









# Removing river barriers to recover rivers and fish around the world

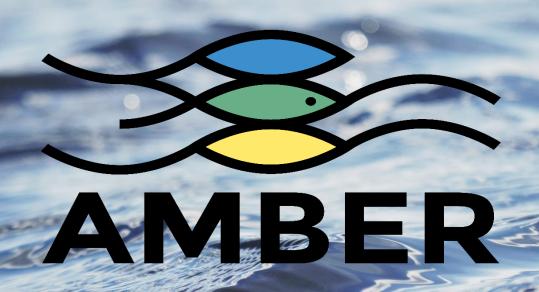
Pao Fernández Garrido & Herman Wanningen (World Fish Migration Foundation, Netherlands)

RIVERS4RECOVERY 10th December 2020









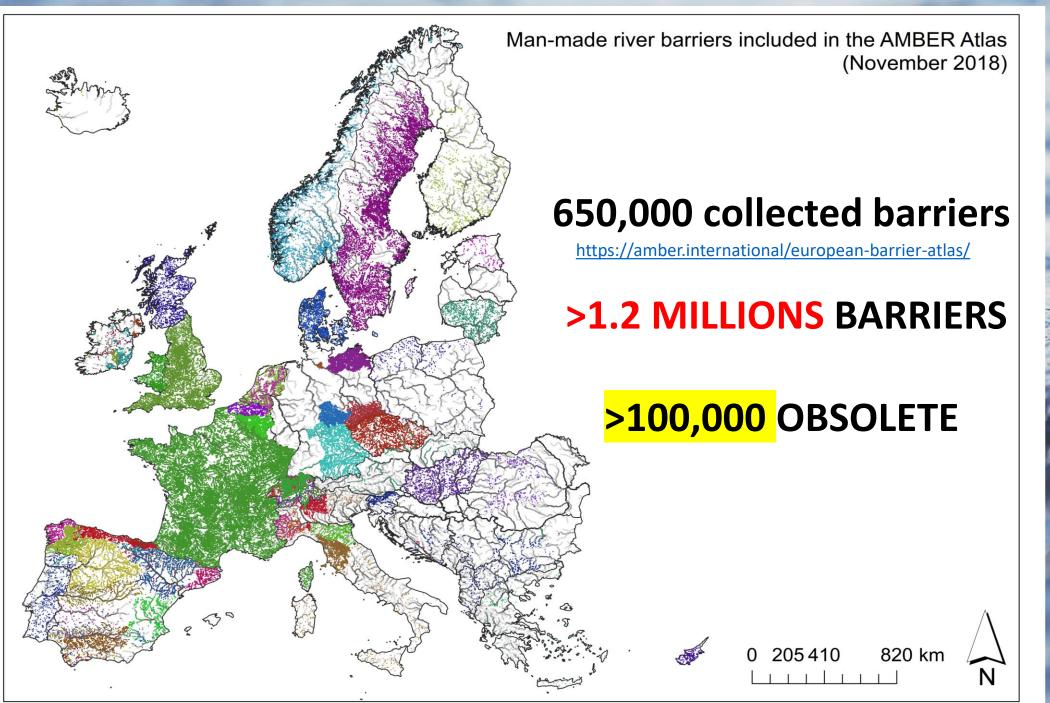
# Adaptive Management of Barriers in European Rivers

