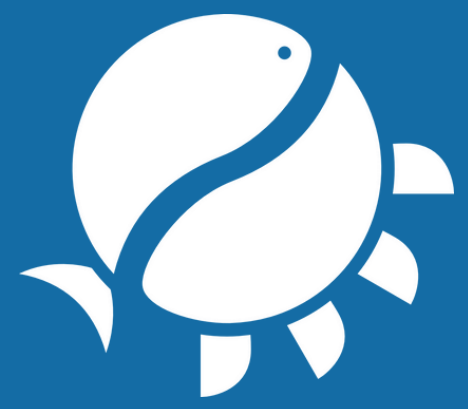


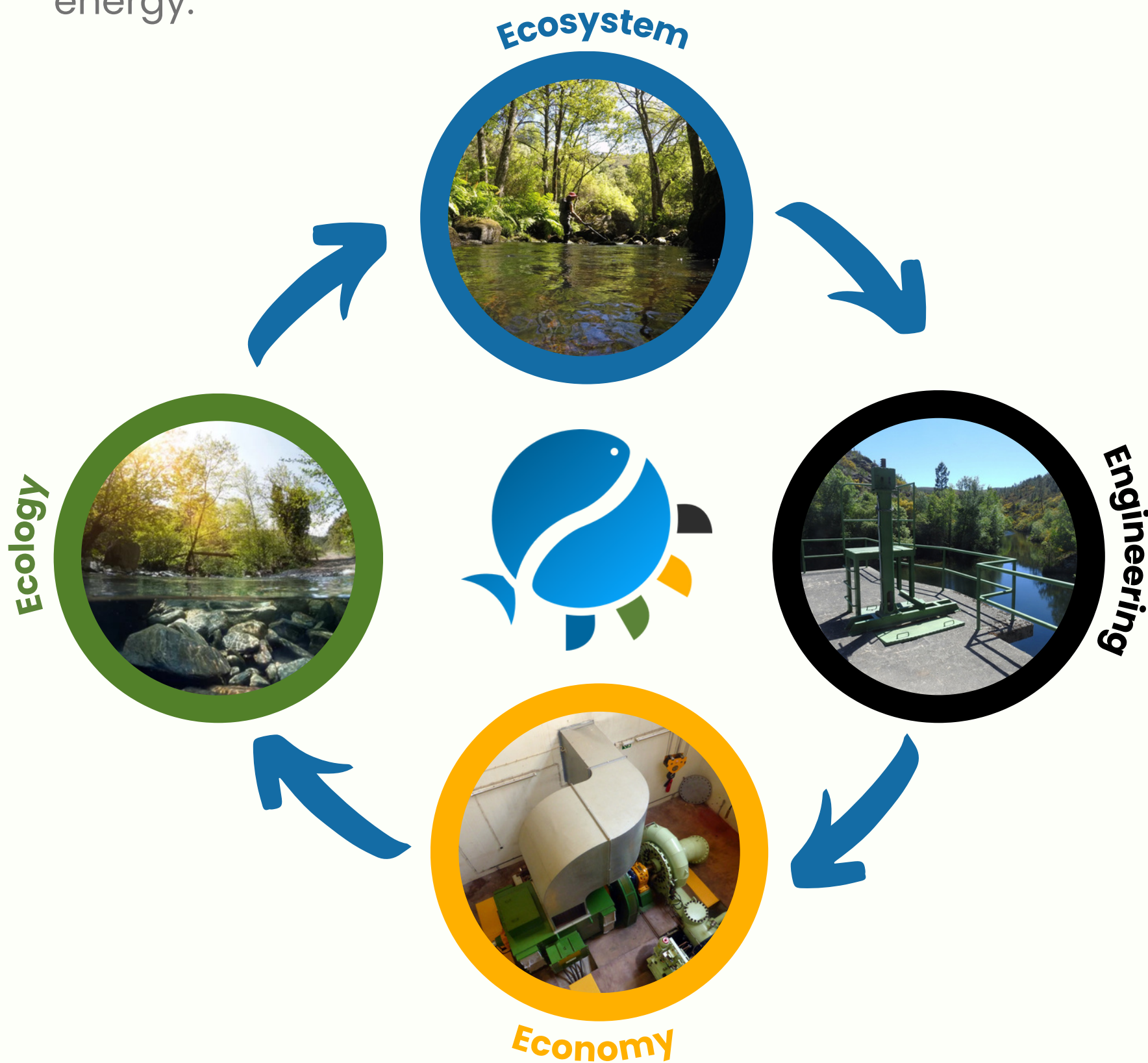
The EcoPeak4Fish project



#1 infosheet

Goal

To assess the effects of hydropeaking in cyprinid species, propose a flow-refuge prototype and assess its cost-effectiveness; and develop a framework to adapt the HPP operation scheme to maximize profits and environmental benefits for a sustainable use of hydropower energy.



EcoPeak4Fish stands for four E's: **Ecosystem**, **Engineering**, **Economy**, and **Ecology** which are displayed in the tasks of the project.

Tasks

- T1:** Fish ecology and microhabitat assessment
- T2:** Experimental testing of flow-refuges at the indoor flume
- T3:** Implementation and evaluation of a flow-refuge prototype
- T4:** Assessment of environmental and economic trade-offs in the operation of a HPP

Case-studies

The selected case-studies include **Bragado** and **Covas do Barroso** small hydropower plant from Hidroerg company, both located in the Tâmega River Basin, northern Portugal.



Outputs

- 1) a **flow-refuge prototype** to be applied in peaking rivers
- 2) a **framework** to assess the trade-offs between hydropower profits and habitat availability focused on fish.

Consortium

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