

laSalle

UNIVERSITAT RAMON LLULL

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TIMEPAC 

TIMEPAC vision

Leandro Madrazo (Project Coordinator)

La Salle - Universitat Ramon Llull (FUNITEC)

TIMEPAC International Workshop Vienna, 21 November 2023

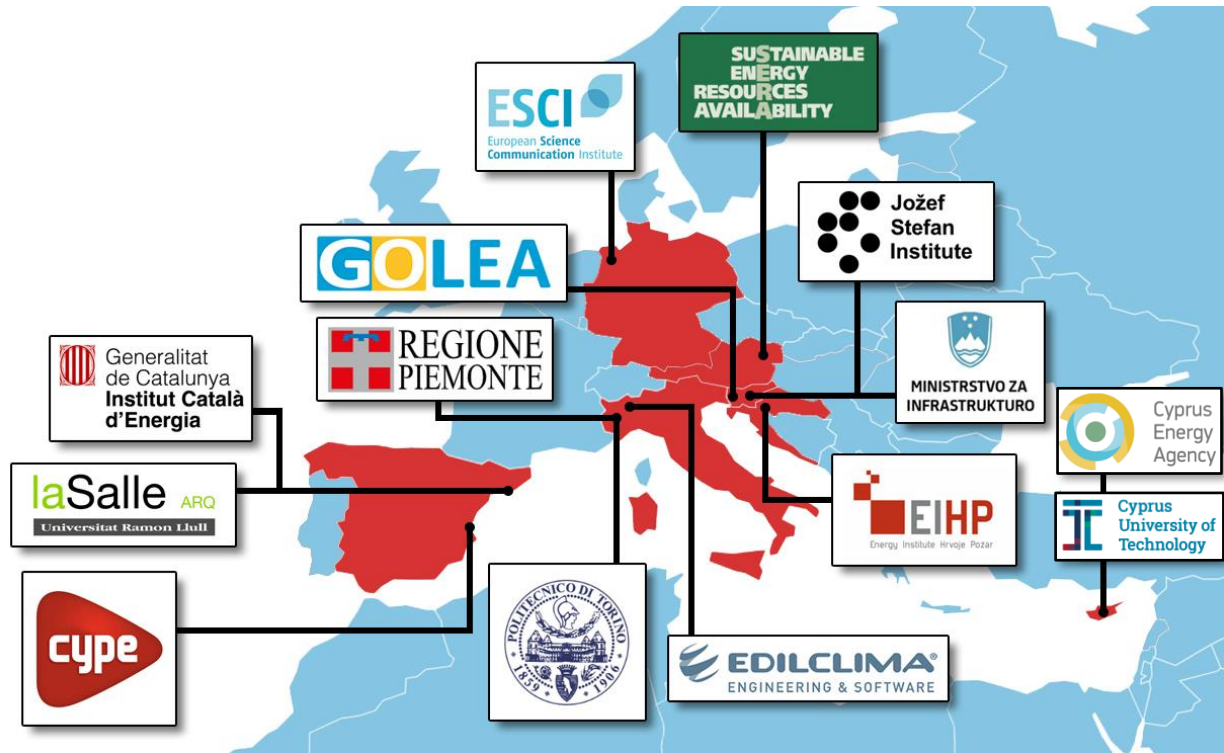
TIMEPAC International Workshops



- **Vienna**
21 November 2023
- **Torino**
30 November 2022
- **Ljubljana**
14 December 2021 (online)
- **Barcelona**
31 January-1 February 2019

Consortium

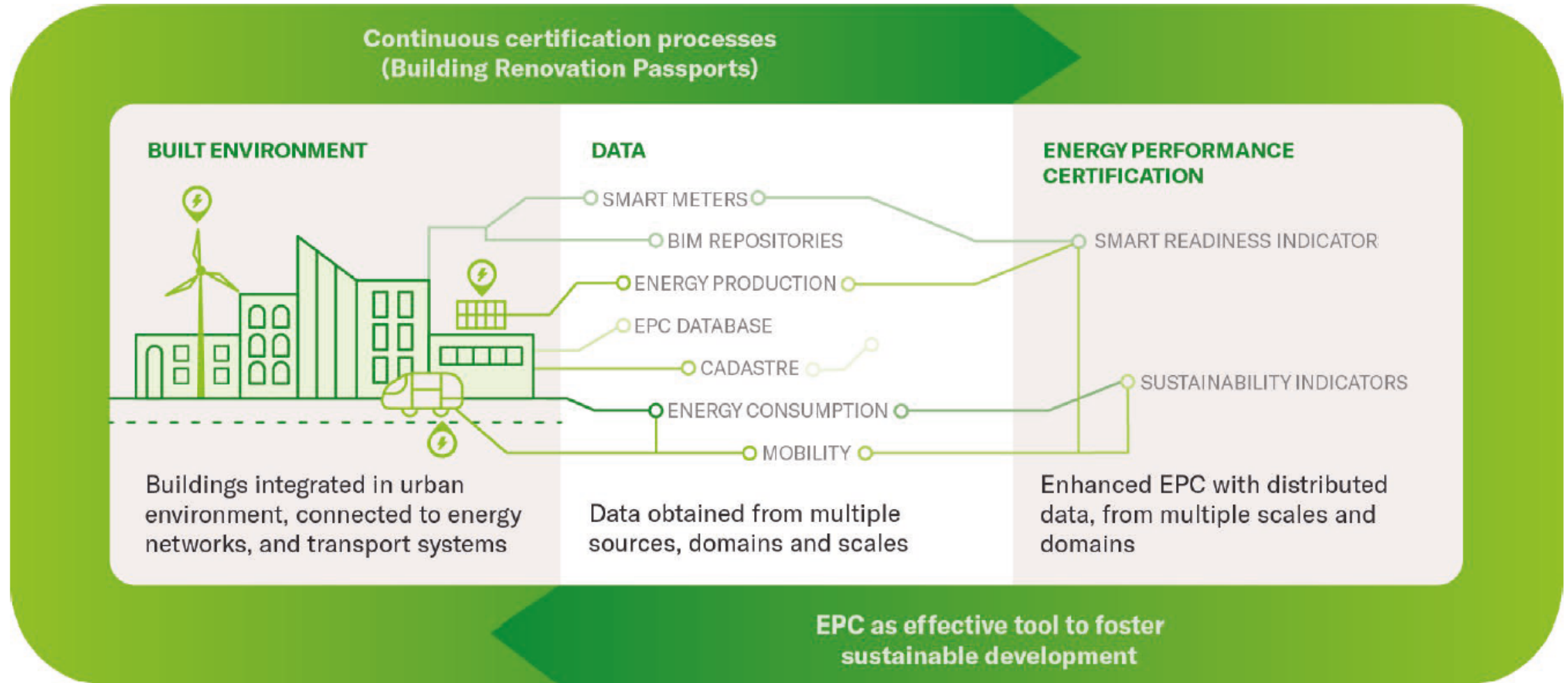
14 partners from 7 EU countries (Austria, Croatia, Cyprus, Germany, Italy, Slovenia, and Spain)