A COLLABORATIVE PROJECT FOR GUIDANCE ON BARRIER LOCATION, REMOVAL AND MITIGATION IN EUROPE

www.amber.international

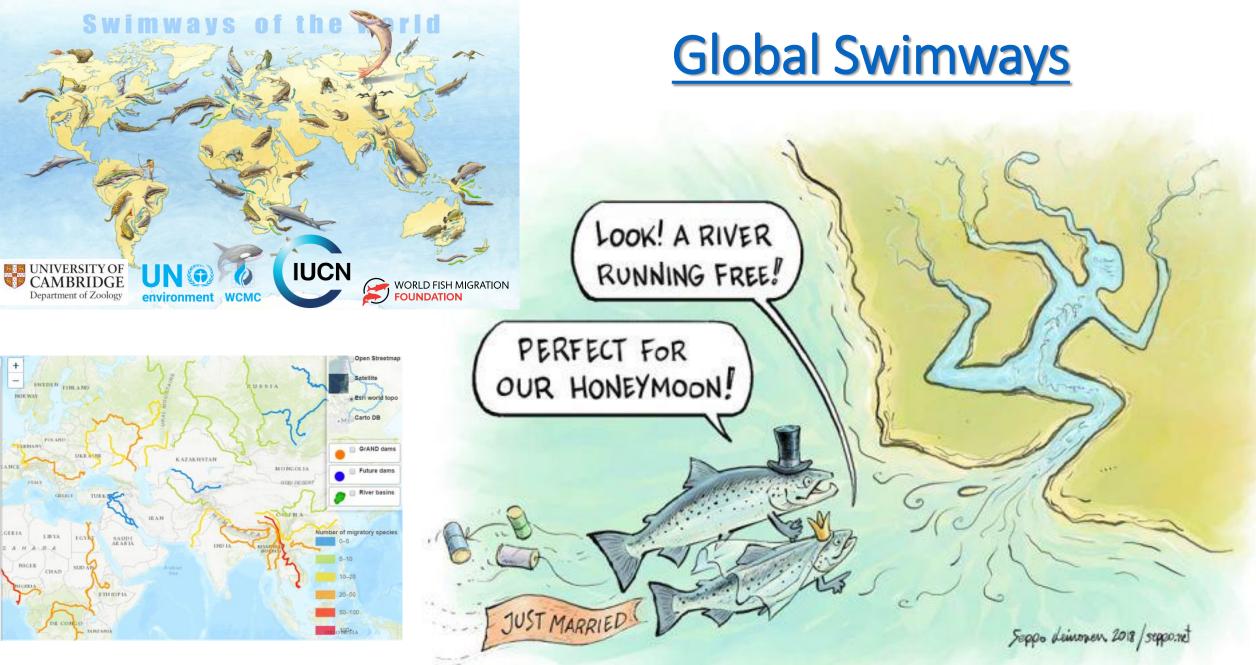












We need to map last free-flowing rivers left and protect them





# LIVING PLANET INDEX FRESHWATER MIGRATORY FISH

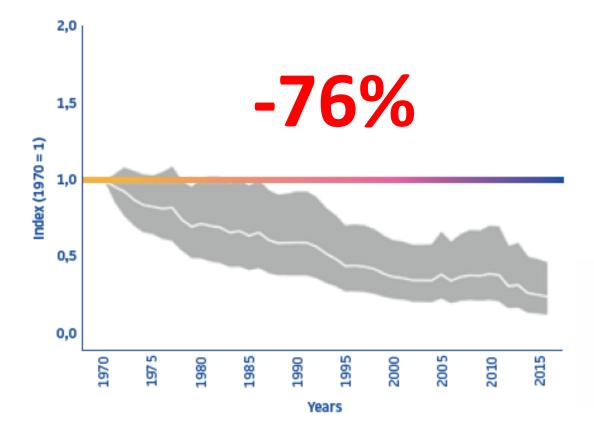


#### **Download:**

worldfishmigrationfoundation.com/living-planet-index-2020/



Cambridge
Conservation
Initiative



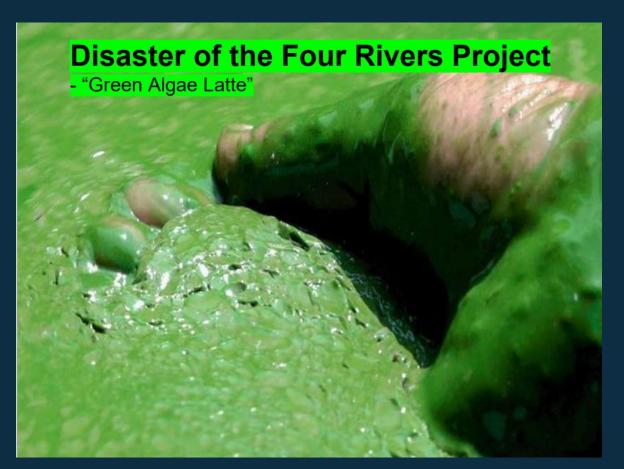






# South Korea: 4 Major River Project





Let's not keep doing the same mistakes, LET'S DO THINGS MUCH BETTER!

