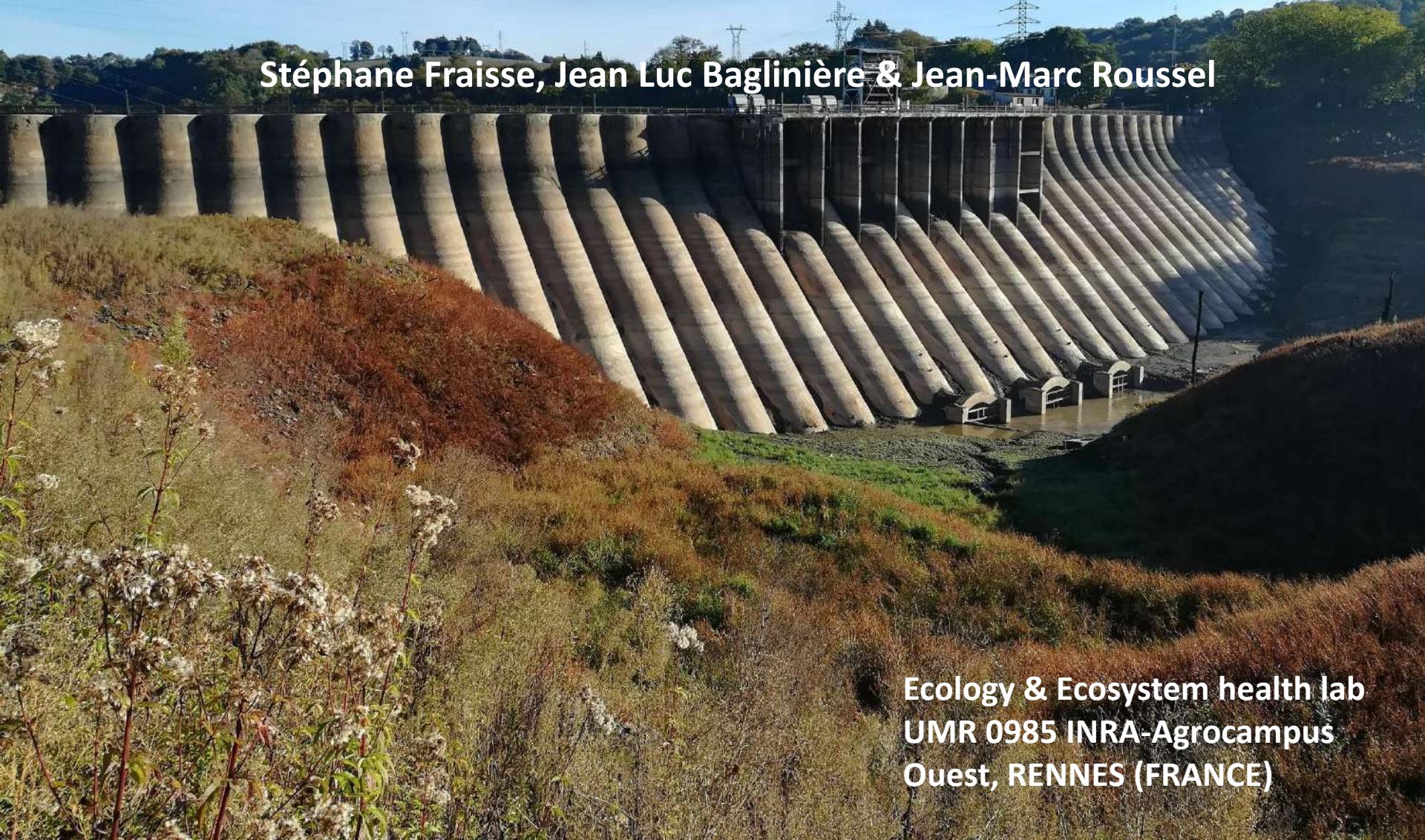


Dam Removal on the Sélune River: the Scientific program

Stéphane Fraisse, Jean Luc Baglinière & Jean-Marc Roussel

