

Flooding emergency concept

How can one handle different flooding scenarios responsibly?

Is there an adequate potential for the local authorities affected to react to the threat of flooding?



In Rhineland-Palatinate a **flooding emergency concept** for the community Kobern-Gondorf has been developed as an example within the scope of a **pilot project**.

Principal:

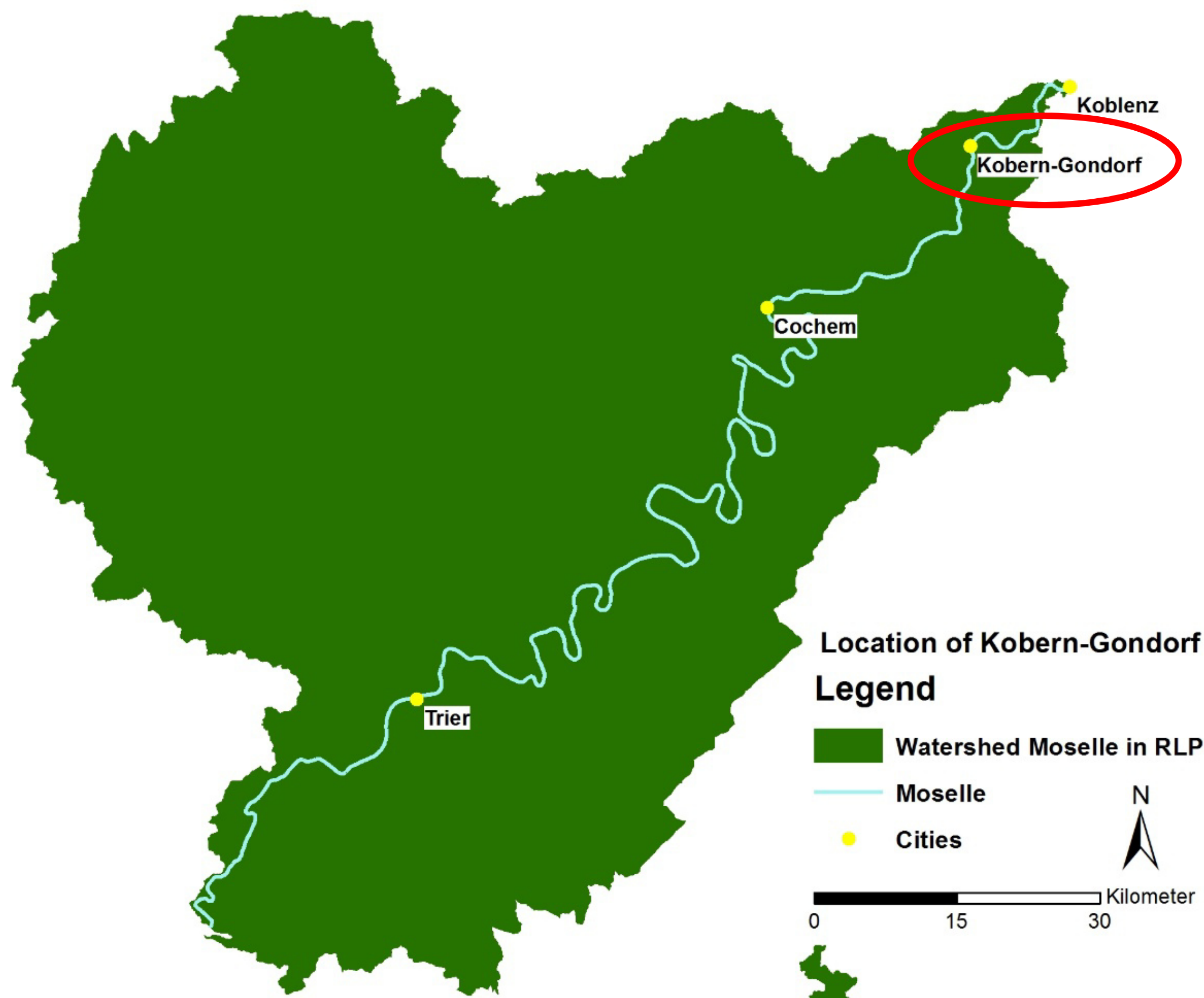


Contractor:

