



## IEA Technology Collaboration Programmes: **PVPS Task 15 'Enabling Framework for the Development of BIPV'**

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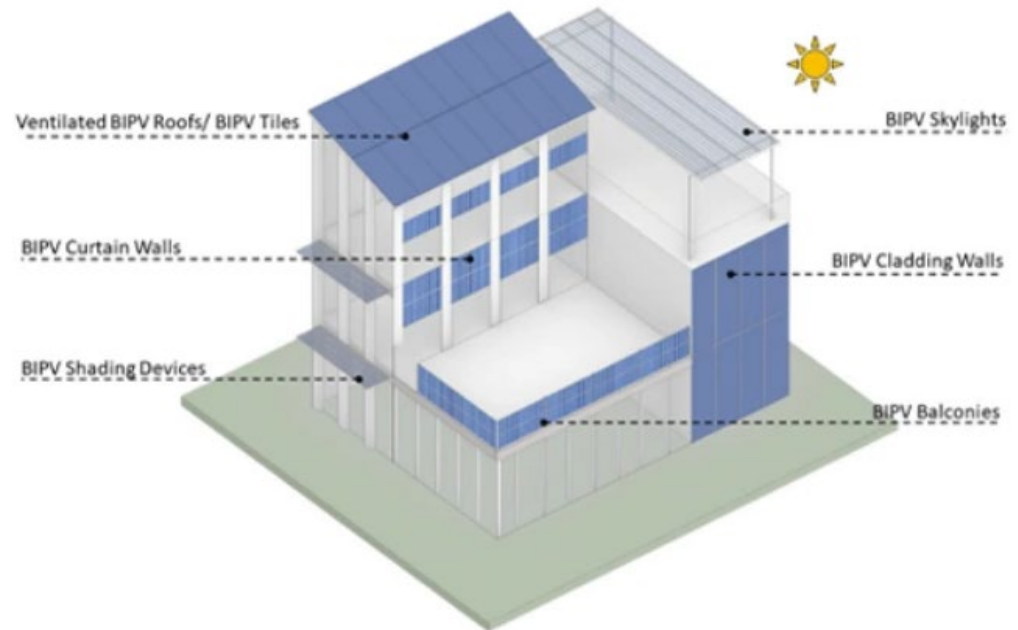
Dr. Gabriele Eder, OFI, Senior Researcher;

# Agenda



- Overview IEA PVPS Task 15
- Challenges and opportunities of BIPV in a decarbonized and circular economy

## Applications of BIPV



Source: The University of Applied Sciences and Arts of Southern Switzerland (SUPSI)

# IEA PVPS T15: ~10 years of collaborative research

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## Enabling Framework for the Development of BIPV

### Objective:

- Create an enabling framework to **accelerate the penetration of BIPV** products in the global market of renewables.
- Resulting in an equal playing field for BIPV products, BAPV products and regular building envelope components.
- Respecting multifunctional aspects, mandatory issues, regulatory issues, aesthetic issues, reliability and financial issues.

# Task 15 is structured into 5 subtasks

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**A: Challenges and opportunities of BIPV in a de-carbonised and circular economy**

B: BIPV characterization & performance: pre-normative international research

**C: BIPV in the digital environment**

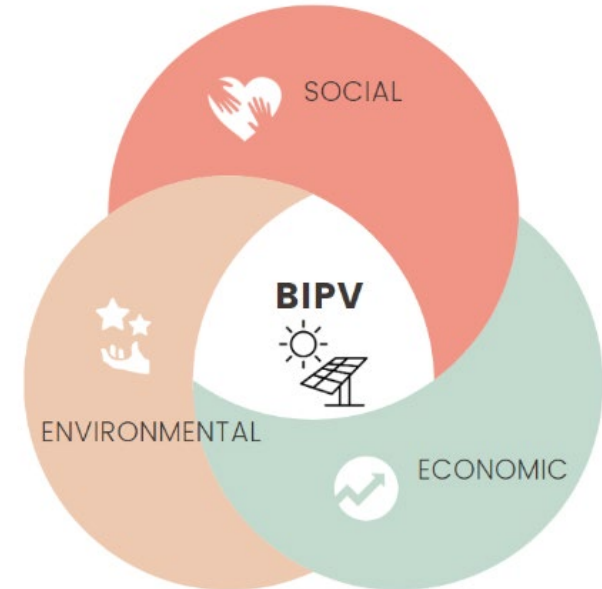
D: BIPV products, projects and demos: innovation and long-term behavior

