Selected fish pass projects in the Meuse catchment



Ingenieurbüro Floecksmühle wasser umwelt energie

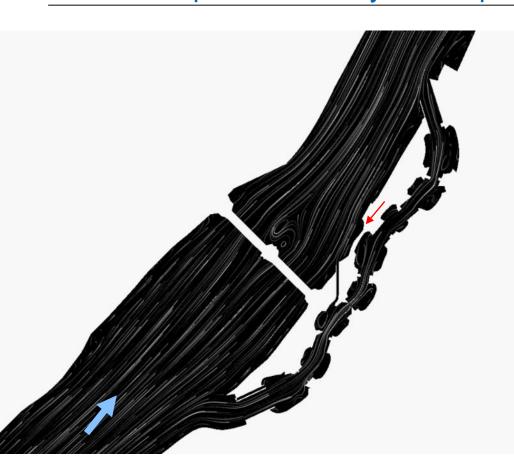
1. old fish passes: 1.1 geometric problems

- pools are to small
- Water depth to small
- energy to high
- vents to small



picture by Ingenieurbüro Floecksmühle GmbH

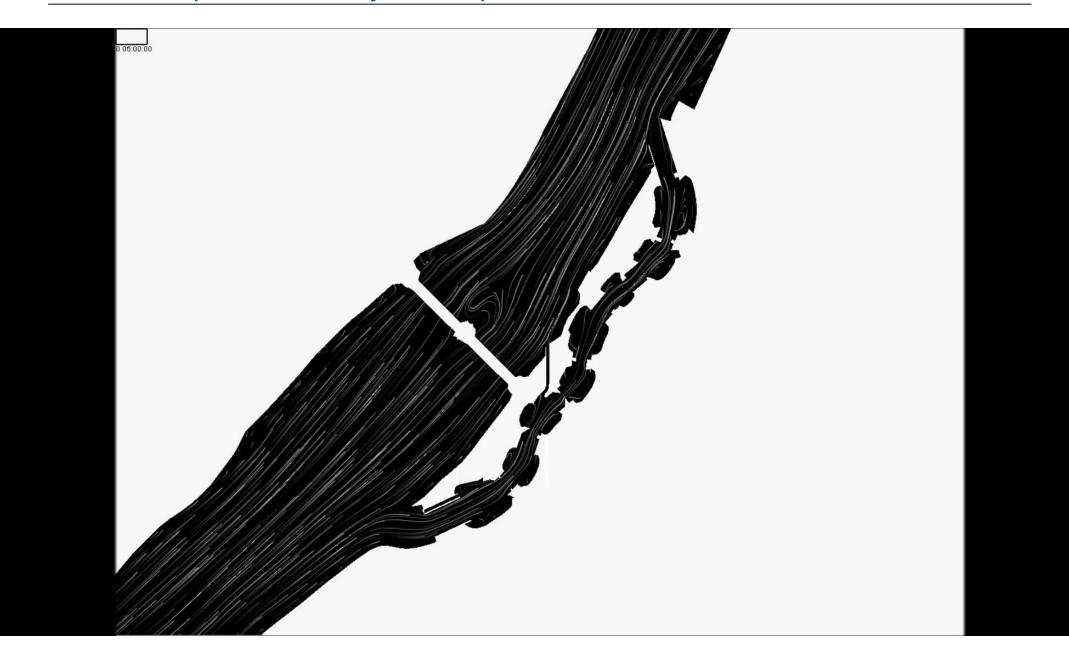
1. old fish passes: 1.2 hydraulic problems



