

DAM REMOVAL EUROPE

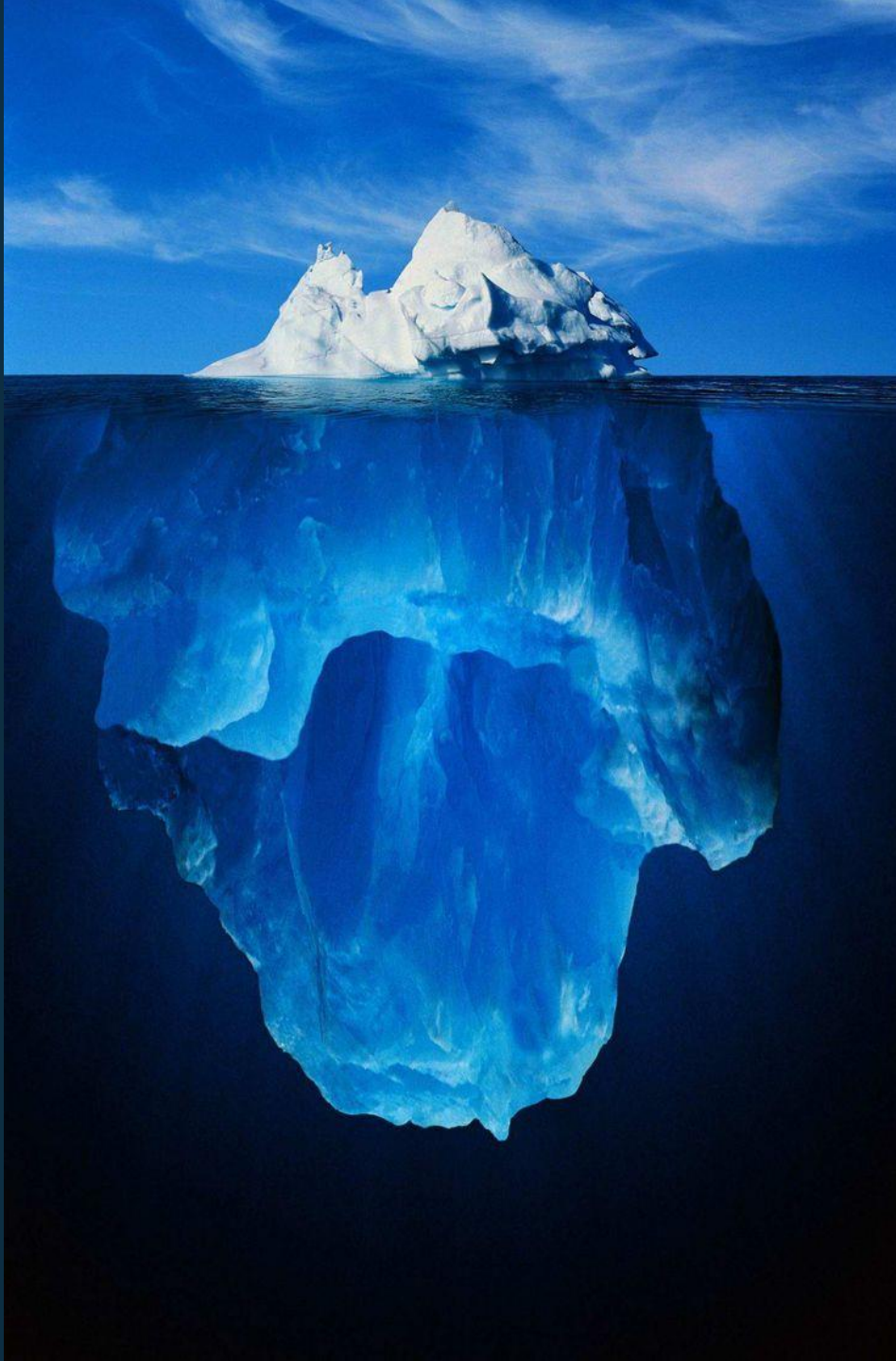
Freeing rivers from barriers, what is happening in Europe?

