

Flood Risk Management



When the European Directive 2007/60/EC (FRMD) came into force, the term “conventional flood protection” was replaced by “flood risk management”.

With our range of services, we support you in the implementation of all three essential phases of the FRMD:

- Preliminary flood risk assessment
- Preparation and assessment of flood hazard and flood risk maps
- Establishment of flood risk management plans

Flood risk management plans

- Assessment of the flood hazard and the flood risk
- Calculation of damage potential
- Deficit analysis
- Formulation of proper goals
- Planning of measures
- Public Relations
- Documentation
- Flood forecasting
- Dike information systems

Our list of references includes major projects throughout Germany and in other European countries.

For many individual flood risk management (FRM) tasks, we employ our own software solutions: from tasks such as hydrological/hydraulic modeling (Kalypso), determining flood hazard and risk maps (floodMap), and flood forecasting to dike information systems.

Preliminary assessment of flood risk, preparation of hazard and risk maps

- Data research and acquisition
- DTM processing
- Simplified/detailed modeling of hydrological/hydraulic processes
- Editing of model results in GIS
- Depiction of flood boundaries, water depths, and flow velocities
- Map layout

- 1 Flood risk management cycle
- 2 Public participation
- 3 Calculation and assessment of flood hazard and risk maps (floodMap)