

# Institutional cooperation agreement under the Art. 15 of Law 241/1990

## Agreement for the experimental application of hydrological and hydromorphological quality indicators (MesoHABSIM) in significant water bodies functional to the implementation of the Programme of Measures and for the verification of ecological outflow

### AGREEMENT DURATION

26 months  
From 23/06/2021 to 22/08/2023

### STAKEHOLDERS

- Autorità di Bacino Distrettuale delle Alpi Orientali
- Politecnico di Torino – DIATI
- Università di Trieste –Department of Science of Life

### BUDGET

Budget dedicated to the initiative: **104.200 €**

### DETAILS OF THE COLLABORATION

The Parties intend to establish a technical-scientific collaboration in the framework of a shared, coordinated, and ongoing cognitive activity concerning the experimental application of hydrological and hydromorphological quality indicators (MesoHABSIM) in significant water bodies functional to the implementation of the Programme of Measures and for the verification of ecological outflow.

Scientific Manager for DIATI:  
**Prof. Paolo Vezza**

The activity will be carried out in joint way with the Autorità di Bacino delle Alpi Orientali and to the Università di Trieste - Department of Sciences of Life and will have the aim to:

- **to develop an updated analysis of the modelling tools currently used to assess the suitability of the river habitat** for fish fauna and of the information available in scientific literature for the 12 species of interest of this study;
- **to collect hydro-morphological data to describe the physical variables characteristic of natural watercourses;**
- **to develop mesoscale habitat suitability models for the 12 species of fish species of interest** and conduct model sensitivity and performance tests;
- **validate mesoscale habitat suitability models for the 12 fish species** using a dataset independent of those used for model building;
- **include habitat suitability models** that have successfully passed the validation process, **in the list of models selectable in the SimStream software** and will perform the application of the MesoHABSIM methodology and the calculation of the IH index in the sites analyzed related to resurgence watercourses and temporary watercourses.