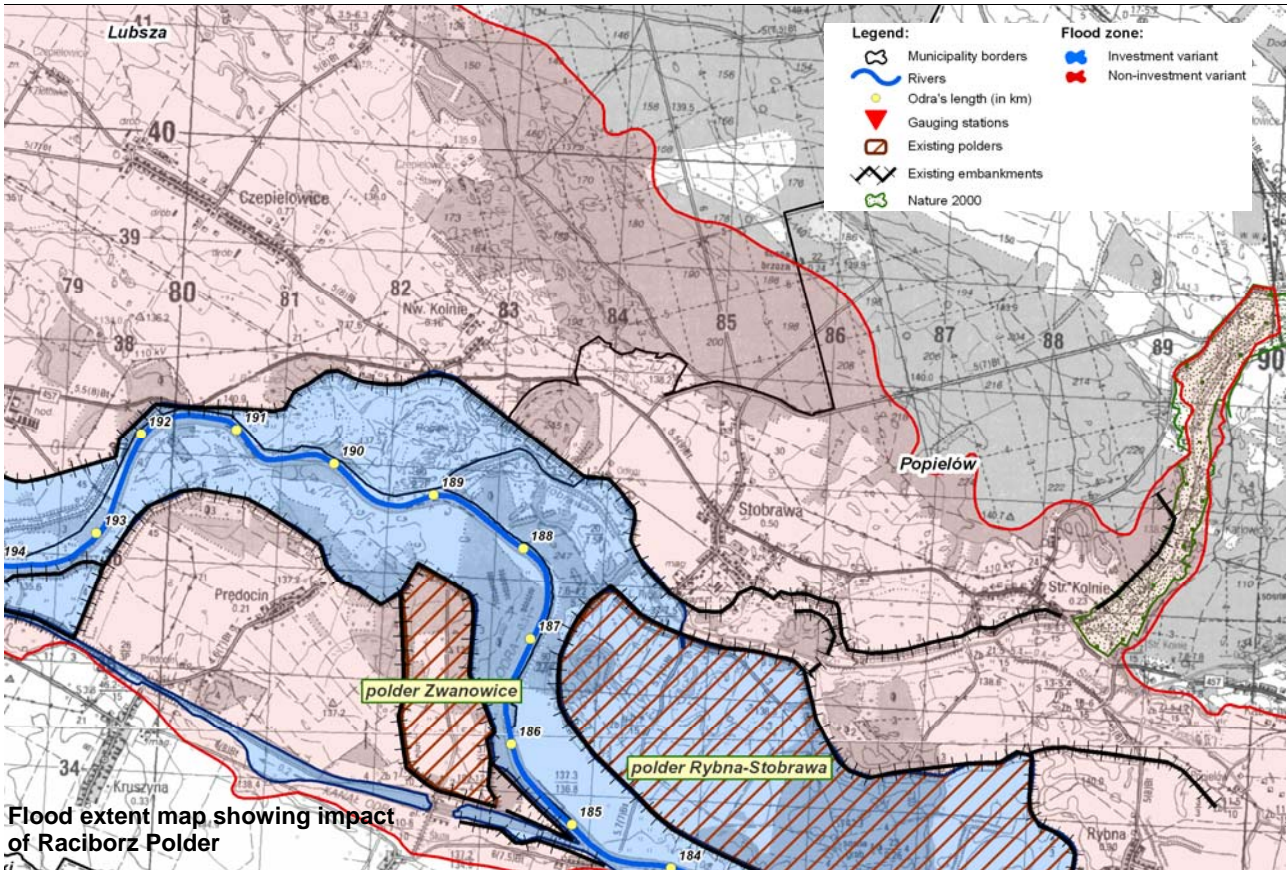


**POLAND**

**ODRA RIVER BASIN**  
**FLOOD PROTECTION PROJECT**  
**DESIGN AND CONSTRUCTION SUPERVISION OF RACIBÓRZ DOLNY DRY POLDER (FLOOD RETENTION RESERVOIR)**



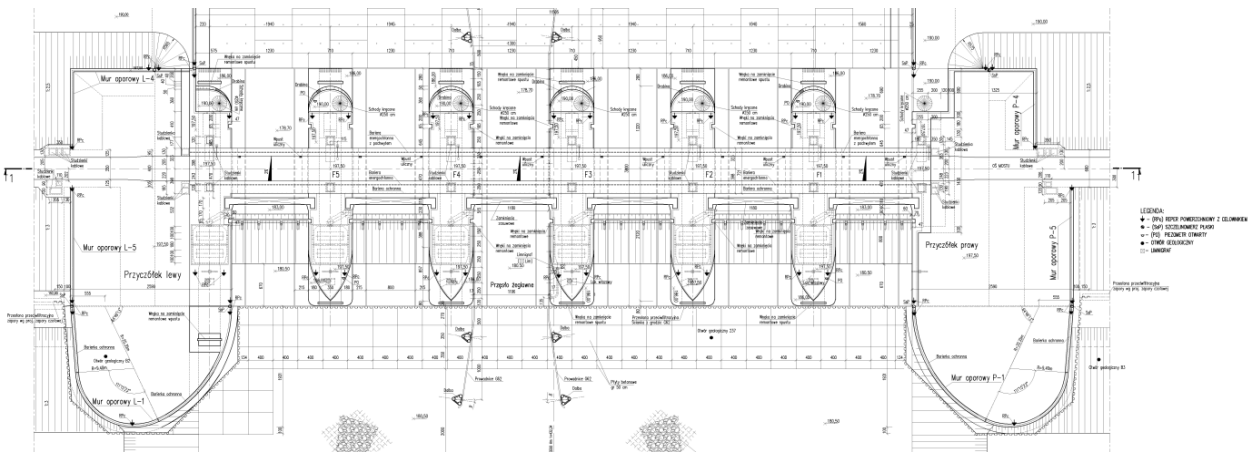
**Flood extent map showing impact of Raciborz Polder**