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

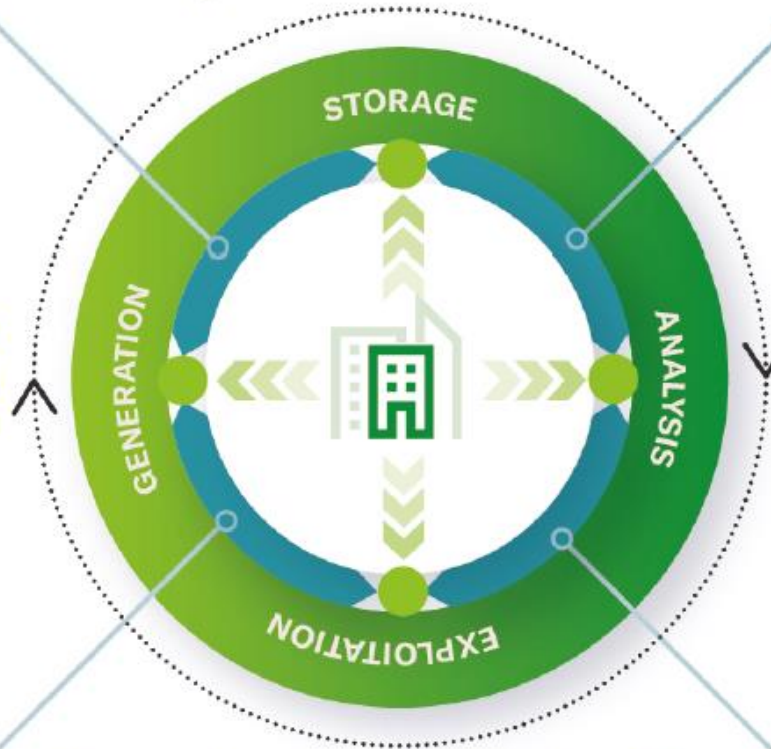
Enhanced EPC schemes with SRI and sustainability indicators, generated from BIM models

