

Project: **2 - dimensional river modeling of “Mulde” in the area “Jeßnitz” and “Raguhn”**

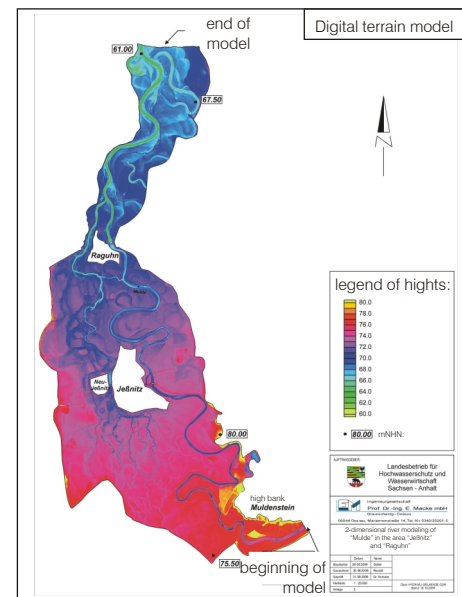
Client: LHW LSA
Landesbetrieb für Hochwasser-
schutz und Wasserwirtschaft
Sachsen-Anhalt
Willi-Brundert-Str. 14
06132 Halle/Saale
Germany

Date: 2006

Model area: 24 km²

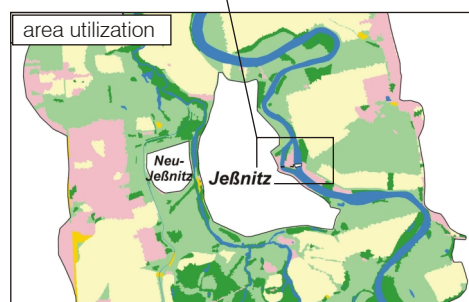
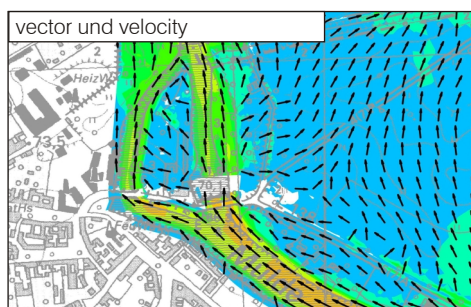
Project description:

The high water protection management of the river “Mulde” bases on 1-dimensional hydraulic model calculations. The situation in the area of Jeßnitz and Raguhn is more complex, because the main river divides into separate parts. It is not possible to get correct results by using a 1-dimensional modeling. To describe the complex situation a 2-dimensional hydraulic model is necessary.



Services:

HOAI § 6, contract based on hourly rates



Hydraulic calculations:

- Computer Model SMS 9.0, HYDRO_AS-2D
- HQ_{100} -actual value
- HQ_{100} -dyke replacement
- Calibration with measured high water levels

Results:

- HW_{100} water level
- Velocities with position vectors
- Division of discharge in the area of bifurcation