Pao Fernández Garrido, World Fish Migration Foundation

LIFE IP CleanEST project international conference

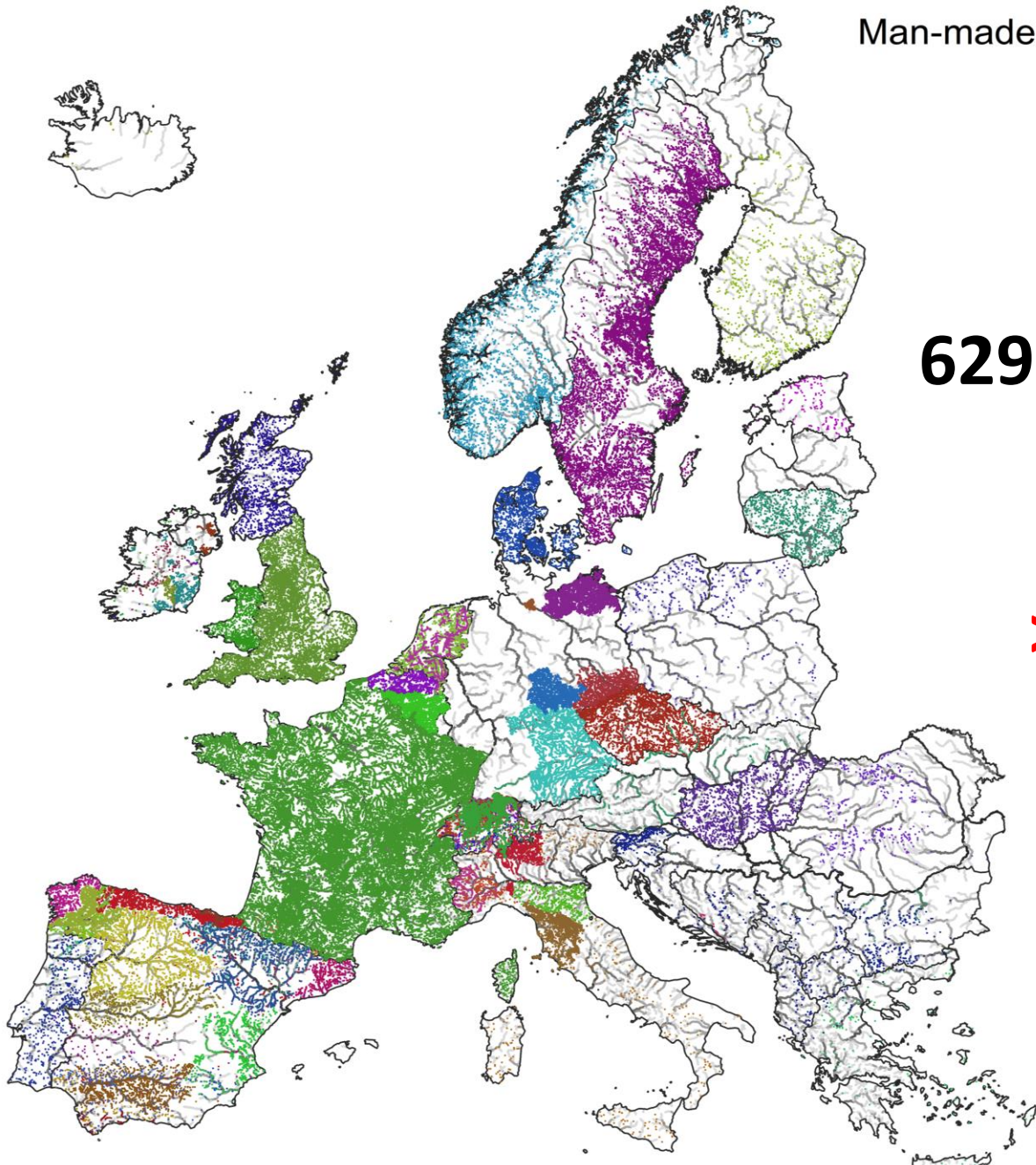
“The Interplay of Water and Politics: Understanding the Influence of Water Management on Decision making”