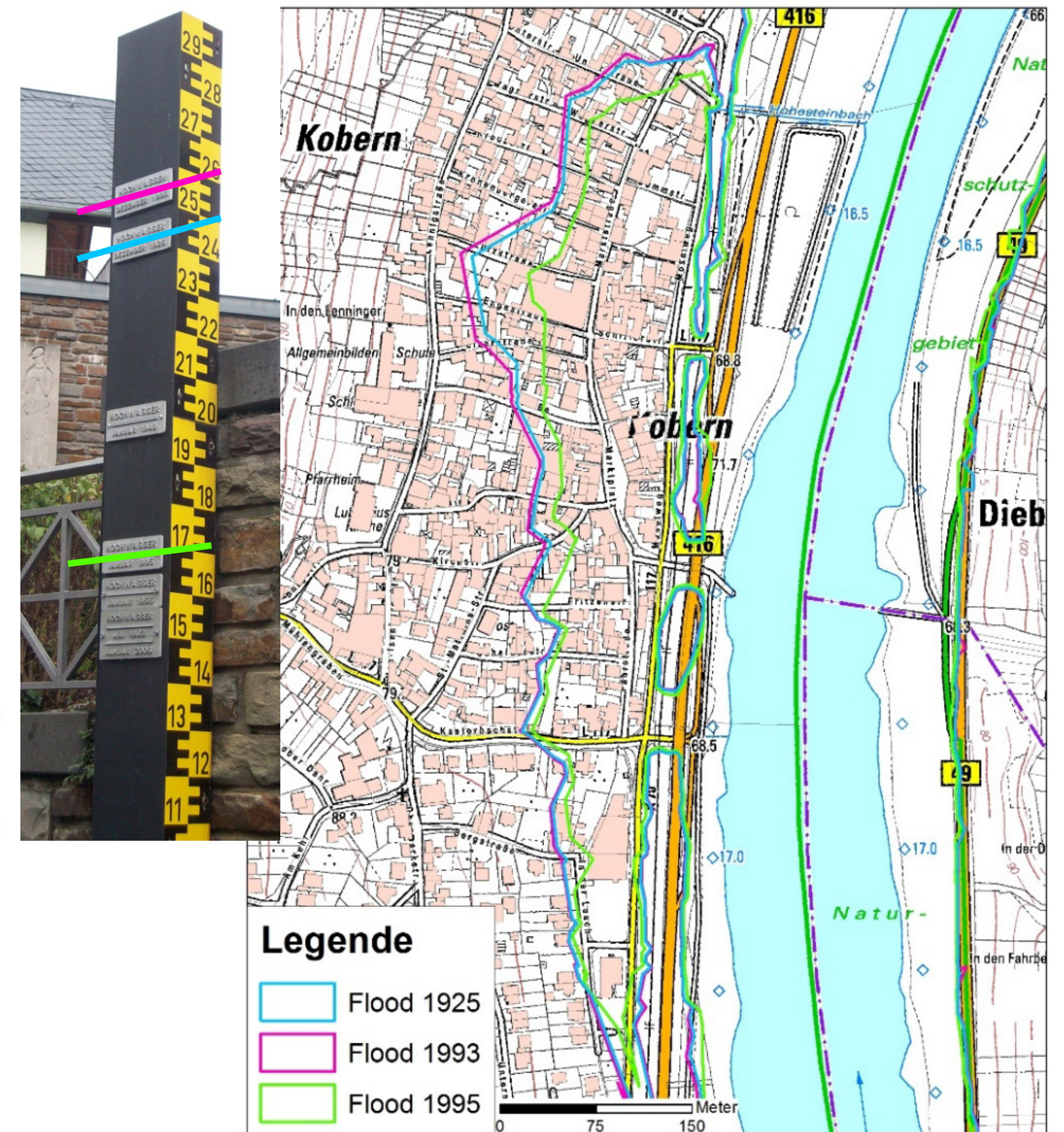


Frame Conditions of the project

Geographical location



