Science for Solutions decade: HELPING – Hydrology Engaging Local People IN one Global world

Overarching goal:
Understanding hydrological diversity and integrating knowledge across scales and regions.

HELPING with global and local interactions

Research goals	Outcome/product goals	Community goals
Understanding local hydrological processes	Case-studies populating the Digital Water Globe platform	Meta-analysis (synthesis) for joint global description of diversity
Understanding differences and similarities between regions	Large-sample datasets; Tools for monitoring or assessments	Collaboration between people at similar conditions world-wide
Understanding global-local interactions	Methods to link global estimates with local conditions	Recognition when implementing general policy at local level

HELPING with holistic solutions for water security

Research goals	Outcome/product goals	Community goals
Understanding potential and challenges with mitigation methods (for floods, droughts, water quality/pollution)	Catalogue of solutions and potential effects; Tools for evaluations	Empowered hydrologists in water security
Understanding sectorial nexus of problems/solutions	Guidelines for assessments of solutions, which effects several sectors	Participation in trans-disciplinary analysis and applied research
Nature-based solutions for achieving water security	Catalogue of NBS; Guidelines; Synthesis	Foster sustainability and green societal transition

HELPING with cross-cutting goals

Research goals	Outcome/product goals	Community goals
Integrating new technologies with existing	New data sources in open data repositories	Facilitate evaluation/application of current concepts and study new hypothesis
Co-creating hydrological knowledge between people and between disciplines	Catalogue of local associations; Methods and training in co-creation activities; Database of good examples merging practical/indigenous knowledge with evidence-based science	Engage with local people globally Enhance science communication, inclusiveness, and applications of citizen science Foster transdisciplinary research