

The Project FloodScan: Task Information and Communication

Research focus:

Optimize the information of the **general public**, especially the population in areas at risk, about flood risks via communication and information tools



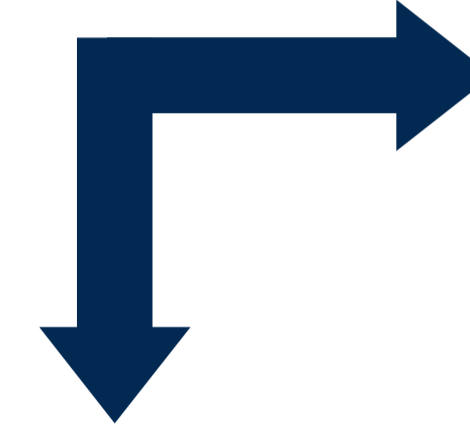
Basic objective: Evaluation of existing, further developed and new information tools used in flood risk communication from recipients' perspective



Evaluation of Flood Information Tables in the Flood Plains of three Bavarian Communities

Initiator's objectives:

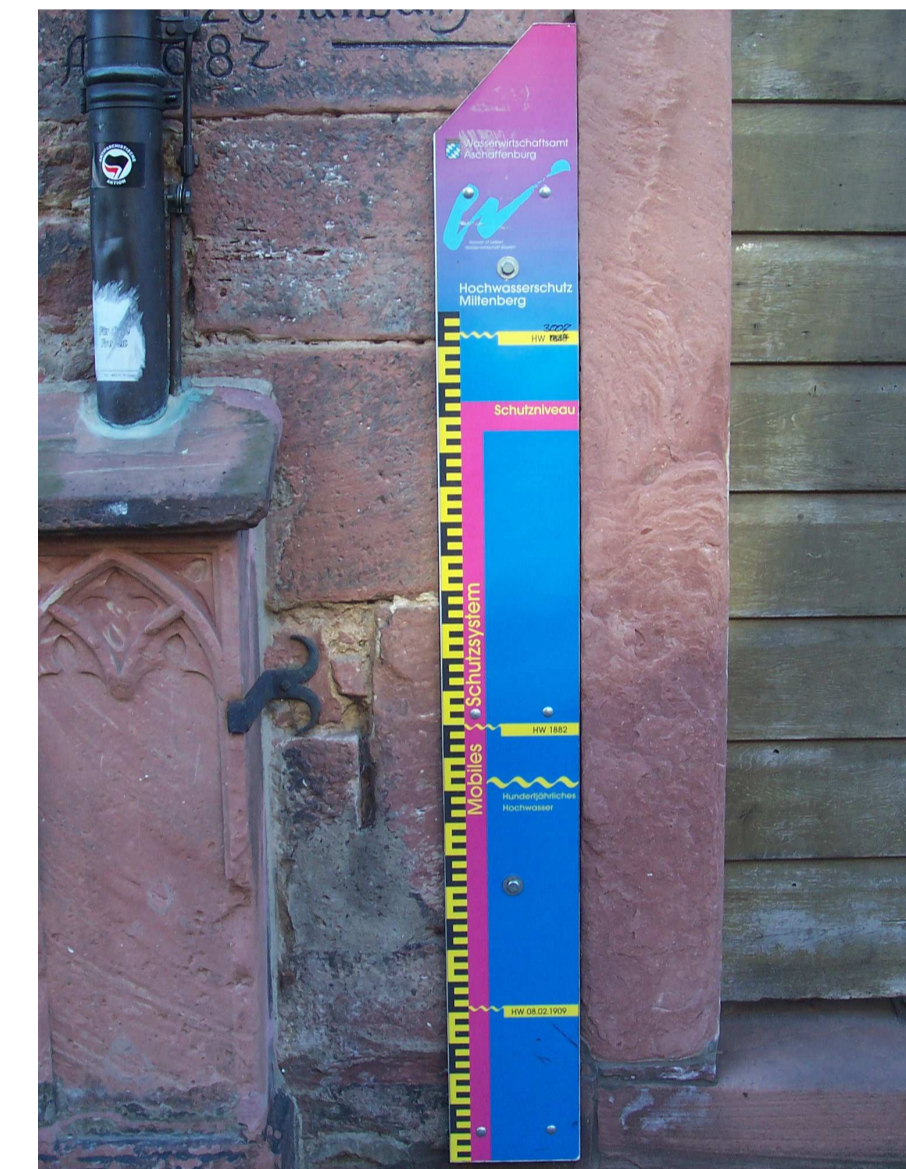
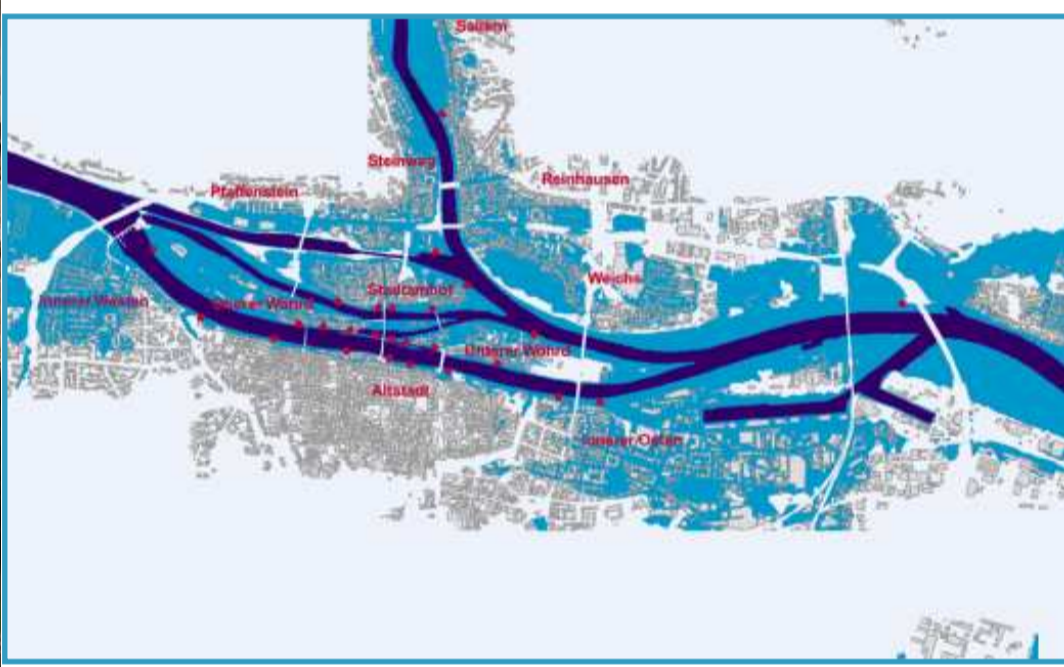
- Strengthen people's flood **risk awareness**
- People develop a **spatial imagination** of the local flood plain and possible flood extents
- People know about the „**100-year flood**“ and realise, that it can be higher than past flood events
- People accept the technical flood **protection measures**
- People get inspired to **further inform** themselves about the local flood risk situation



