

## [River Ruhr - Germany, Flagship restoration \[1\]](#)



The restored site Binnerfeld in the river Ruhr is located in the Federal State of Northrhine-Westfalia in the urban area of the city Arnsberg. The Ruhr in Arnsberg belongs to the NATURA 2000 area, serves as an important place for local recreation and is highly frequented by cyclists, walkers and canoeists. Prior to restoration the river was flowing monotonously in a constrained and narrow planform fixed at the banks by riprap. The main aims of the restoration measures were to restore more natural hydromorphological conditions and to re-establish longitudinal connectivity resulting in a higher morphological and biological diversity. Moreover, it aimed to increase the aesthetic value of the river section and to raise people's awareness of the importance of biodiversity by making nature tangible. Restoration measures were implemented step-by-step from 2006 to 2011 on a total river length of 4.5 km.

- **River:** Ruhr
- **Site name:** Binnerfeld
- **Typology:** Mid-sized mountain river
- **Altitude:** 153 m
- **Catchment area:** 1,050 km<sup>2</sup>
- **Pressures before the restoration:**
  - stabilized river banks (riprap)
  - straightened river course
  - channelized monotonous longitudinal and cross profile
- **Restoration measures conducted:**
  - removal of bank fixation to initiate bankside erosion
  - creation of flood-prone areas
  - widening of river bed
  - creation of side arms
  - restructuring of river bed and banks by sediment addition
  - placement of large wood
- **Length of restoration:** 4.5 km

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