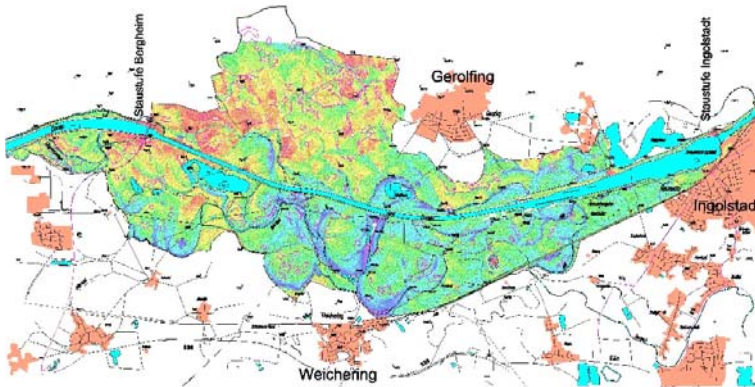


Ingolstadt

Dynamization of the Danube Flood Plains



Regierungsbaumeister
SCHLEGEL



Client

Regierung von Oberbayern
[Government of Upper Bavaria]

Wasserwirtschaftsamt Ingolstadt
[Ingolstadt Water Management Board]

Period

since 1999

Project Cost

9.500.000 €

Abstract

Measures have been taken in the course of 4 interdependent sub-studies for revitalising the alluvial forests along the river of Danube, with cooperation of the Government of Upper Bavaria, Water Authorities of Ingolstadt and Rural District Office of Neuburg. The objective has been to improve the biological and dynamic workflow, in consideration of flood protection measures. Groundwater circumstances are documented in coloured isohypse maps and groundwater level curves.

Based on a digital terrain model, a bypass channel has been designed with several connections to Danube. According to different flood events, flood plains are determined and suggestions have been made for improvement of the alluvial forest by "ecological floods". The required construction measures have been recorded and costs calculated.

Scope of Service

pre-design, design, approval design,
execution design, preparation of tender
documents, site supervision

technical equipment

planning of structural framework

measurement

study, hydro-technical investigation

water level line calculation

preparation of and cooperation in awarding

Technical Data

Size of the project area 30 km²

Length of the adjacent waterways 15 km

Retention volume 11 Mio m³

Construction measures

9.4 km waterways in keeping with nature

2 controlled outlets of 30 and 5 m³/s

13 bridges and large number of passages, open
bridges, throttle construction

4 ramps, 2.5 benching