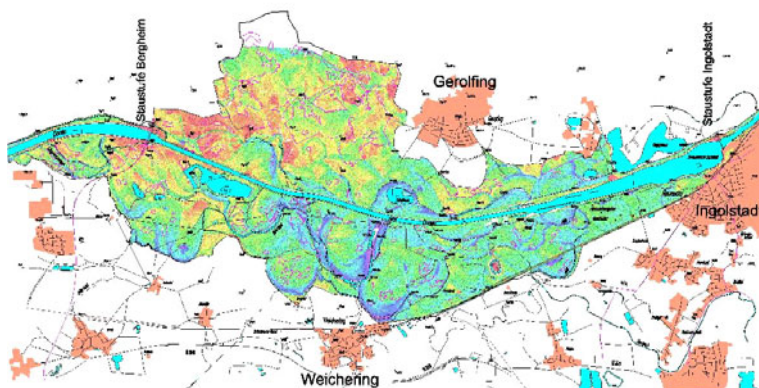


Ingolstadt

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

Technical Data

pre-design, design, approval design, execution design, preparation of tender documents, site supervision	Size of the project area	30 km ²
technical equipment	Length of the adjacent waterways	15 km
planning of structural framework	Retention volume	11 Mio m ³
measurement	Construction measures	
study, hydro-technical investigation	9.4 km waterways in keeping with nature	
water level line calculation	2 controlled outlets of 30 and 5 m ³ /s	
preparation of and cooperation in awarding	13 bridges and large number of passages, open bridges, throttle construction	
	4 ramps, 2.5 benching	