

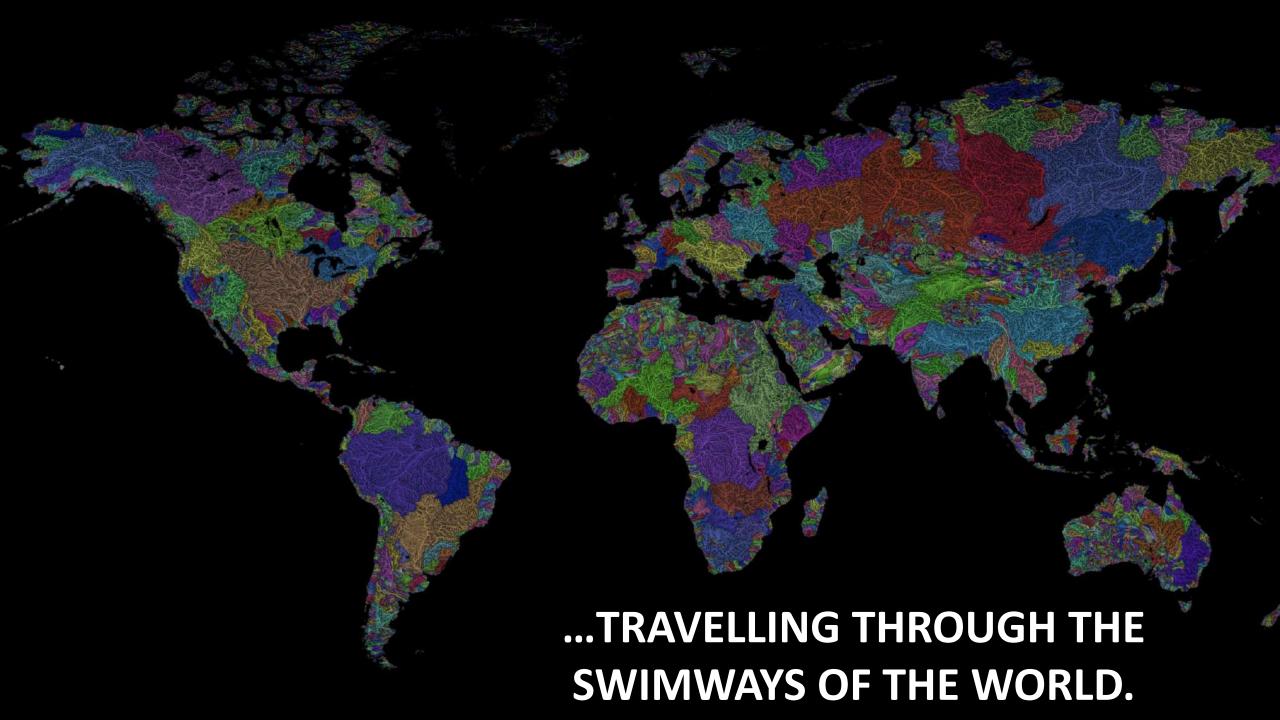


## DAM REMOVAL

# A VIABLE TOOL TO CONTRIBUTE TO THE EU BIODIVERSITY TARGETS

Herman Wanningen, World Fish Migration Foundation SEPTEMBER 2023









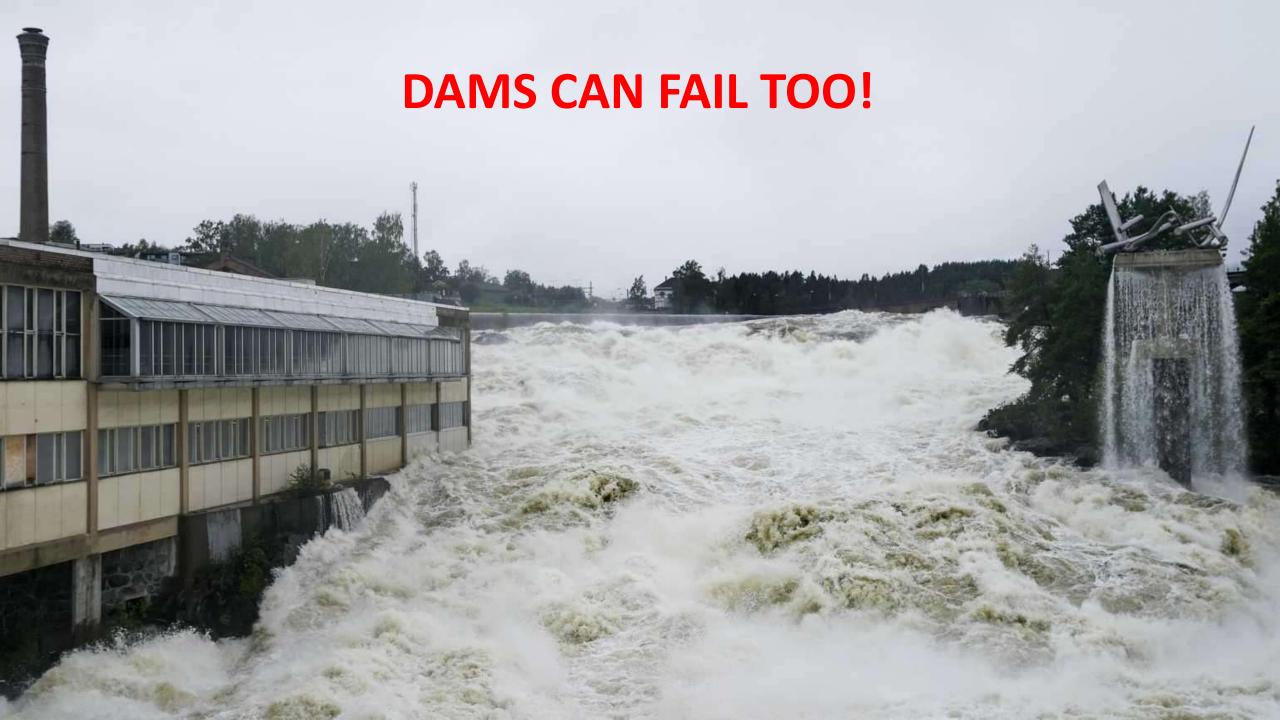


### **OBSOLETE BARRIERS**





European Commission's <u>Guidance on Barrier Removal</u> as: 'barriers that no longer