

outPHit

Deep retrofits made faster, cheaper and more reliable



The challenge

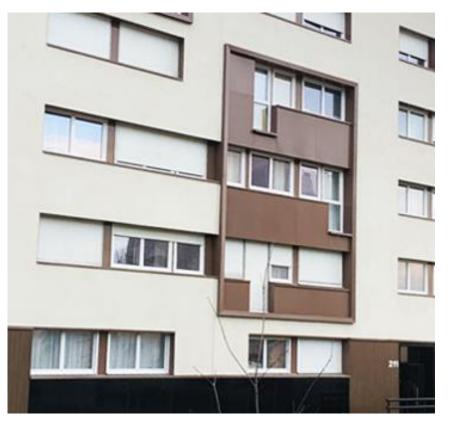


Our buildings are inefficient

They contribute up to 40% of total emissions, amplifying climate change and energy poverty

Deep retrofits are needed

Their accessibility and delivery at the speed, cost and quality necessary are a challenge



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The outPHit answer



How do we bring our buildings in line with international climate goals? How do we make them fit for the future?

#1 Make retrofits simpler, faster and cheaper



Streamlined approaches and prefabrication

#2 Lock in **high energy** performance and quality



The EnerPHit Standard for retrofits in line with Passive House principles

The outPHit answer – Part 1

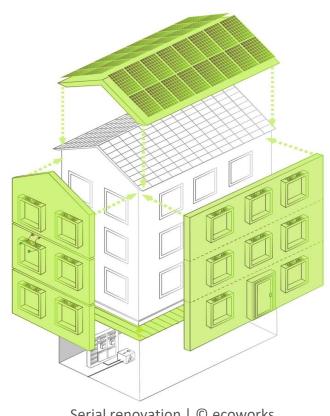


Streamlining

- Optimal organisation of actors in the process via superior coordination
- Timely information for informed decision making

Prefabrication

- Brings actors, components and steps together for most decisions off-site and in advance
- Reduction of retrofit times and costs



The outPHit answer – Part 2



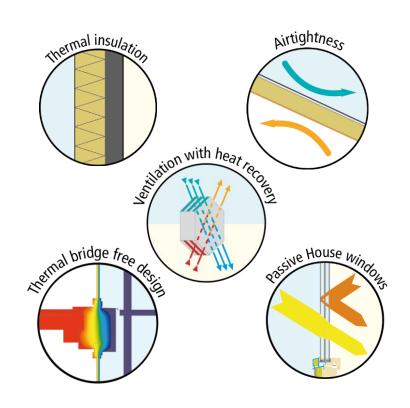
The EnerPHit Standard

- A sound basis in Passive House principles
- A focus on quality, comfort and outstanding performance



EnerPHit requirements

Passive House components and very low annual space heating demands*



Passive House principles | © Passive House Institute

^{*}climate dependent; in Europe from 15 to 30 kWh/m²a

Our Work



outPHit is addressing barriers to high quality deep retrofits such as cost, complexity and time

real life case studies across Europe



high performance renovation systems and concepts tools for decision making quality assurance safeguards

Our Work



- INTEGRATING streamlined and prefab processes with EnerPHit performance
- **SUPPORTING** component suppliers to improve products
- CRAFTING a certification scheme for whole house renovation systems as well as tools and guides to support decision making



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Our Work



- DRAFTING simplified monitoring and approval concepts for the renovation design stage
- ENCOURAGING a one-stop-shop business model for deep renovation
- BOOSTING demand for streamlined, high performance approaches by involving stakeholders in the promotion of findings



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What to expect



Renovation systems

Tender documents

Performance certification scheme

Financial and technical monitoring

Technical equipment packages

Deep renovation guidelines

Contracting concepts

Renovation system certification Manufacturer support

A municipal practitioner network

Design-stage approval concepts

The Facts



- PROJECT LEAD Passive House Institute
- PROJECT PARTNERS 10 partners from 8 countries (AT, BE, FR, DE, GR, NL, ES, BG)
- PROJECT DURATION 36 months, until August 2023
- OVERALL BUDGET € 2.5 million
- FUNDING AUTHORITY European
 Union's Horizon 2020 programme



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Project team



























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