POLYTECHNIC OF TORINO FACULTY OF ARCHITECTURE Degree in Architecture *Honors theses*

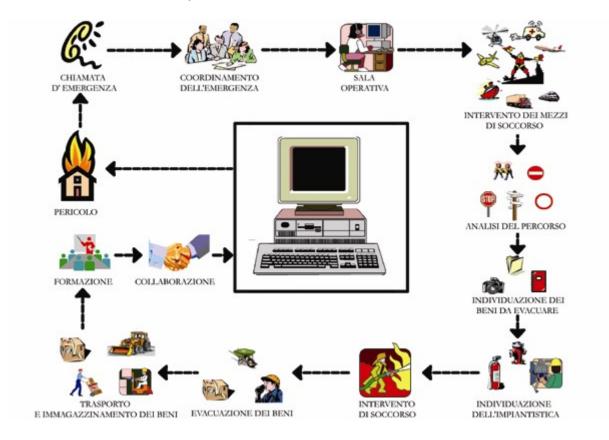
Cultural heritage: safeguard and prescriptive regulation. Risk - Emergency - Evacuation

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Italy possesses an immense cultural patrimony that can be interested from anthropic and natural risks that can compromise its integrity. The proposal is to delineate a plan finalized to the creation of a computer support for the organization of the participation of aid in calamity case, in order to guarantee the protection of the cultural patrimony. Guardian a cultural heritage wants to say in first place to know it, therefore is necessary to take a census it and to catalogue it through a punctual territorial analysis in order unable to take part on the single units. Subjecting the cultural heritage to tie it would have automatically to be guaranteed its survival and the respect. It is necessary to estimate the exposure to the risk established based on the concept of vulnerability of the site in which is placed. Historical memory from archives is an important instrument for the appraisal of the exposure to the risk, because analyzing previous manifestations that have already interested object in examination, future events can be previewed assuming a period of return more or less extended. Operating on the information obtained from the analysis of the assets in an area it can be proceeded to the formulation of the risk maps, elaborates precious for the immediacy and synthesis in which represents the territorial situation. It characterizes the risks and the vulnerability of the system must therefore operate to estimate level: a constant and careful monitoring turn out fundamental to the ends of the safeguard acclimatize them and of the cultural assets. In order to make forehead a possible emergency it is necessary to organize a procedure of participation and evacuation. Fundamental importance in the phase of prevention is the periodic simulation of the participation of emergency, apt translate in practical that the theory can explain until a accurate point, allowing the competent figures to call in cause to familiarize with the participation procedures and above all to become accustomed itself to the collaboration and a synergetic job between the parts, establishing and respecting a hierarchy undiscussed, but above all tested in it makes that they characterize the operating system.

The plan of emergency and evacuation must satisfy to the maximum generalization and simplicity of the organization of the participation, to be able to be applied and adapted in flexible way to different situations. Based on these considerations an instrument shared from all would turn out useful beings and figures that concur in the preventive and operating activity of the aid, for the management of the emergency from the declaration of the state of alert to the evacuation of the assets, to define a global language and the same formulation in the data, creating an organic interface between various and competences often unable to communicate.



Management of emergency participation

The fixed operating base, centre of control of the emergency, and every mobile unit would have to be equipped with a PC which to reach informations, to assimilate before and during the participation, regard localization heritage to save, dynamics of event and the possible risks on the area, that can complicate the situation, the distance and the way of easier access, the positioning inside the building container, the escape ways and the places of shelter where to evacuate the objects, the modalities of storing of the assets capacities and their file, the documentation, said "of emergency", it will serve to reconstruct the parts lacking a damaged partially object or in the case of total loss of the good the same one will serve like historical testimony. The software science program must turn out simple, flexible and "alive", that is be modernized in real time from the several competences that participate to its management, so as to give back an exact picture of the truth.

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