fulfil their original purpose or that are no longer needed'.





### THE PROBLEMS

1.100

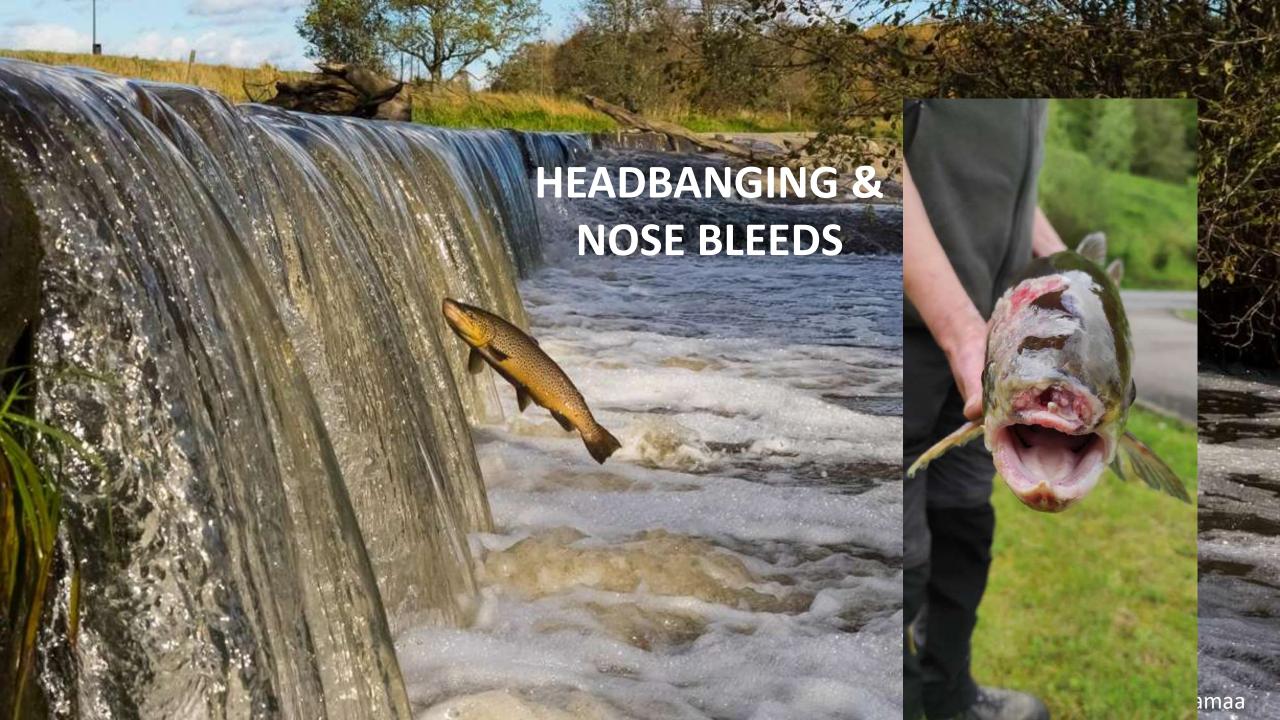
FRESHWATER MIGRATORY FISH SPECIES GLOBALLY ARE BLOCKED BY BARRIERS

>1,2 MILLION\*
BARRIERS FRAGMENT EUROPEAN
RIVERS

>150.000\*
BARRIERS IN EUROPE LISTED AS
OBSOLETE

\*(HORIZON 2020 AMBER EU COMMISSION FUNDED RESEARCH)