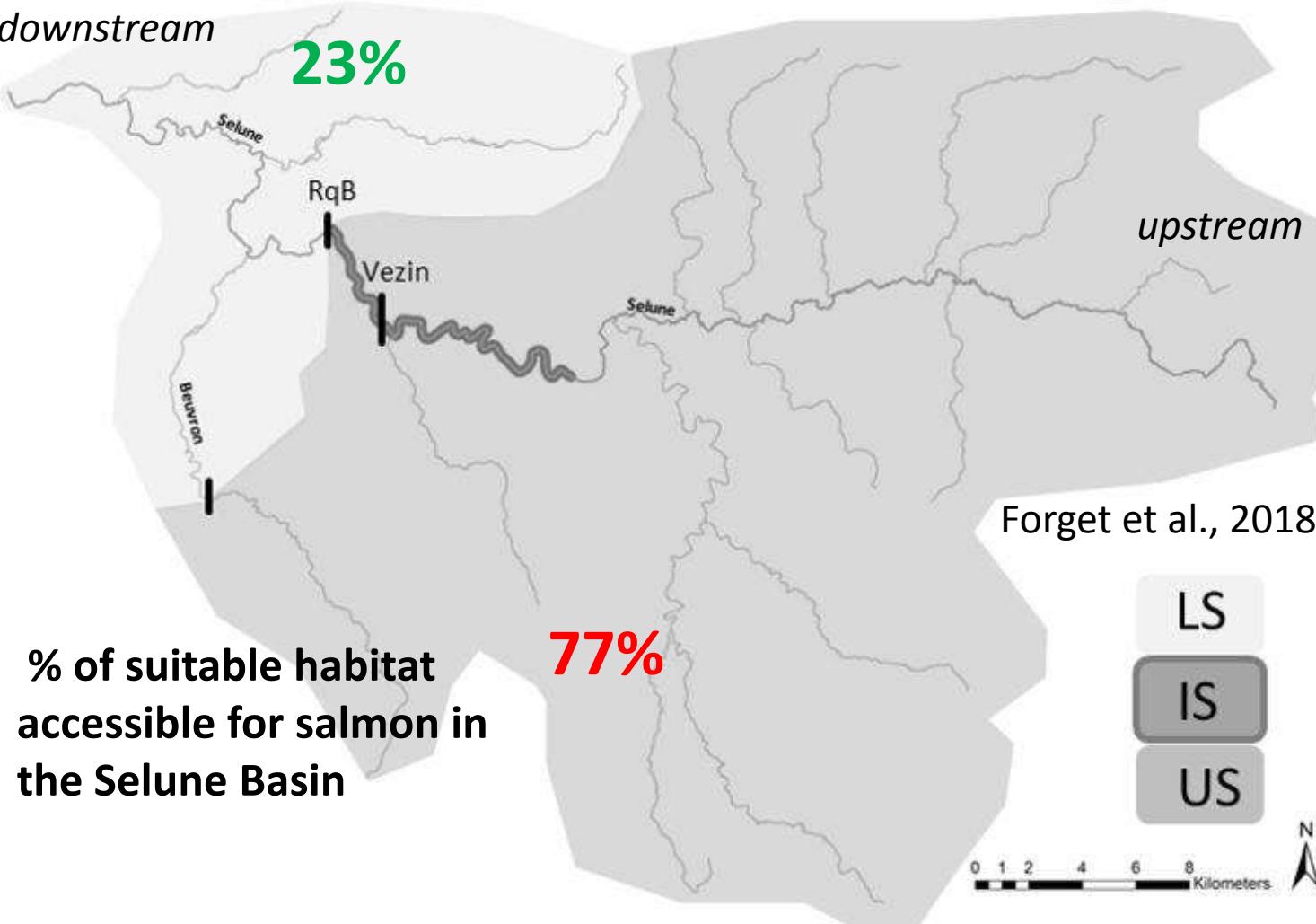


Ecology & Ecosystem health lab
UMR 0985 INRA-Agrocampus
Ouest, RENNES (FRANCE)