Source: Jenny Shin (Korean Federation from Envinronment Movement)



# https://damremoval.eu/



Source: Dam Removal Europe Map

\* Collapsed + man removed

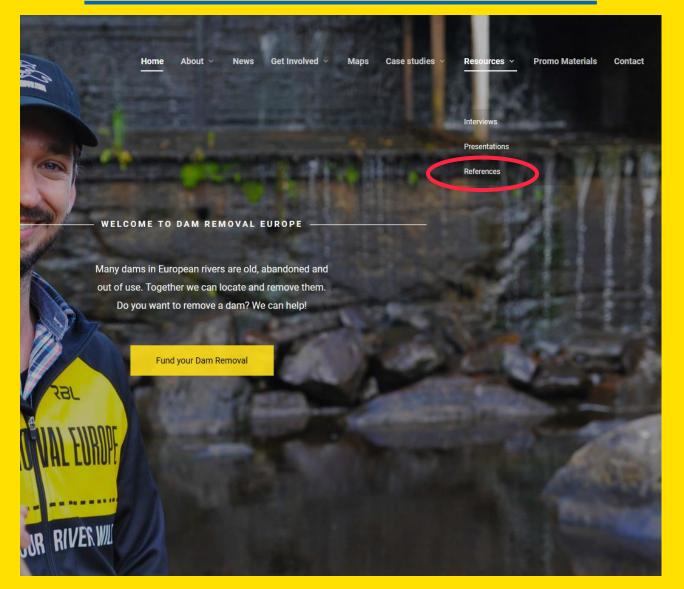
**FRANCE SWEDEN FINLAND SPAIN** UK **NETHERLANDS ESTONIA ITALY SWITZERLAND GERMANY DENMARK** 

>2.400\* >1.600\* >500 >300 >200 >50 >5 3 hundreds (no inventories)

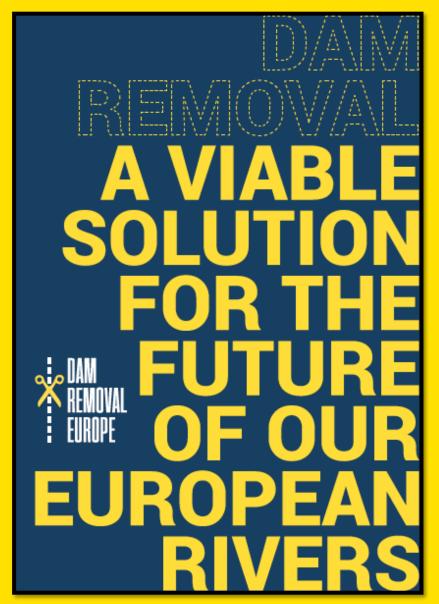
hundreds (no inventories)



# www.damremoval.eu



### **Dam Removal Policy Report**





# Dam Removal Europe

#### **EU Biodiversity Strategy 2030**

"Restoring at least 25,000 km of rivers to be free-flowing"



#### **ENVIRONMENT**

New ENV website >

European Commission > Environment > Nature and biodiversity

Nature and biodiversity

**Biodiversity Strategy** 

Nature and biodiversity law

Species protection

Natura 2000

Green infrastructure

Knowledge and data

#### EU Biodiversity Strategy for 2030

The European Commission has adopted the new <u>EU Biodiversity Strategy for 2030 and an associated Action Plan (annex)</u> - a comprehensive, ambitious, long-term plan for protecting nature and reversing the degradation of ecosystems.

It aims to put Europe's biodiversity on a path to recovery by 2030 with benefits for people, the climate and the planet. It is also the proposal for the EU contribution to the upcoming international negotiations on the global post-2020 biodiversity framework.

In the post-COVID context, the Biodiversity Strategy aims to build our societies' resilience to future threats such as climate **change** impacts, forest fires, food insecurity or disease outbreaks, including by **protecting** wildlife and **fighting** illegal wildlife trade.

A core part of the <u>European Green Deal</u>, the Biodiversity Strategy will also support a green recovery following the pandemic.

#### Main elements of the Strategy for 2030

The Strategy contains specific commitments and actions to be delivered by 2030, including:

- Establishing a larger EU-wide network of protected areas on land and at sea, building upon existing Natura 2000 areas, with strict protection for areas of very high biodiversity and climate value.
- An EU Nature Restoration Plan a series of concrete commitments and actions to restore degraded ecosystems across the EU by 2030, and manage them sustainably, addressing the key drivers of biodiversity loss.
- A set of measures to enable the necessary transformative change: setting in motion a new, strengthened governance framework to ensure better implementation and track progress, improving knowledge, financing and investments and better respecting nature in public and business decision-making.