© Petteri Hautamaa



### **OTHER PROBLEMS**

#### **SEDIMENT PROCESSES ALTERED**

ACCUMULATION UPSTREAM
LACK OF SAND & GRAVEL DOWNSTREAM

## TRAPPED ORGANIC MATERIAL & NUTRIENTS

WATER QUALITY ISSUES
ALGEA BLOOMS

#### **CHANGE IN WATER VELOCITY**

FLOOD RISKS
TEMPERATURE CHANGE

### **EU POLICIES**

NATURA2000 & WFD

**BIODIVERSITY STRATEGY 2030** 

**EU NATURE RESTORATION LAW** 

RESTORING 25.000KM FREE FLOWING RIVERS

© Rudmer Zwerver





### CREATING OPPORTUNITIES IN EUROPE TOGETHER



**30.000 HYDROPOWER SITES** 

>150.000 OLD & OBSOLETE BARRIERS



# DAM REMOVAL CONTRIBUTES TO

REDUCED FLOOD PROTECTION & SAFETY ISSUES

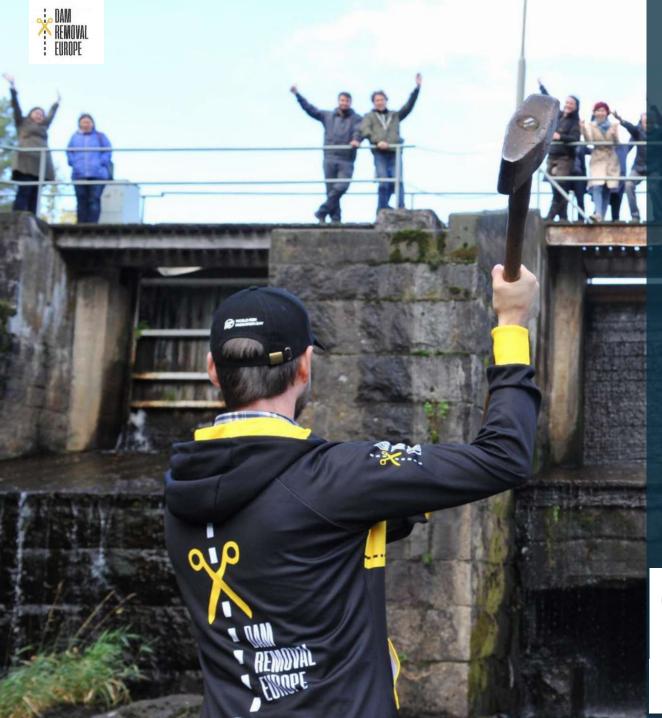
**IMPROVED WATER QUALITY** 

IMPROVED SEDIMENT & NUTRIENT TRANSPORT

**ENHANCED BIODIVERSITY** 







## DAM REMOVAL EUROPE

MOVEMENT OF ORGANISATIONS AND CITIZENS MAINSTREAMING DAM REMOVAL AS A RIVER RESTORATION TOOL.

**COORDINATED BY WFMF** 

















### **OUR STRATEGY**

BUILDING A MOVEMENT OF
PROUD RIVER PRACTITIONERS
& ENABLE THEM TO REMOVE
DAMS

"I really value your amazing events and work, and the fantastic community you have established for knowledge sharing and support".

Tania White, Environment Agency (UK)

