



# Development of the Flood Risk Management Plan

Wandse, Hamburg, Germany

## Main Idea

Development of a FRMP Wandse involving key stakeholders.

## Approach

- » Development and application of a participatory planning strategy for the implementation of a Flood Risk Management Plan (FRMP) at the river Wandse based on broad stakeholder involvement making use of the concept of Learning and Action Alliance (Ashley, 2010, INTERREG Project MARE)
- » The strategy is based on a planning cycle subdivided in four main phases (Fig. 1).

For the support of the planning process the following instruments are developed:

- » Learning tools: Flood Animation Studio and E- Learning Material/ E- Lectures (Fig 2)
- » Decision support tools: Kalypso-Planner Client (<http://kalypso.bjoernsen.de/>) and Kalypso-FLORE TO (<http://floreto.wb.tu-harburg.de/>) (Fig.3).

## Results

- » A document containing Flood Risk Management Plan for the River Wandse
- » Improved group dynamics and identity of the LAA Wandse group through social learning activities
- » Built capacity to understand risk and its complex system of drivers, pressures and consequences
- » Public stakeholders learnt to read and understand flood hazard and risk maps. The consensus has been found that there is a strong need to mitigate flood risk especially regarding the climate change and urban growth projections.

Link to further information: <http://laa-wandse.wb.tu-harburg.de/>

## Contribution to SAWA

- » Governance approach for development of a Flood Risk Management Planning
- » Tools for capacity building and decision making.

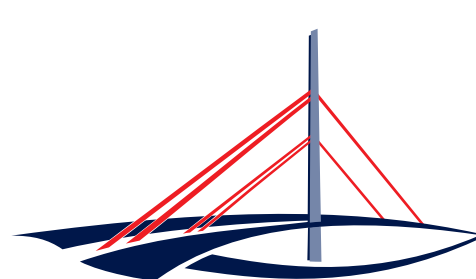
## Main Outcomes

- » Good understanding of the system is crucial (hazard and risk maps have to be available, drivers & pressures assessed)
- » Delivering facts important (such as quantification of the effect of pressures& drivers, NSM)
- » The sessions have to be inviting for participants especially in the initial phase
- » Dare to try something new.

Also:

- » Time and resources intensive process.
- » Involves a range of tools and methods (social, hydrodynamic, learning) and needs interdisciplinary teams.

