

Hydrology

To describe the movement of water over time by quantifying the magnitude, timing, duration, frequency, and rate of change of flow events.



Sediment

Geomorphology

To document the composition and shape of stream channels and floodplains and evaluate the physical processes that form and maintain them.

Overbank flow

are carried inland

Sediment and nutrients

Riparian zones

Biology

Act as natural biofilters, protecting the aquatic environment from erosion

To consider the interaction between river

flow and the number and type of species

found in the aquatic environment.

Water quality

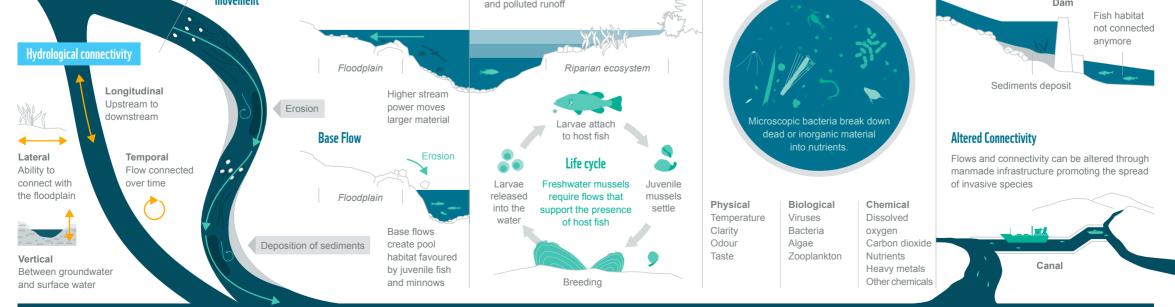
To study the physical, biological and chemical attributes of water and the connections to hydrological and biological aspects.

Nutrient cycle

Connectivity

To analyse the movement of organisms, energy and matter through the river system, as well as the impacts of natural and artificial barriers by considering connections among hydrologic, geomorphic, biological and chemical aspects.

Loss of connectivity



Integrating environmental flows into water management decisions ensures that resilient communities can co-exist with healthy freshwater ecosystems.



