

TIMEPAC Academy

Session 1 TIMEPAC vision and motivation

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Our common challenge

- **Reduction of energy consumption in buildings** is a vital element in the long-term transition **towards carbon-neutral society**
- The EU has identified buildings as **being the most promising target for improving energy efficiency** and has quantified a significant energy-saving potential associated with infrastructure and equipment investments
- Challenge - What can we do **to promote greater adoption of new and efficient technologies** in buildings?

The story about TIMEPAC

- The story about TIMEPAC started in 2019 with the first TIMEPAC Workshop organized in Barcelona
- Speakers from EASME, Austria, Croatia, Germany, Italy, Portugal, Slovenia, Spain and United Kingdom
- 10 different EU funded projects presented, 20 different presentations - the applicability of the TIMEPAC idea has been confirmed and the core of future TIMEPAC group has been created
- TIMEPAC is H2020 project which officially started in July 2021 - it is Coordination and Support Action

TIMEPAC, it is all about data and the circle

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

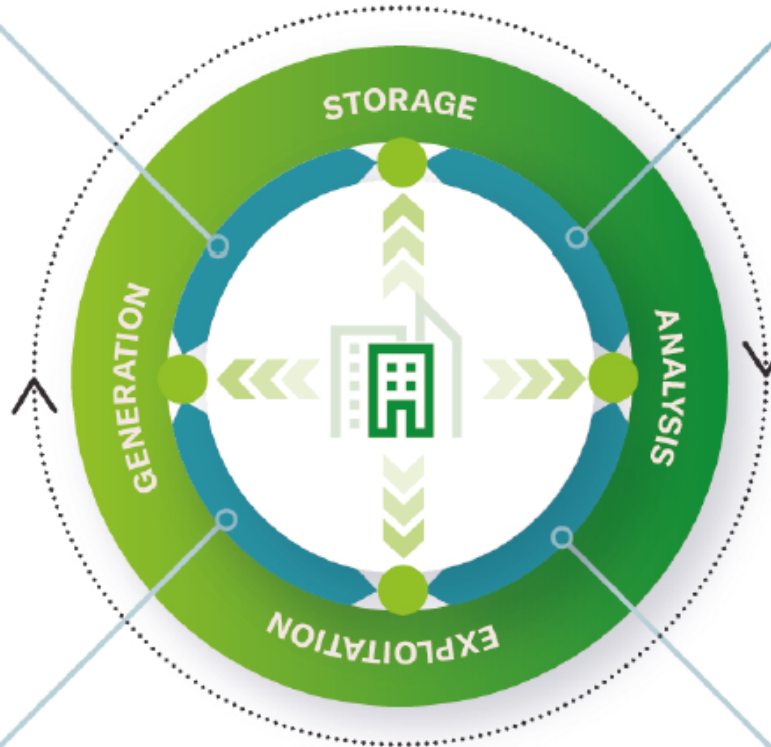
Enhanced EPC schemes with SRI and sustainability indicators, generated from BIM models

