

## Conclusions of the Third European Conference on Risk Perception, Behaviour, Management and Response – ECRP22

Samuel Rufat, Karsten Uhing, Maike Vollmer, Alexander Fekete, Giacomo Bianchi, Christian Kuhlicke

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# CONCLUSIONS OF THE THIRD EUROPEAN CONFERENCE ON RISK PERCEPTION, BEHAVIOUR, MANAGEMENT AND RESPONSE ECRP 2022





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European Commission

## CONCLUSION OF THE EUROPEAN CONFERENCE ON RISK PERCEPTION, BEHAVIOUR, MANAGEMENT AND RESPONSE







The Third ECRP conference in June 2022 in Berlin, Germany, has gathered again our two communities, the Risk Perception and Behaviour Survey of Surveyors (Risk-SoS) and the H2020-DRS-01 Cluster on risk perception and adaptive behaviour (a grouping of several Horizon Europe - Disaster Resilient Societies projects, most notably RESILOC, BUILDERS, CORE, ENGAGE, LINKS, RiskPACC). One of the key challenges for risk, vulnerability and resilience research is how to address the role of risk perceptions and how perceptions influence behaviour. It remains unclearwhypeoplefailtoactadaptivelytoreduce future losses, even when there is ever-richer information available on natural and humanmade hazards (flood, drought, etc.). The current fragmentation of the field makes it an uphill battle to cross-validate the results of existing independent case studies. This, in turn, hinders comparability and transferability across scales and contexts and hampers recommendations for policy and risk management. The ECRP conference cycle aims to contribute to improve the ability of researchers in the field to work together and build cumulative knowledge.

In an hybrid format, the Third ECRP conference has gathered 40 researchers, experts and practitioners from 14 countries (Austria, Belgium, Estonia, France, Germany, Italy, the Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, and the United Kingdom) at the Fraunhofer Forum in Berlin, Germany. The panels and workshops crossed disciplines (complexity science, economics, engineering, geography, history, life science, psychology, sociology, among others), including fields from all the Disaster Risk Reduction cycle phases (from early warning to insurance through perception, vulnerability, behaviour, management, resilience, etc.), and using diverse case studies from ongoing European projects to bring together a panoramic European discussion of the on-going research and practice.



## **BERLIN ACTION POINTS**

Following the presentations, discussions and group work, the 40 experts identified action points for future research on risk perception, behavior, management and response:



Better understanding through comparison of methods and triangulation of results is already visible since the first conference, this effort must be continued

> Better take into account and understand the perception and behavioural dynamics

Challenging the "new normal": producing evidence on the assumed connection between increased risk information, knowledge, agency and the expected protective actions

More focus on shared challenges by improving the usage of theories

Involve users to improve

usability of social media tools

Improving communication and defining key points of risk communication can bridge gaps

Harmonise questionnaires and find minimum standards to compare studies and results

Importance to

counterbalance quantitative

perspective with more

qualitative, in-depth

explanations

of survey results, through Eurobarometer or shared questionnaires

Understanding local contexts, collecting "thick descriptions", questioning the role of "culture" in risk perception, and engaging more with local actors

Include some questions into the Euro-Barometer or European Social Survey and/or existing longitudinal surveys

More comparative analysis

Surveys should address the supportive structures and to what extent they are accessible to various social groups to mitigate or adapt to hazards

Challenges in finding the right questions to share, tension between general or context-specific questionnaires

Test study designs with scientists in different fields, context, countries

## **CHALLENGES IN USING THEORIES IN DISASTER RISK RESEARCH**

All research is based on theoretical assumptions. Yet, such assumptions are often not clearly stated. In research on risk perception and adaptive behaviour a rather small proportion of studies explicate their theoretical basis and how it informed their empirical analysis. However, explicating theoretical assumption is beneficial to various reasons:



#### Increasing transparency

i.e. other researchers can assess underlying assumptions and rationales



#### Stimulating incremental or revelatory advancements

i.e. building on existing theoretical framework or developing new frameworks allowing counter-intuitive insights



#### **Ensuring comparability of findings**

i.e. comparing studies conducted in different geographical settings and, by doing so, drawing more general conclusions



#### Informing and influencing decision-making processes on the policy-level

i.e. distilling a clear-cut message from science to stakeholders, especially for decision-making processes, based on a robust evidence base

Further reading: Kuhlicke, C., de Brito, M. M., Bartkowski, B., Botzen, W., Doğulu, C., Han, S., Hudson, P., Karanci, A. N., Klassert, C., Otto, D., Scolobig, A., Moreno Soares, T., & Rufat, S. (2023). Spinning in circles? A systematic review on the role of theory in social vulnerability, resilience and adaptation research. Global Environmental Change, 80, 102672.