## DAM REMOVAL EUROPE

#### **SCALING UP!**

WORKING TOGETHER & SHARING RESOURCES TO RESTORE RIVERS

>25.000 km FREE FLOWING RIVERS

WWW.DAMREMOVAL.EU

## STRATEGY PREMOVAL 2020 2030





## **GROWING MOVEMENT**

MAINSTREAMING

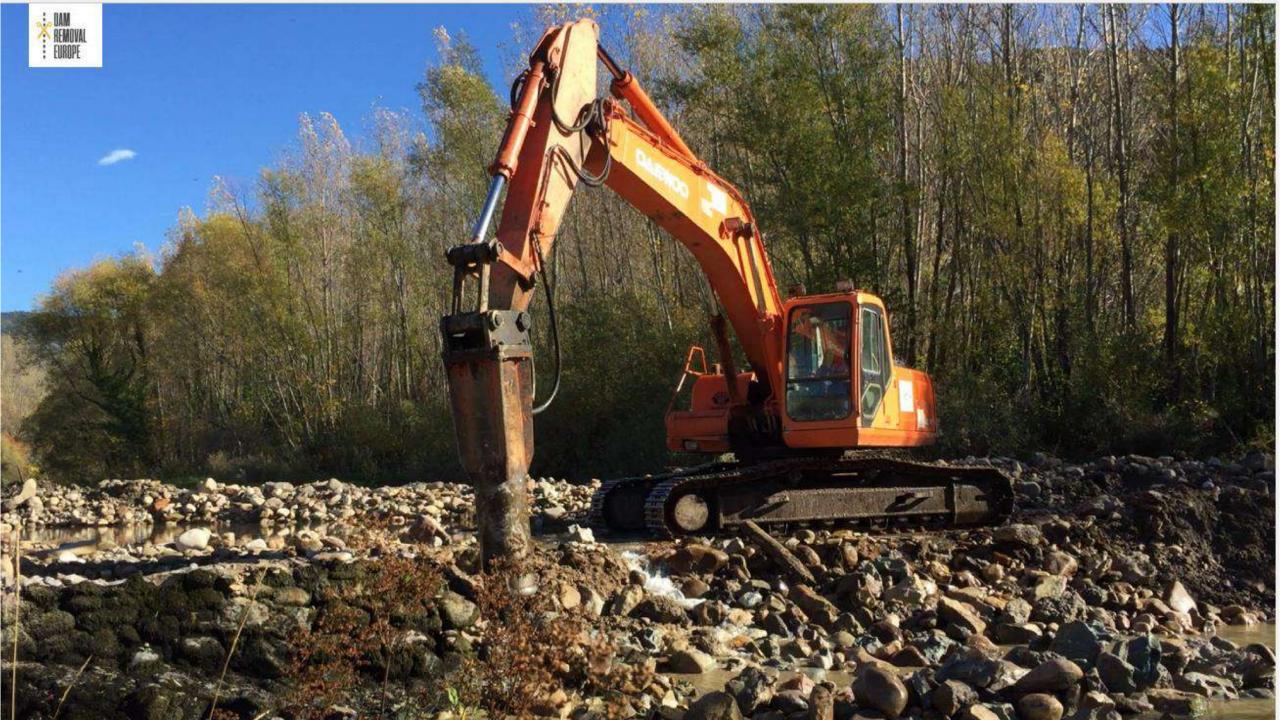
SCALING UP

THINK BIG, ACT LOCAL

CREATING THE BIG SHIFT

IT IS JUST BEATIFUL AND FUN!







## **GROWING MOVEMENT OF FUNDERS**

### **FINANCIALLY SUPPORTED BY**













eaa















### **HELPDESK**

# SHARE RESOURCES & TEMPLATE PROCEDURES

WEBINARS/SEMINARS/WORKSHOPS
BROAD CASTING LIVE REMOVALS
DAM REMOVAL AWARD
TAILOR MADE COURSES
ANNUAL STATUS REPORT
FREE-FLOW CONFERENCE (2024)