Are these objectives fulfilled?

Evaluation methods:

- Semi-standardized **questionnaire**, predominantly applying open questions (N = 193: 136 residents, 57 visitors)
- Mental maps** to analyse resident's spatial perception of the flood plain (N = 118)



„The Blue Plan“: Flood information tables at 28 sites within the designated flood plain of the rivers Danube and Regen in Regensburg

„The Blue Band“: More than 100 Flood information tables in the designated flood plain of the river Mangfall in Rosenheim

Historic center of Miltenberg: Flood information tables in the designated flood plain of the river Main

Evaluation from Recipients' Perspective

Spatial imagination of the local flood plain and flood extent

- 118 of 129 respondents generally think, that the water could rise
- Flood plain is almost exclusively **underestimated** or misjudged
- Imagination mainly based on: previous **flood experiences**, **relief elevation**, flood **protection measures**
- Only few** respondents attributed their mental maps to the **flood information tables**

100-year flood:

- 112 of 193 respondents know about the term, 16 defined it correctly, 88 chose the correct of two possible definitions
- The major part (116) **confirmed**: The tables show that the **water can be higher than past events**
- The major part (125) **did not doubt** that the water could rise up to **this extent**

Flood protection measures:

- 99 of 136 respondents are aware of flood protection measures, **mostly technical** ones
- According to **necessity, sufficiency, fitting character**: Known flood protection measures are **widely accepted**

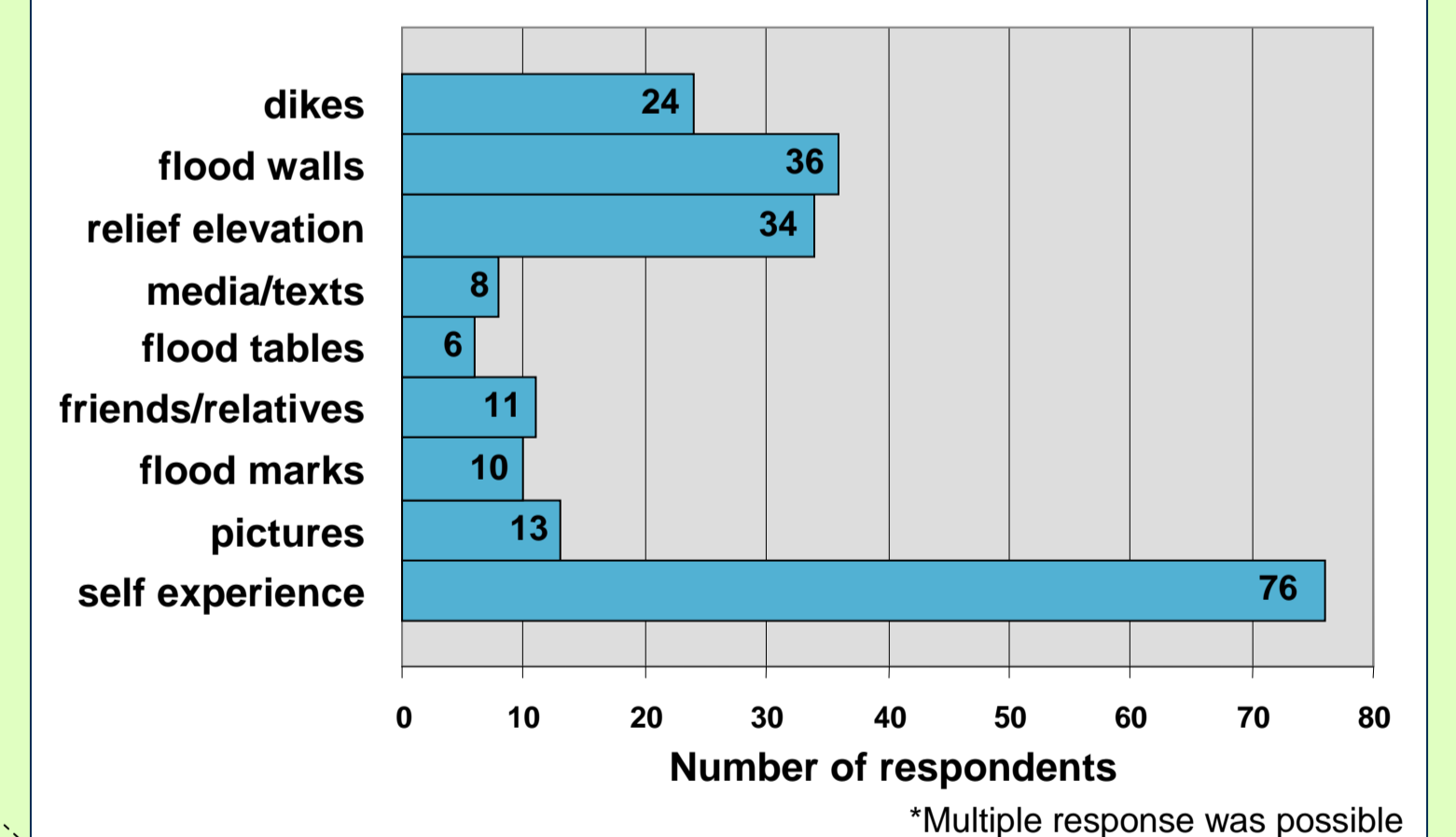
Risk awareness:

