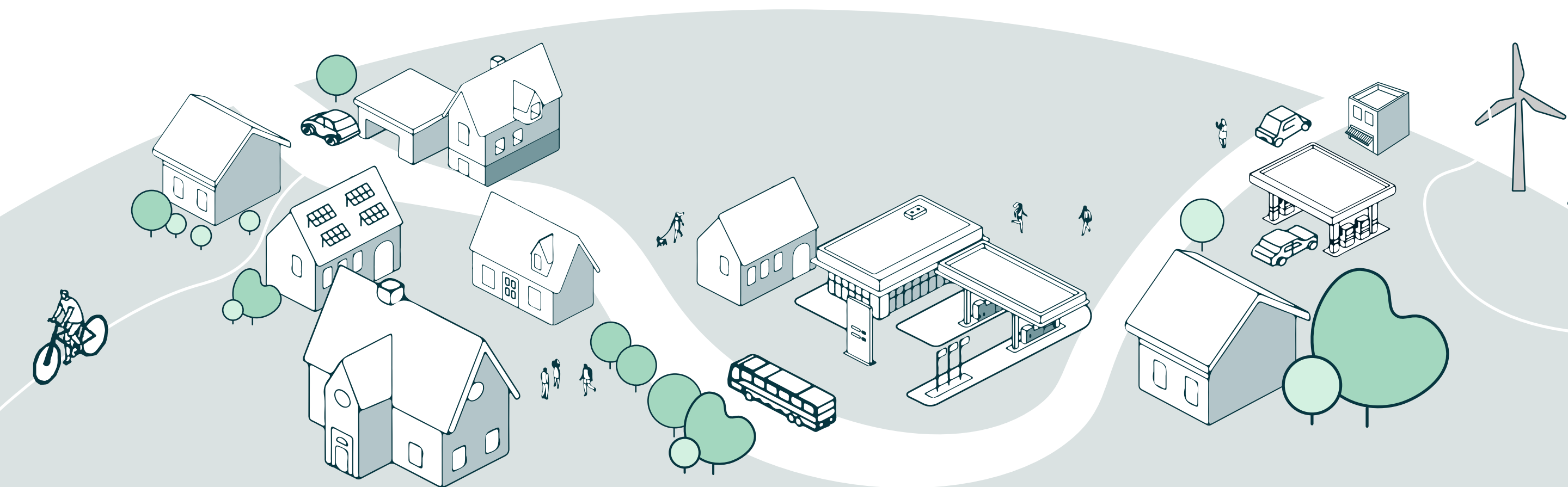
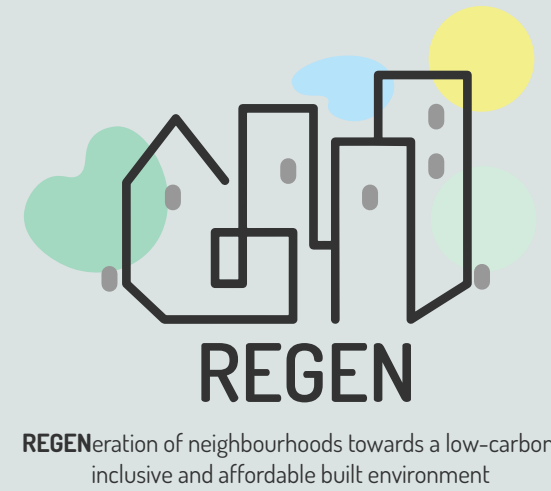


REGENeration of neighbourhoods towards a low-carbon, inclusive and affordable built environment