# **Economic benefits during and after dam** removal works

"Restoration economy"

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

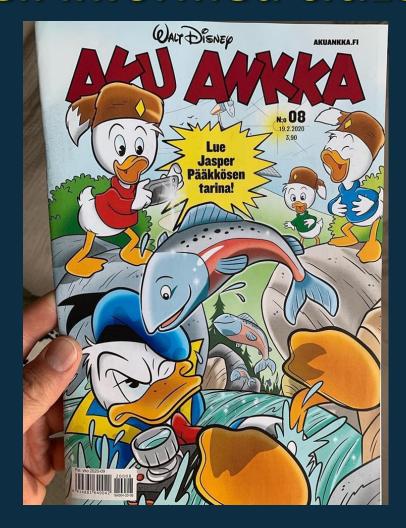


# dam removal in political agenda



Government has planned to use 18 Million Euros to restore their rivers

# Well informed citizens



Disney Finland Comic





Fantastic awareness campaign

### **Finland**

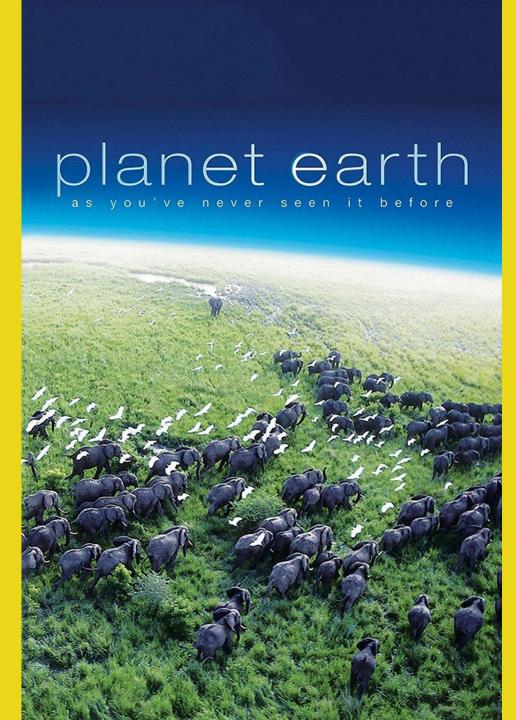
### Tikkurila Weir, Vantaa City



https://damremoval.eu/portfolio/tikkurila-dam-vantaa-finland/







#### **7,200 BARRIERS**

### Tracked Barrier Map

>1,600 USERS

Click on pins to see details of the barriers gathered with the AMBER Barrier Tracker app and filter by top contributors per country.



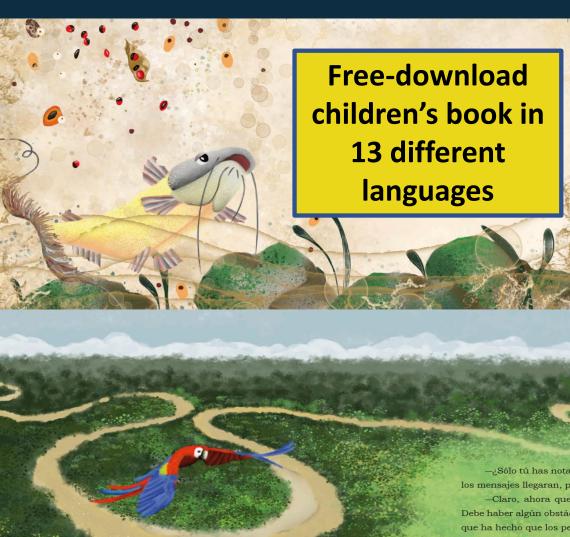
## https://www.worldfishmigrationday.com/downloads/

# Yuru y Ara

Una historia en el Mamoré

Eva Lucía Bayarri y Juvitina Galán





We need to teach children THE HUGE IMPORTANCE OF FREE-FLOWING RIVERS



### **DAM BUSTERS**





# Biggest dam removal in Europe (May 2019, France)



