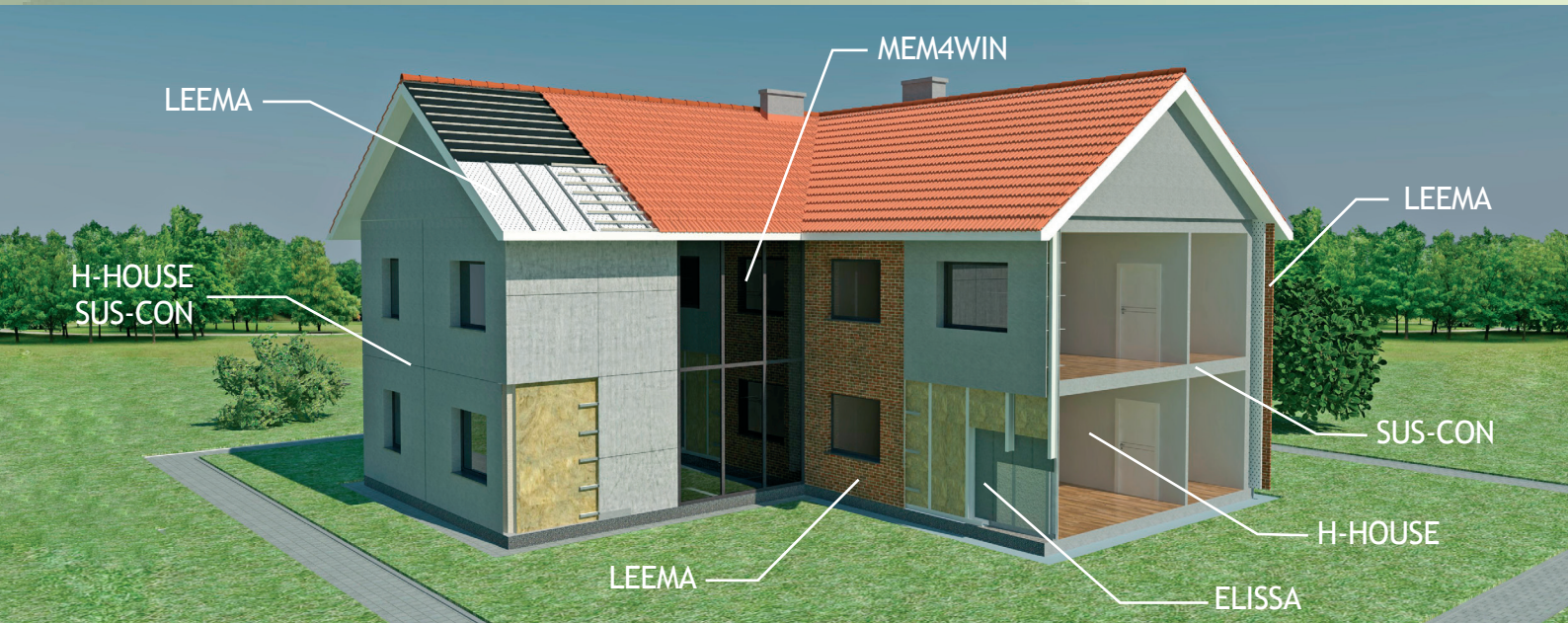


## AMANAC: Advanced Materials And Nanotechnology Cluster

AMANAC is a collaboration and coordination platform across all the Advanced Materials and Nanotechnology projects, approved in the frame of the EeB-PPP, whose activities address development of (nano)materials, components and systems for the improvement of the energy efficiency in the built environment.

For more information visit: [www.amanac.eu](http://www.amanac.eu)



## Innovative material technologies and systems for retrofits and new construction

Innovative building components at a glance:

- Prefabricated (modular) lightweight steel skeleton elements with dry wall systems, vacuum insulated panels, intumescent paint with improved thermal, seismic and fire performance (project ELISSA)
- Active Damping Device for vibration suppression (project ELISSA)
- Partition walls with earthen plaster for healthier indoor environment (project H-HOUSE)
- Prefabricated light-weight concrete façade elements with self-cleaning surfaces improved thermal properties (project H-HOUSE)
- Low embodied energy 3i Loose Fill insulation material for cavities (project LEEMA)
- Low embodied energy 3i insulation bricks and façades (project LEEMA)
- Smart windows with: weight reduction, harvesting of energy, possibility to control of solar radiation and reduce U-value ( $0,3 \text{ W/m}^2\text{K}$ ) & carbon footprint (project MEM4WIN)
- Eco-sustainable lightweight concretes with 100% secondary raw materials for pre-cast products (panels and blocks) - (project SUS-CON)
- Eco-sustainable lightweight concretes with 100% secondary raw materials for ready-mix products (screeds) - (project SUS-CON)

Durable

Low Embodied Energy

Low CO<sub>2</sub> emissions

Eco-friendly

Fire resistant

Seismic resistant

Increased thermal properties

Healthy indoor environment

Cost-effective



[www.elissaproject.eu](http://www.elissaproject.eu)



[www.h-house-project.eu](http://www.h-house-project.eu)



[www.leema.eu](http://www.leema.eu)



[www.mem4win.eu](http://www.mem4win.eu)



[www.sus-con.eu](http://www.sus-con.eu)