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

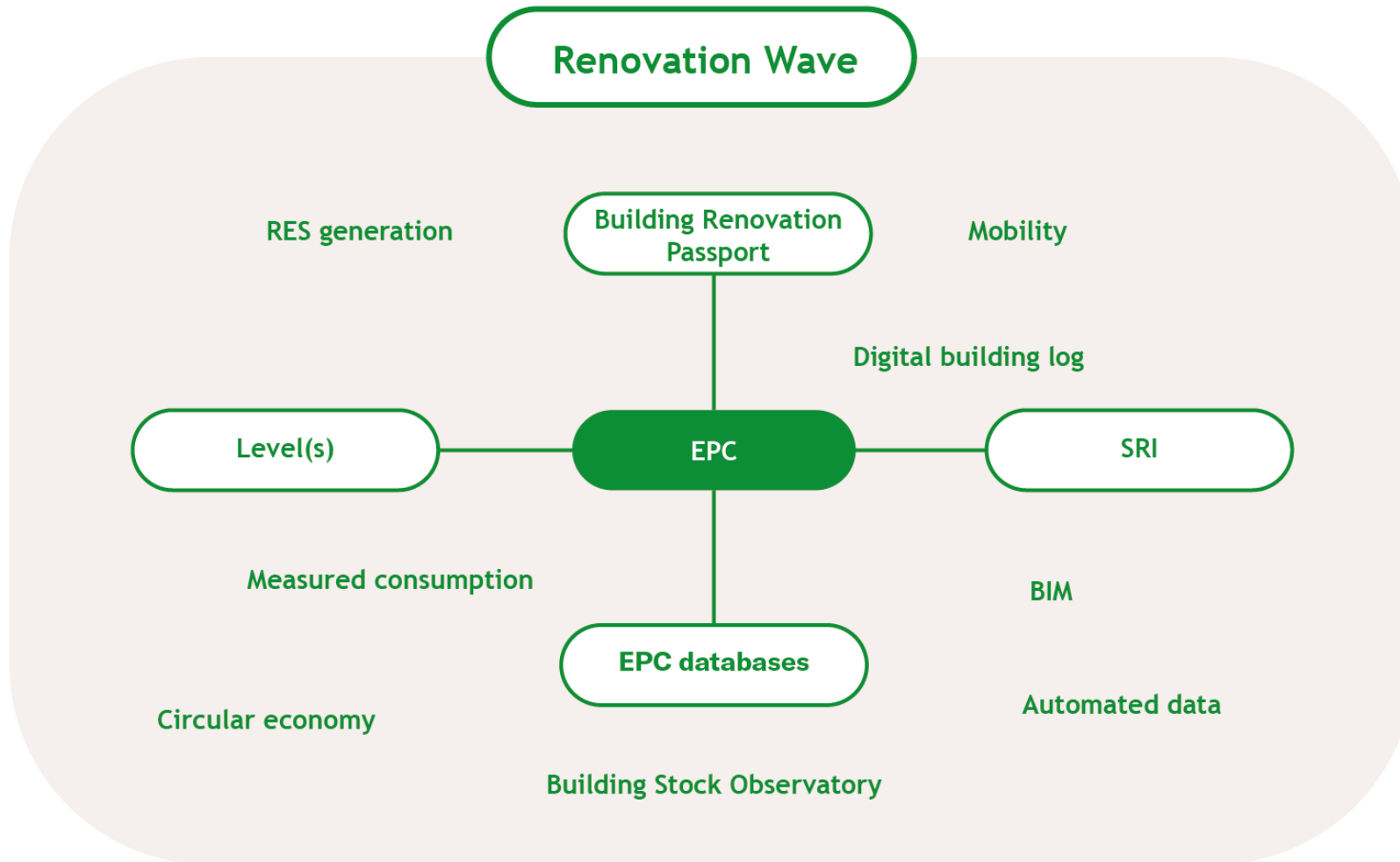


Specific objectives

TIMEPAC is a cooperation and support action (CSA) which will contribute:

- To improve the **quality and reliability** of EPCs
- To enhance EPC with **sustainability and smart readiness indicators**
- To integrate **EPC databases with other data sources** to improve the efficiency and reliability of EPCs
- To increase **awareness of the need to have EPC enhanced** with other data sources to contribute to the decarbonisation of the building stock
- To **train the next generation of certifiers** based on the vision established in TIMEPAC

A new ecosystem for certification



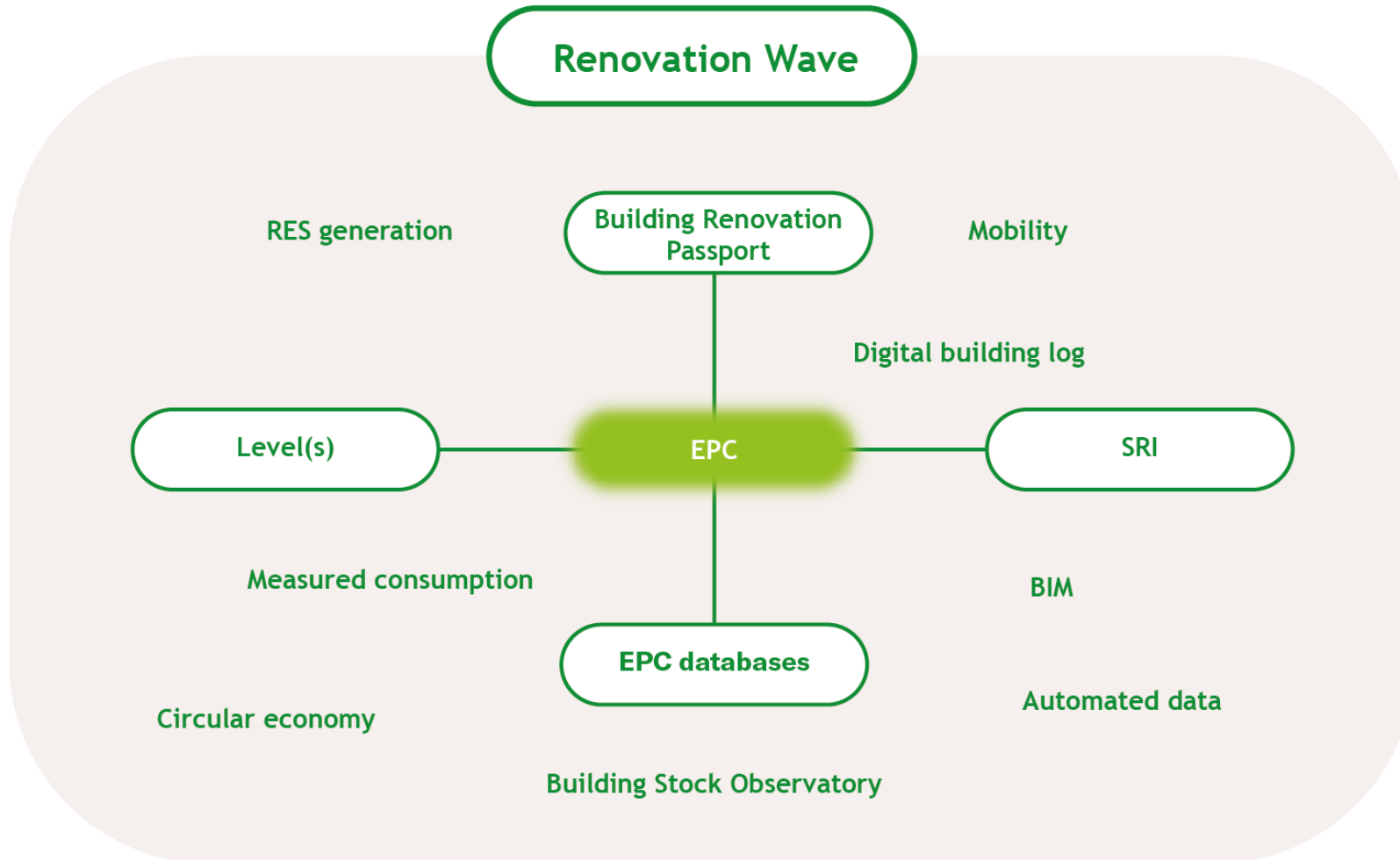
Challenges:

