



PROBONO

The integrator-centric approach for realising innovative energy-efficient buildings in connected sustainable green neighbourhoods



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ABOUT PROBONO

The PROBONO project envisions to establish a people-focused European construction industry, by working in harmony with the broader community of stakeholders, to deliver scalable, sustainable, and viable energy-positive and zero-carbon Green Buildings and Neighbourhoods (GBN).

The objective of the project is to produce validated solutions for the design, construction, and operation of zero-emission and positive-energy buildings in sustainable green neighbourhoods.

PROBONO will provide strong examples of how Green Building Neighbourhoods' technological and social innovations can be applied, with a vision focused on building infrastructure and a renewed focus on people and sustainability, taking full advantage of digitalization and smart technologies for the benefit of society.

The adoption of the PROBONO approach and innovations will be proposed through a range of participatory methods that promote stakeholders (including citizens) partaking in co-designing and co-delivering a sustainable GBN. The project brings together a European multidisciplinary consortium of 47 partners, construction and consulting entities, public asset service managers, municipalities, technology solution providers and experts, to turn the six European districts (PROBONO's Living Labs) into Green Building Neighbourhoods (GBN), with positive energy balance and zero carbon emissions.



ENABLERS

For achieving the project vision and objective, PRO BONO will deliver five GBN Transition Acceleration Enablers deployed in six high-impact and people-focused Living Labs (LLs) across six EU states. These Enablers will assist Green Building Neighbourhoods to reach zero emission and energy-positive levels by 2030 and deliver positive ratings for efficiency KPIs associated with the innovations.

LIVING LABS

The project aims to provide validated solutions for the design, construction, and operation of new and/or retrofitted zero-pollution and positive energy buildings as part of sustainable green neighbourhood developments. The type of neighbourhoods will be piloted across six EU states where the PROBONO living labs will be established. The GBN Living Labs will include two municipality-driven large-scale demonstrators (Madrid and Dublin) and four living labs representing business/owner promoters of the Green Building Neighbourhoods transition (Porto, Brussels, Aarhus, Prague).

EFFECTS

PROBONO project has set out a highly ambitious impact strategy and has created the capability to deliver it with the support of leading-edge partners. Based on this impact strategy, the project will provide significant and measurable impacts not only in energy and construction fields, but also health, science and technology fields.

It is planned to achieve ten expected main impacts by the end of the project:

- 1: Primary energy savings
- 2: Investments in sustainable energy
- 3: Demonstration sites that go beyond nearly-zero energy building performance
- 4: High energy performance
- 5: Reduction of greenhouse gas emissions towards zero
- 6: Reduction of the embodied energy in buildings
- 7: Reduction of air pollutants towards zero
- 8: Demonstration of high potential for replicability
- 9: Shortened construction /retrofitting time and cost
- 10: Improved final indoor environment quality



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