.eu)**

**or contact us at [leandro.madrado@salle.url.edu](mailto:leandro.madrado@salle.url.edu)**