The reasons for dismantling

1- Biological fluxes

Diadromous Species on the Sélune River :
Atlantic salmon
European Eel
Sea Trout
River Lamprey
Sea Lamprey
Allis Shad
Twait Shad



The reasons for dismantling

2- Sediment fluxes

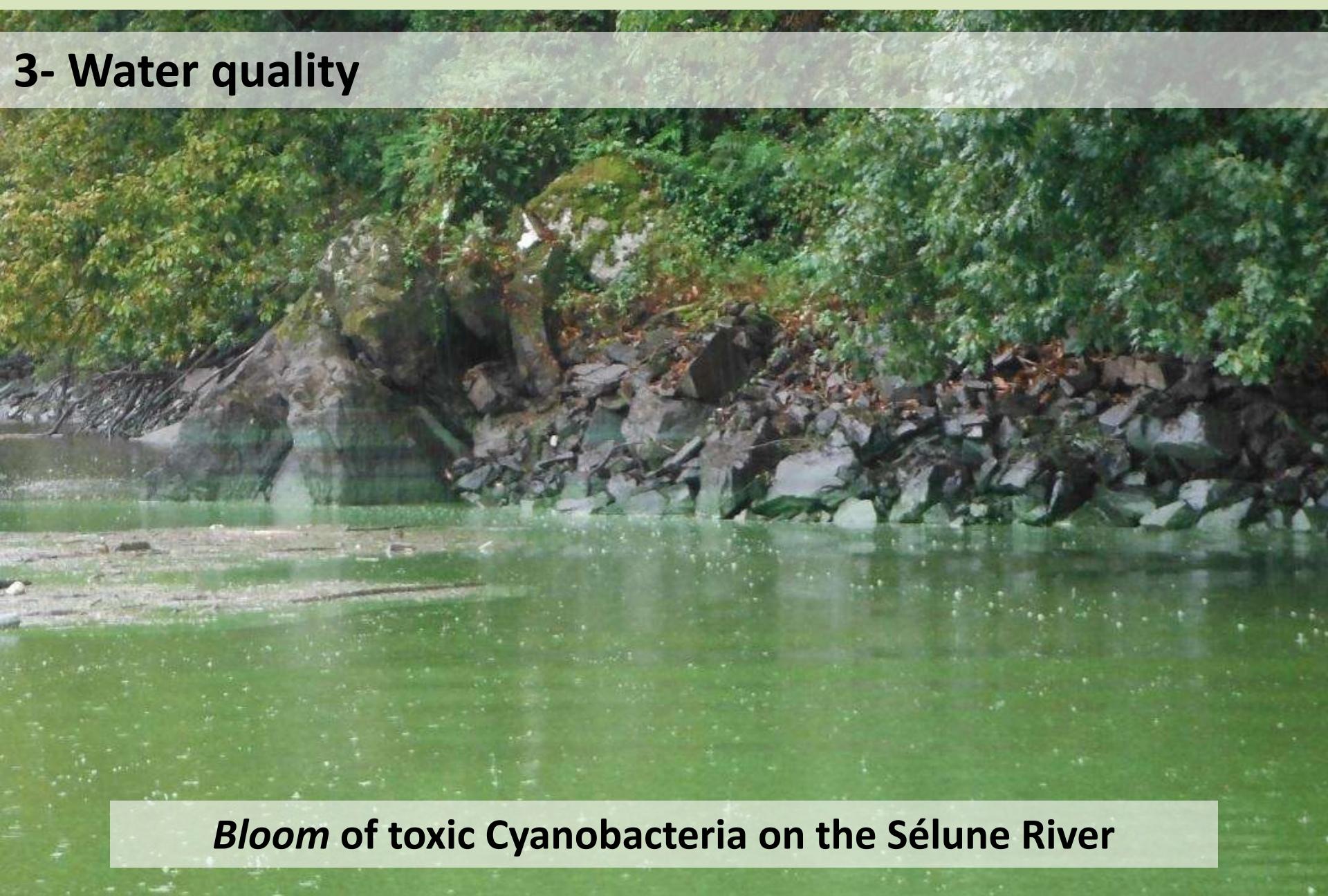


1993

Catastrophic
emptying of the
reservoirs