_ 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



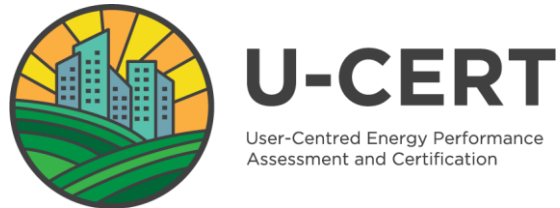
Issues:

_ what energy performance certificates will become in the new ecosystem?

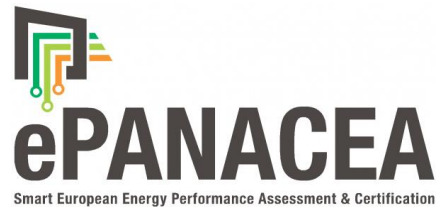
_ will EPCs dissolve in a network of interrelated data and data processing?

NextGenEPCerts cluster

2019



2020



2021



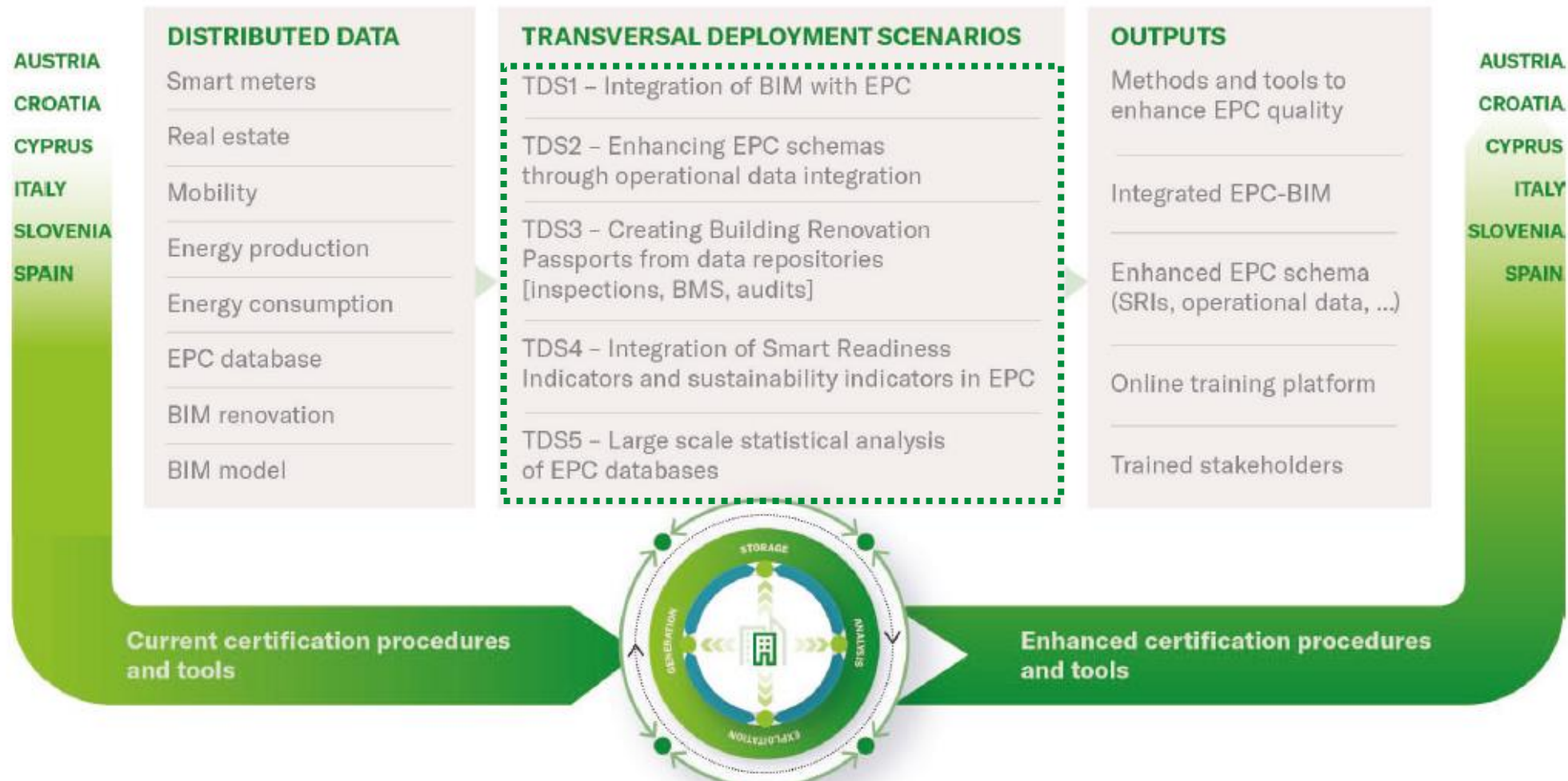
2022



Participation of sister projects in TIMEPAC events - inputs from other projects used in TIMEPAC

Project concept

A comprehensive approach to the use of enhanced EPCs in the future developed in **five Transversal Deployment Scenarios (TDSs)** with the participation of the partner organizations, at a **European scale**.



