

## EUROPEAN PILOT PROJECT

# INTEGRATED TECHNIQUES FOR THE SEISMIC STRENGTHENING AND ENERGY EFFICIENCY OF EXISTING BUILDINGS

Regional impact assessment  
and proposals in support of  
an Action Plan

ACTION  
4



Identify **priority regions for renovation** based on risk and socio-economic indicators



Review **implementing measures**



Identify and compare **scenarios for intervention**

## PILOT PROJECT ACTIONS

1. Overview and classification of technologies for seismic strengthening and energy upgrading of existing buildings
2. Analysis of technologies for combined upgrading of existing buildings
3. Methodologies for assessing the combined effect of upgrading
- 4. Regional impact assessment and proposals in support of an Action Plan**
5. Stakeholders' engagement

# PROPOSING ACTION

Action 4 identifies vulnerable regions and related policies in support of an EU Action Plan for the redevelopment and modernisation of the European building stock. Action 4 locates areas where renovations can achieve the highest impact. Ranking of regions is based on seismic risk, energy efficiency and socioeconomic aspects. A review of implementing measures at the EU and national level will identify effective implementation avenues and economic barriers to renovation efforts. Action 4 will integrate the collective insight of the Pilot Project into a proposal for the Action Plan.

Action 4 operates at the regional level. Therefore, all recommendations integrate the technical and socio-economic aspects of an area. This empowers multiple levels of government and industry to protect and invest as well as directly supports the Sendai Framework for Disaster Risk Reduction's call for risk-proofed investments. Action 4 output incentivises investments that ensure energy and resource efficiency, resilience to earthquakes and climate change, socioeconomic aspects and hence sustainability of the building stock. The proposals in support of the EU Action Plan contribute to the EU Civil Protection Mechanism by improving knowledge on seismic risk and support EU Member States' risk assessment, mapping and management activity.