The reasons for dismantling

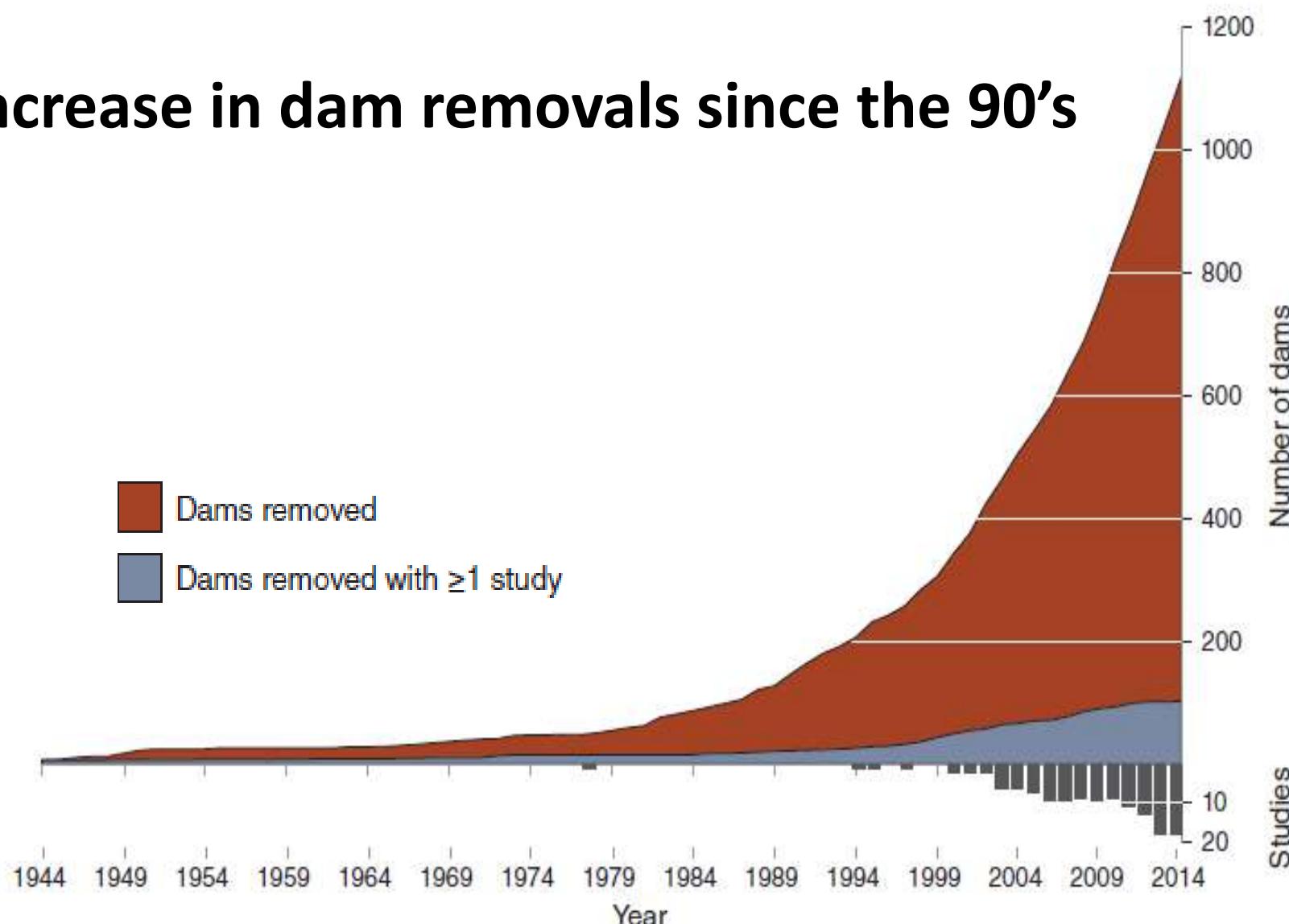
3- Water quality



Bloom of toxic Cyanobacteria on the Sélune River

Science and dam removals

Increase in dam removals since the 90's



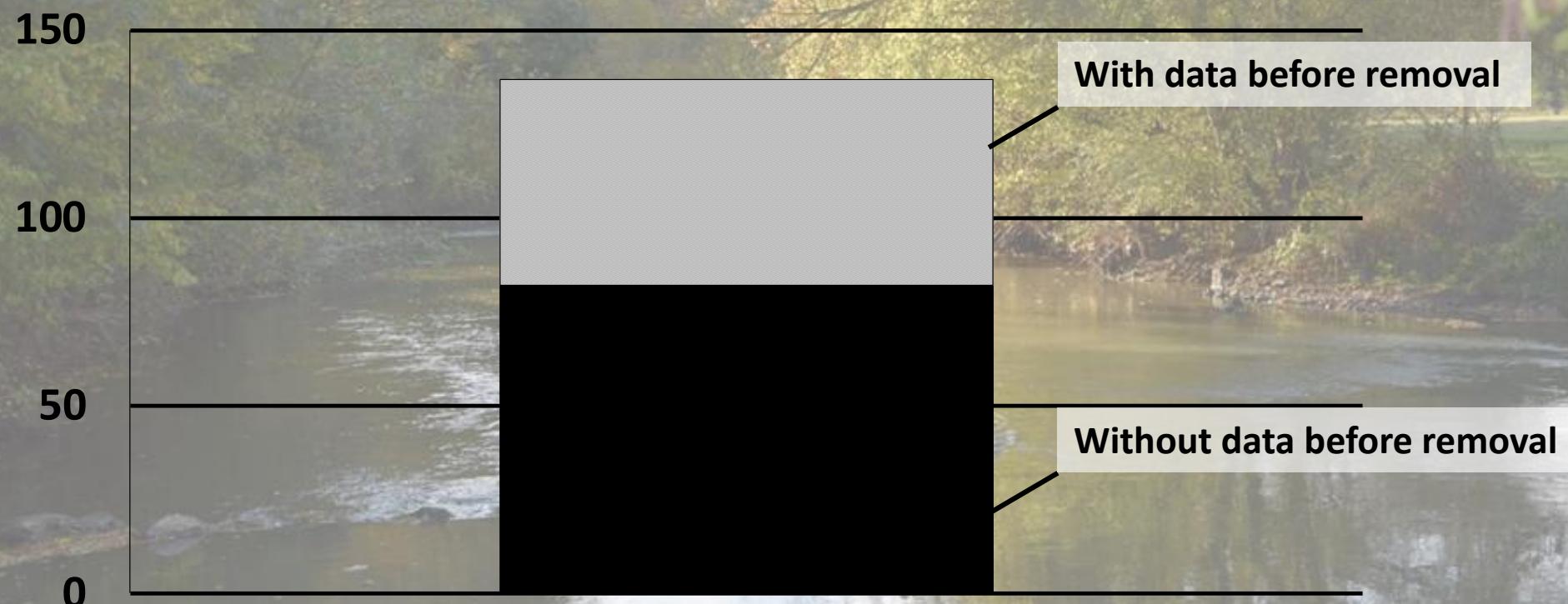
Science and dam removals

180 articles – 137 dams removed



WEB OF SCIENCE®

