

DELIVERABLE 2.2.3

Publications on relevant EU magazines (printed or digital)

Let's be reSEAlient!



















a) Geosciences

https://www.mdpi.com/2076-3263/11/10/424





Citizens' Perception of Geohazards in Veneto Region (NE Italy) in the Context of Climate Change

Eleonora Gioia 10, Cristina Casareale 10, Alessandra Colocci 10, Fabio Zecchini 2 and Fausto Marincioni 1,+0

- Department of Life and Environmental Sciences, Università Politecnica delle Marche, 60131 Ancona, Italy; e gioia@staff.univpm.it (E.G.); c.casareale@staff.univpm.it (C.C.); a.colocci@staff.univpm.it (A.C.)
 Regional Agency for Environmental Protection and Prevention of Veneto, 35121 Padowa, Italy; fabio accedimilarpa.venetoi.
 Correspondence: f.marincioni@univpm.it; Tel.: +39-4071-220-4312

Abstract: Climate-related geohazards, such as landslides, floods, and coastal erosion due to climate Answard Cambridge and Cambridg questionnaires were completed by adult citizens and analyzed by means of inferential statistics The results highlight a widespread perception of climate change as a general threat for the environ-ment, but not directly transposed to the frequency and intensity of future geohazards. Certainly, changes in temperatures and rainfall are widely expected and acknowledged, yet the comprehension related to the hydrogeological effects seems to vary proportionally to the physical proximity to these hazards. Such outcomes underline that there is still a common lack of understanding of the eventual local impact of the climate crisis. For these reasons, it is suggested that decision makers consider directing their efforts to enhance the citizens' knowledge base in order to build a climate-resilient society.

Keywords: geohazards; risk perception; climate change; Italy



Citation: Gioia, E.: Casarvale, C.: Colocci, A.; Zecchini, F.; Marinci Colocci, A.; Zecchini, F.; Marincioni, Citizeris' Perception of Geohazards in Veneto Rogion (NE Italy) in the Context of Climate Change. Geosciences 2021, 11, 424. https:// doi.org/10.3390/geosciences1110342

Academic Editors: Jesus Martinez-Frias and Hans-Balder Havenith

Accepted: 11 October 2021 Published: 15 October 2021

Publisher's Note: MDPI stays neutral with regard to jurisdictional claims in published maps and institutional affil-lations.



Copyright: © 2021 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https:// creativecommons.org/licenses/by/

1. Introduction

1. Introduction
The Earth's changing climate is causing alterations in a vast number of environmental conditions [1-6], that trigger, inter alia, different geological hazards such as floods, landslides and coastal erosion. Such phenomena have been largely studied from a physical point of view, using mathematical models in order to quantify the impact and predict future scenarios [2]. Moreover, because of the alarming speed of ongoing changes, research is also focusing on evaluating the vulnerability to climate change and geobazards considering cultural, social, and economic factors [7-20]. Climate change is indeed a global phenomenon, mitigation for which requires both global and local effort, while adaptation to its impact is mainly feasible by considering specific features at a local scale [21]. Although climate change has been strongly associated to an issue of global governance, even in terms of disaster risk reduction [22], the role of the specific geographical context, at different scales, has been recognized only more recently [23].

disaster risk reduction [22], the role of the specific geographical context, at different scales, has been recognized only more recently [23].

As a matter of fact, due to its geographical, physical and geomorphological setting, Italy is severely affected by climate change, even though in a nonuniform manner [24]. For example, a study carried out by Lionello et al. [23] showed that precipitation decreased more in the center and south than in the north, especially in the winter period. Moreover, the frequency and intensity of climate-related geohazards seems consistently related to ongoing local climate change [26–28]. For instance, studies conducted throughout Italy at the regional-local scale show that the projected changes in precipitation patterns are expected, in some cases, to increase [29,30], while, in other cases, to decrease [31,32] the probability of landslides occurrence. Particularly, the Veneto region, located in northeast

