

2nd ERA-Net CRUE Research Funding Initiative

RISK MAP

Improving Flood Risk Maps as a Means to Foster Public Participation and Raising Flood Risk Awareness: Toward Flood Resilient Communities

Volker Meyer¹, Christian Kuhlicke¹, Herwig Unnerstall¹, Sven Fuchs², Sue Tapsell³, Sally Priest³, Wolfgang Dorner⁴, Kamal Serrhini⁵



Abstract RISK MAP aims at improving risk maps as a means to foster public participation and raising flood risk awareness. For achieving this aim RISK MAP (1) develops rules for the appropriate stakeholder participation enabling the incorporation of local knowledge and preferences; (2) improves the content of risk maps by considering social, economic and environmental risks by means of a deliberative multicriteria risk mapping tool (3) improves the visualisation of risk maps in order to produce user-friendly risk maps and (4) provides quantitative information related to the content of risk maps by the application of eye-tracking methods and by experimental graphic semiology.

Approach The project is organized along three working phases:

◀ During the first phase (**WP 1**) RISK MAP will investigate the status quo in risk mapping practice under special consideration of participation activities and legal framework.

◀ During the second phase (**WP 2**), firstly, rules for the inclusion of stakeholders will be developed. In each case study two stakeholder workshops will be carried out. During the first workshop participants will identify new risk criteria and specify limitations of existing risk maps. Based on this new risk maps will be compiled considering

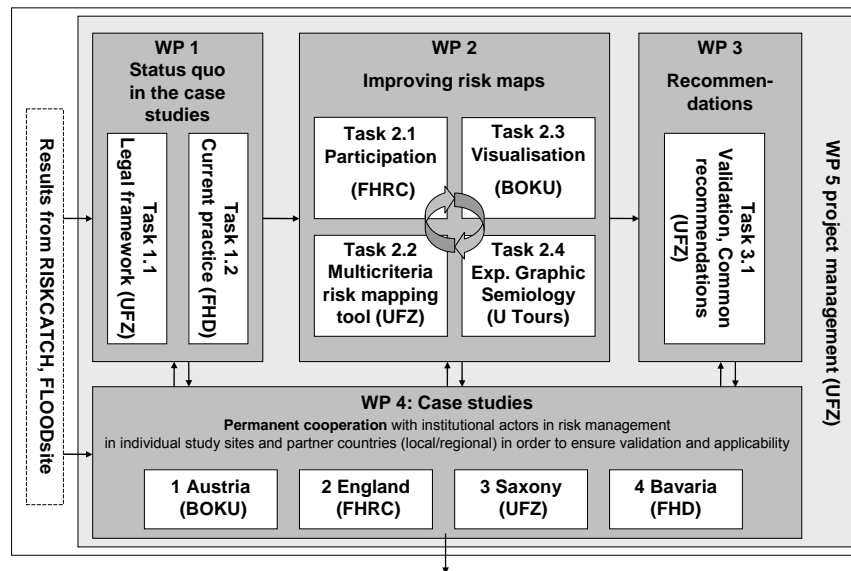
- ◀ (1) new risk criteria and
- ◀ (2) an improved visualisation.

These improved risk maps will be tested by selected stakeholders with regard to their comprehensibility by means of eye-tracking tests. During the second workshops the results will be discussed with stakeholders; their preferences with regard to the different risk criteria are incorporated in a multicriteria risk mapping tool in order to produce final aggregated risk maps

◀ During the final phase (**WP 3**), the results from the case studies are compiled in a final report outlining common recommendations for improved risk mapping.

Case studies The research process is conducted in four case studies (**WP 4**). In each case study two stakeholder workshops will be organized.

Expected outcomes The major result of RISK MAP will be recommendations on how to organize participation in risk mapping and on how to improve the visualisation and content of risk maps.



**Acknowledgments/
Funding**



Contact Details

volker.meyer@ufz.de, christian.kuhlicke@ufz.de (coordinators)
sven.fuchs@boku.ac.at, S.Priest@mdx.ac.uk,
wolfgang.dorner@fh-deggendorf.de, kamal.serrhini@univ-tours.fr