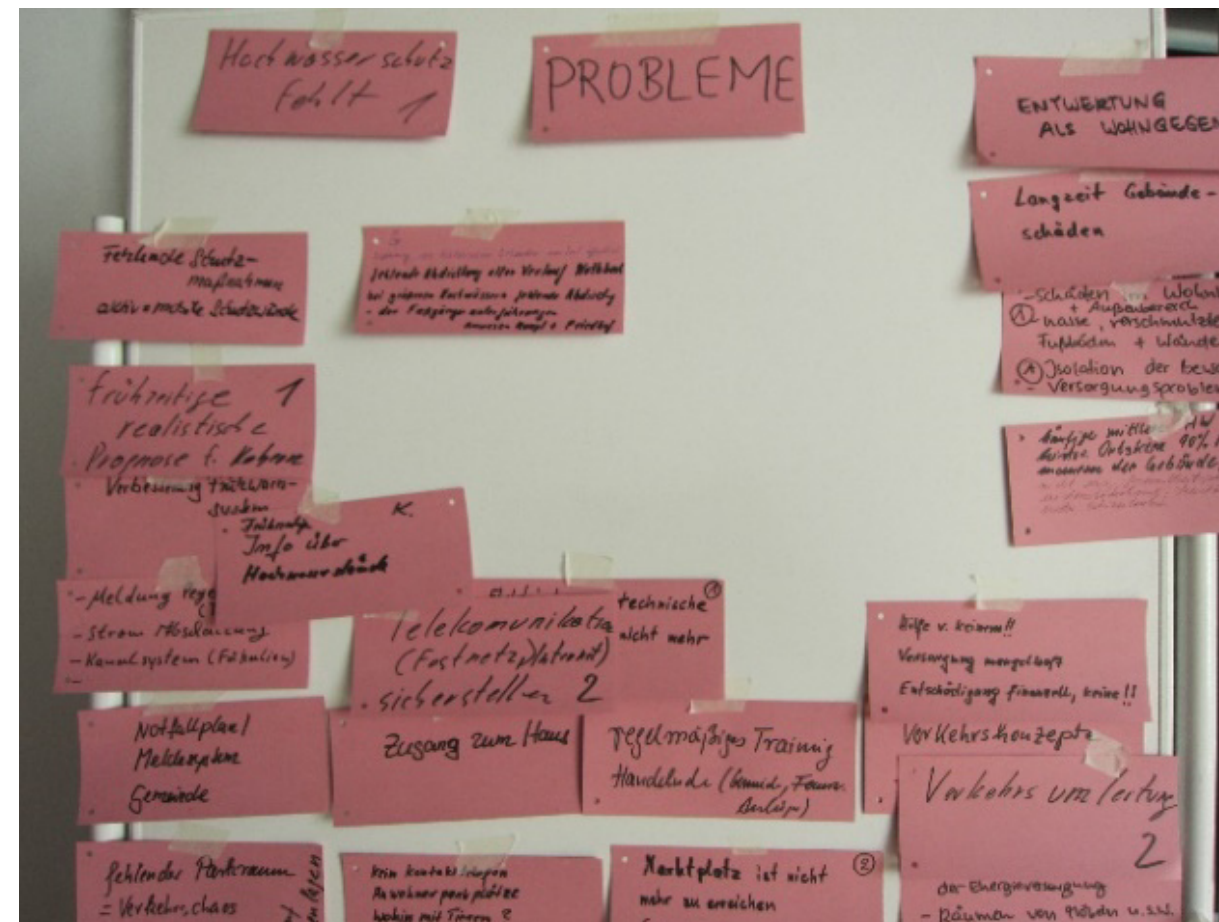
Flooding situation



➡ Demand by citizen to develop