- 120 of 193 respondents are aware of the tables, but they **hardly influence** peoples' risk awareness
- Respondent's reasons: **residents know** about the risk; tables are **little-noticed by residents**; predominantly interesting for **tourists**

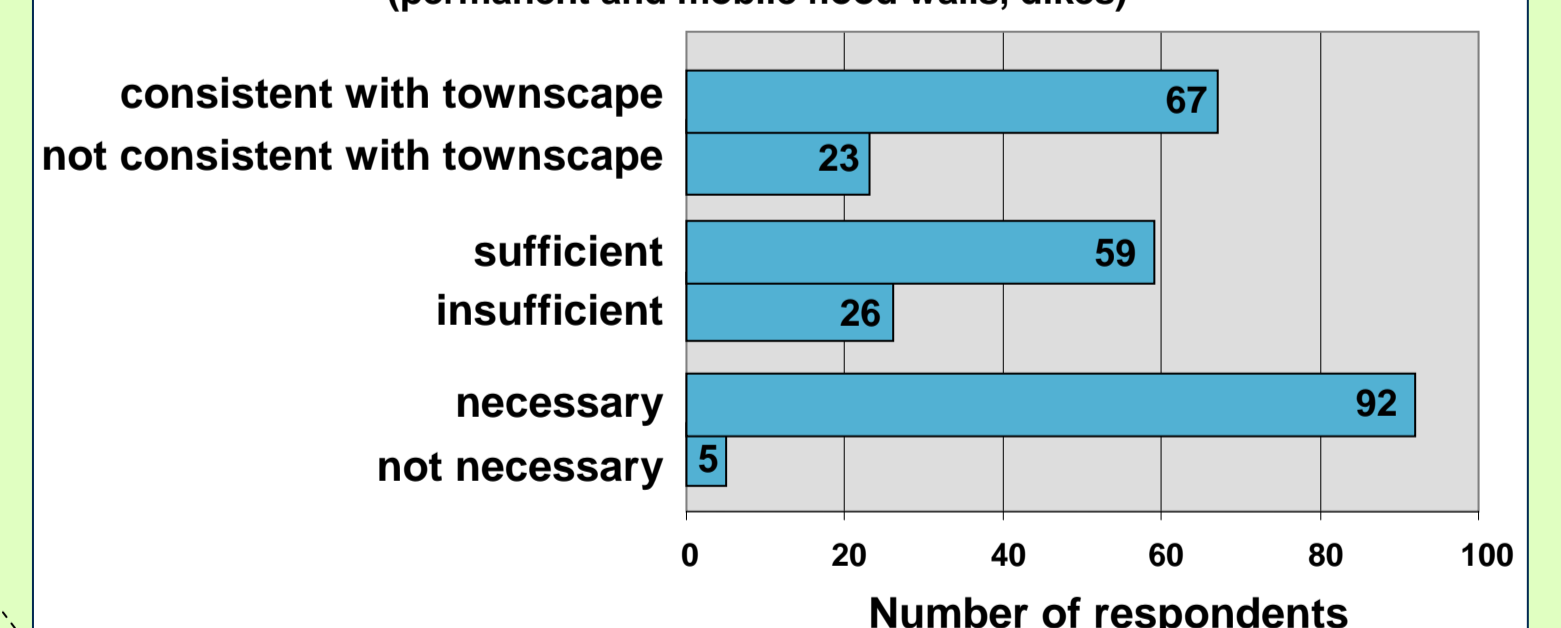
Further information:

- Flood information tables **hardly inspire** the viewers to search for further information about the local flood risk situation

Information basis to draw the individual mental map*



General evaluation of local protection measures (permanent and mobile flood walls, dikes)



Conclusion and Requirements for future Implementation



Initiator's objectives only **partly fulfilled**



According to recipients a **revised concept** requires e.g.: → striking design, but still consistent with historical values, like historical flood marks
→ more information displayed on the tables
→ less technical terms