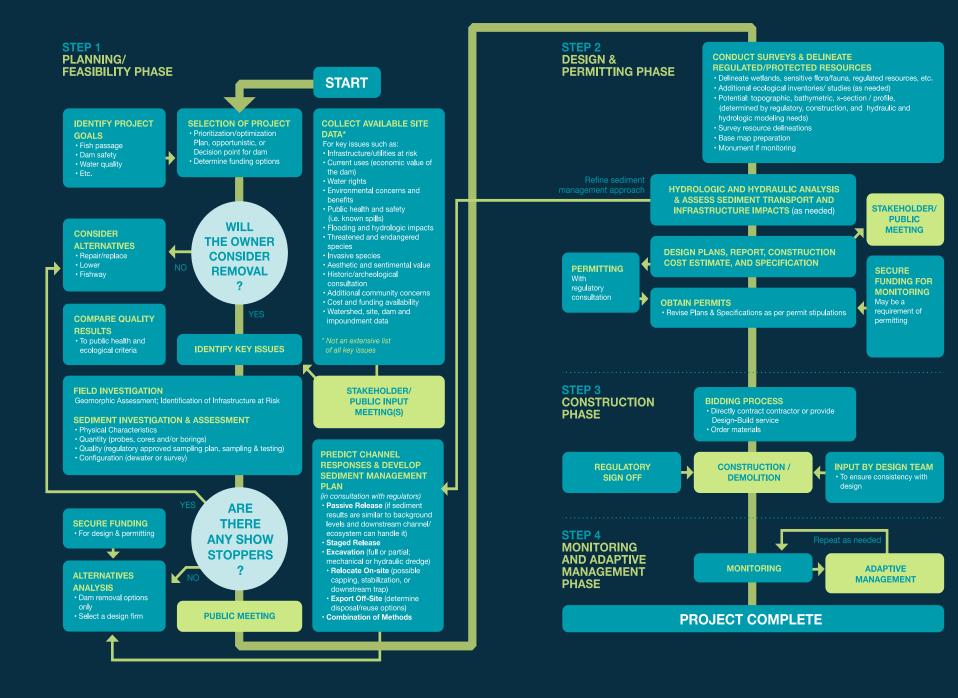
## PROVIDING GUIDANCE

### **STEP BY STEP**

by Laura Wildman



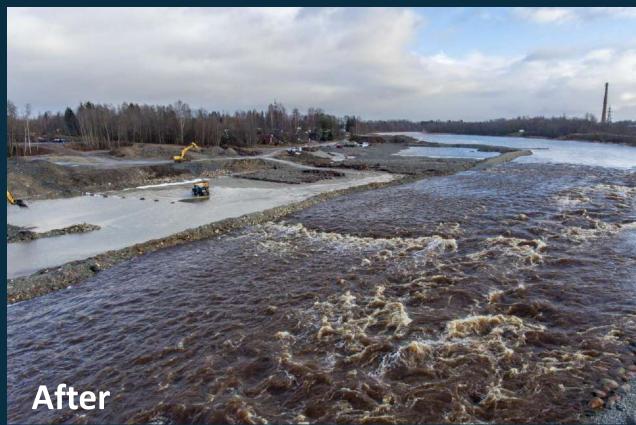
From planning to design, execution and management.