an emergency concept for floods

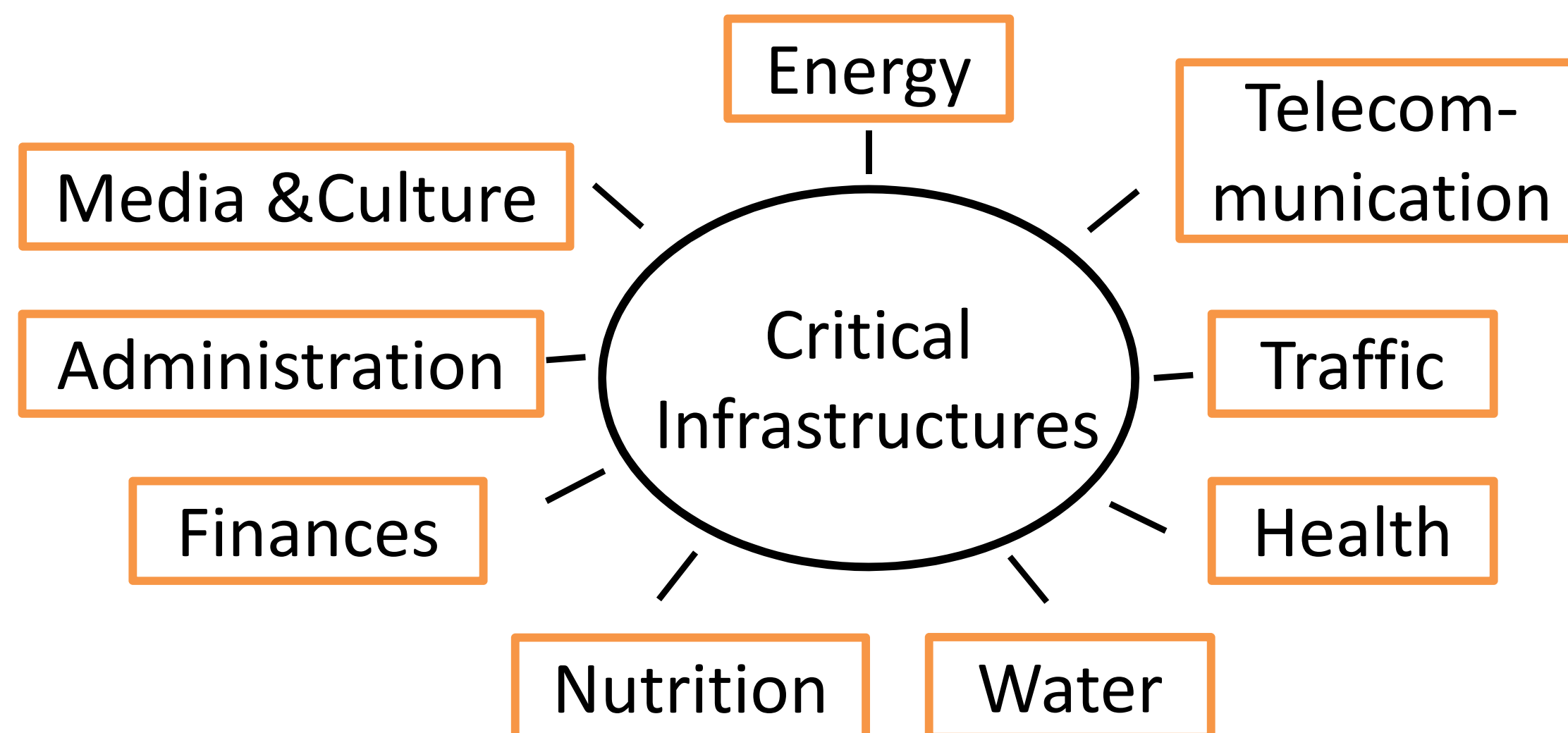
Applied Methods

