

## Paper II: Live fish swimming performance



Paper I: Flow, force, behaviour under homogenised flow conditions



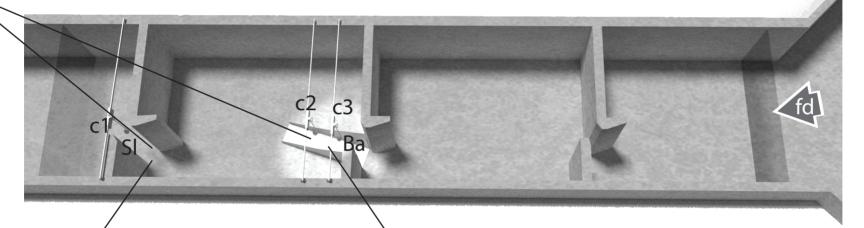


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**Question:** How do the hydraulic forces and swimming behaviour differ between the fish under homogenised flow conditions?

Question: How do swimming styles and swimming performance differ between the test species?

B test rig



## Paper III: Description of the prototype hydraulic barrier







**Question:** Has the prototype hydraulic barrier a selective effect on the passage behaviour of the three test species?

## Paper IV: Hydraulic burden and passage behaviour at a vertical slot







**Question:** How do the hydraulic burden differ between species when passing a vertical slot and how do hydraulic burden affect the passage bahviour of the live fish?

Legend



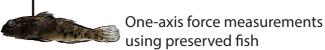
Flow measurements with an acoustic Doppler velocimeter



Multi-axis, high frequency, force measurements using preserved fish



Swimming performance assessment using live fish







Description of the passage behaviour of live fish