

The consortium

REGEN brings into collaboration diverse expertise, engaging a multi-disciplinary group composed of 23 partners representing 6 EU countries (LU, FR, IE, SP, IT, NL). Research organisations, municipalities, small and medium size enterprises represent a broad range of sectors such as building technology, architecture, computer science, transport, energy, environment and social sciences.

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REGEN

Regeneration of neighbourhoods towards a low-carbon, inclusive and affordable built environment

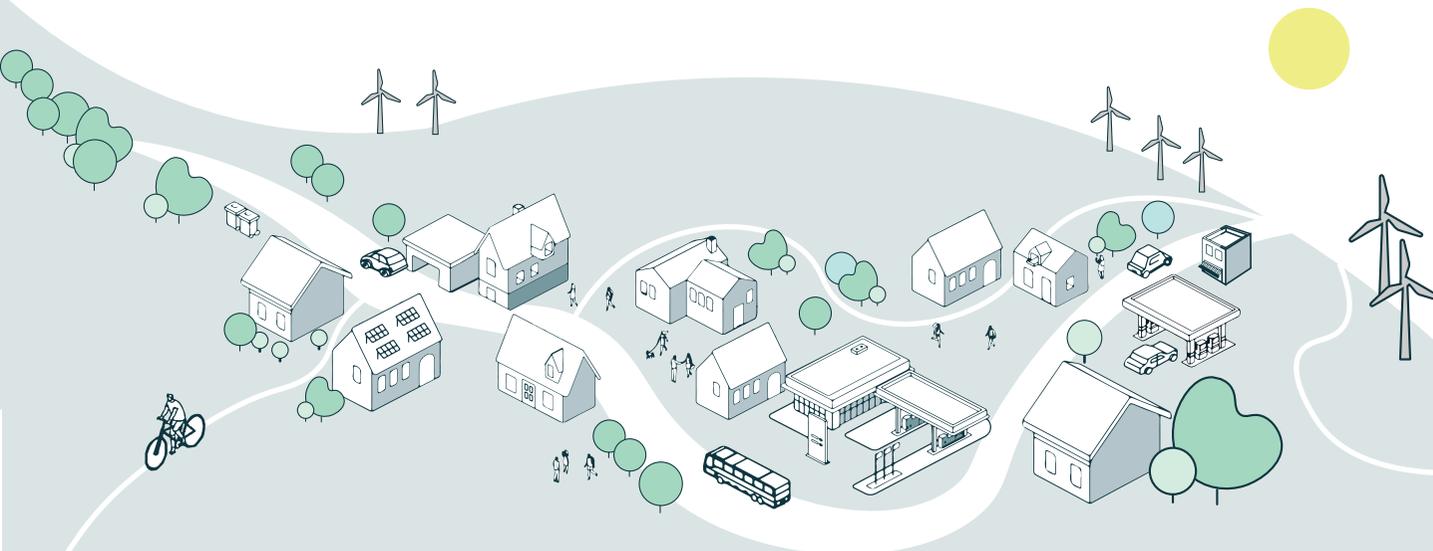
Co-funded by the European Commission under the Built4People programme, REGEN aims to pave innovative pathways for the decarbonisation of European neighbourhoods and cities, tackling urgent socioeconomic, climate and built environment challenges.



A co-programmed public private partnership in Horizon Europe's Cluster 5, Built4People (B4P) brings together projects on climate, energy and mobility.