Procedures and tools for large scale statistical analysis of EPC databases

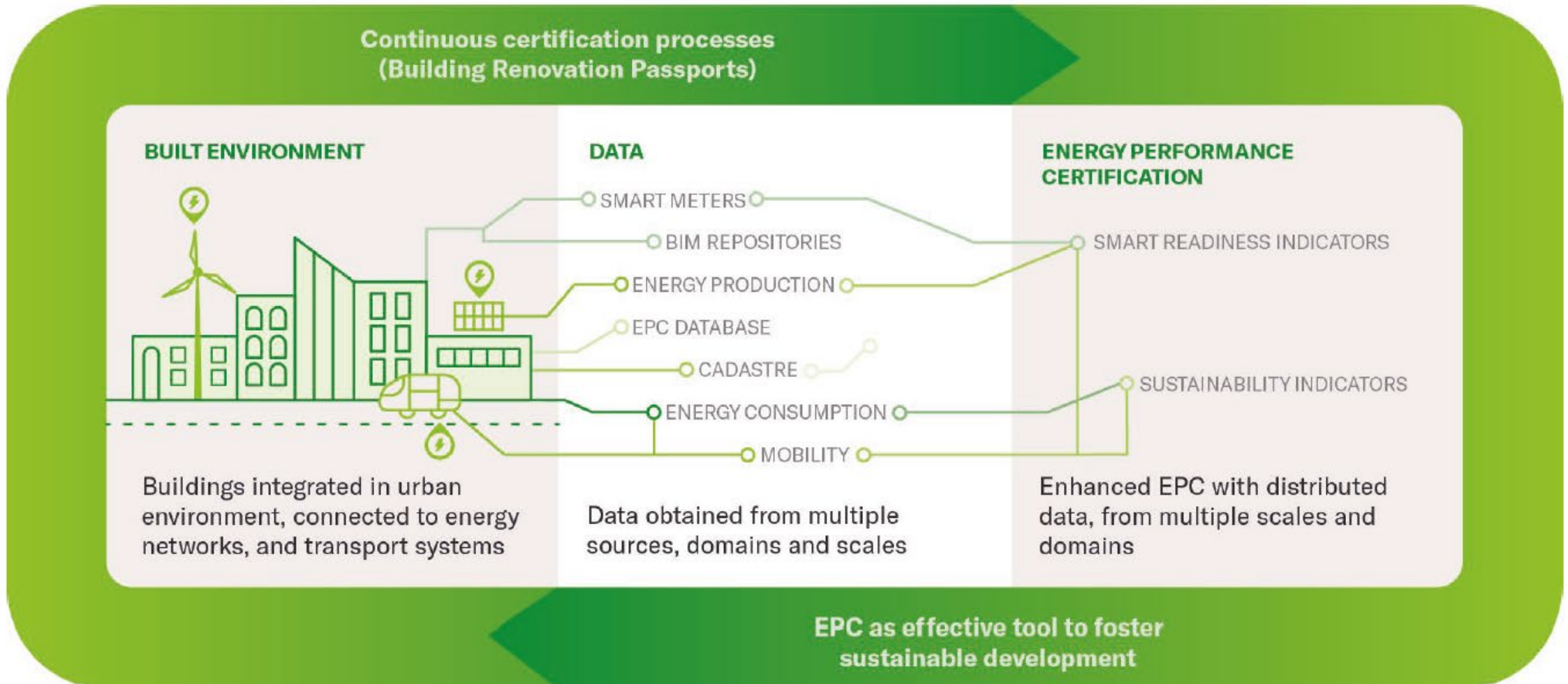
BIM models used to generate EPC to be used in future renovation projects