Narva, Estonia, 26th October 2023



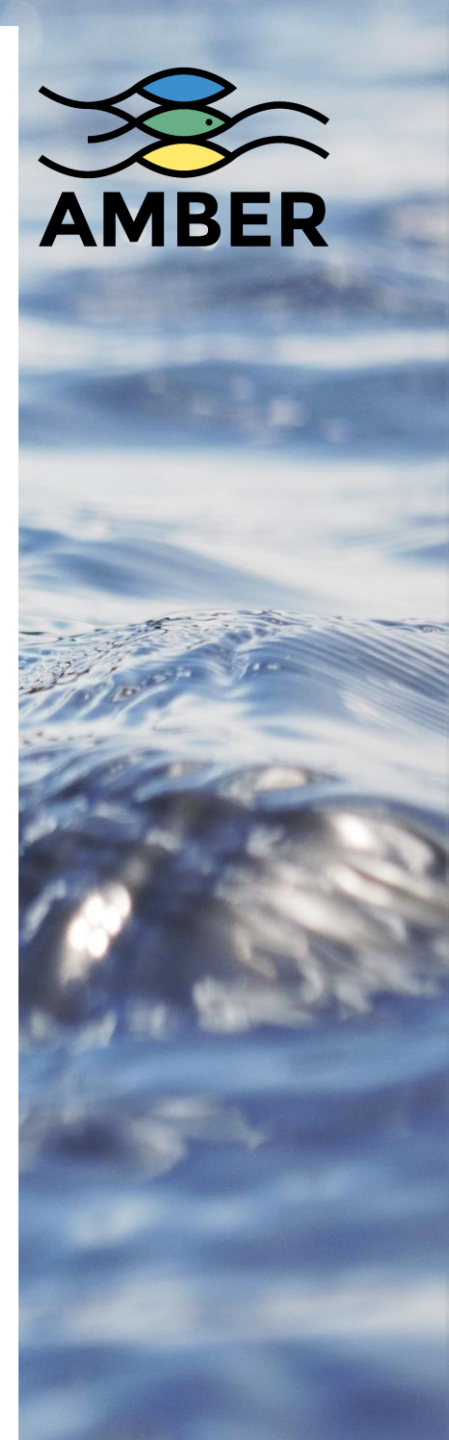
7.000
barriers in Europe

Man-made river barriers included in the AMBER Atlas

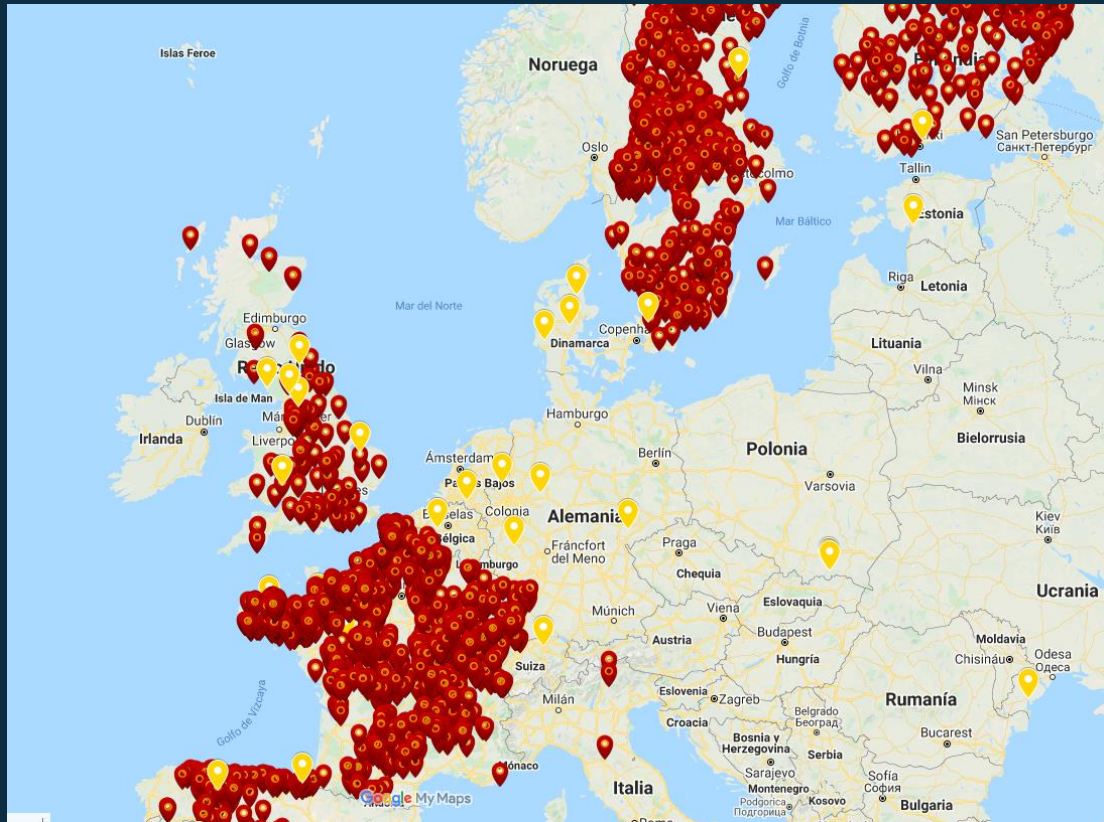


629.000 records compiled

**Reality:
>1.200.000 barriers**



Until 2021



Fuente: Dam Removal Europe Map

FRANCE	>3.400*
DENMARK	>1.000**
SWEDEN	>600**
SPAIN	>550
FINLAND	>500
UK	>200

* Naturally removed + man removed

** Database being verified in this moment

Liability reasons

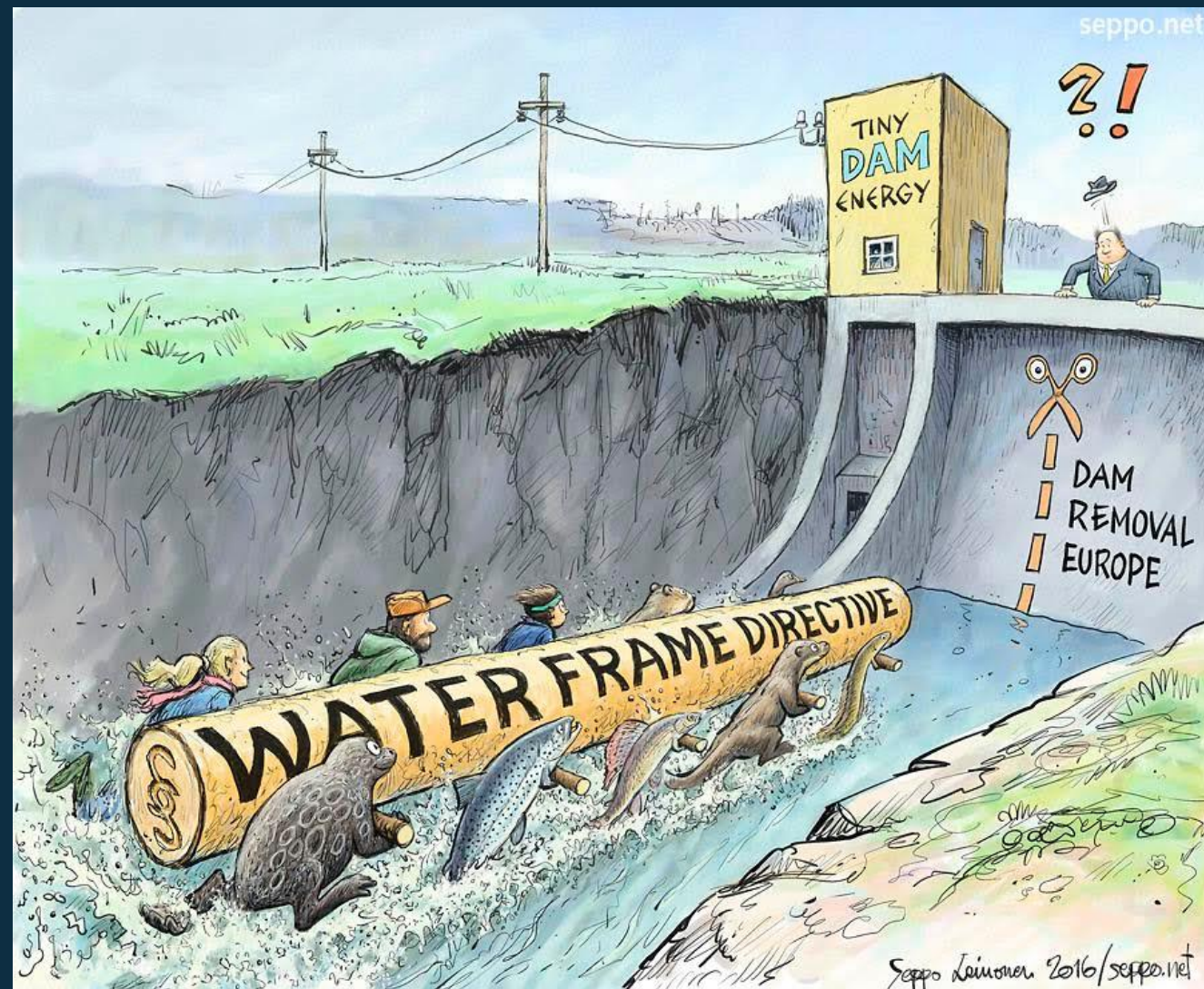
National Legislations



Duero River Basin Authority, Spain

Liability reasons

European legislations



KERNANSQUILLEC DAM, FRANCE



Photo: Michel Termet (1996)



Photo: Corinne Ronot, ERN (2009)

BRIVES-CHARENSAC DAM, FRANCE



Photo: Roberto Epple - European Rivers Network (2003-2004)

VEZINS DAM, FRANCE



Photo: Observatoire photographique du paysage de la Sélune, Université Paris-Nanterre et SMBS

(May 2019)

VEZINS DAM, FRANCE



Photo: Miroslav Očadlík – WWF Slovakia

(June 2023)

Safety reasons

- Infrastructures not maintained can **collapse**
- Small barriers can be **“drowning in machines”**



Tragedia in Trebbia a San Salvatore, 26enne muore annegato FOTO **foto**

E' stato recuperato intorno alle 17 il corpo del giovane annegato in Trebbia a San Salvatore di Bobbio (Piacenza). Classe '89, il giovane era arrivato da Pontecurone in provincia di Alessandria

di Editore - 28 Giugno 2015 - 0:00

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Tragedia in Trebbia, alla diga di San Salvatore di Bobbio (in provincia di Piacenza), dove nel pomeriggio di domenica 28 giugno un giovane di 26 anni, Dario Triglione, originario di Pontecurone, in provincia di Alessandria, è annegato nelle acque profonde del torrente. [in](#)