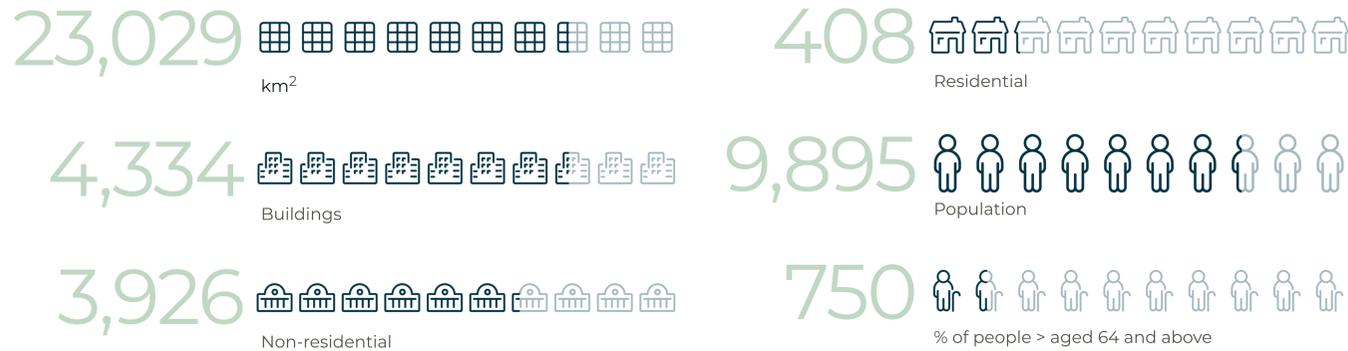
Co-funded by the European Union



Technology

The REGEN Toolbox leverages on **Urban Digital Twins** supporting the participative processes of neighbourhood regeneration. It includes **Technology Components** developed by the project partners including MUST supporting to participation and engagement, IES Intelligent Communities Lifecycle for decarbonization scenarios, Digital DeConstruction platform for circularity and reuse, RE Suite for asset management, DinyCONT-Flows for people counting in urban areas and NBenefit\$ for decision making related to Nature-Based Solutions.

Engagement of 4 demo sites



What is REGEN's holistic Assessment Framework for Urban Regeneration (AFUR)?

REGEN solutions are applied with all stakeholders in mind, being complemented by social and humanities studies, citizen science, participative design approaches and living labs. The indicators chosen for the assessments will rely on proven life cycle methods, extended to social and economic impacts. This will achieve a **holistic sustainability approach**, with the end-user being an active participant in the evaluation and validation.



Environmental sustainability



Economic revitalisation



Social inclusion



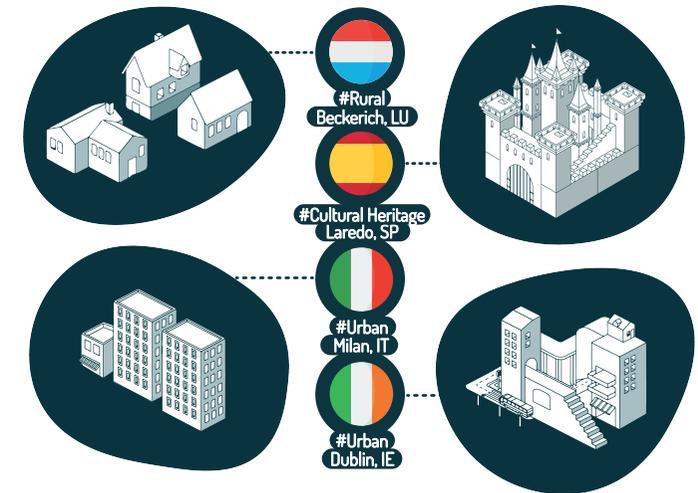
Participative urban planning



Management approaches

Large scale real demo-cases

4 large-scale demos in Luxembourg, Spain, Ireland and Italy. Each demo site will be led by a relevant municipality (BECK in Luxembourg, LAREDO in Spain, DCC in Ireland, and MIL in Italy), directly involve local actors as well as other actors from the consortium.



Virtual demo-cases

An additional **10 virtual regeneration projects** will be used to replicate the regeneration interventions and assess their applicability across the EU. This will strengthen the credibility of the interventions catalogue and provide indispensable for knowledge transfer on delivering resilient urban regeneration.



Participatory planning processes



Urban & rural regeneration interventions catalogue



Behavioural changes towards lower carbon footprint



REGEN Toolbox, a citizen-focused software environment