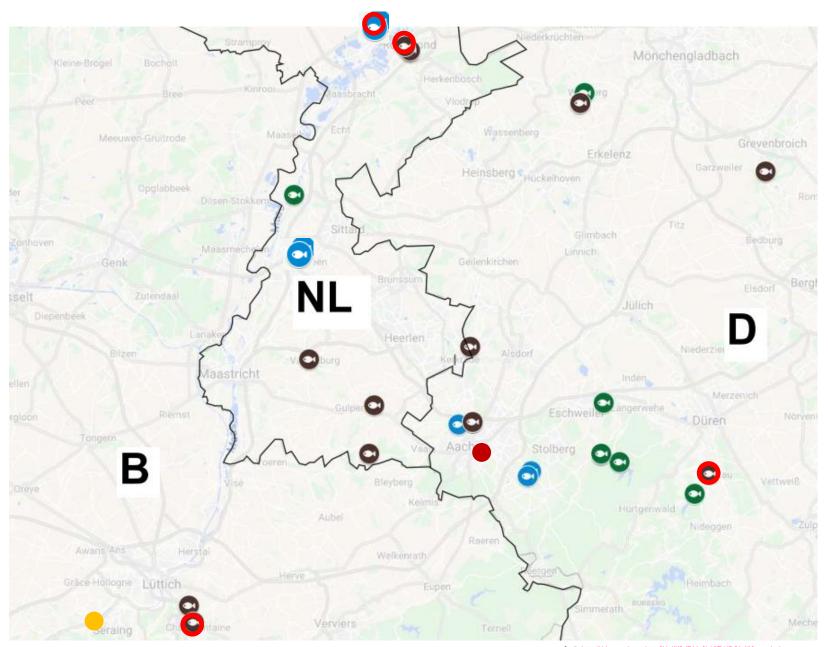


picture by Ingenieurbüro Floecksmühle GmbH

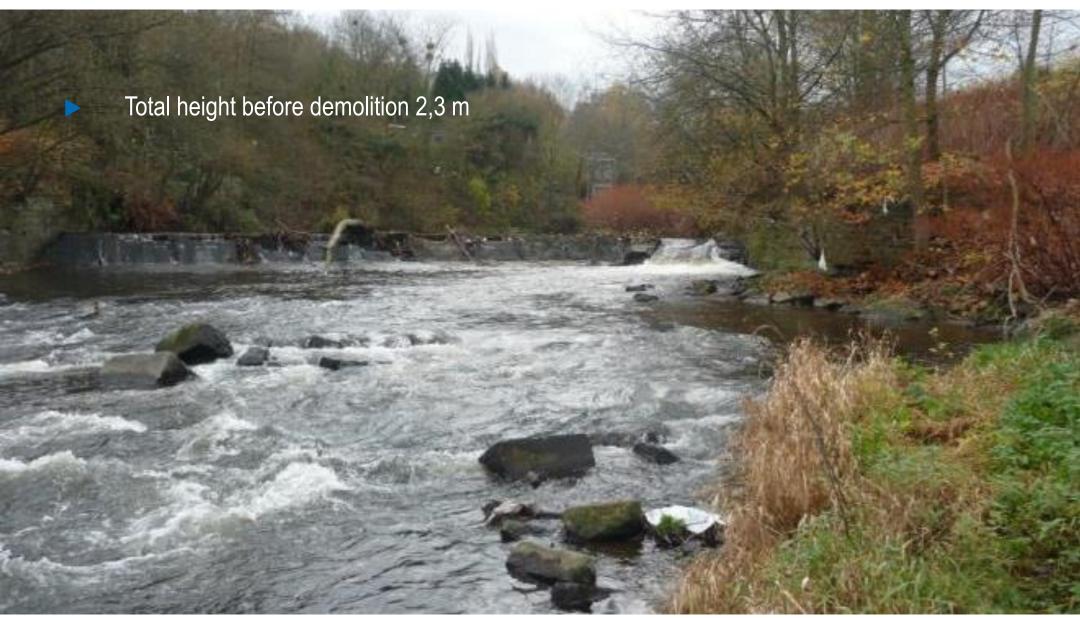
1. old fish passes: 1.2 hydraulic problems