### **SHARING EUROPEAN SHOWCASES**





**ESTONIA, PARNU RIVER: 3000KM RESTORED BY EU DEVELOPMENT FUNDING** 









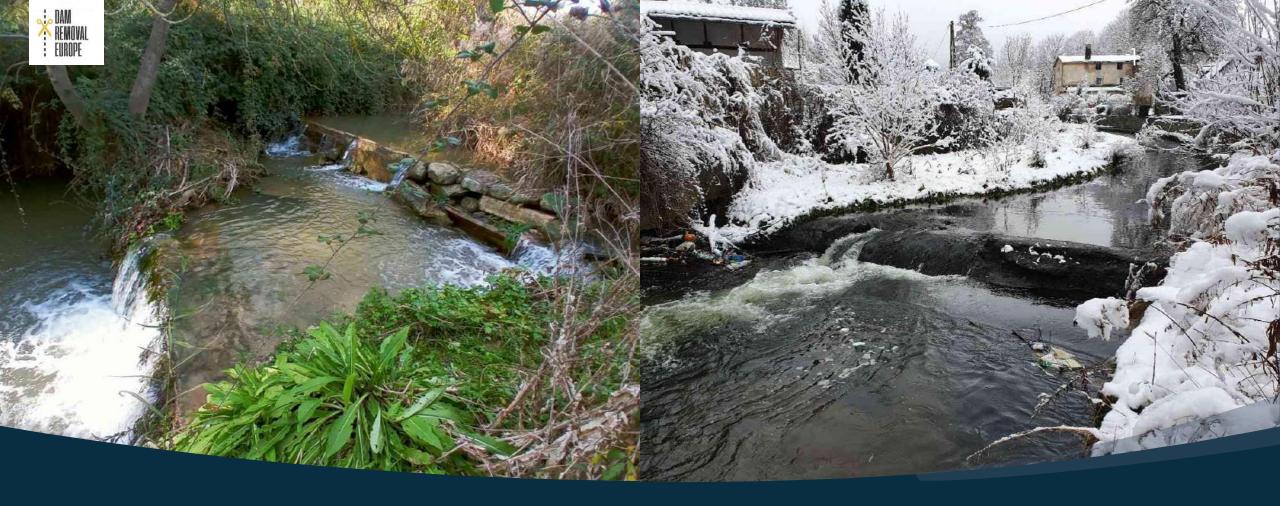












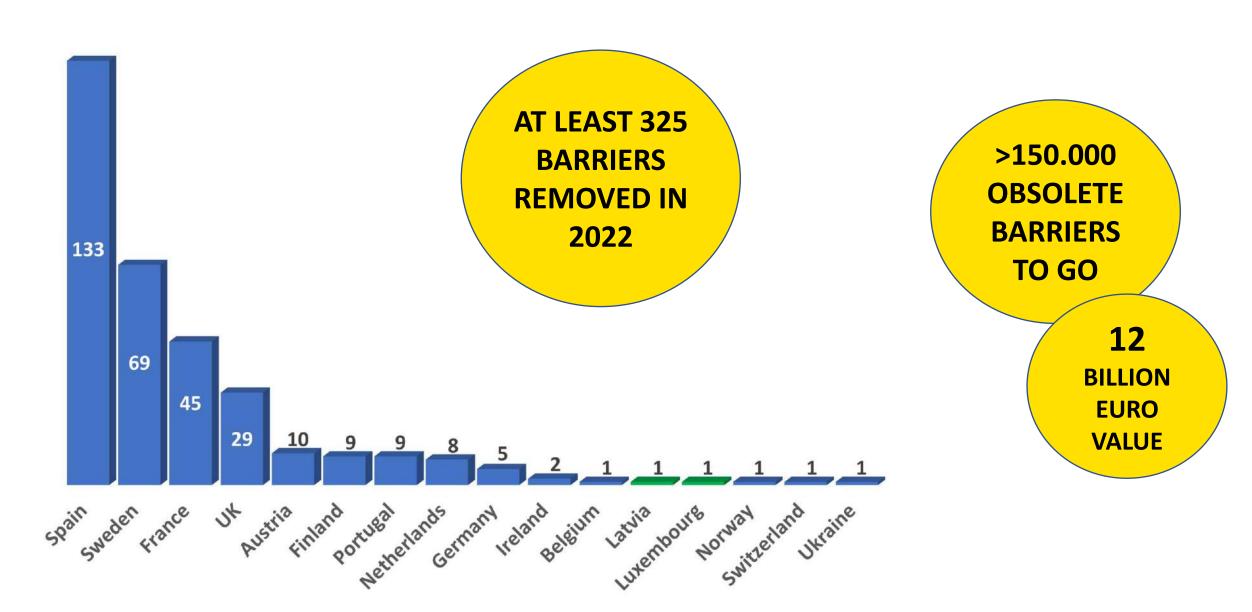
### **BUILDING PIPELINE DATABASE**

UNTIL 2022 MORE THAN >13.000 BARRIERS TRACKED DOWN BY CITIZENS

15% OLD & READY FOR REMOVAL



#### **EVALUATE PROGRESS**





### **BEFORE & AFTER**







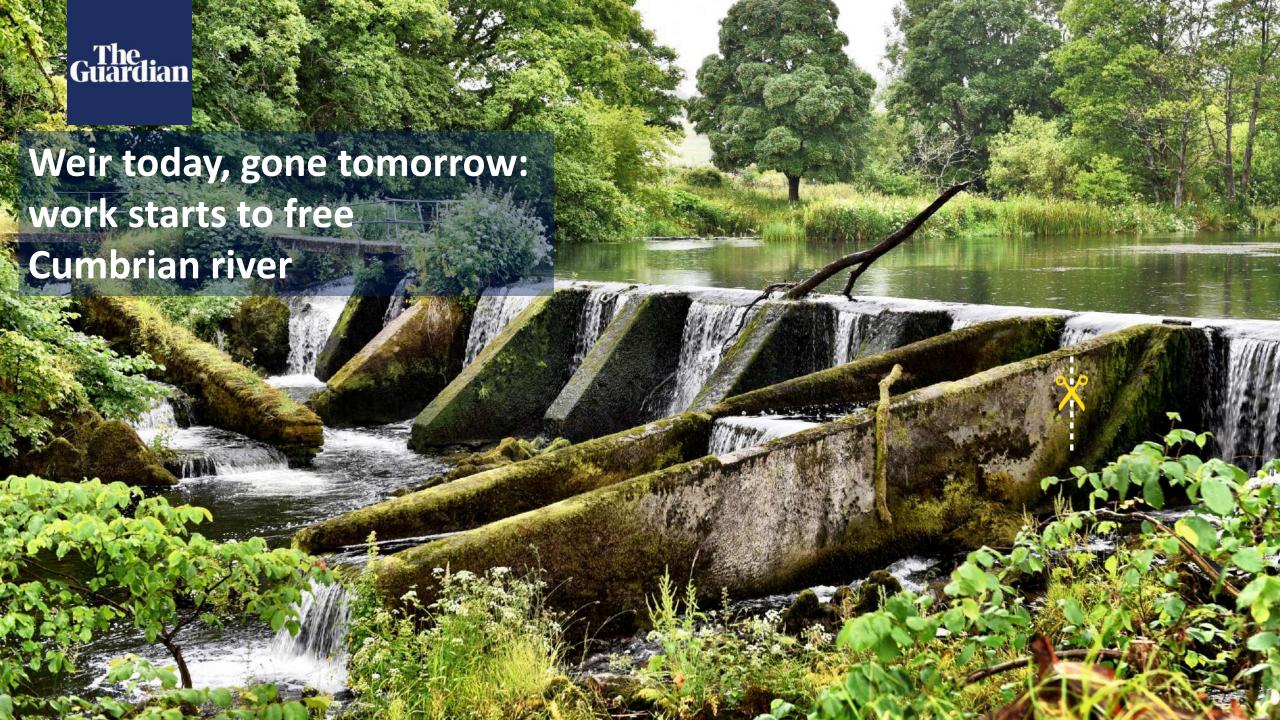


The Guardiar

