



Innovative circular economy & AI methodology for sustainable high-energy performance buildings

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SNUG is pioneering sustainable construction solutions, addressing the significant environmental impact of buildings. Through an innovative methodology designed to assist architects and builders in choosing the most appropriate thermal insulation materials and strategies for new construction or renovations, this EU project aims to reshape the construction industry, maximizing energy efficiency, minimizing greenhouse gas emissions and fostering a greener future for buildings and communities.

The SNUG project is an innovation action co-funded by the European Union through the Horizon Europe Programme, the UK Research and Innovation (UKRI) and the State Secretariat for Education, Research and Innovation (SERI).

During the project’s lifespan, we will develop:



DIGITAL TOOL ASSISTANT

Offer tailor-made options of thermal insulation materials and layouts, taking into account technical, environmental, and economic inputs



SUSTAINABLE-BY-DESIGN THERMAL INSULATION MATERIALS

Made of locally sourced renewable materials and bio-based components, with a focus on cost-effectiveness



THERMAL INSULATION MATERIALS DATABASE

Catalog both existing and new solutions, providing life cycle assessment details through an open data tool



DIGITAL BUILDING LOGBOOK

Facilitate decision-making and information sharing, connecting building owners, occupants, financial institutions and public authorities

Our main goals are:



Develop sustainable and cost-effective building materials for optimized thermal insulation based on circular economy



Empower architects and builders to make eco-friendly choices by leveraging the power of artificial intelligence building stock



Alleviate energy poverty through enhanced building energy efficiency



Reduce emissions from the construction industry while advancing the decarbonization of EU’s building stock

42 months

17 partners

11 countries

Powered by



Project funded by

