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*Report delle attività
di ricerca*

CLIMATE CHANGE AND
CULTURAL HERITAGE

IV INTERNATIONAL FORUM
ON ARCHITECTURE AND URBANISM
22 - 23 June 2023

*a cura di
Ornella Zerlenga, Danila Jacazzi, Luigi Corniello*

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CLIMATE CHANGE AND CULTURAL HERITAGE

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on Architecture and Urbanism

edited by Ornella Zerlenga, Danila Jacazzi, Luigi Corniello

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CLIMATE CHANGE AND CULTURAL HERITAGE

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SICILIAN CITIES AT RISK. CLIMATE CHANGE URBAN ADAPTATION STRATEGIES

ID091

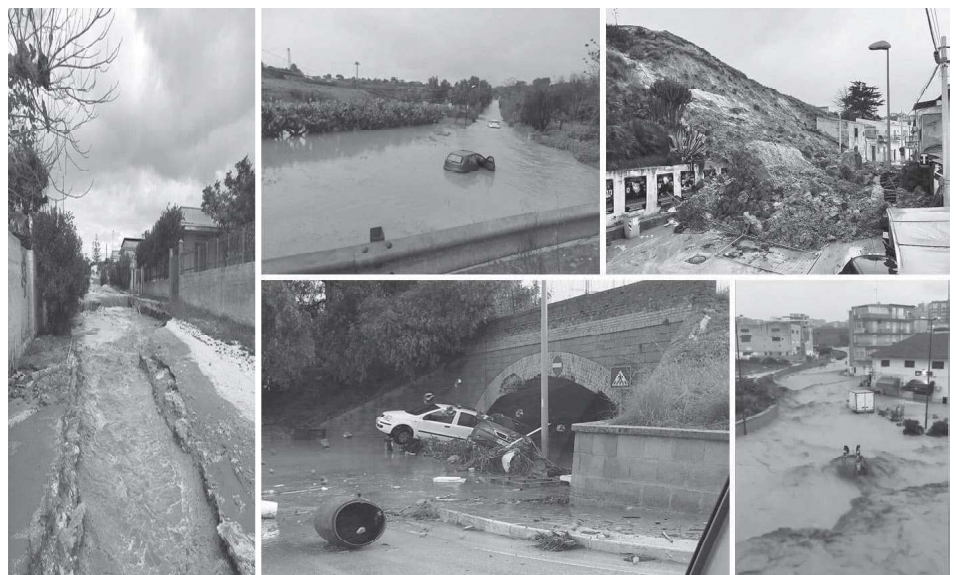
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In 2023, tackling the crises - climate, energy, socio-economic - that can be foreseen and predicted, is not easy, due to their severity, but also to a certain tendency towards irreversibility.

The culpable inattention of those who have manoeuvred often without competence or correctness the levers of power, has led to real global, epochal disasters. Numerous studies, both national and international, have demonstrated the close connection between climate change and risks to the health and well-being of populations living in urban areas. These risks of a direct type (heat waves, frost, frequent adverse weather events) and of an indirect type (health significance on ecosystems, biodiversity, water, soil and air) have long been at the centre of the global scientific debate and not only. The outcome of these reflections/meetings has unfortunately confirmed that it is the city itself, with its structure and composition, that profoundly influences the climate, being among the largest contributors to global greenhouse gas emissions (around 40%) and ranking among the systems most vulnerable to climate change risks. Hence the need

for an in-depth understanding of the relationship between land consumption and ecosystem services in order to combat urban sprawl, improve adaptation strategies to Climate Change as indicated by the Urban Climate Change Research Network and make cities more sustainable and resilient using PNRR funds. One of the winning strategies, to counter climate change and face one of the most important challenges for mankind is to "Think globally and act locally" through planning that aims to safeguard the natural and human system, that stimulates the start of a new phase of urban regeneration and that promotes risk awareness and culture, together with the consistent containment of land consumption, the promotion of natural capital and the landscape, quality building, as well as the reuse of contaminated or disused areas. This contribution, with a multidisciplinary approach, describes the relations between soil consumption and climate change in some Sicilian urban areas, proposing new strategies of urban adaptation to possible future events, already successfully tested in other virtuous Italian cities.

Keywords:
Sustainability
Resilience
Urban sprawl
Urban adaptation strategies.



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