

2nd ERA-Net CRUE Research Funding Initiative

Decentralised Integrated Analysis and Enhancement of Awareness through Collaborative Modelling and Management of Flood Risk [DIANE-CM]

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Abstract

The DIANE-CM project aims at enhancing flood risk awareness by collaborative modelling and social learning. This process will be initiated in two test side areas in Germany and the United Kingdom. The DIANE-CM approach shall enhance the capacity of the stakeholders to cope with flood risk due to the interaction with experts with assistance of computer tools. The second aim is to better understand how data from hazard and vulnerability analyses and improved maps as well as the near real time flood prediction can be used to initiate a public dialogue in order to reduce flood vulnerability.

Objectives and Methodological Approach

The principal objective, means to meet the objectives and activities are as follows:

The main objective of the project is to develop and test the advanced methodology for enhancing the resilience of the local communities to flooding. This objective will be achieved by fulfilling the following goals:

- (a) Improvement of flood hazard and risk maps and near real time flood forecast,
- (b) Introduction of the innovative methods of risk quantification and communication in public dialogue for more informed and shared decision making with stakeholders
- (c) Increased participation of local communities in flood risk management enhanced risk awareness by **collaborative modelling**
- (d) Testing the developments in 2 selected case studies for a feature of "good governance"
- (e) Quantification of results, development of guidelines and advanced capacity building and dissemination.

Work packages (WPs)

WP 1: Stakeholder Analysis and vertical (top-down and bottom-up) and horizontal (multidisciplinary) interactions

WP leader: Prof. Mariele Evers PhD, Leuphana University of Lüneburg

WP 2: Data, Modelling, Mapping and NRT forecasting for stronger involvement of the local champions

WP leader: Prof. Čedo Maksimović, PhD, Imperial College London

WP 3: Development of shared flood risk strategies using a collaborative platform, creating and development of a set of flood risk management strategies together with stakeholders, modellers and communications experts

WP leader: Dr. Andreja Jonoski, UNESCO IHE, Delft

WP 4: Collaborative modelling for flood risk management and enhancing awareness

WP leader: Prof. Mariele Evers PhD, Leuphana University of Lüneburg

WP 5: Enhancing Resilience through Training, Awareness Raising and Dissemination

WP leader: Prof. Čedo Maksimović, PhD Imperial College London

Test sites

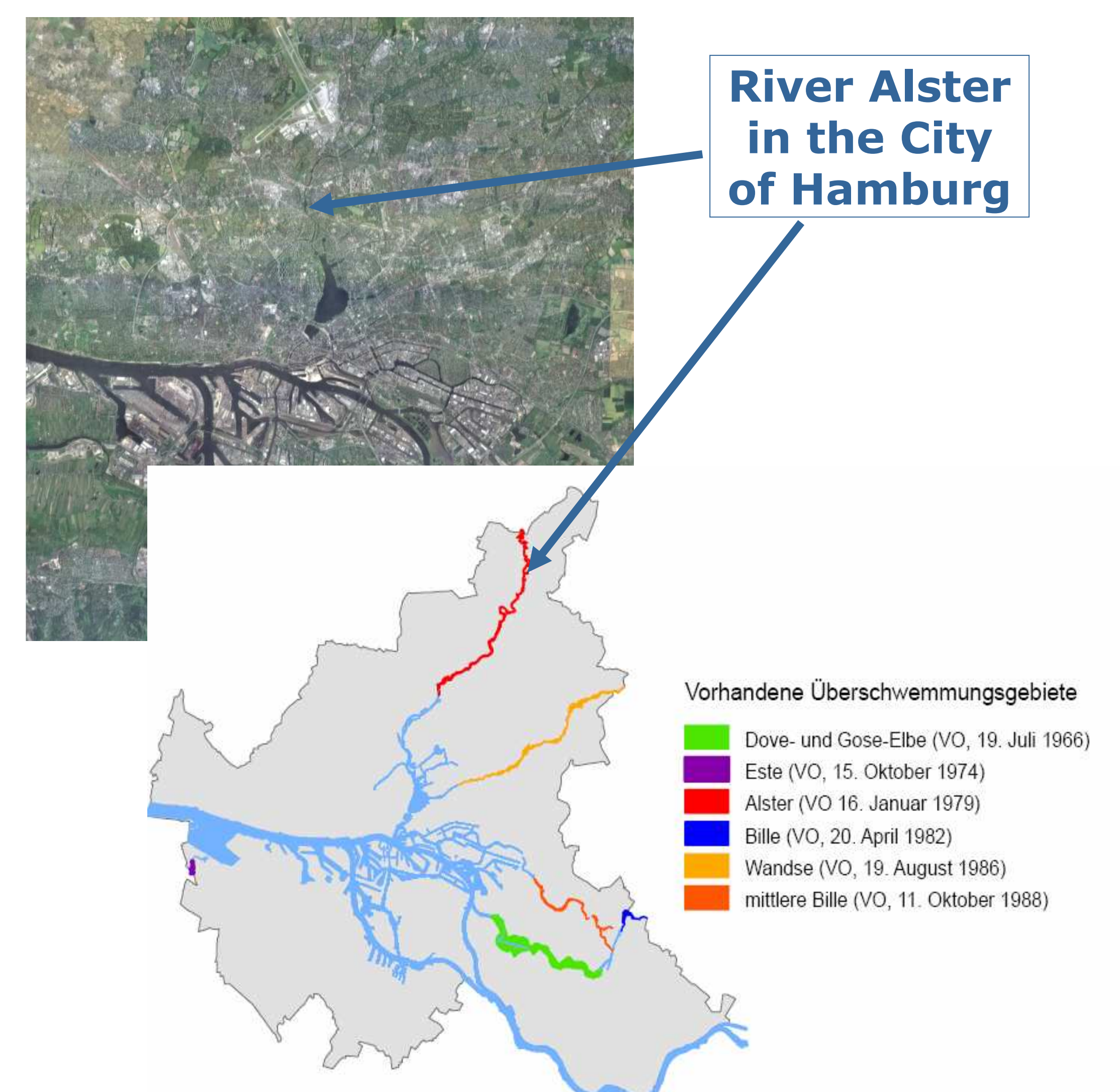


Figure 1. City of Hamburg (Google Earth) and Flood risk areas in Hamburg with the river Alster (Germany).



Figure 2. Location of the Redbridge case study site in the river Roding catchment (UK).

Acknowledgments

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