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Seminar - PCMs4Buildings

PCMs: Thermophysical characterization and buildings' applications

Systems with PCM-filled rectangular cavities for the storage of solar thermal energy for buildings: the case of the PCMs4Buildings project

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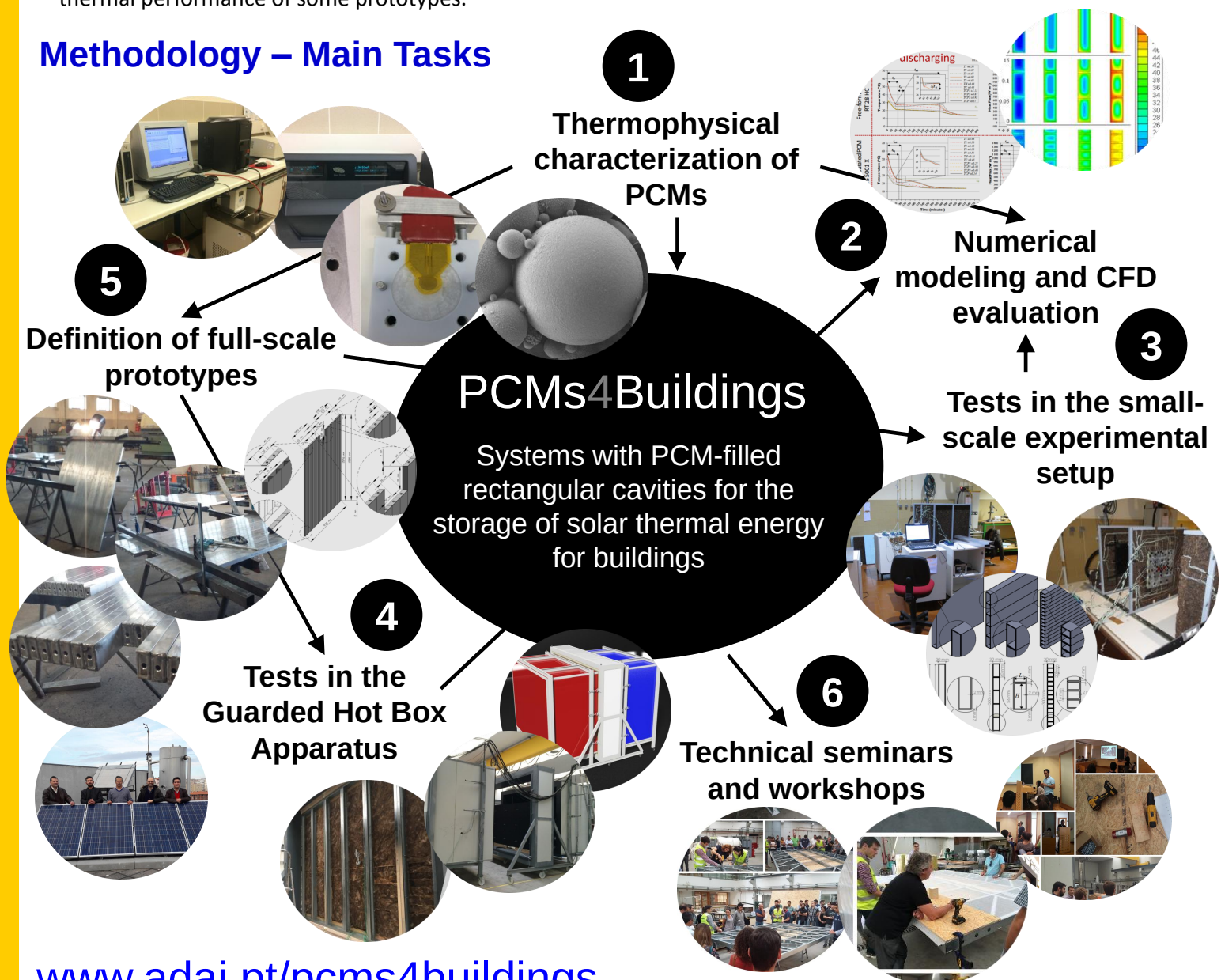
Major Goals

- To propose new TES systems for improving the energy performance of existing systems and/or to take advantage of solar thermal energy for reducing cooling and heating energy demand in buildings;
- To create an active multidisciplinary lab provided with the skills and equipments necessary to study new passive TES systems incorporating PCM-filled rectangular cavities for building applications;
- To create a dynamic organization scheme to cover all the research steps necessary for the study of new TES systems, from the thermophysical characterization of the materials to the final experimental and numerical evaluation of the thermal performance of some prototypes.

Methodology – Main Tasks



www.adai.pt/pcms4buildings

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