Transversal Deployment Scenarios (reports)



Generating enhanced EPCs with BIM data

Deliverable 2.1

📅 Published November 16, 2023

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...

[Read more >](#)

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...

[Read more >](#)

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...

[Read more >](#)

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". Task 2.4 is...

[Read more >](#)

Procedures and services to undertake large-scale statistical analysis of EPCs databases

Deliverable 2.5

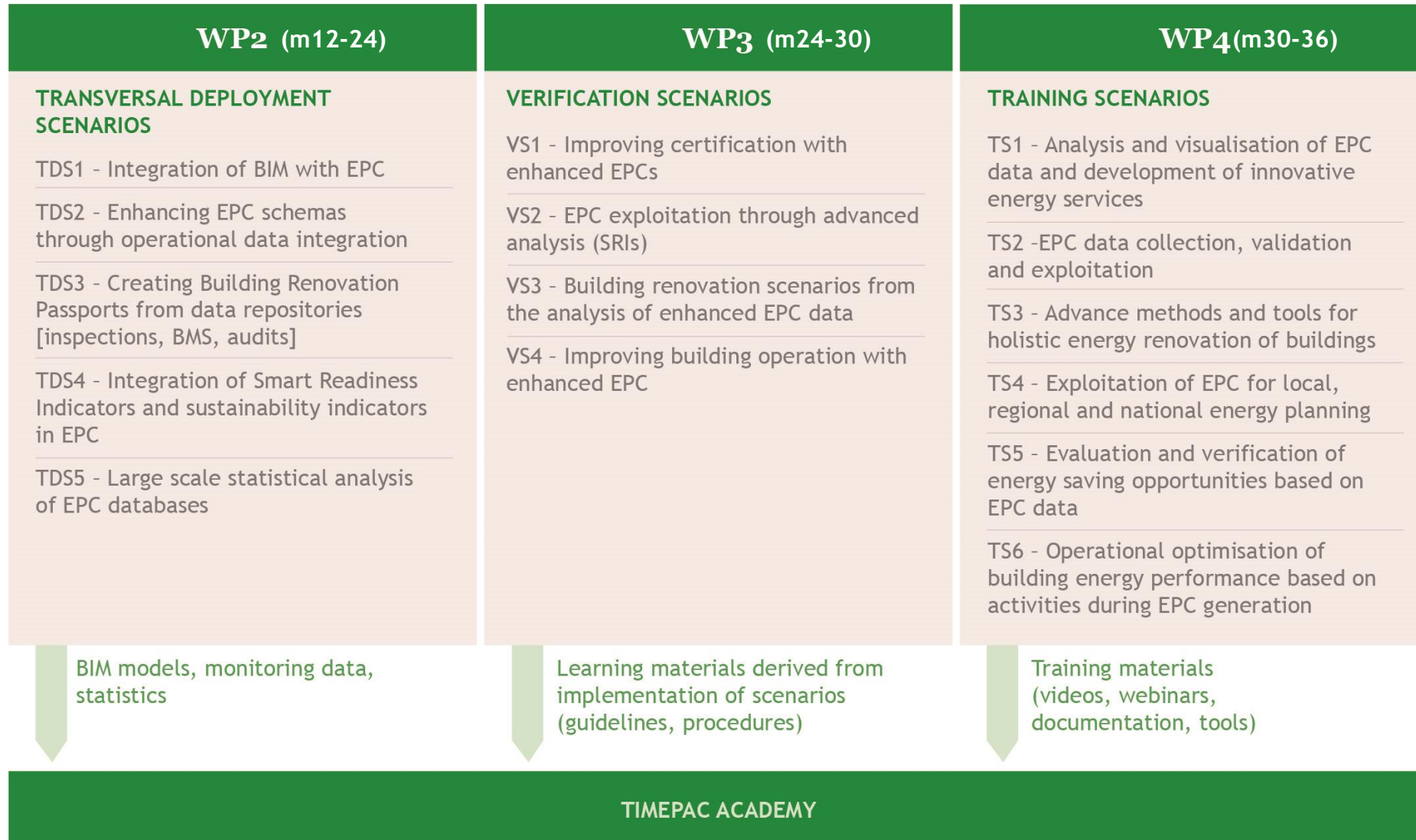
📅 Published November 16, 2023

This report summarizes to the work performed in Task 2.5 "TDS 5 - Large scale statistical analysis of EPC databases" 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...

