



POLITECNICO
DI TORINO

Honors thesis

Master of Science in Architecture for Sustainability

Abstract

***Re-live alpine villages. The hamlet of Serlone in Locana
Valley***

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The awareness of the enormous potential of the Alps is creating a larger and larger cooperation between alpine stakeholders and the application of common politics and strategies. These strategies try to free these contests from the idea of marginality that has a long history, and to search for solutions which create a balance between mountain and urban areas.

Multiscale analysis from macro-regional level to the local one has been a key component for the definition of the general lines that could be proposed to relive “Serlone”, a mountain hamlet situated in Locana Valley, socially and economically.

Like in every project it doesn't exist an only answer to the solution of the problem. You need to propose the most plausible and coherent one with the contest and with the local, economic, political development, trying to define a product that meets the new tendencies. The development of the offer, starting from the recovery and the valorization of the buildings, must join accommodation facilities with the enjoyment of the areas, with the environmental culture, social, productive, craft made, oenogastronomic, artistic resources and attractions.

To permit the new functions inside the hamlet, the principle of the functional mixité has been carried out.

To the original residential and farming destination, have been joined productive, commercial and accommodation facilities, which rely on each other in order to carry on non-traditional tourism and accommodation, that should satisfy the need of rurality and sustainability in general.

The relive must be carried on by aware mountain young people, that know how difficult is living in the mountain. They decide to start activities joined to traditional jobs (husbandry, agriculture, building industry, handy craft), to tourism services (accommodation facilities, catering, wellness, guides, events) and to the activities referred to production, development and research (agriculture and food business, bio-cosmetics), and to new technologies exploitation for e-working (e-commerce, events management, tourism promotion).

Testing BIM on Serlone, in Locana Valley, had the aims to provide an alternative and transferable method to design and modeling hamlets through parametric software and offer suggestions to use the model during the phases of recovery.

Thanks to the management and elaboration of the inserted graphic data in the model, it was possible to obtain a general complete framework of Serlone's real state



representing the starting point to set up recovery projects.

The idea of creating a “library” of technical elements of traditional alpine architecture was born to satisfy the following needs:



-to supply Revit families for mountain architecture (doors, windows, chimneys, railings, etc.) downloadable from web;

-to support other alpine technicians both in modeling and project phases to avoid alterations and falsifications of common typology of the alpine building tradition.

Despite the longer time needed to model by BIM respect to traditional CAD, it is possible to observe the BIM'S advantages on the long period for the information management and the documents processing, especially in urban projects, where there are many data to control and coordinate.

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