

ENERGY RENOVATION OF BUILDINGS AT URBAN SCALE GUIDE

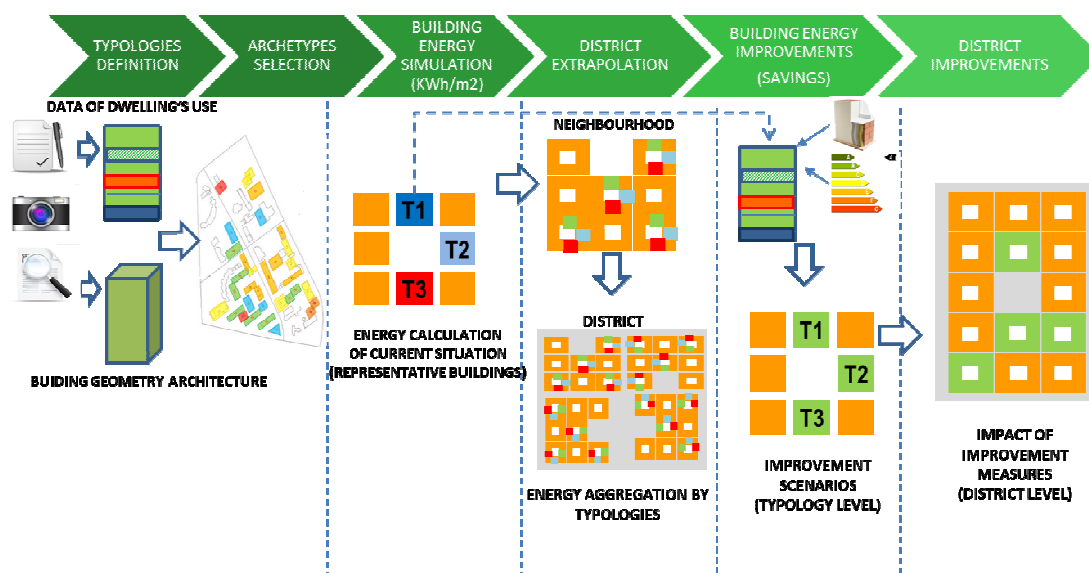
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Type of output: **Guide**

Responsible partners: **LIMA** (Low Impact Mediterranean Architecture Association) / **BAR** Municipality (Montenegro)

Key words: Quantitative and qualitative evaluation of energy performance, improvement measures assessment, methodological approaches, policy instruments, renovation protocols, archetypes

Description: The Energy Renovation of Buildings guide describes different approaches to determine the energy performance status-quo of buildings and assess the environmental and economic impact of improvement measures. The detailed analysis of archetype buildings (pre-calculated or simulated for the particular area) is used for individual renovation projects or extrapolated to district and urban level by results aggregation. Policy instruments are described and relevant actors for the implementation of the measures are listed. The experiences from six pilot activities give a picture of the strengths and weaknesses of the approaches. An example of ERB protocol - use and management in office buildings – shows the possibilities to standardise the process of an energy improvement project at building scale.



Interactions: **MARIE/MEDBEES/IF/WP4/SM1.1/PA1.2/SDIM** (Spatial Data Information)
MARIE/MEDBEES/IF/WP4/SM5.1/PA1.2/ITA (Investment Tool Analysis)

Analysis: The strengths are related to provide a quantitative analysis of ERB sustainability on various planning levels, describing different methodological approaches to characterize existing buildings and to define the most effective energy improvement strategy. Weaknesses are the potentially high number of unknown parameters for energy simulations and the mismatch of pre-calculated results to the real building stock.

Interest: Providing support on how to face the existing building stock characterization and the energy improvement measures assessment at different planning levels and stages via ERB guidelines and protocol.