<b>Client</b>	Regional Authority of Water Management Gliwice, Polen	<b>Scope of Services</b>
<b>Financing</b>	IBRD CEB	<ul style="list-style-type: none"> <li>• Review of detailed design, hydrological and hydraulic modelling</li> <li>• Preparation of bidding documents and support in tendering procedure</li> <li>• Construction supervision and contract management</li> <li>• Environmental Assessment (EMP, EIA)</li> <li>• Update and implementation of a Resettlement Action Plan including detailed design, tendering and construction supervision for a new village</li> <li>• Application of Cohesion Fund financing (EU)</li> <li>• Project management support and technical assistance</li> <li>• Training of staff of PIU and the Regional Authority of Water Management Gliwice</li> </ul>
<b>Duration of Services</b>	11/2009 – 12/2012	
<b>Cost of Implementation</b>	300 Mio EURO	
<b>Value of Services</b>	5,268 Mio EURO	

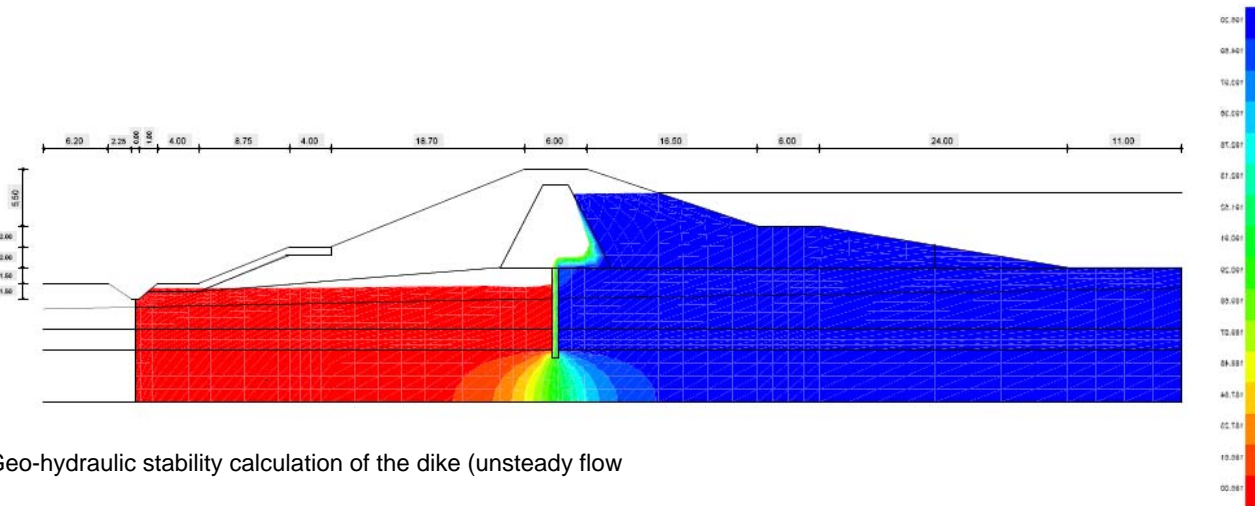
**Brief Project Description**

After the disastrous flood in 1997 on the River Odra with 54 death only in Poland and about 2.2 Billion Euro damage on infrastructure, the international donor community decided to lance a comprehensive program to enhance flood protection and to protect more than 2.5 million people against flooding.

A core component of the Odra River Basin Flood Protection Project will be the detailed design and the construction of a retention polder near the town Racibórz. The polder will cover an area of 2,630 ha with a retention volume of about 185 Mio m<sup>3</sup> in a flood event. The dike will have a length of 21.8 km and be build as an earth fill dam with an embankment volume of about 7.4 Mio m<sup>3</sup>. Hydraulic structures such as gates, spillways, etc will be constructed in order to regulate the filling and emptying of the polder during a flood event.



Layout of outlet structure (© Hydroprojekt)



Geo-hydraulic stability calculation of the dike (unsteady flow)

Additional to the detailed design, tendering, construction supervision and environmental assessment for the retention polder the consultant is responsible for the resettlement of a village within the polder. This includes the design and construction of a new village (90 houses for approx. 1.000 people) and the implementation of the Resettlement Action Plan.