Civic participation → Flooding Partnerships

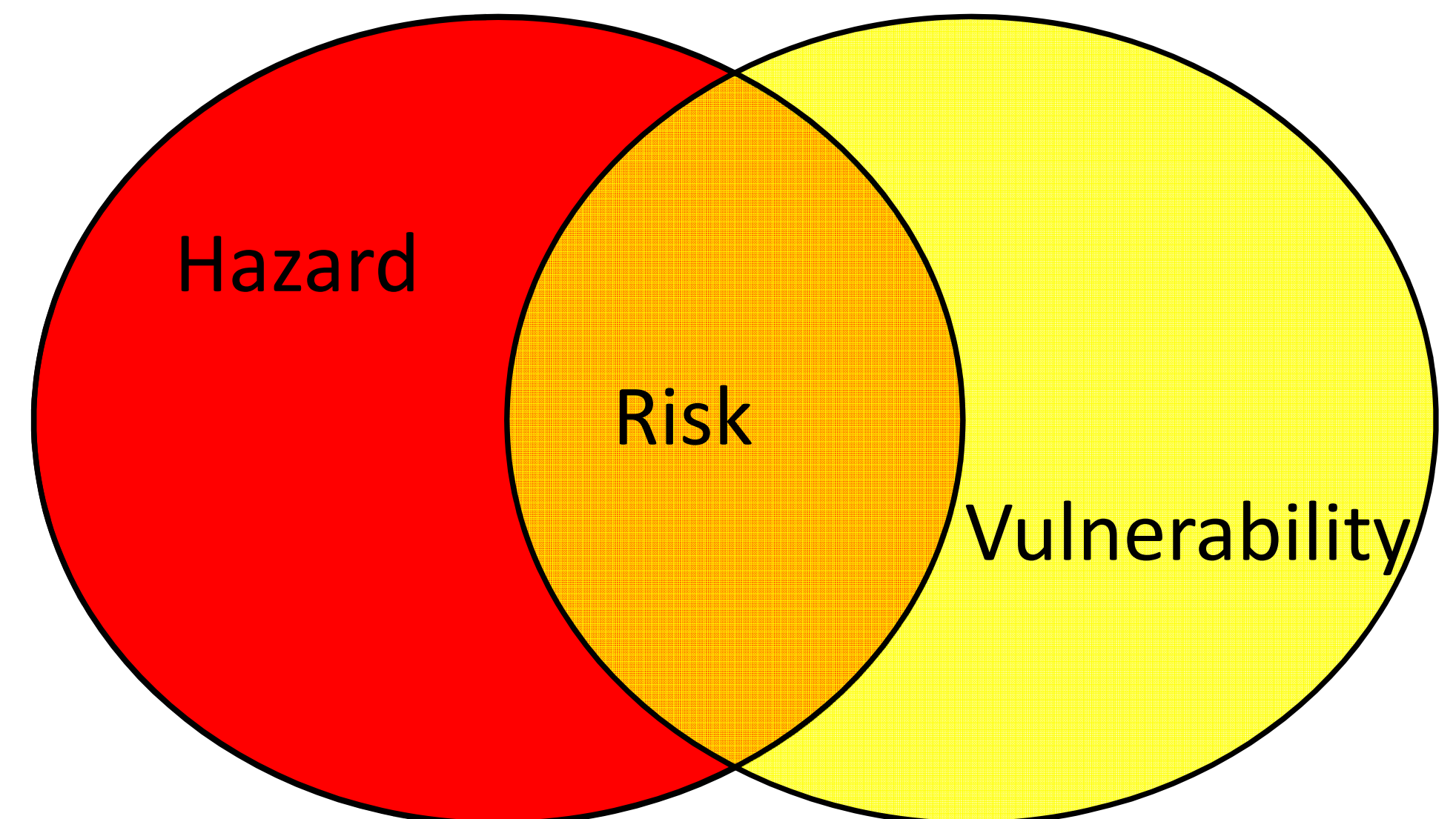


(Boettcher 2012)