70% of removed dams studied: no initial state

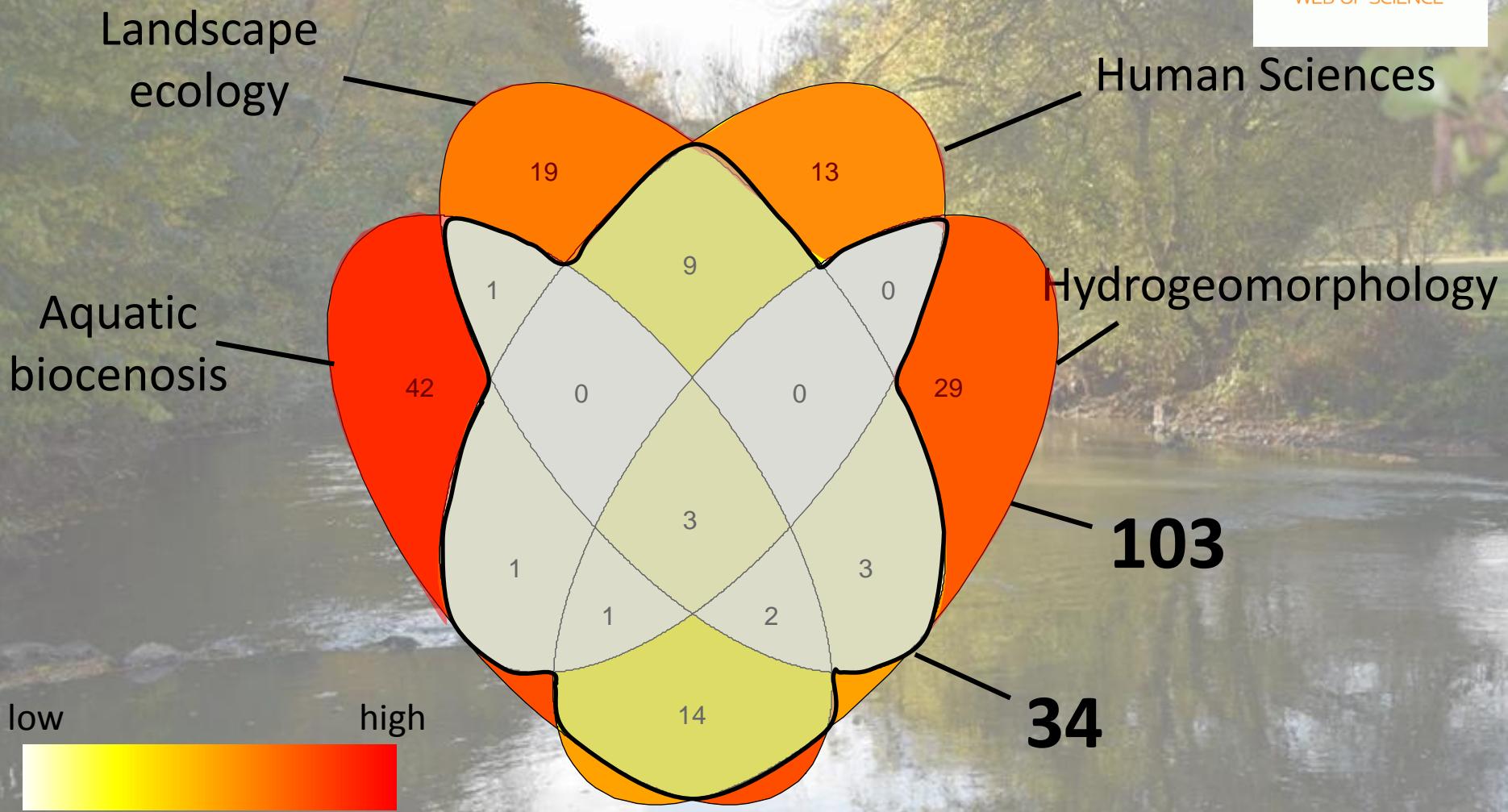


Science and dam removals



WEB OF SCIENCE®

Dams removed studied (n=137)



2012-2027: a 15 years scientific program



AGENCE FRANÇAISE
POUR LA BIODIVERSITÉ
MINISTÈRE DE L'ENVIRONNEMENT

initial state

removal

restoration

2012

2018

2021

2027



- > describe processes underlying the restoration of the river and its valley after dam removal
- > provide scientific knowledge for future dam removal projects

2012-2027: a 15 years scientific program

Steering committee

(INRA, EDF, Water Agency, State,
Fishing national federation)

Scientific committee (External scientists)