[Read more >](#)

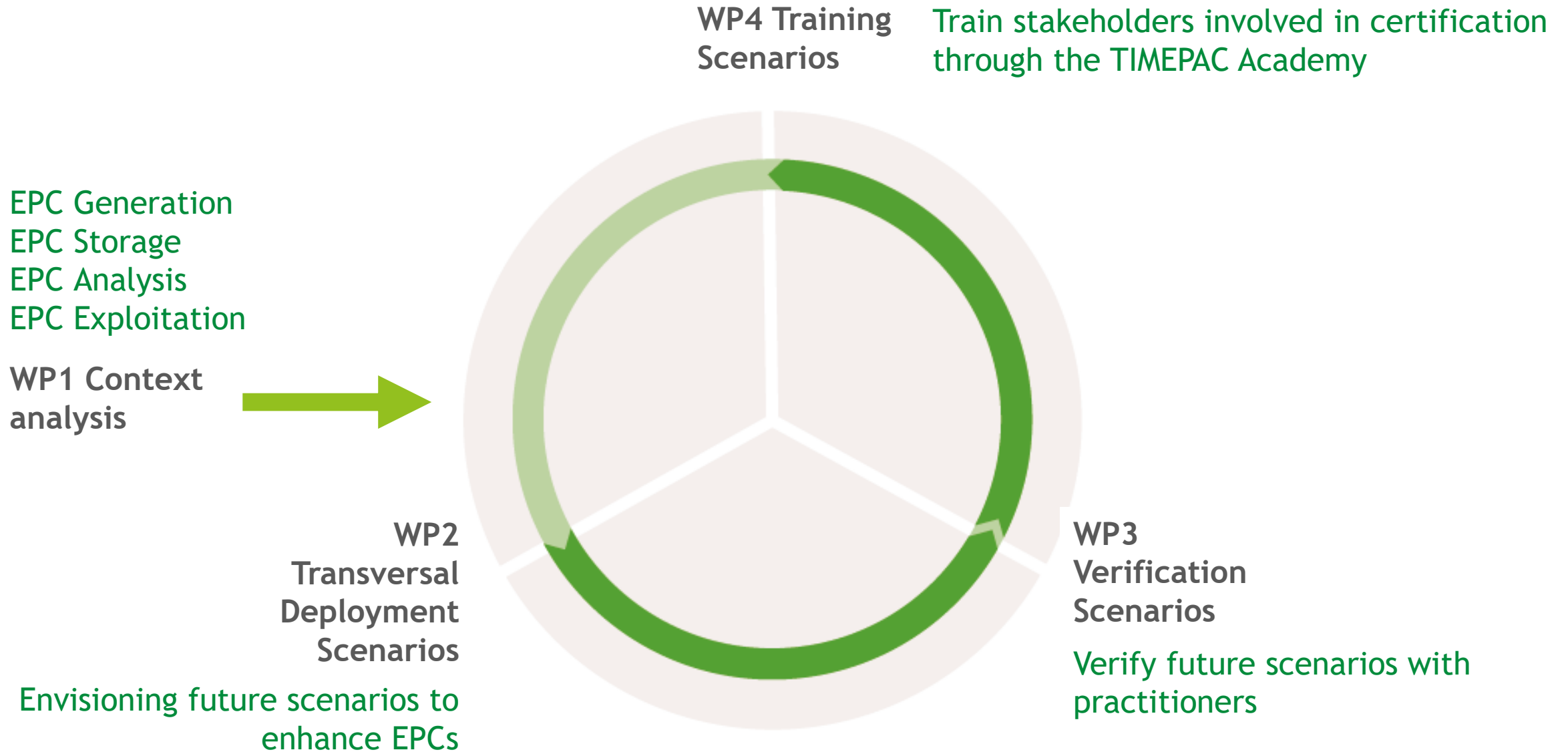
<https://timepac.eu/reports/>

Three intertwined scenarios

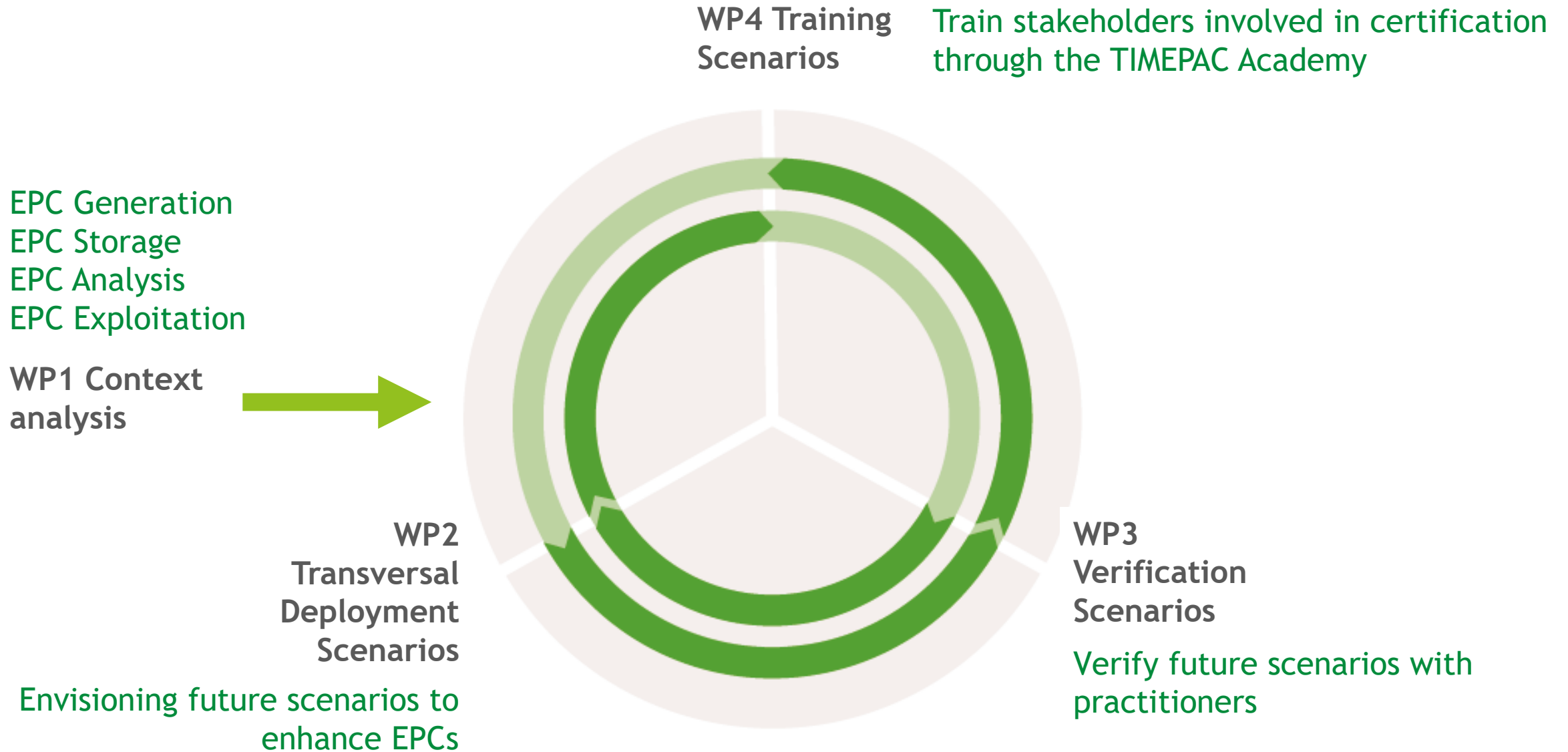


Target users: certifiers, energy consultants, building managers, residents, real estate

Envisioning – verifying – training



Envisioning – verifying – training



TIMEPAC Survey

Save a backup on your local computer (disable if you are using a public/shared computer)

Getting ready for the building renovation wave

Fields marked with * are mandatory.

Disclaimer

The European Commission is not responsible for the content of questionnaires created using the EUSurvey service - it remains the sole responsibility of the form creator and manager. The use of EUSurvey service does not imply a recommendation or endorsement, by the European Commission, of the views expressed within them.

Pages

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GETTING READY FOR THE BUILDING RENOVATION WAVE

TIMEPAC – The new EPC for Europe

Help us define the next generation of building certification tools, methods and training needed to support the renovation stock!

The **European Green Deal**, aims to achieve carbon neutrality by 2050 and building renovation is a top priority. The revised **Buildings Directive (EPBD)**, aims to establish minimum energy performance standards and includes tools such as incentives to incentivise the private sector to upgrade the building stock.

Energy Performance Certificates (EPCs) can be an effective tool for identifying which buildings need to be renovated and taken. However, to make EPCs more effective, it is necessary to improve them through the use of more reliable data, such as energy audits and performance, and better calculation and simulation tools, such as Building Information Modelling (BIM). Current certificates are incorporating a Smart Readiness Indicator (SRI) and sustainability indicators such as Level(s).

TIMEPAC is an EU funded project focused on enhancing the energy certification process and developing a new set of standards and proposed revisions of the EPBD.

Through this **10-minute questionnaire** you can help us identify any obstacles or barriers in the implementation of new EPCs under the revised directive.

TIMEPAC
The new EPC for Europe

Views

Standard [Accessibility Mode](#)

Languages

English

HAVE YOUR SAY

on the future of building certification and renovation!

Take our 10-minute survey!



Calling all building experts:

Have your say on the future of building certification and renovation with the TIMEPAC Survey

Take the survey

Follow the results

Results of TIMEPAC survey

Discover detailed results

1 500+
Respondants

from 6
Countries

84 %
building
professionals

10 %
public authorities

23 %
know what
an SRI is

26 %
know what
BRP are

84 %
know what
a BIM is

TIMEPAC Academy

TIMEPAC Academy training programme

About Lecturers EN

TIMEPAC Academy