Risk analysis for critical infrastructures



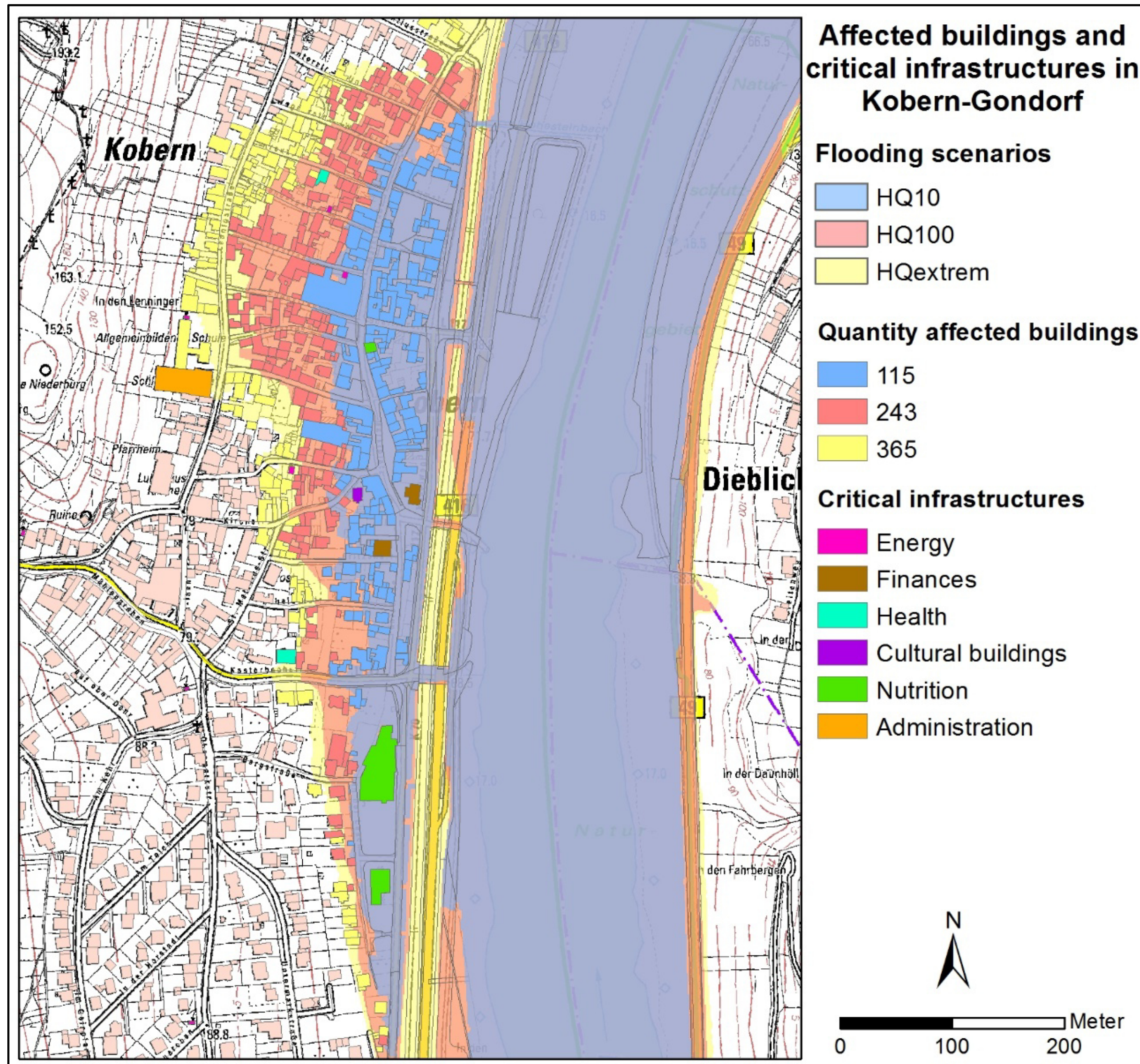
(based on BBK 2013)



(based on DKKV 2003)

Preparation for flooding

What do we have to expect when Kobern-Gondorf is flooded?