**E: BIPV training, dissemination and stakeholders' collaboration**

# STA: challenges and opportunities of BIPV in a decarbonised and circular economy



- Provide a comprehensive understanding of the **state of the BIPV market status**, its trends and **potential in different countries**, discussing opportunities for BIPV deployment. (A1)
- Define and clarify the **role of BIPV in net Zero Energy Buildings (nZEB) targets and other sustainability labels**, discussing the appropriate methods to assess its contribution. (A2)
- Evaluate the **social impact of BIPV** using a Social Impact Assessment (SIA) methodology. (A3)



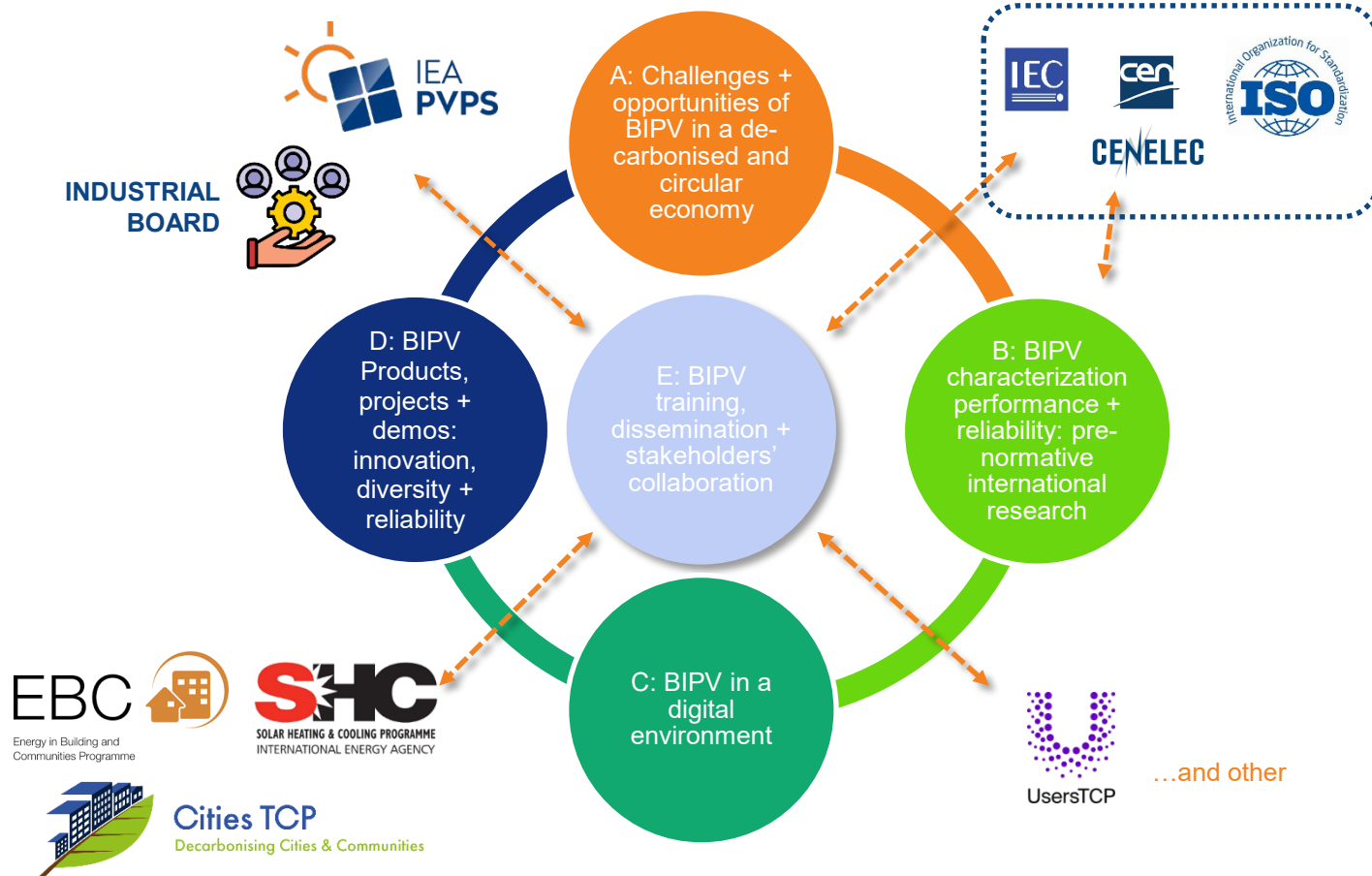
# How to bring it to regular project as opportunity for architects and building owners/investors?

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- Only in Eu 35 million buildings to be renovated in the next decade with an estimated total investment need of Euro 900 billion
- Other countries worldwide have similar policies as the EU Green Deal or Renovation Wave
- As the demand for sustainable (i.e. ZeroCarbon, nZEB) buildings increases, research and development in BIPV technologies can lead to cost reductions, improved performance, and increased market adoption.

# Sub-Tasks: collaboration with external partners



**Thank you !**

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