The TIMEPAC Academy will provide an online platform with materials and courses developed around six core themes tailored to specific target users including: professional certifiers, energy auditors, energy agencies, ESCOs, architects, building managers, owners, tenants, and local/ regional/ national administration bodies

Training programme

Coming

15 Oct. 2023

Teams Online

ENG | CAT

Combining EPC databases with other sources for energy savings opportunities

This course aims to equip participants with the necessary skills to effectively utilize EPC databases and apply their knowledge to building renovation and...

Organize: ICAEN, La Salle

6 sessions
Professional certifiers, municipalities, energy agencies

View more →

26 Nov.-31 Mar. 2023

Sant Joan de la Salle 42, Barcelona (Spain) Presential

ENG | CAT

Combining EPC databases with other sources for energy savings opportunities

This course aims to equip participants with the necessary skills to effectively utilize EPC databases and apply their knowledge to building renovation and...

Organize: ICAEN, La Salle

6 sessions
Professional certifiers, municipalities, energy agencies

View more →

Certified course

TIMEPAC Academy training programme

About Lecturers EN alvaro.sicilia@salle.url.es

Home → Combining EPC databases with other sources for energy savings opportunities

Combining EPC databases with other sources for energy savings opportunities

Date
15 Oct. 2023

Sessions
6 sessions

Organizer
ICAEN, La Salle

Place
Teams

Sign up →

This course aims to equip participants with the necessary skills to effectively utilize EPC databases and apply their knowledge to building renovation and policy development work. The lectures cover various topics related to EPC databases, including database auditing to identify limitations and obstacles to the adoption of new EPC schemes, the use of open data portals to retrieve and analyse EPC data, and the quality assessment of EPC databases to ensure their accuracy. Additionally, the course highlights the use of EPC data in combination with socio-economic, cadastre, and other data sources to assess the current status of an urban area and its potential for renovation. The lectures also cover the planning and evaluation of the impact of different renovation scenarios based on multiple criteria, such as energy savings, CO2 emissions reduction, cost-effectiveness, and social acceptance. Attendees will gain a deeper understanding of how to combine EPC databases with other data sources to identify energy savings opportunities in buildings and promote energy efficiency. During the course, participants will engage in various exercises to deepen their understanding of the use of EPC databases for building renovation and policy development. Through these exercises, participants will compare the current EPC with the enhanced EPC and identify the differences; consult an EPC database and assess the quality of the data it contains; extract data from the database and combine it with other sources; identify areas in a city that are...