2. projects in the Meuse catchment

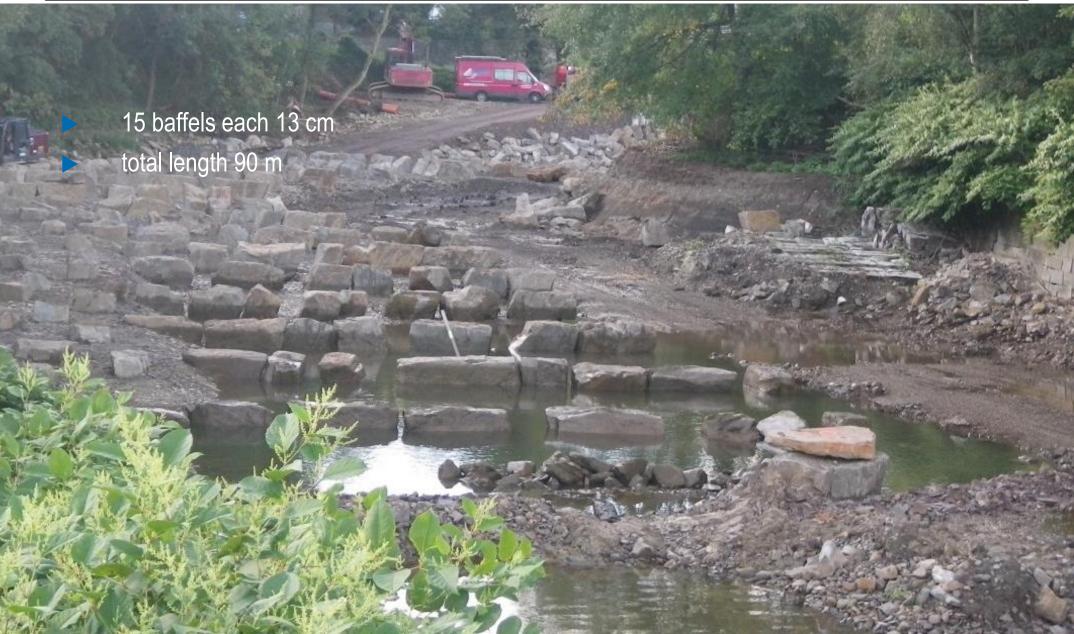


2.1 fish pass project at Vesdre / Chaudfontaine / Belgium



picture by Ingenieurbüro Floecksmühle GmbH

2.1 fish pass project at Vesdre / Chaudfontaine / Belgium



picture by Ingenieurbüro Floecksmühle GmbH

2.1 fish pass project at Vesdre / Chaudfontaine / Belgium



2.2 fish pass project at Hambeek / Roermond / Netherland



Hambeek / Roermond, Ingenieurbüro Floecksmühle GmbH





Hambeek / Roermond, Ingenieurbüro Floecksmühle GmbH



Hambeek / Roermond, Ingenieurbüro Floecksmühle GmbH

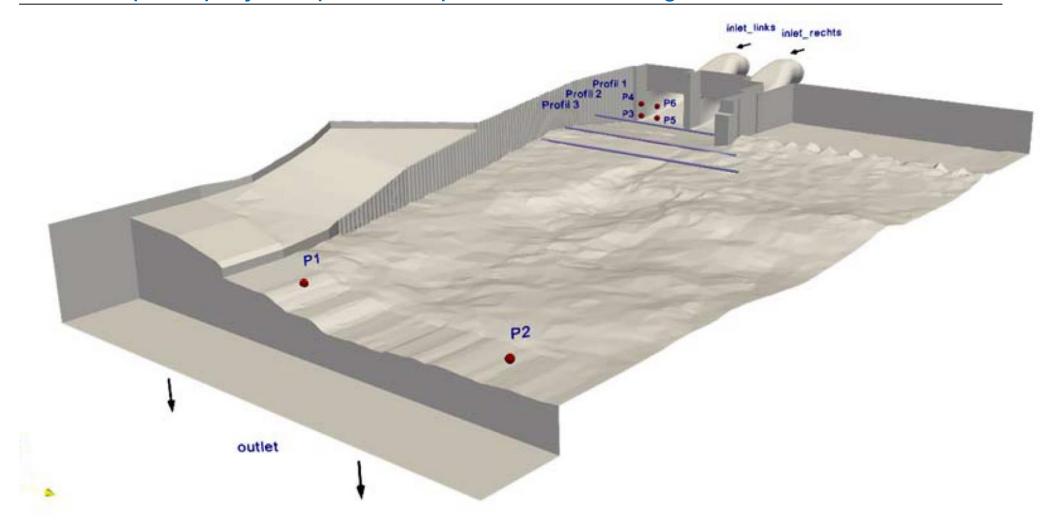
2.3 fish pass project upstream at Roer / Roermond / Netherland