# LABORATORY

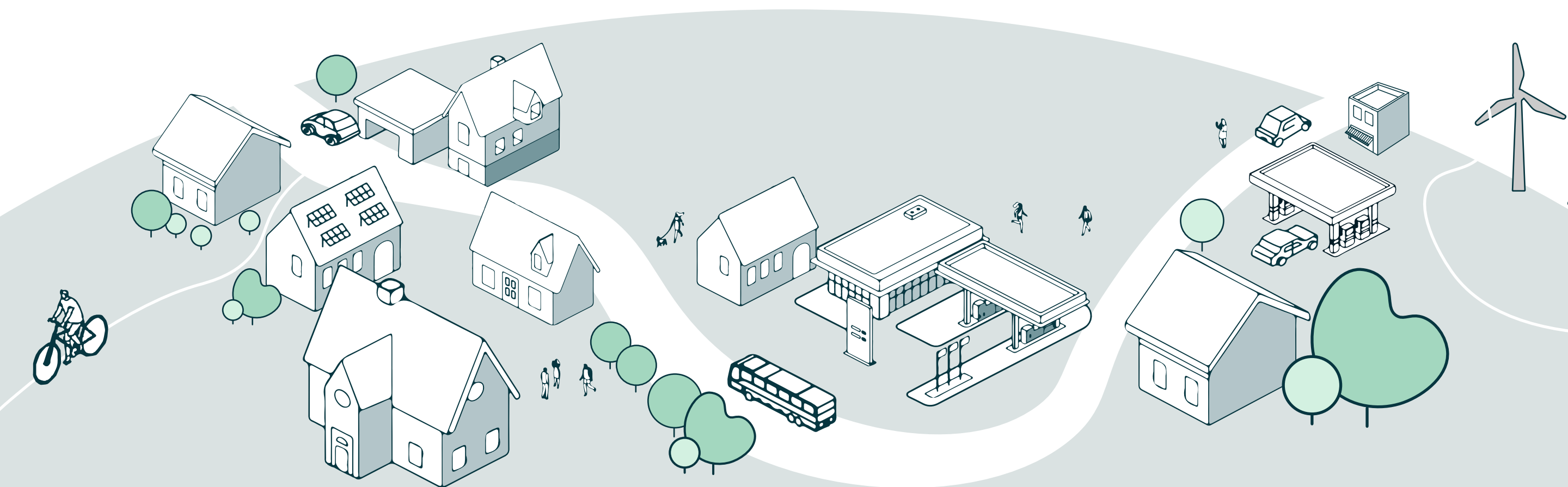




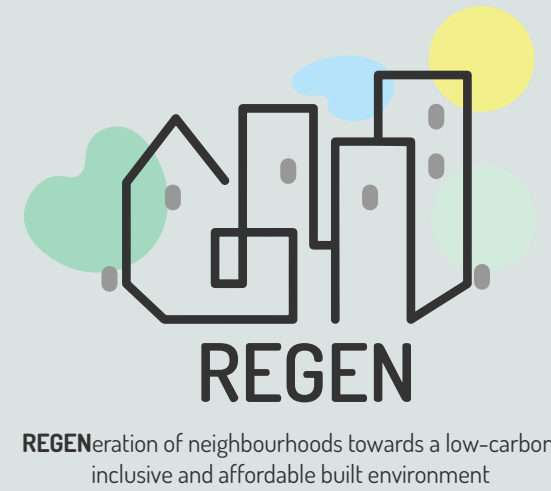
Can you introduce your organization?

GTB Lab is a European platform for Circular Buildings, founded by Prof. Dr. Elma Durmisevic. It drives a systemic shift in construction through research, demonstration, and awareness labs, based on the idea that “waste in construction is a design error.”

Its work focuses on circular diagnostics, digital tools, policy strategies, and revisable building systems, grounded in the Circular, Reversible Building Toolkit, referenced in EU policies, ISO 20887:2020, and applied in major EU projects and by the Brussels Region.