Lectures

Challenges of the new energy performance of buildings directive

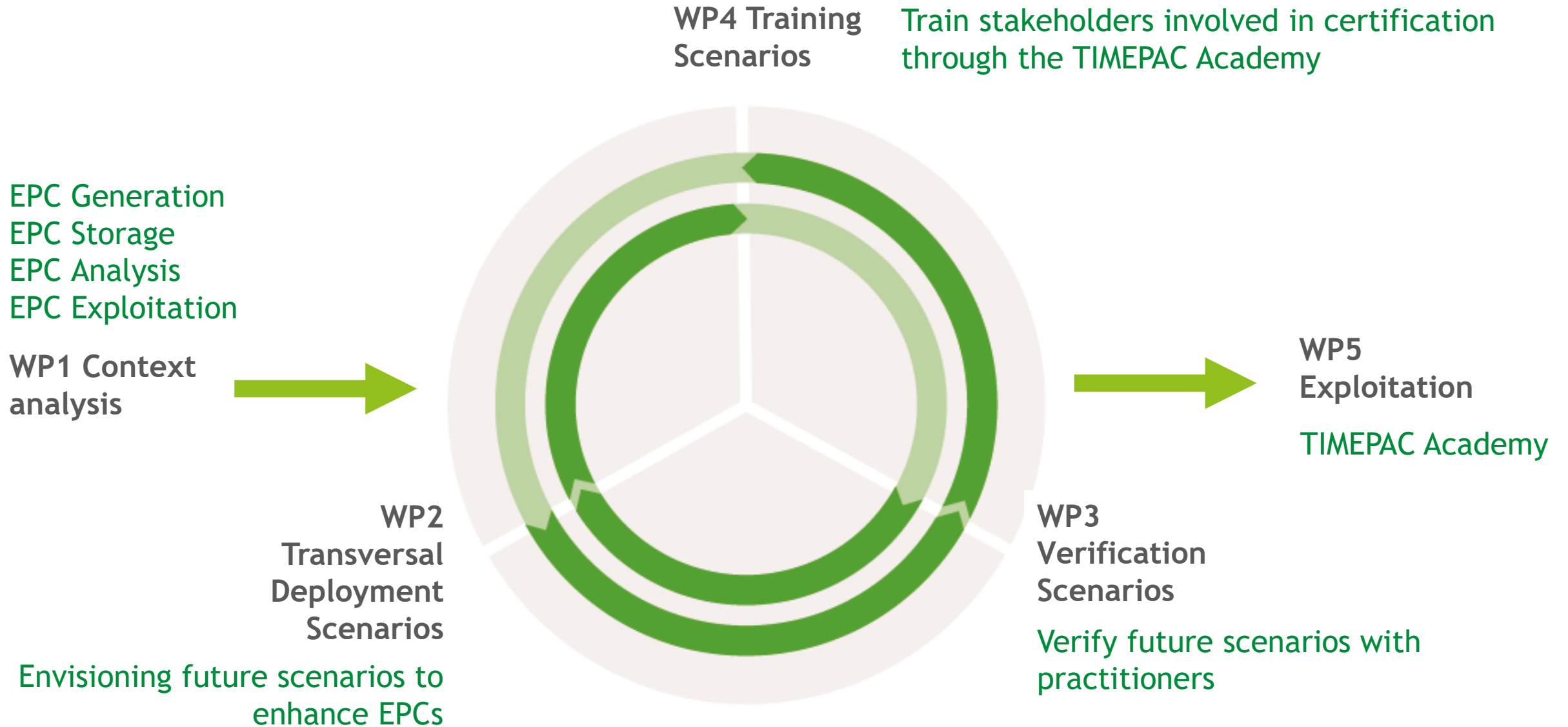
CA Directive (EPBD), a crucial part of the EU "Fit for 55" package, which aims to achieve a zero-emission building stock by 2050. The Climate Action Plan has identified the EPBD as a key legislative instrument to deliver on the 2030 and 2050 decarbonization objectives. Starting in 2030, all new buildings will be required to be zero-emission. To achieve this, the Global Warming Potential (GWP) of buildings must be evaluated by calculating their total emissions throughout their lifecycle, following the

Lecturer: Ainoha Mata

Lecture materials

Video
New rules on energy performance for buildings: shaped by your views
Lorem Ipsum is simply dummy text of the printing...

Envisioning – verifying – training



Next steps

- **Finalizing implementation of verification scenarios**, and further dissemination of results among stakeholders involved in certification
- **Implementation of training scenarios**, by the partner organisations online and onsite
- **Final exploitation plan**, to assure the consolidation and maintenance of the TIMEPAC Academy
- **Final TIMEPAC conference**, Barcelona

Thanks for your attention!

If you would like more information, please visit
www.timepac.eu

or contact us at leandro.madrado@salle.url.edu