### Explicit engagement is challenged by different reasons:



Theories are usually grounded in disciplinary traditions and "languages" which often hamper cooperation in an interdisciplinary research environment

adaptive behaviour



Responding to the demands of practitioners are often favoured over contributing to an established theoretical reference body

What is needed?

- An awareness of the relevance of institutional capacity and long-term commitment to certain topics, themes and frameworks
- A greater encouragement to engage with theories in applied research projects to ensure outcomes that are of relevance not just for specific



A lack of awareness of and/or knowledge (incl. training) about the existence and relevance of theories in research on risk perception and

• A greater reflexivity about and appreciation of the role of theories in this field of research, including tolerance for new ideas and for younger researchers

settings and contexts but contribute to a larger body of empirical evidence

## **RECOMMENDATIONS ON SHARING AND TESTING QUESTIONNAIRES**



## **OPEN QUESTIONS FROM THE ECRP**



- How to integrate risk perception work into risk assessments?
- What does risk peception mean to decision-makers and how can it be integrated into the resilience cycle?
- What is the risk tolerance of actors being influenced by risk perceptions?
- How is risk perception influencing the various components of national (government) resilience cycles (or framework)?
- Develop a holistic review of tools to bridge science policy
- Challenge of operationalising constructs such as social capital
- To explore more the consequences of risk communication on risk perception - define key points of risk communication for improving

### Suggested questions to implement in future questionnaires:

#### Question to capture Awareness

- happen in the next one to xxx years?
- What are the first five words that come to your mind when speaking of..

- Do you agree? do you expect? Many discussions on the framing of the questions and answer scales
- Usually questions target awareness with exposure, thoughts, emotions Prefer list of examples instead of open questions

#### Question to capture Information & knowledge

- Would you share this information with someone?
- Did you know where to get help to actually get

- Did you know what to do after you got the
- Did you actively look for information or was it

- empirical knowledge, rather than theoretical

Question to capture <b>Previous hazard experience</b>	
	How likely do you think the area you live in is a
	of the following types of natural disasters?
	In the last xx years have you experienced any

- following natural or man-made hazards?
- Do you feel that your property is exposed to a

- In your opinion what is the probability, that a
- Have you ever been directly involved in xxx?
- How likely do you think you are exposed to xxx?
- Asking the zip code / address to then compare with

#### Question to capture Actual & perceived exposure

- To what extent do you agree with the statement?
- prevent damage caused by xxx, according to you, what are the most urgent ones to adopt in your
- Have you ever personally looked for information on
- How effective do you believe implementing this measure would be in reducing the risk of xxx to your home and possessions?
- Scale 1-5. Repeat question aiming for 5 years
- you to implement this mitigation / adaptation
- What measure or steps did you take?
- the adaptation?

## Keynote presentations

Kristi Nero, *Risk scepticism among socially marginalised individuals in Europe: lessons from BuildERS survey*, University of Tartu, Finland

Joseph Cullen, *Community-based adaptive behaviour modelof resilience*, The Tavistock Institute, United Kingdom

Bruria Adini, Survey on risk perceptions of natural and humanmade disasters, a cross-sectional study in eight coun-tries, Tel Aviv University, Israel

Selby Knudsen, *The "Risk Perception-Action Gap": Two-waycommunication in risk management*, Trilateral Research, United Kingdom

Nadya Komendatova, Impact of social media on risk perceptions, IIASA, Austria

Philip Bubeck, *Surveying people at risk on warnings and communication after the 2021 flood in Germany*, University of Potsdam, Germany

Paola Fon-tanella Pisa, *Surveying disaster risk perception and climatechange adaptation in global mountain regions*, UNU-EHS, Eurac Research, Italy

#### **Previous conferences**

Rufat S., Plattard O., Fekete A., Gilli L., Hudson P., Santoni V. (2021). *Conclusions of the Second European Conference on Risk Perception, Behaviour, Management and Response - ENCORE 2021*. CY Cergy Paris University, France. ANR-20-CE03-0009. https://hal.science/hal-03465539v1/document

Rufat S., Fekete A. (2019). *Conclusions of the first European Conference on Risk Perception, Behaviour, Management and Response*. University of Cergy-Pontoise, Paris, France. https://shs.hal.science/halshs-02486584v1/document

Rufat, S., de Brito, M., Fekete, A., Comby, E., Robinson, P. J., Armaş, I., Kuhlicke, C. (2022). *Surveying the surveyors to address risk perception and adaptive-behaviour cross-study comparability*. Natural Hazards and Earth System Sciences, 22(8), 2655-2672. https://doi.org/10.5194/nhess-22-2655-2022

DRS-01 cluster: https://www.riskpacc.eu/drs-01-cluster/

Subscribe to the Risk-SoS webinars: https://groupes.renater.fr/sympa/subscribe/risk-sos

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