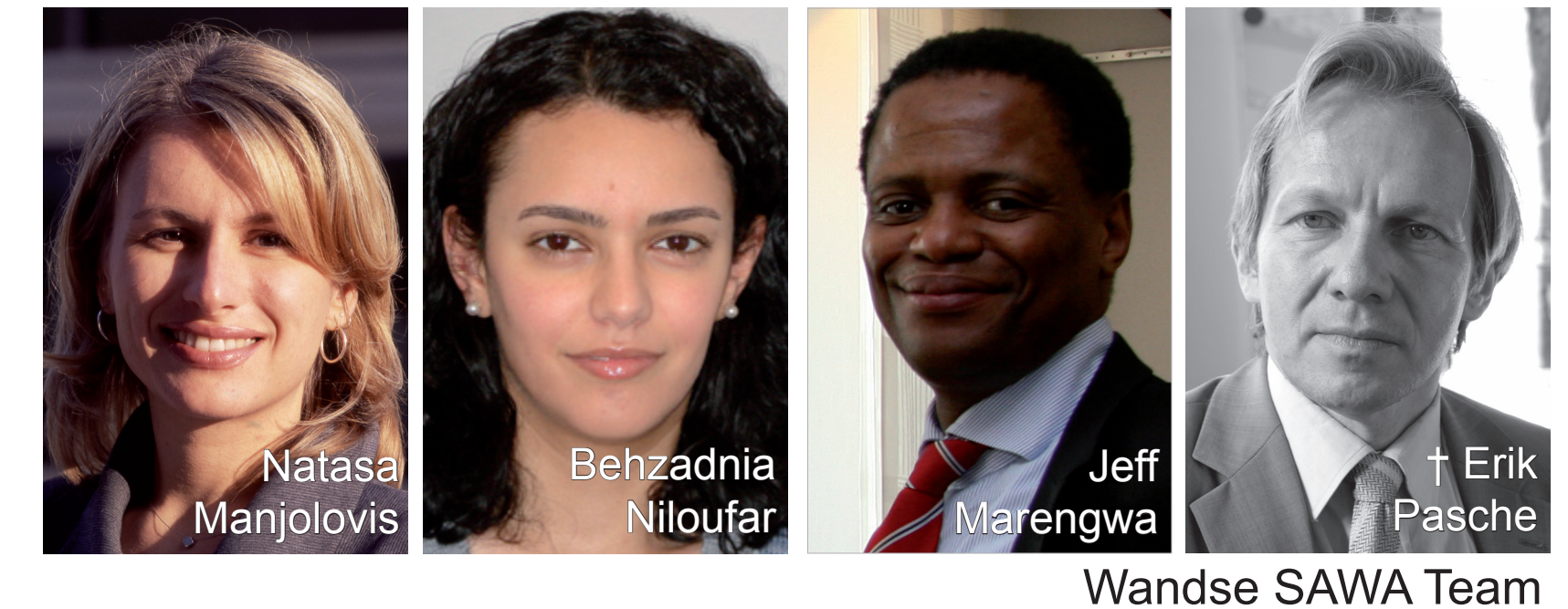
## Partners



Landesbetrieb  
Straßen, Brücken  
und Gewässer

HCU

HafenCity Universität  
Hamburg



Wandse SAWA Team