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



A holistic approach to EPC



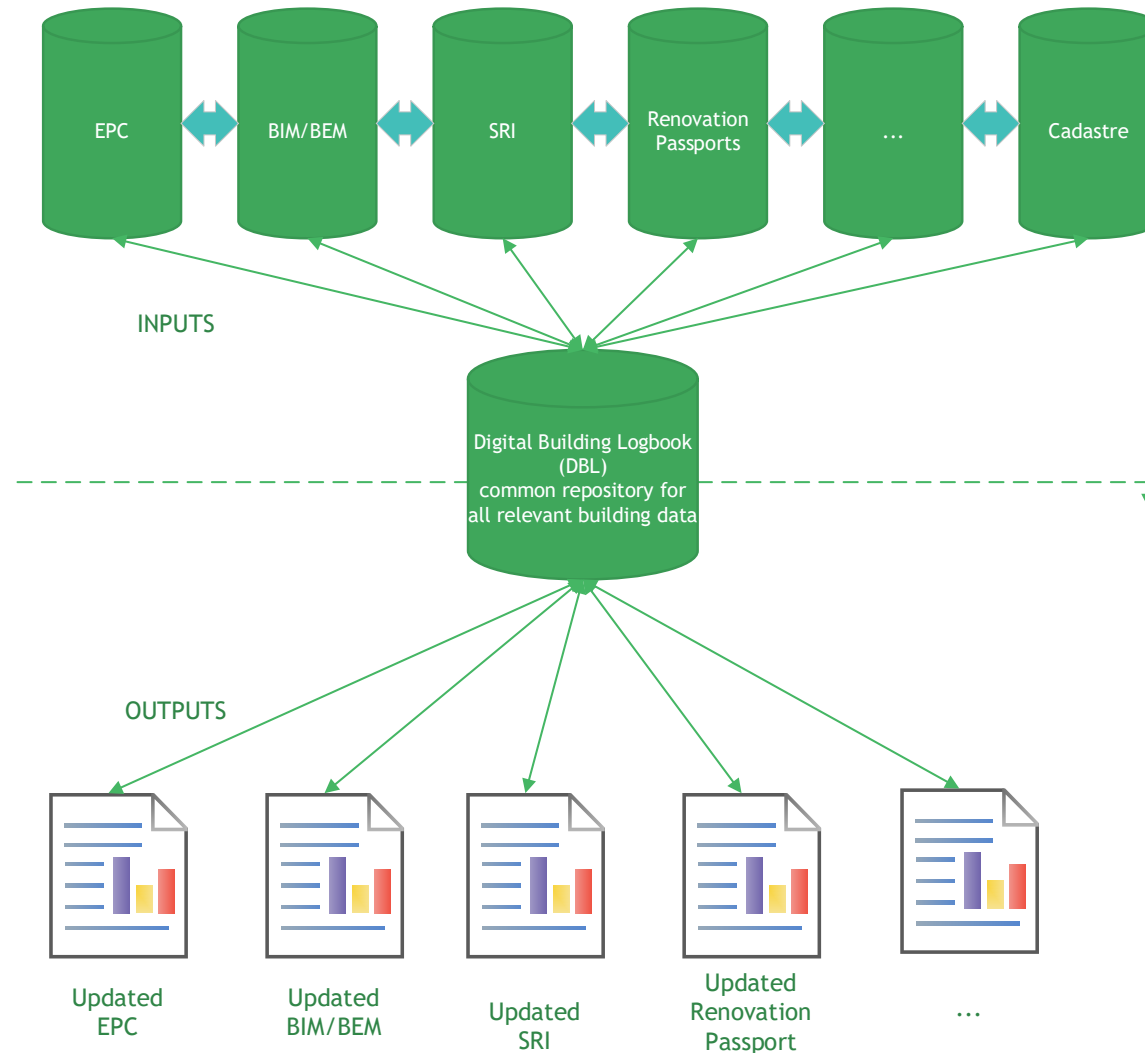
TIMEPAC vision and motivation (1/2)

- **Data integration from various sources** for more effective EPCs, by considering the **building as a whole**
- EPC enhancement with a Smart Readiness Indicator and other indicators to accelerate the **creation of reliable smart and sustainable renovation action plans**

**Implementation of
advanced projects!**



TIMEPAC vision and motivation (2/2)



Implementation challenges

- How to ensure **better EPC comparability among Member States?**
- How to **incorporate the positive elements** of all the identified tools and approaches without making the EPC-generation process **too complex and costly for the final users?**
- How to **include energy-consumption data and targeted specific energy-saving measures** identified by other tools and approaches (for example, from an energy audit or technical inspection reports) into the enhanced EPC?

Implementation approach – future enhanced EPC

- Copy-paste planning - the most frequent mistake!
- The energy performance certification is **the first step in the improvement of energy performance** - our entry point and unique opportunity
- A common procedure and data repository for all relevant buildings data + proper understanding of context of energy use + common set of key performance indicators = **enhanced EPC** (better energy efficiency culture)
- **Training activities and learning materials** for EPC experts, building operators, and energy service providers to use the enhanced EPC schemas = **TIMEPAC Academy**

**If you would like more information,
please visit www.timepac.eu or contact us at
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Thanks for your attention!