







### multi-Risk sciEnce for resilienT commUnities undeR a changiNgclimate

Codice progetto MUR: **PE00000005** – <u>B53C22004020002</u>



Deliverable title: Report on variables, processes and biases

**Deliverable ID: 5.1** 

Due date: 30 November 2023

Submission date: 30 November 2023

### **AUTHORS**

Marino Bonaiuto, Annalisa Theodorou, Alessandro Milani, Federica Dessi, Silvia Cataldi, and Alessandra Talamo
UNIROMA1

Luca Cetara, Tommaso Bastiani, Veronica Castiglione, and Pasquale La Malva EURAC

Emilia Corradi, Camillo Frattari, and Francesca Vigotti POLIMI

Anna Rinaldi and Ettore Gallo UNIBA

Adriano Schimmenti, Rubinia Celeste Bonfanti, and Giovambattista M. L. Presti UNIKORE

Francesca Comunello\*, Alessandra Massa\*, and Stefano Scippo\*\*

\*UNIROMA \*\*UNIFI

















## 1. Technical references

Project Acronym RETURN

Project Title multi-Risk sciEnce for resilienT commUnities undeR a changiNg

climate

Project Coordinator Domenico Calcaterra

UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II

domcalca@unina.it

Project Duration December 2022 – November 2025 (36 months)

Deliverable No. DV5.1

Dissemination level\* PU

Work Package WP5 - WP Psychological, sociological and behavioral aspects in

decision making

Task T5.1 - Measurement of the gap between objective risk and perceived

risk, analyzing existing evidence on relevant variables affecting

people's choices.

Lead beneficiary UNIROMA1

Contributing beneficiary/ies EURAC, POLIMI, UNIBA, UNIKORE, UNIROMA1, UNIFI

\* PU = Public

PP = Restricted to other programme participants (including the Ministry Services)

RE = Restricted to a group specified by the consortium (including the Ministry Services)

CO = Confidential, only for members of the consortium (including the Ministry Services)









# 1.1 Document history

Version	Date	Lead contributor	Description
0.1	20.11.2023	Annalisa Theodorou, Alessandro Milani, Federica Dessi (UNIROMA 1)	First draft
0.2	23.11.2023	Marino Bonaiuto, Silvia Cataldi, Alessandra Talamo (UNIROMA 1)	Critical review and proofreading
0.3	29.11.2023	All participants to TK 5.1	Integrations and edits for approval
1.0	30.11.2023	All participants to TK 5.1	Final version









## 2. Abstract

Managing the risk of natural hazards entails risk assessment by experts and the consequent participation of populations for engagement in protection behaviour. Nevertheless, lay people's risk perceptions do not always follow statistical previsions or probability calculations to evaluate risk. Thus, to understand how to better motivate individuals to perceive risk and to act basing on it, it is crucial to find the antecedents of risk perception. The literature investigating the predictors of risk perception is flourishing; nevertheless, a summary of the state of the art is still lacking, apart from a few outdated and unsystematic reviews. Especially, a quantitative summary based on a meta-analysis may provide specific effects for each antecedent as well as the identification of moderators of the relationship between each predictor and risk perception. Thus, the aim here is then twofold: identifying effect sizes and finding possible moderators. Results for the first aim showed that several antecedents resulting from the literature search were found significant and that they could be classified as: 1) factors related to the relationship between the individual and the risk; 2) factors related to the relationship between the individual and the community, and 3) individual factors (i.e., sociodemographic and dispositional factors). All in all, the first cluster concerning factors related to the relationship between the individual and the risk shows the highest number of significant variables with strong effects. Regarding moderators, the type of natural hazard considered, and the level of risk area of the sample result relevant in same cases. Implications and future research directions are discussed.