Fig. 1



Fig. 2

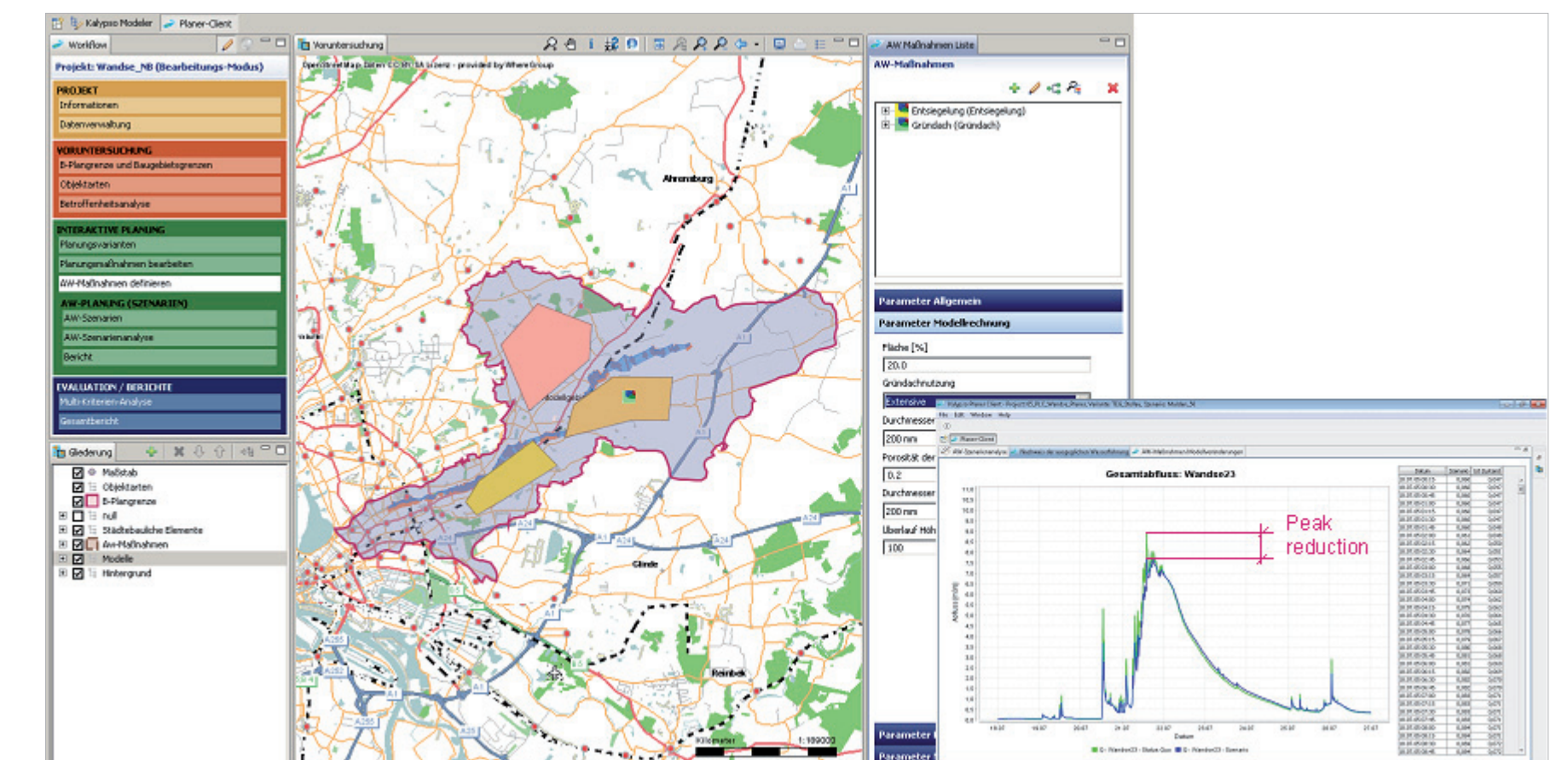
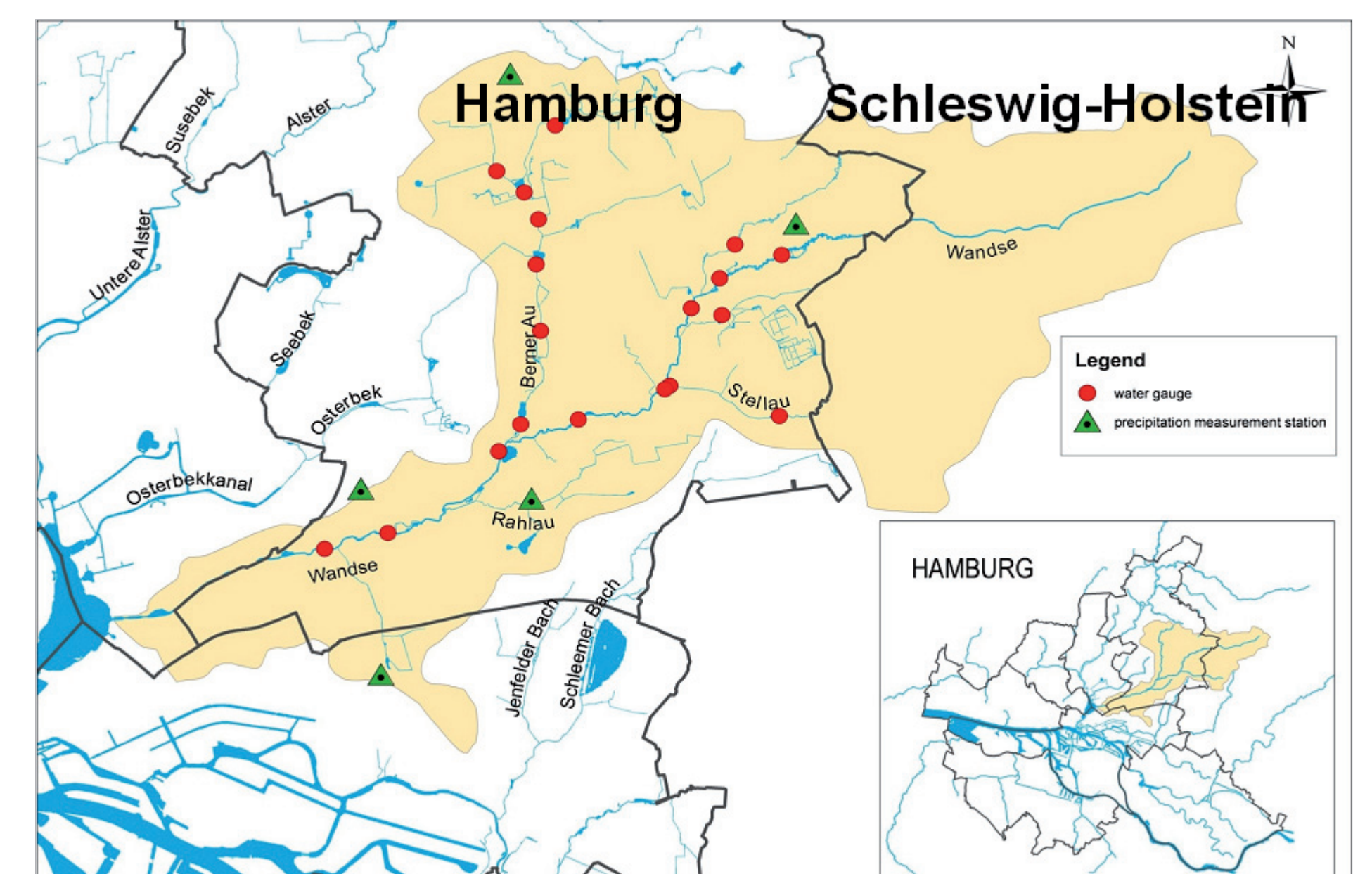


Fig. 3



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