Coordination group



Scientists



UNIVERSITÉ
CAEN
NORMANDIE

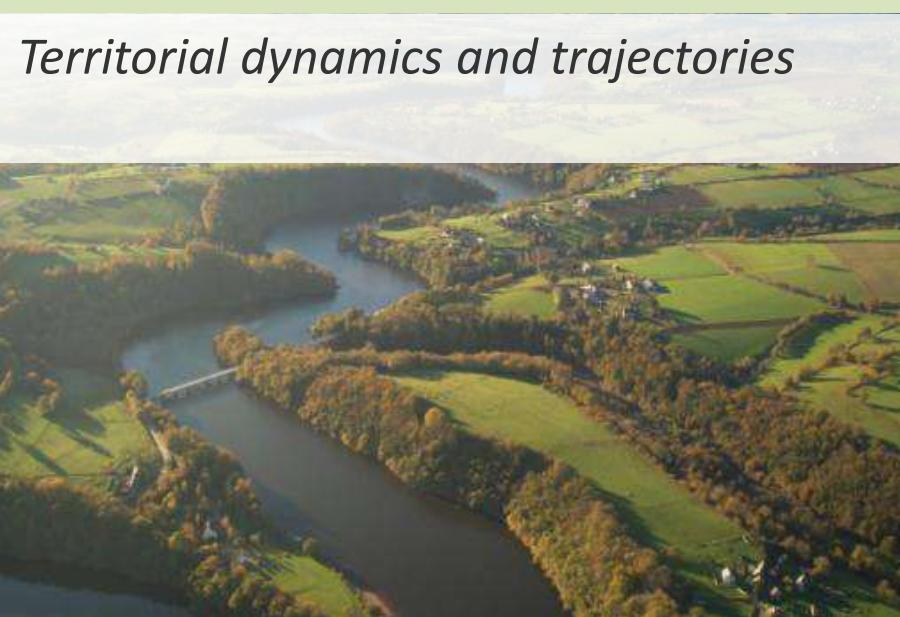


Terre, Écosystèmes et Sociétés

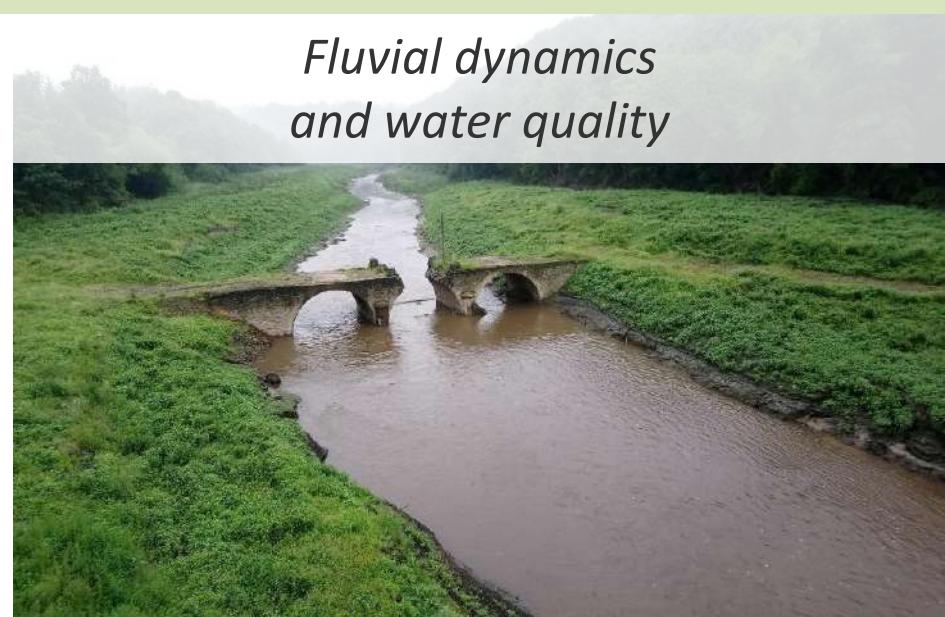


The scientific program: 3 thematic areas + 1 observatory

Territorial dynamics and trajectories



*Fluvial dynamics
and water quality*



*Biocenosis
Functioning and Evolution*



Sélune River Observatory

