

1 – My organization

- ❑ **Wrocław University of Science and Technology / Politechnika Wrocławska (PWR).**
- ❑ **Advanced architectural and spatial design, nature-based solutions**
- ❑ **Past experience in EU-funded projects:
FoCA (Free of Carbon Architecture (CORNET)).**

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2 – Project Idea

HORIZON-CL5-2026-09-D4-02: Low disturbance prefabrication approaches for deep renovation of multi-storey buildings (Built4People Partnership)

RENO-GREEN+ Renovation with Green Prefabricated Envelopes for Next-generation Buildings

Main objectives and innovative aspects:

- O1: Reduce the total cost of deep renovation through scalable prefabrication.
- O2: Increase energy and resource efficiency with adaptive, green prefabricated envelopes.
- O3: Minimise disturbance for occupants through low-intrusion renovation processes
- O4: Reduce dust, noise, waste, emissions through off-site manufacturing and clean construction

Expected results and impacts:

R1. Cost-efficient prefabricated renovation modules

R2. High-performance prefabricated façade systems

R3. Low-disturbance installation workflows that shorten on-site time

R4. Off-site prefabrication, clean assembly techniques, and circular material strategies

RENO-GREEN+ merges industrialised prefabrication, nature-based solutions, digitalisation, circularity and user-centred design into a single, scalable deep-renovation system that dramatically reduces disturbance, cost and environmental impact.

□ Demo building identified: Wrocław, Lisbon

3 – Expression of Interest

- ❑ **Areas of expertise we bring to the project:** research on low-disturbance design strategies using Vertical Green Systems—optimising access, sequencing and logistics to reduce resident inconvenience—while supporting the development of adaptable renovation concepts and decision-support tools that integrate architectural diagnostics, structural constraints and user needs.
- ❑ **Contribution proposed (e.g., technology provider, pilot site):** pilot site, architectural design, participatory process, aesthetics
- ❑ **Partners sought:**
 - Industrial partners**—manufacturers of prefabricated elements, façade systems, renovation technologies and digital construction tools—who can co-develop, test and commercialise solutions.
 - Research partners from different European regions** to host demonstrators in varied climatic and socio-economic conditions,
 - Organisations with expertise** in material circularity and logistics, local co-creation with residents, policy and standardisation, and market uptake.
- ❑ **Partners already involved:** PWR, ULisboa, UPC Barcelona