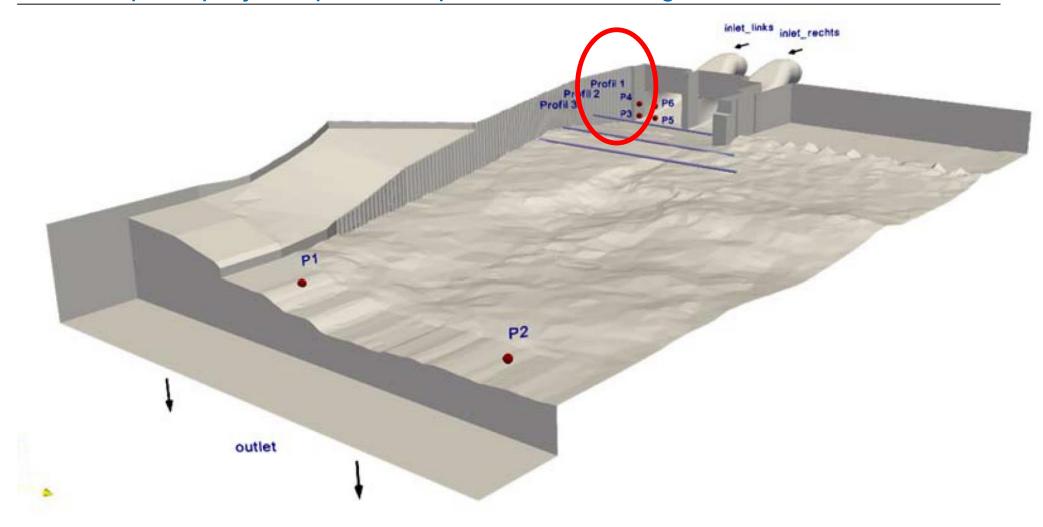


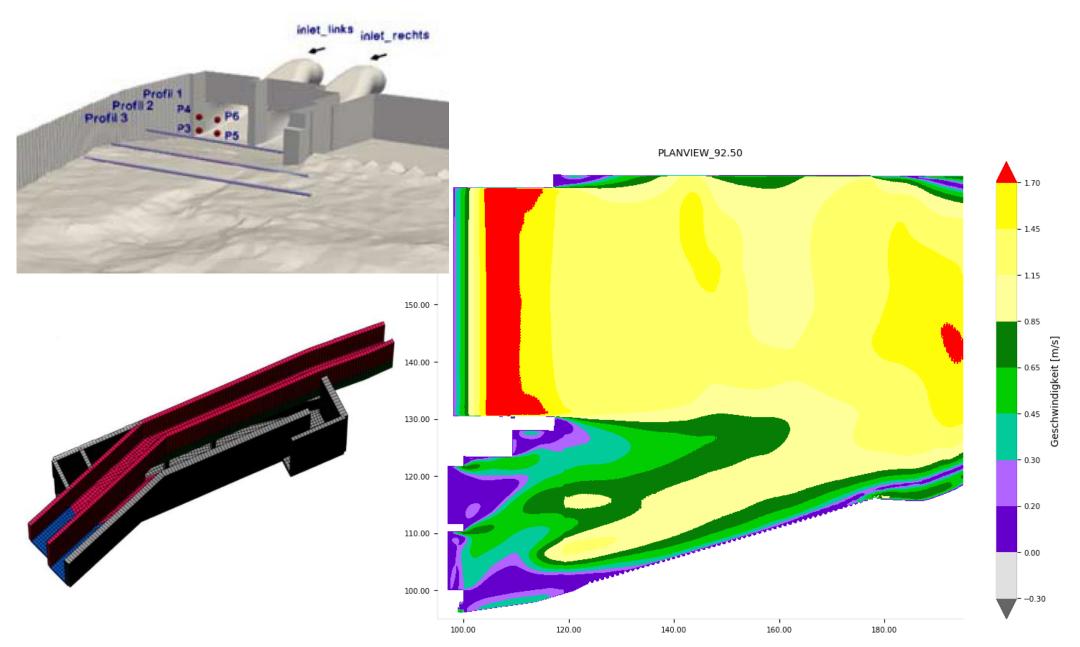
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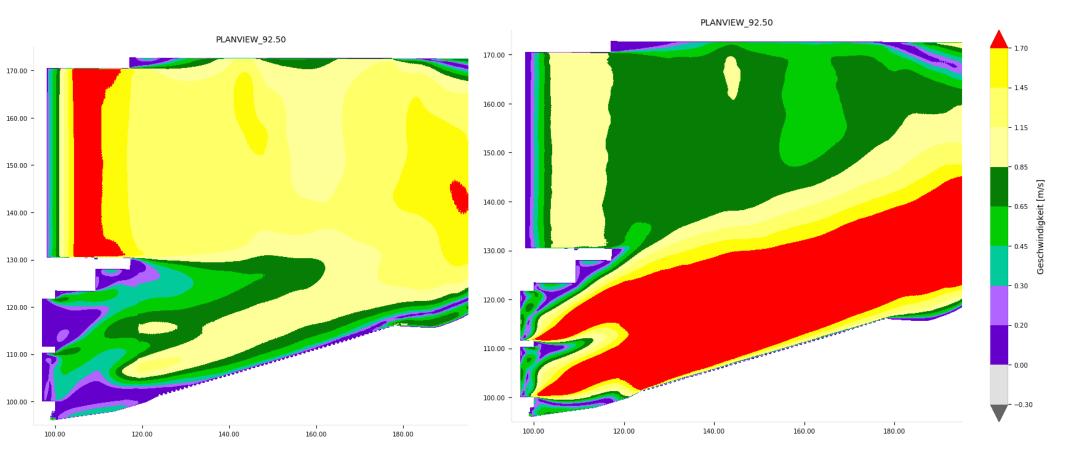








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Low discharge at HPP

high discharge at HPP

2.6 Visitor Center at Roermond (NL) and Lahn (D)



Visitorcenter Roermond, Ingenieurbüro Floecksmühle GmbH



Visitorcenter Lahn / Gießen / Germany, Ingenieurbüro Floecksmühle GmbH



3 fish protection and down-stream systems



Ingenieurbüro Floecksmühle GmbH

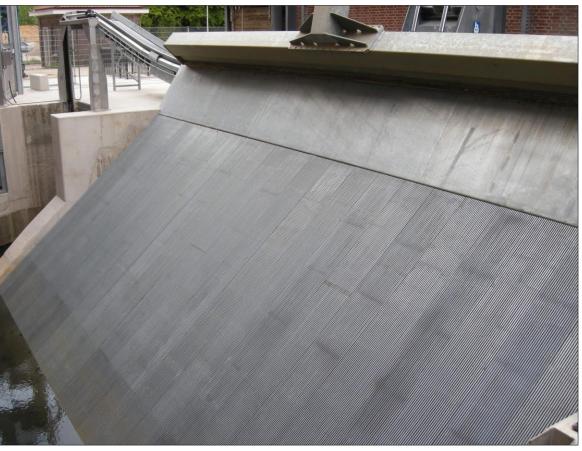
3.1 protection and down-stream Roer / Roermond / Netherland





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3.1 protection and down-stream Roer / Roermond / Netherland



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3.2 protection and down-stream Roer / Dueren / Germany



