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Safe and efficient
two-way migration
for salmonids and
european eel past
hydropower structures

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Background

The SafePass project aims to find the best solutions for fish migration in regulated rivers, from the perspectives of both the fish and the hydropower industry.

The first task will be to track fish on their way down and analyze their behavior under different conditions. The observed behavior of the fish can be combined with the data from the 3D numerical model. This will help to detect possibilities and find the most promising solutions for avoiding fish entering the intake structure. Combining this with the needs of water for hydropower

production we will aim to design an operational solution that optimizes the fish passage and hydropower production.

The second task will be the examination of currently used and just developed prototypes of trash racks for power plant intakes, and will be tested in the hydraulic laboratory. The aim of these investigations is to find a formation which prevents fish from entering the intake and at the same time has acceptable energy loss and reasonable maintenance costs.