ROBLEDO DE CHAVELA DAM, SPAIN

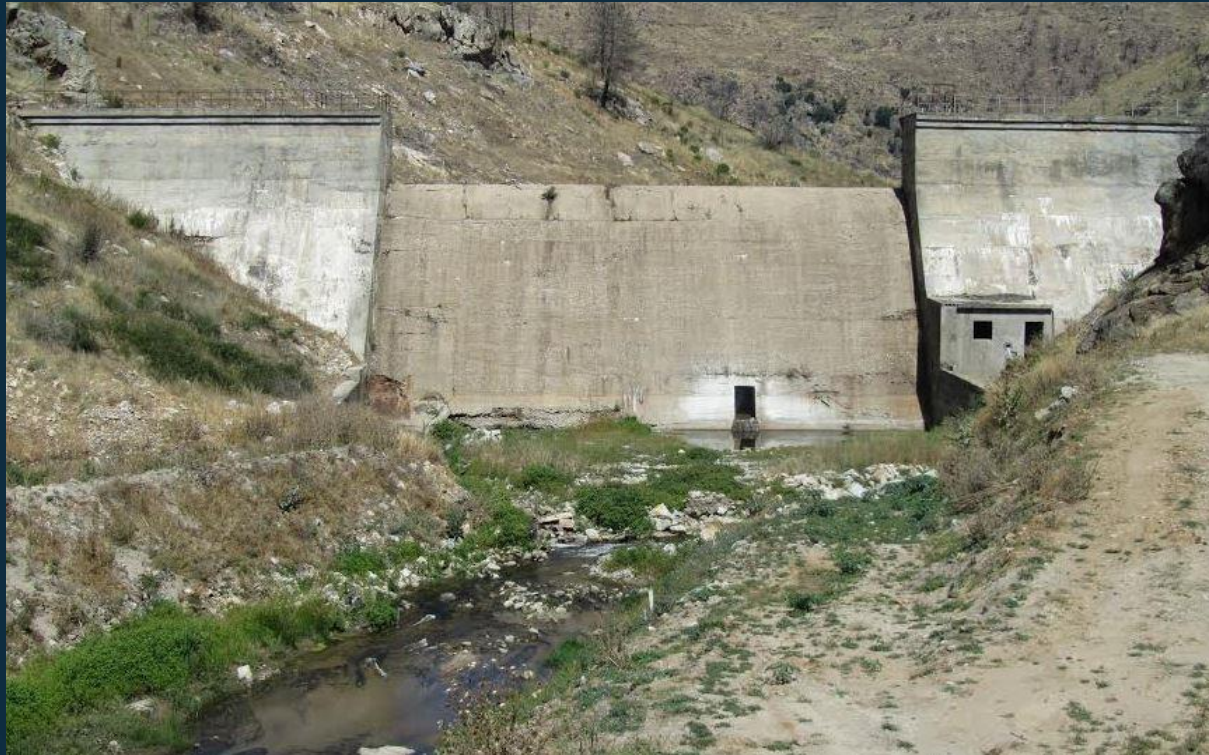


Photo: Tajo River Basin Authority(2014)



Photo: iAgua website (2015)

WHAT DO NATIONAL GOVERNMENT SAY?

“River connectivity is the key to ecosystem resilience. So, dam removal is the best option for connectivity”,
Dr. Saja Koljonen (LUKE, Finland)



Photo from documentary [#DamBusters](#)

“There isn’t a bigger benefit with a lower cost”,
Ignacio Rodríguez Muñoz from Duero Basin
Authority (Spain)

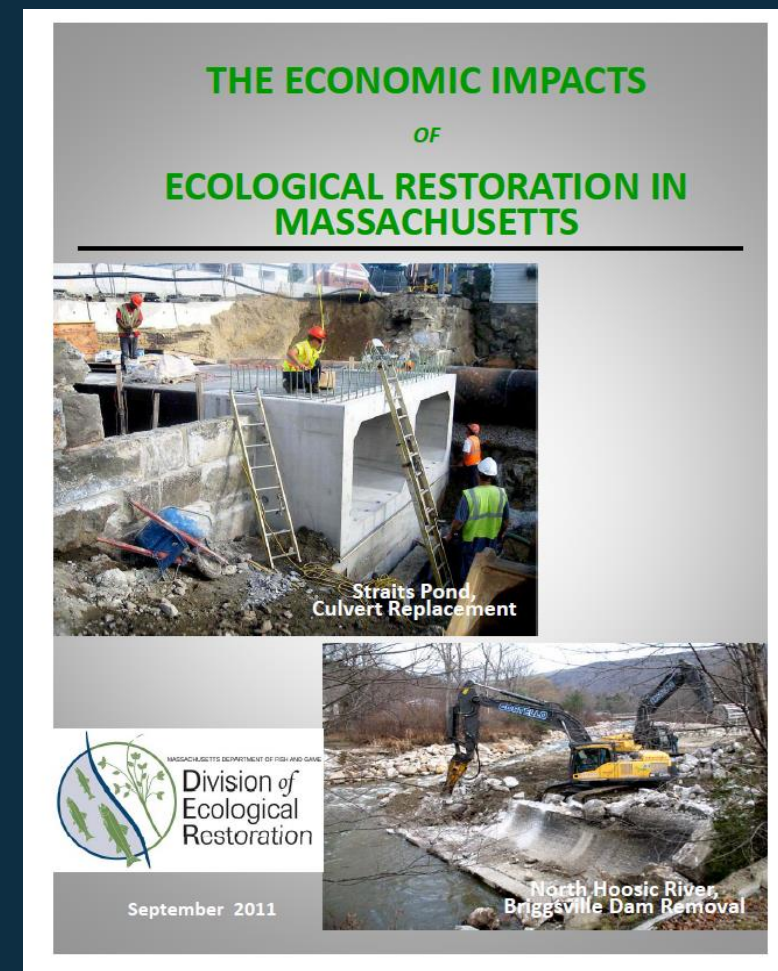



Photo from [Spanish International TV News channel](#)