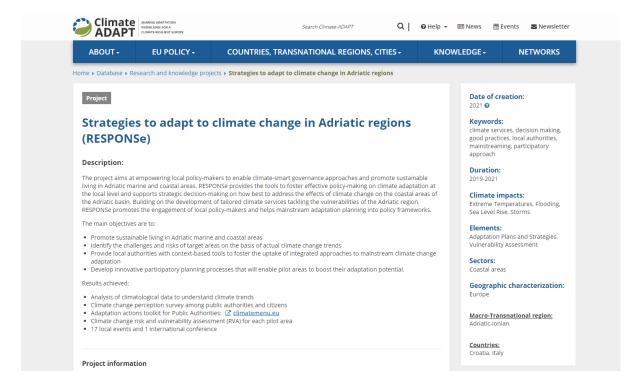
Geosciences 2021, 11, 424. https://doi.org/10.3390/geosciences11100424

https://www.mdpi.com/journal/geosciences



b) Climate Adapt

https://climate-adapt.eea.europa.eu/metadata/projects/strategies-to-adapt-to-climate-change-in-adriatic-regions





c) Italian society for climate sciences - 9th SISC annual conference "Accelerating climate action - A just transition in a post-covid era" 22/24 Sept 2021, on line - Book of abstracts

https://www.sisclima.it/conferenza-annuale-2021/posters-presentations/

https://files.sisclima.it/conference/2021/presentations_ok/giaiotti2.pdf

7. Predicting climate change in the context of risk and adaptation options

ORAL

A novel approach in supporting the local authorities to define adaptation actions to climate change

Federica Flapp(b), Lia Gover(g), Elisa Sfiligoi(g), Martina Arteni(f), Sara Ursella(f), Dario GIAIOTTI(a), Elena Gianesini(a), Alessandro Minigher(a), Alex Pividori(a), Massimo Bagnarol(a,d), Simone Martini(a,d), Alessandro Acquavita(c)

(a) ARPA FVG - CRMA, Regional Center for Environmental Modeling, Palmanova, Italy; (b) ARPA FVG - OSMER, Regional Meteororological Observatory, Palmanova, Italy; (c) ARPA FVG - SOS Sea and Transitional Water Quality, Palmanova, Italy; (d) ARPA FVG - IPAS Emergency Response System, Palmanova, Italy; (e) ARPA FVG - SOC Integrate Management Systems, Palmanova, Italy; (f) APE FVG - Energy Management Agency of Friuli Venezia Giulia, Gemona del Friuli, Italy; (a) IMFOMEST - Gorizia, Italy

Corresponding author: Dario Giaiotti, e-mail: dario.giaiotti@arpa.fvg.it

Keywords: Adaptation actions; impacts; stakeholder; participatory process

Climate change and its effects are both evident in Friuli Venezia Giulia, proved by data that show trends. In the region, several EU funded projects are tackling these issues, both from a mitigation and from an adaptation perspective. Most of the projects involve comparable activities, such as context analysis, improvement of climate monitoring and modelling systems, existing plans survey, stakeholders mapping and participatory processes.

Overlapping of initiatives occur inevitably and this is not a shortcoming, since the complexity of the problem requires a manifold approach. On the other hand, the risk to fall into discrepancies and inconsistencies among methodologies and results in not negligible. Furthermore, currently there are multiple participatory processes underway in the same area, often engaging the same stakeholders' categories and individuals.

Sharing this awareness, two INTERREG Italy-Croatia projects, namely AdriaClim [1] and RESPONSe [2], are joining their efforts to support local Public Authorities in Friuli Venezia Giulia coastal and lagoon area to find the way towards harmonized climate actions, focusing especially on planning climate change adaptation at a local scale.

A new perspective in the participation of the stakeholders in the climate change adaptation process is applied. According with this approach, the flow of information, form stakeholders to the analysts, is a continuous process as climate change is, so the resources available from the two projects are focused in maintaining open the communication channel, in spite of the typical life time of each project, which is very short in comparison of characteristic adaptation times.

To this end, AdriaClim and RESPONSe project partners which are permanently operating on the area, that is ARPA FVG [3], APE FVG [4] and INFORMEST [5], are experimenting a top down and bottom up approach in collecting and analyzing the data on the very local climate change related risks. The continuous flow of information is bidirectional; meanwhile the stakeholders rise the attentions on their

.....

"Accelerating Climate Action: A just Transition in a Post-Covid Era" Book of Abstracts

9