

Integrated flood risk management

Risk management and risk maps

UNIVERSITY OF APPLIED SCIENCE – WATER AND ENVIRONMENT



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The beginning of the office

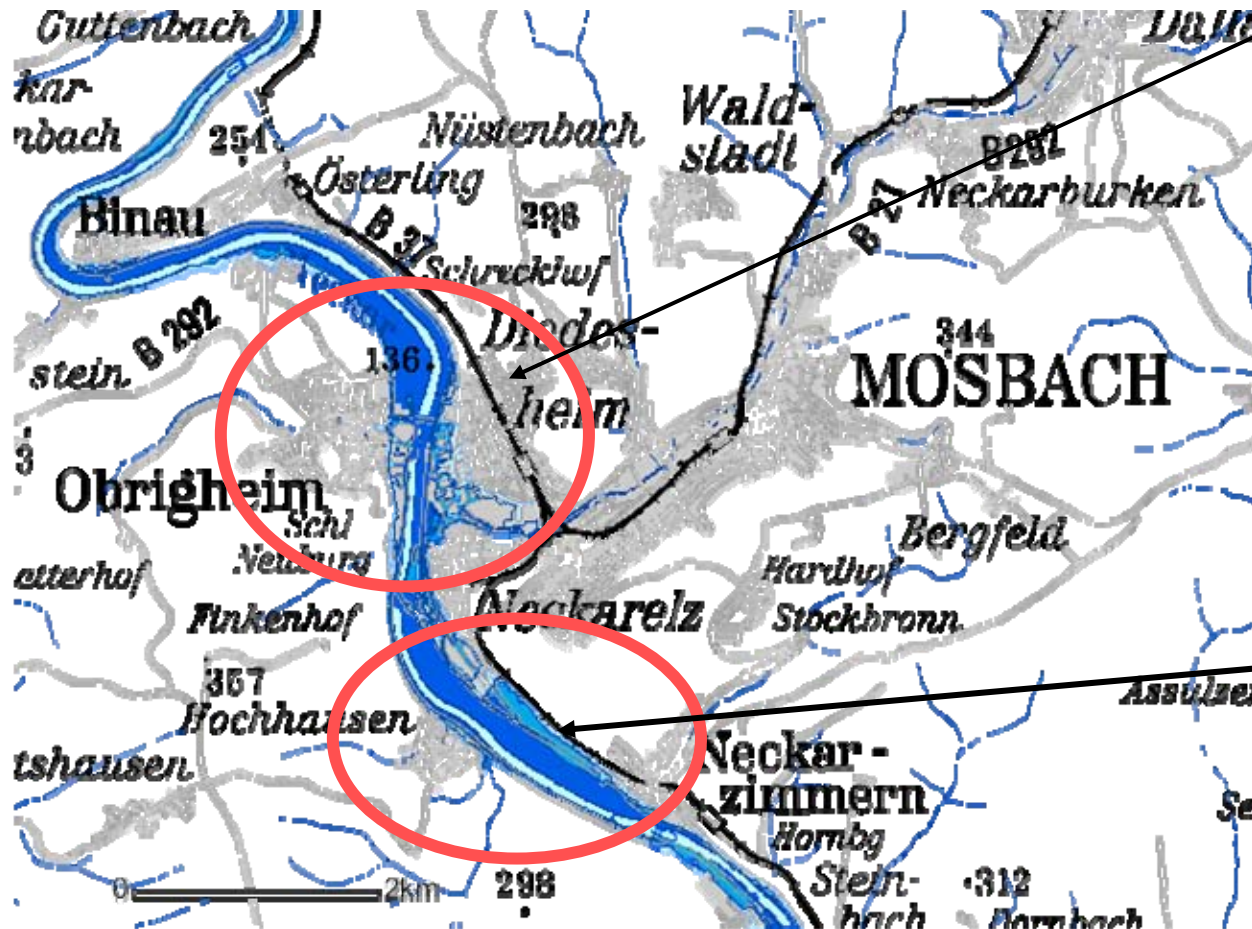


Risk maps

2006-03-21



Risk maps in general



Cities are involved

Meadow and foreland too

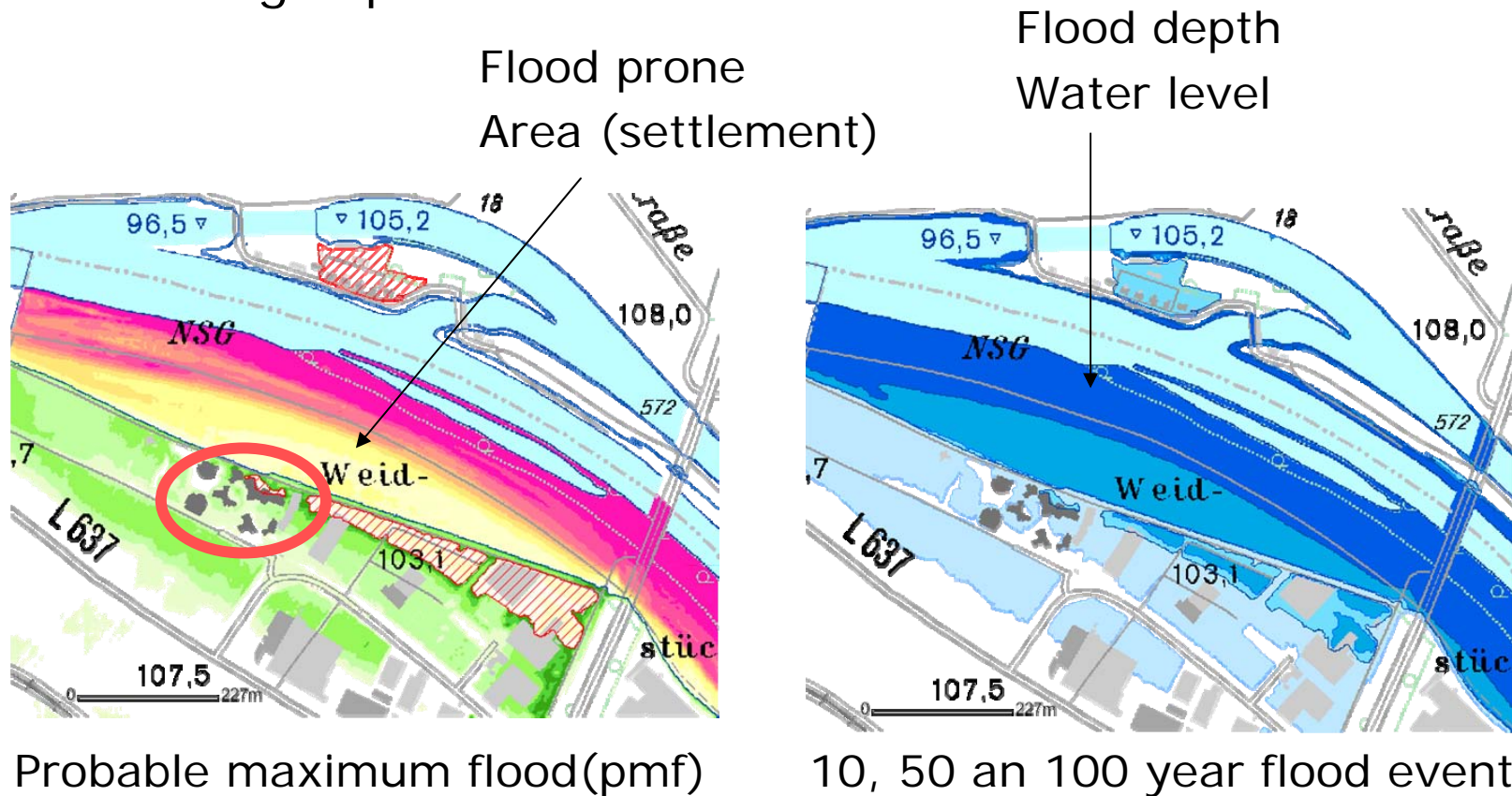
Risk maps

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Risk maps for the public

- Risk at a glimpse

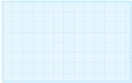
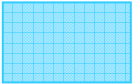


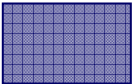
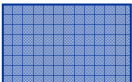


Risk maps

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Relevant flow depths

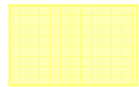
	0-10 cm	entering basement
	10-50 cm	entering ground floor, wade depth car (all terrain)
	50-80 cm	wade depth truck, wade depth pedestrian
	80-120 cm	wade depth truck (all terrain)
	120-250cm	big damage ground floor
	>250cm	first damages second floor



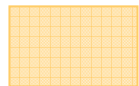
Relevant flow velocities



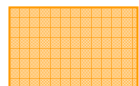
stagnancy



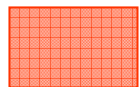
0.2 – 0.5 m/s – Erosion of sandy or loamy soils



0.5 – 1.0 m/s – Erosion gritty soils




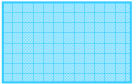


1.0 – 1.5 m/s – danger for swimmers



> 1.5 m/s - no unsecured inset of lifeguard and rescue divers



Relevant flow depths for soils

	0-20 cm	dangerous for vegetables and young plants
	20-60 cm	dangerous for young plants and wheat
	60-120 cm	dangerous for wheat and corn
	120-250 cm	dangerous for corn



Combined and used for soil

- Risk maps for the farmers
 - As prediction for most excellent soil fruit
 - As possibility to protect the harvest

- Risk maps for the municipalities
 - Better prediction who is involved
 - Faster tactic



Thank you for your attention.

Risk maps

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