RIVERTEMP



Education on the classification and identification of temporary rivers to combat climate change

Temporary rivers (TRs) are watercourses, found in the European Union and around the world, that may dry up for some period of time within the year. At the global scale, recent hydrological estimates suggested that water ceases to flow along more than 50% of the world's river network, demonstrating that non-perennial rivers are the rule rather than the exception on Earth.

Moreover, TRs are becoming increasingly common in this era due to the combined effect of climate change and increased demand for water. The increased future probability of rainfall deficit (seasonal or multi-year droughts) elevates the probability of flow intermittency in a large portion of the European territory, in both natural and regulated rivers.

Often exploited to fulfil the growing water demand, TRs are currently degrading at alarming rates, although they are hotspots of regional biodiversity and pivotal for the functional integrity of river networks. Flow intermittency, that characterizes TRs, can have a large range of intensity depending on the local context and a clear hydrological characterization of TRs is not available at the moment.

For all this, the project seeks the identification and categorization of the temporary rivers at a European level, using available hydrological information and information on the presence and absence of flow from the analysis of multi-spectral satellite images.

PROJECT DURATION 01/12/2022 – 30/11/2025

SITE AND SOCIAL NETWORK https://www.rivertemp.eu/en/home/

PARTNERS

- Politecnico di Torino
- Università degli Studi di Salerno
- Universitat Politecnica de Valencia
- Femxa Formación s.l.u.
- Draxis Environmental s.a.
- Polytechneio Kritis

FUNDING PROGRAM

KA2- COOPERATION FOR INNOVATION AND THE EXCHANGE OF GOOD PRACTICES KA220- COOPERATION PARTNERSHIPS FOR VET EDUCATION

BUDGET

Finanziamento: 400.000 € Costo totale PoliTO: 98.432 €

PoliTO and DIATI's role:

Politecnico di Torino is the coordinator of the project.

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



Project co-funded by the European Union under the Erasmus+ Programme 2021-2027 Cooperation partnerships in higher education