Economic benefits

“Restoration economy”

Restoration projects generate **equal to or greater economic benefits than** other types of projects such as **road and bridge construction**”.



A black and white photograph of two men in traditional fishing attire. The man on the left is shown in profile, carrying a large, silvery fish over his shoulder. The man on the right is facing him, looking towards the camera with a serious expression. They are standing on a light-colored, possibly sandy or rocky, shore.

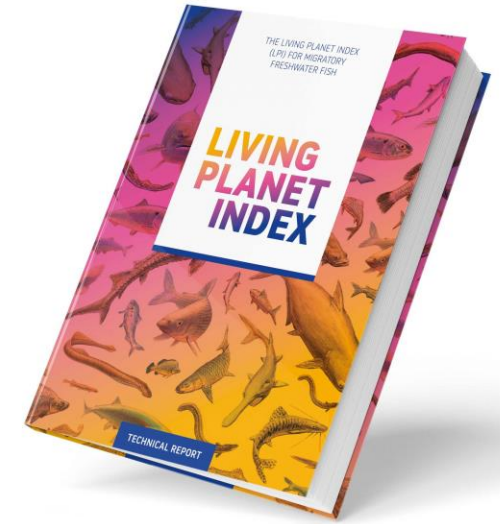
**We forgot how
productive our
rivers were**

**regain prosperity and
economic development.**

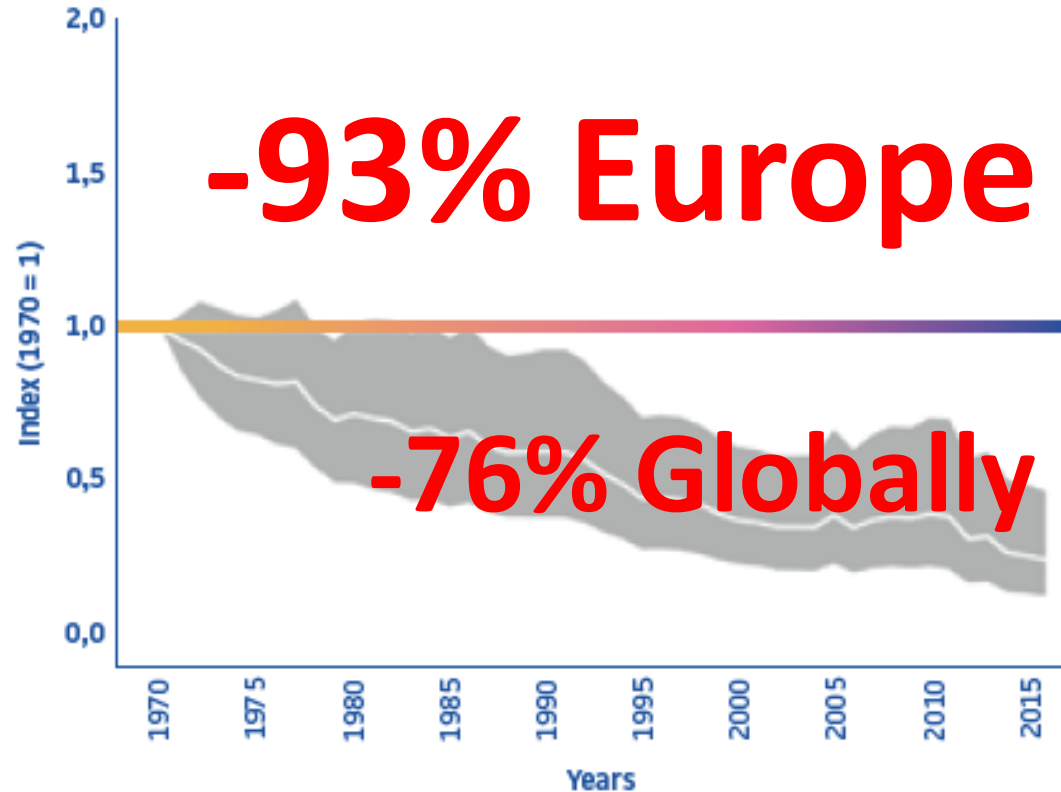


ZSL
INSTITUTE OF
ZOOLOGY

LIVING PLANET INDEX FRESHWATER MIGRATORY FISH



Cambridge
Conservation
Initiative



Download:

[worldfishmigrationfoundation.com
/living-planet-index-2020/](http://worldfishmigrationfoundation.com/living-planet-index-2020/)



SCOTLAND

A screenshot of a news article header from the Daily Record website. The header is red and white. It includes the Daily Record logo, navigation menus for NEWS, POLITICS, FOOTBALL, SPORT, TV & CELEBS, LIFE & STYLE, SCOTLAND NOW, and MORE. Below the navigation is a weather bar showing 6°C and LIGHT RAIN. The article title is "Salmon return to Stewartry burn after an absence of almost a century away". The byline is "By Stephen Norris" and the date is "10:10, 9 MAR 2018". There are social media share icons for Facebook, Twitter, LinkedIn, and Email. A red "NEWS" tag is in the bottom right corner.

Daily Record NEWS ▾ POLITICS FOOTBALL ▾ SPORT ▾ TV & CELEBS ▾ LIFE & STYLE SCOTLAND NOW MORE ▾

6°C LIGHT RAIN ROAD RECORD MENTAL HEALTH PROPERTY MARKETPLACE COMPETITIONS HOROSCOPES DEALS FUNERAL NOTICES JOBS CROSSWORDS

News ▸ Local News ▸ Galloway News

Salmon return to Stewartry burn after an absence of almost a century away

The removal of a barrier in a burn at the former Tarff Creamer at Twynholm has allowed the fish to return

By **Stephen Norris**
10:10, 9 MAR 2018 | UPDATED 10:25, 9 MAR 2018

SHARE     

NEWS



Economic benefits

Vilholt Dam, Gudenå River (Jutland, Denmark)

Removal of dams in Varde River (Esbjerg, Denmark)

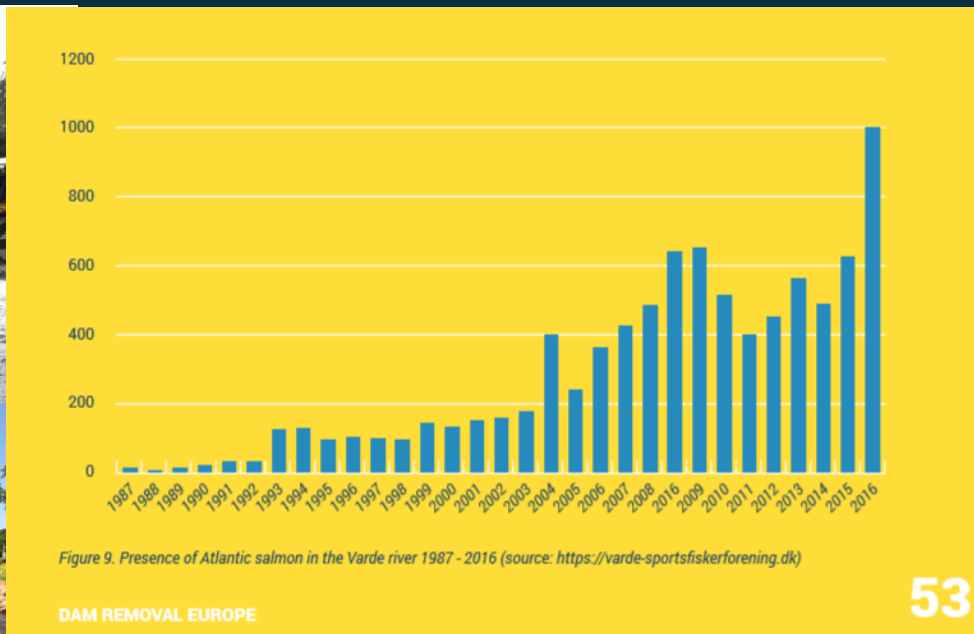
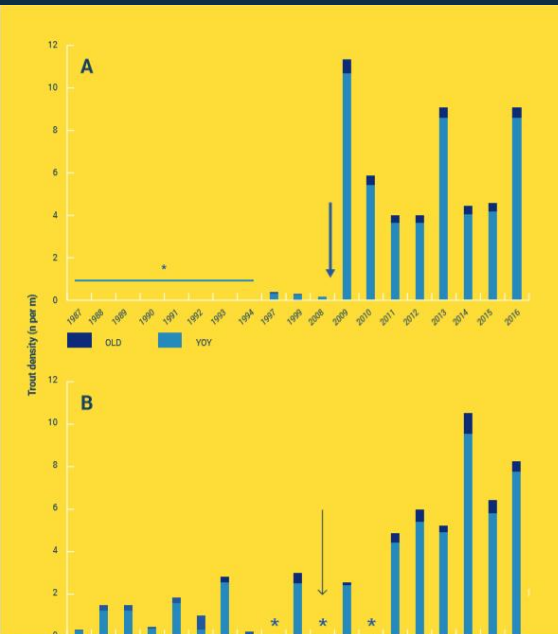


Figure 9. Presence of Atlantic salmon in the Varde river 1987 - 2016 (source: <https://varde-sportsfiskerforening.dk>)



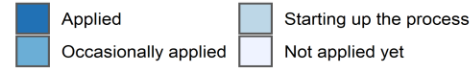
FINLAND

NATIONAL POLICY IN PLACE

HIITOLANJOKI RIVER
3 OLD HYDROPOWER DAMS
2021-2023

AND MORE TO COME...

