Innovation in ultra-low-cost, ultra-low-environmental-impact housing solutions

This thesis proposal is aimed at exploring the boundary of feasibility in the area of innovative

technological solutions for the construction of ultra-low-cost housing.

Knowledge of the state of the art in the fields of: (a) low-cost housing design, (b) bioclimatic design,

and (c) low-cost construction technologies suited to self-building, is a prerequisite for developing the

thesis.

The thesis work is expected to be structured in the following steps:

1) spotting a specific technical problem to be solved towards the improvement of ultra-low-cost

construction solutions for houses;

2) defining a hypothesis of innovative technical solution (through a process of trial and error) for

addressing the problem, then refining the solution to make it concretely applicable in practice, and

up to the task of satisfying the performance objectives;

3) demonstrating the soundness of the solution through its application in a specific housing project.

The thesis is expected to be individual (i.e., not developed through group work).

Maximum number of thesis openable at once: 5.

Language: English.

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