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Honors thesis

COURSE IN
PIANIFICAZIONE TERRITORIALE, URBANISTICA E
PAESAGGISTICO-AMBIENTALE

Abstract

**PLANNING THE RESILIENT CITY.
LOCAL PLANNING FOR CLIMATE ADAPTATION:
THE CASE STUDY OF MUNICIPALITY OF SORRADILE**

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In light of the growing interest in climate change and the introduction of the concept of resilience as the foundation of urban and territorial planning, we want to investigate the impacts of the phenomenon at the local scale and bring back the experience gained by the Municipality of Sorradile with its plan adaptation to climate change. The local scale, in fact, is the dimension within which the impacts can be quantified and defined from a qualitative point of view, but above all it is at this level that urban and territorial planning has the task of establishing the adaptation and development strategies, to be declined in effective actions to reduce risks and consequences.

It was decided to tell the case study of the Municipality of Sorradile, a rural village of Oristano, because it is considered virtuous within the Italian context, where planning for adaptation to climate change has not yet obtained institutional recognition as a tool active in the government of the territory and is still delegated to local initiative. The Mayor of Sorradile, Pietro Arca, reconfirmed for his third term, is strongly convinced that the environmental issue is the key to revolutionizing and reinforcing a territory that already has resources of intrinsic value, resources that can be adequately exploited to build effective and efficient resilience processes in a framework where environment and community are inextricably linked.

The processes of construction of the territorial resilience of the Municipality are carried out starting from projects that concern the environmental, social and tourism sectors at the local and inter-municipal scale: fundamental steps were the adherence to the Covenant of Mayors and the Mayors Adapt of the European Commission (unique municipality in Sardinia), merged into the Covenant of Mayors for Climate & Energy. The attention for future territorial development is directed towards Lake Omodeo, the artificial basin built in the 1920s, which the Mayor Arca identifies as the element of union of the municipalities that overlook it and on which he would like to establish strategies for enhancement of the environmental context with the Barigadu Guilcer Local Action Group (GAL) and with the Unions of Municipalities, strengthening their administrative and planning function.

Sorradile is the first municipality in Sardinia to have a Climate Change Adaptation Plan, which however lacks the recognition of its implementation value. Its realization, therefore, is delegated to the planning instruments defined by the National Urban Planning Law 1150/42. From this point of view, it is necessary to mention the processes still under development such as the new Detailed Plan for the Historic Center and the upcoming adaptation of the Municipal Urban Plan to the Regional Landscape Plan of Sardinia. The focus of the thesis focuses on the integration of environmental issues within mainstreaming planning tools. These initiatives, in fact, will be important to understand how the proposals related to sustainable development and urban resilience can be incorporated into territorial planning tools, adapting general and very complex principles to the reality of Sorradile for its characteristics and future prospects.

Using the experience of the Sorradile case study, we want to investigate the relationship between the local scale and the integrated management of climate change as a lever for the development of urban contexts, with a view to building resilient systems.

Given these considerations, therefore, we want to answer some questions: is the local scale the right size to deal with the management and adaptation to climate change according to a resilient planning approach? Is it the optimal scale to build systems capable of reacting to the uncertainty of the phenomena of change taking place on the global scale?

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