➔ High quantity of affected residential buildings and citizens

Scenario	Buildings	Citizen
HQ10	115	190
HQ100	243	370
HQextrem	356	690

➔ Electricity supply til HQ₁₀₀

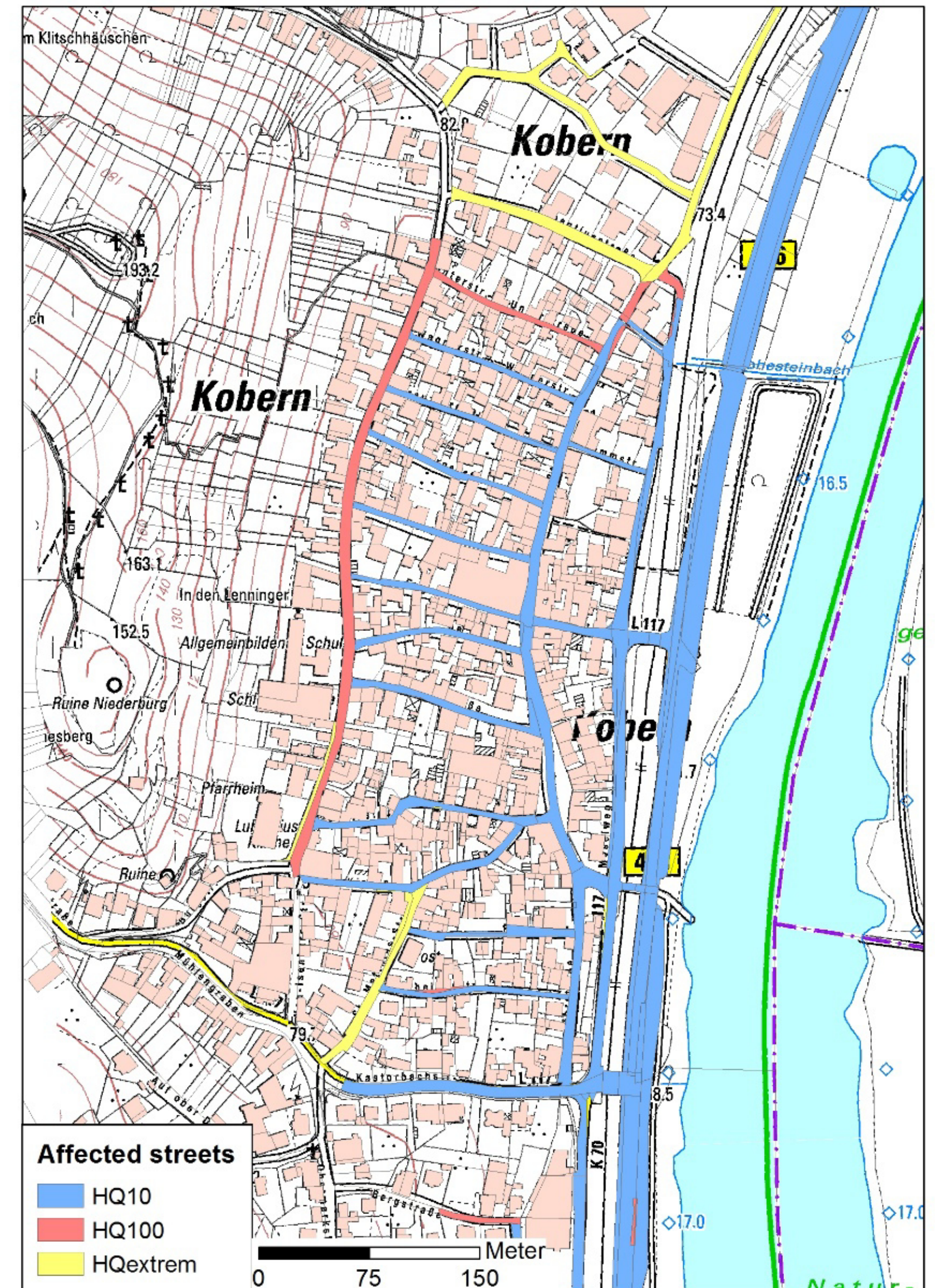
➔ Water supply ensured

➔ No effluent disposal from HQ₁₀ on

During and after flooding

What can we do against the expected effects of flooding?

- ➔ Hints for affected citizens what to do before, during and after a flood
- ➔ Concept for street closures depending on the water level
- ➔ Parking concept to prevent damage on parking cars
- ➔ Building up a neighbourly help for flooding, especially to support the needy



Lessons learnt and Outlook

What are the main lessons learnt in the project?

- Optimal flooding preparation for the citizens and the municipality of Kobern-Gondorf
- Chance to take action timely to prevent damages
- Concept can be transferred to other communities

Are there any open questions in the project?

- How affected are the plants of telecommunication?
- Is it possible to supply the citizens with food and medicine during the flood to prevent an evacuation?
- How far is the neighbourly help developed?

(all constituted maps base on the digital data of the Rhineland-Palatinate State Agency of Water Economy and Trade Control [LUWG])