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Collaborative modelling for interactive participation in urban flood risk management

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This paper presents an attempt to enhance the role of local stakeholders in dealing with urban floods. The concept is based on the DIANE-CM project (Decentralised Integrated Analysis and Enhancement of Awareness through Collaborative Modelling and Management of Flood Risk) of the ERANET CRUE programme. The main objective of the project was to develop and test the advanced methodology for enhancing the resilience of the local communities to flooding by a participative and interactive approach. Through collaborative modelling, a social learning process was initiated which will enhance the social capacity of the stakeholders due to the interaction process. The other aim of the project was to better understand how data from hazard and vulnerability analyses and improved maps, as well as from the near real time flood prediction, can be used to initiate a public dialogue (i.e. collaborative mapping and planning activities) in order to carry out more informed and shared decision making processes and to enhance flood risk awareness - which will improve the flood resilience situation. The concept of collaborative modelling was applied in two case studies: (1) the Roding river/Cranbrook catchment in the UK, with focus on pluvial flooding, and (2) the Alster catchment in Germany, with focus on fluvial flooding.