Dam fine work! Record number of barrier removals helps restore rivers across Europe

More than 300 barriers were taken down last year, boosting the health of waterways and the wildlife they support, say experts.





### DAM REMOVAL **AWARD 2022**

Nominate your project for a chance to win 10.000€.

More information: www.damremoval.eu/events













### **MAINSTREAMING**

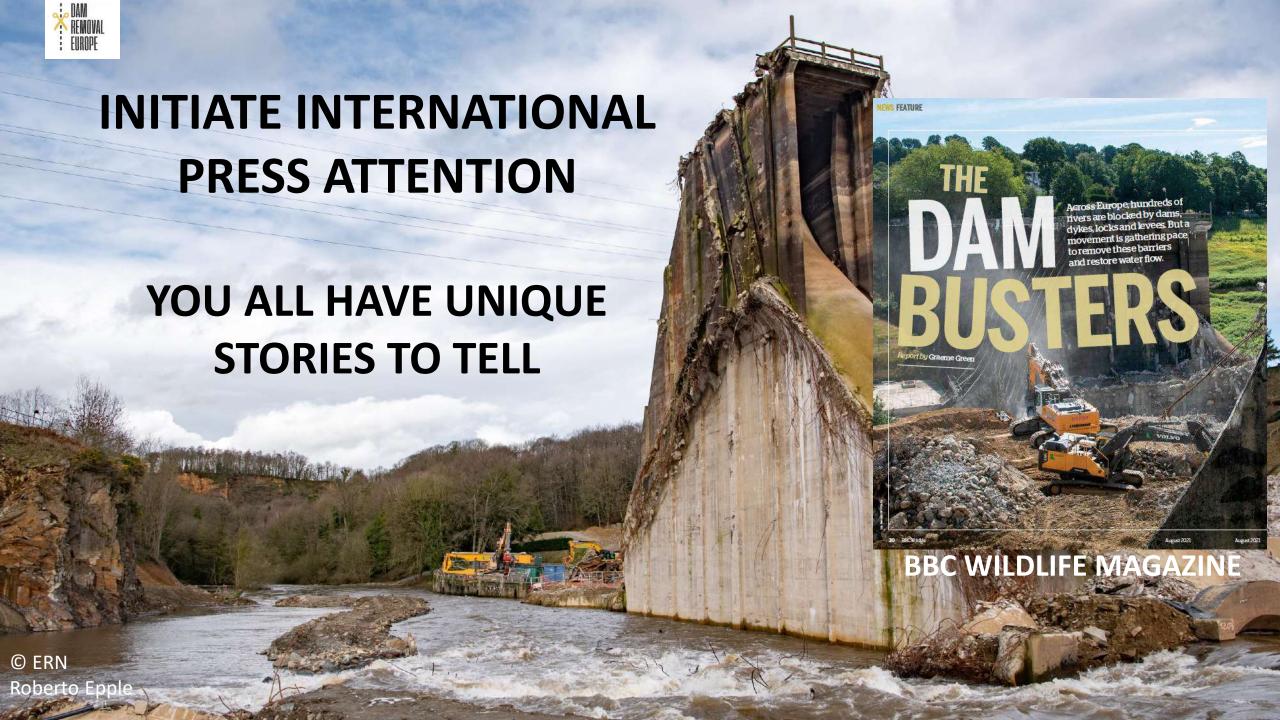
# TO TAKE DAMS OUT TOO

Inspired by a story from Finland

WORK WITH NATIONAL & INTERNATIONAL AMBASSADORS!