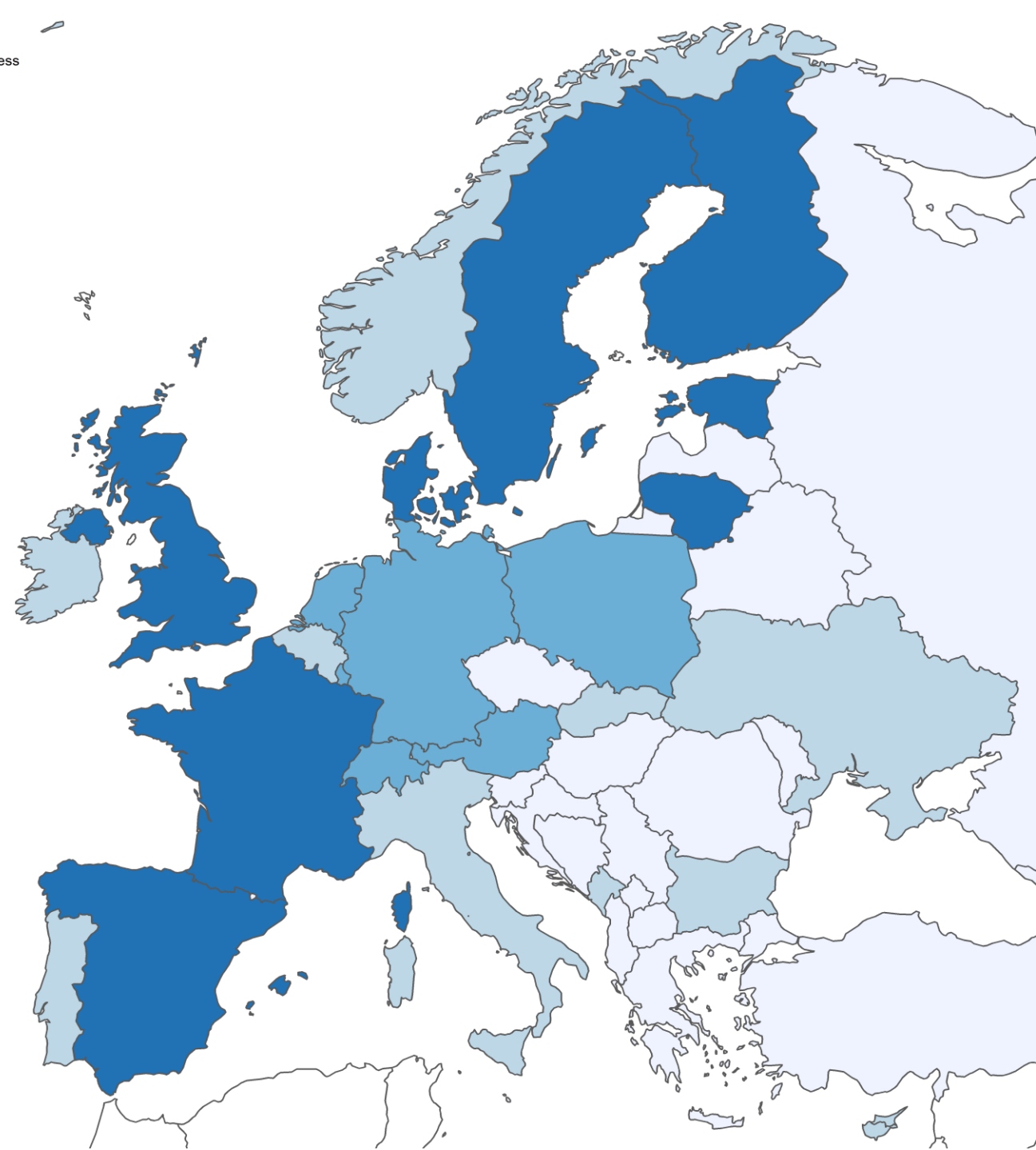




STATUS IMPLEMENTATION DAM REMOVAL

7 COUNTRIES
IMPLEMENTED DAM REMOVAL AS A RIVER
RESTORATION TOOL

WE AIM TO IMPLEMENT IT IN
ALL EUROPEAN COUNTRIES



FUNDING FROM EUROPEAN SOURCES



Estonia - Latvia



Central Baltic Programme



I'M DONE HERE!
I RETIRE!

FREE
AT LAST!

DAMSTERDAM



Suur tänu!



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