Picture by Ingenieurbüro Floecksmühle GmbH



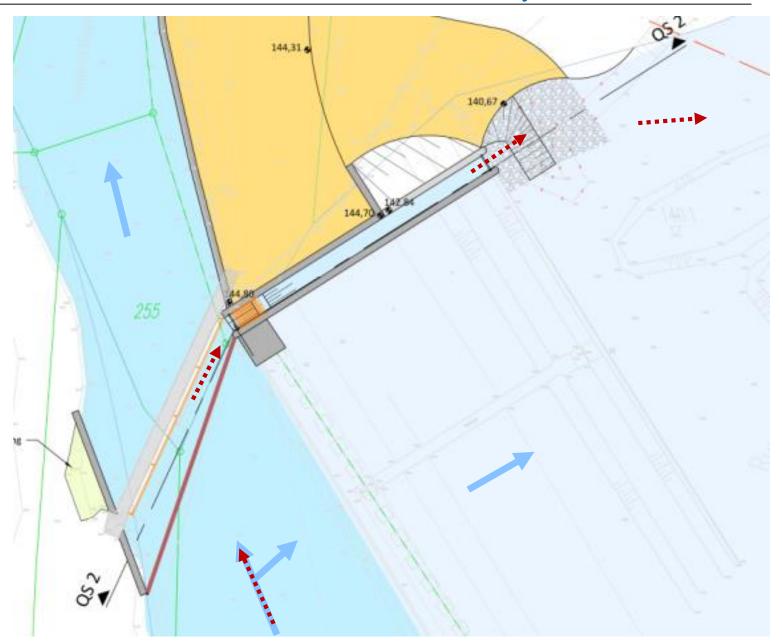
Rage today; picture by Ingenieurbüro Floecksmühle GmbH

3.2 protection and down-stream Roer / Dueren / Germany

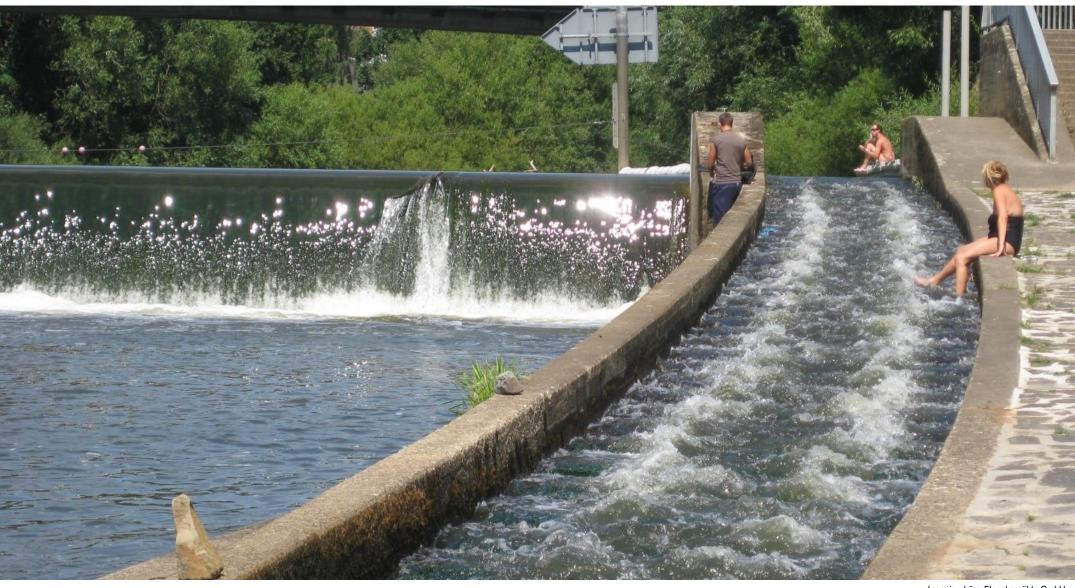


Protecion system and down-stream system: design by Ingenieurbüro Floecksmühle GmbH

3.2 protection and down-stream Roer / Dueren / Germany



Protecion system and down-stream system: design by Ingenieurbüro Floecksmühle GmbH



Ingenieurbüro Floecksmühle GmbH

Thank you!



Ingenieurbüro Floecksmühle GmbH