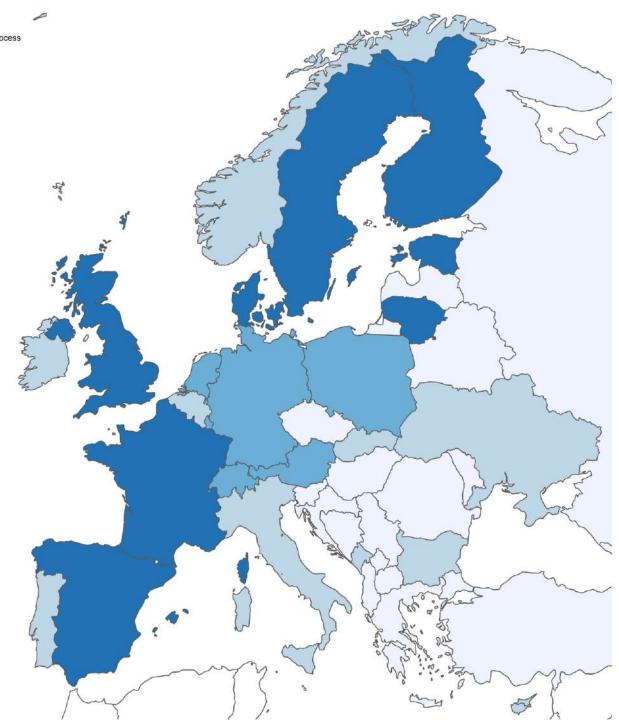


Implementation Dam Removal as

## STATUS IMPLEMENTATION DAM REMOVAL

# 7 COUNTRIES IMPLEMENTED DAM REMOVAL AS A RIVER RESTORATION TOOL

WE AIM TO IMPLEMENT IT IN ALL EUROPEAN COUNTRIES





### **UPSCALING COUNTRY BY COUNTRY**

- 1. INDENTIFY POTENTIAL CHANGEMAKERS
  - →Initiate network, select the frontrunners to take action,
- 2. (INTER)NATIONAL SEMINAR/WORKSHOPS
- → Knowlegde impulse, excitement, need for dam removal, roadmap
- 3. SET UP PILOT PROJECTS
- → Select quick wins, support prioritization, funding & policy process
- 4. REMOVE DAMS BY PRACTITIONERS
- → Proof that it works, proud practitioners, international showcases
- 5. CELEBRATE TOGETHER
- → Highlight projects, proud people, recognition/movement

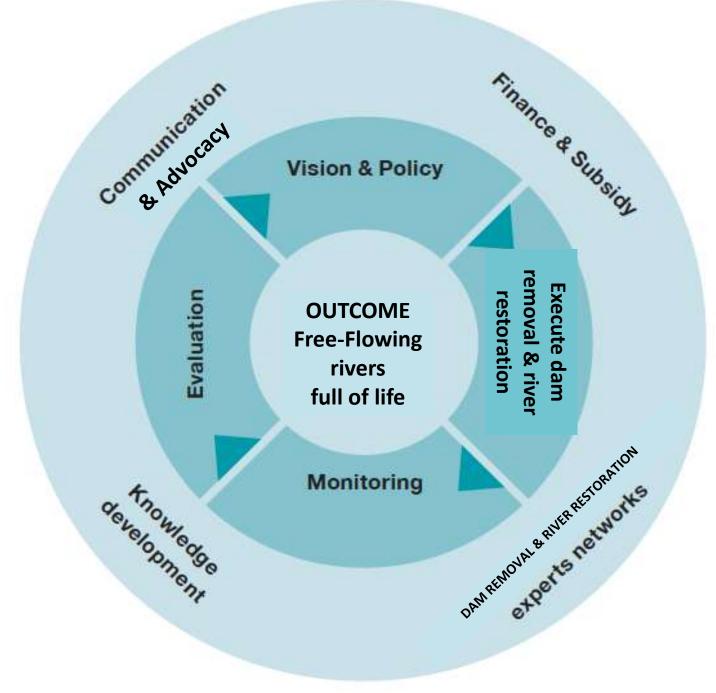
(c) Zuzana Matusova



# UNDERSTANDING THE POLICY CYCLE

THE KEY TO
SUCCESSFULLY
SCALING UP
DAM REMOVAL

FROM LOCAL TO INTERNATIONAL





#### **FUNDING FROM EUROPEAN SOURCES**









Co-funded by the European Union

Estonia - Latvia





Co-funded by the European Union

**Central Baltic Programme** 











The EU bank













### International conference on protecting and restoring free-flowing rivers in Europe

April 15-17, 2024 | Oosterpoort, Groningen, The Netherlands Freeflowconference.eu

Organized by







Moderated by Ella McSweeney



Inspiring keynote speakers: Zeb Hogan Pao Fernández Garrido Jeffrey Duda Gabriel Singer

Various field trip options

## JOIN AND SHARE YOUR KNOWLEDGE!

**APRIL 15-17, 2024** 

Supported by