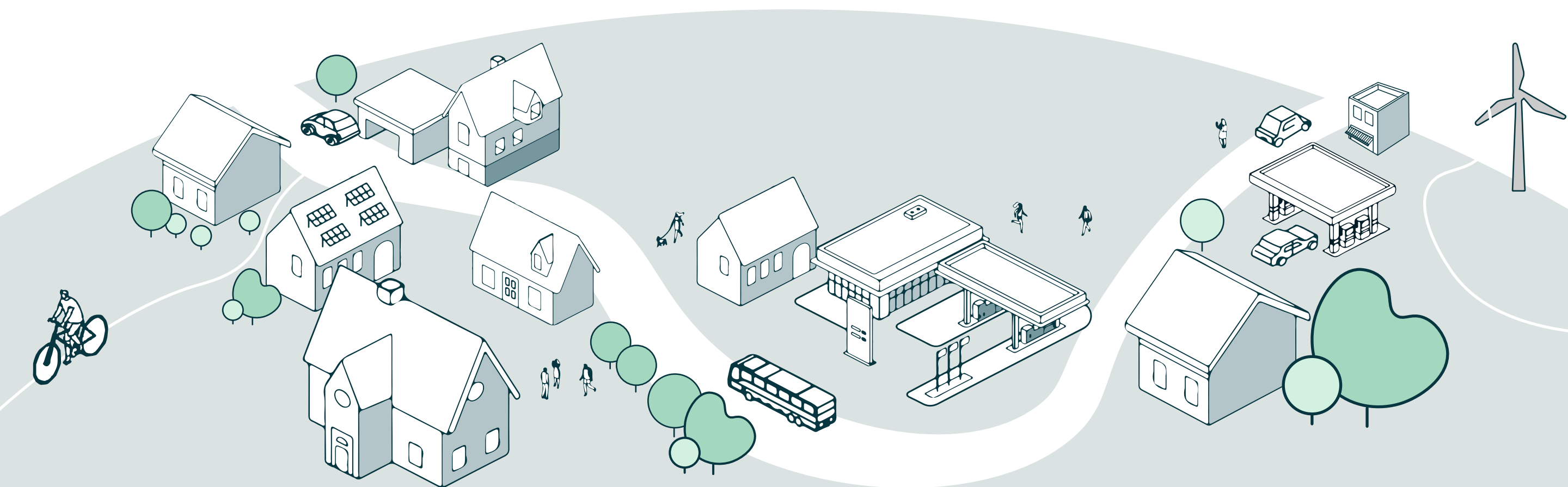


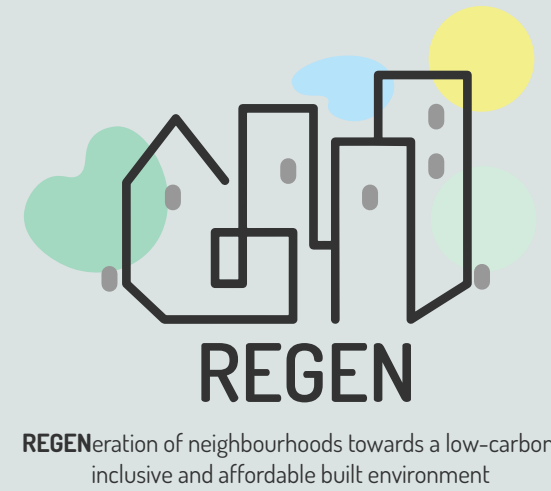


What specific challenges do you anticipate in developing or applying an Assessment Framework for Urban Regeneration (AFUR)?

Our main challenge is data collection regarding material flows from the buildings. This information would help to provide comprehensive overview of a ecosystem around a transformation projects and help identify martial flows around recovery and ruse phases of materials This would be a key towards understanding economic incentives behind ruse of materials and how circular supply chain can be organised in order to bring circular economy to a sustainable level in an urban setting.

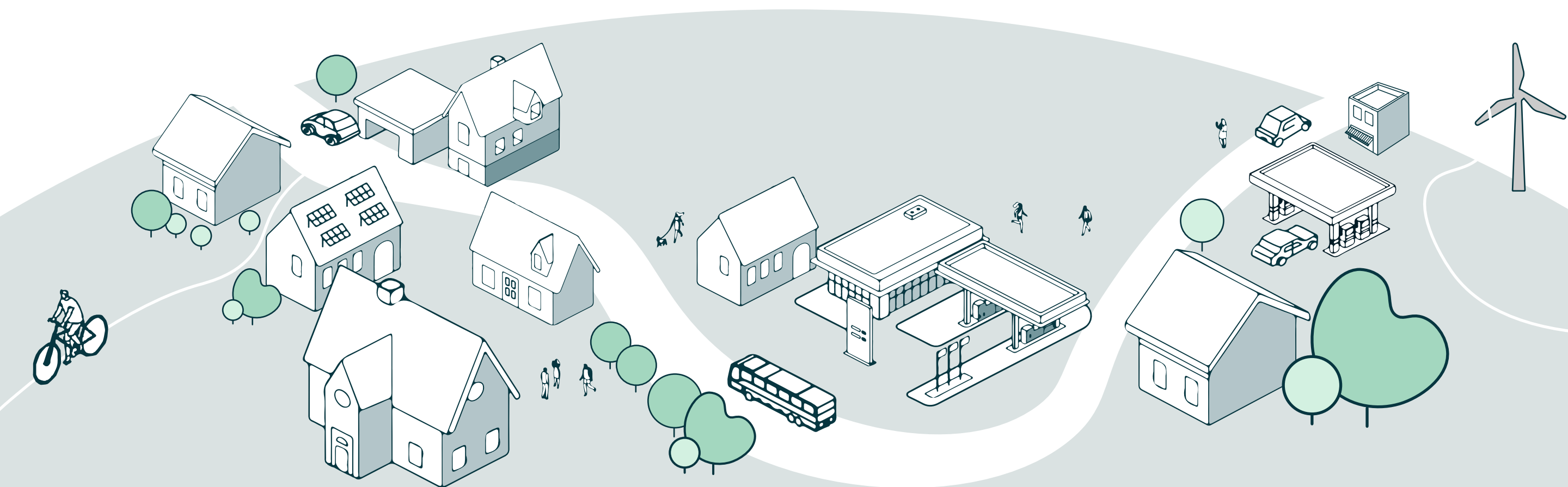
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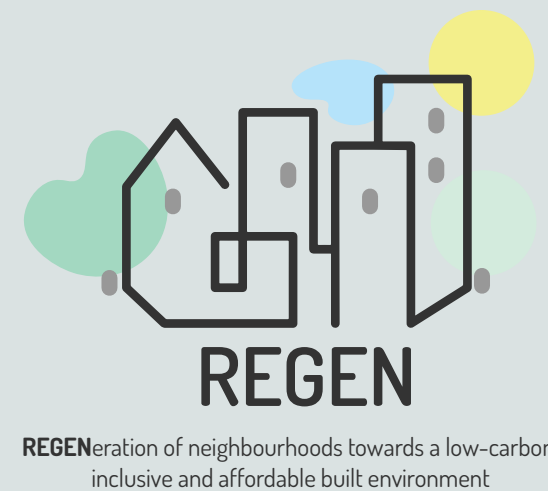


How will your organization contribute to the development/ monitoring of the four pilot demonstration projects?

GTB Lab will perform digital diagnostics of building reversibility and circularity using RBIM. This includes transformation analysis, a 3D library of reusable materials, and circularity profiles detailing disassembly and reuse strategies, embodied CO<sub>2</sub>, and material savings. Once diagnostics are complete, GTB Lab will support pilot sites in integrating the data into a digital board and developing customised use cases for end users.







# Want to learn more?

<https://regenproject.eu/>

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