

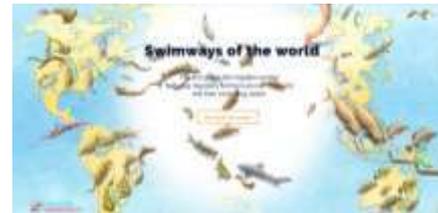
***Portrait of a new European movement of opening up
swimways in rivers***

**Selune Valley Revival – 5th Dam Removal Europe International Seminar
24-26 September 2019, France**

*Pao Fernández Garrido
World Fish Migration Foundation*

WORLD FISH MIGRATION FOUNDATION

- World Fish Migration Day (WFMD)
www.worldfishmigrationday.com
- Dam Removal Europe (DRE)
www.damremoval.eu
- Adaptive Management of Barriers in European Rivers (AMBER)
<http://amber.international>
- From Sea to Source 2.0
www.fromseatosource.com
- Swimway Posters
www.swimway.org



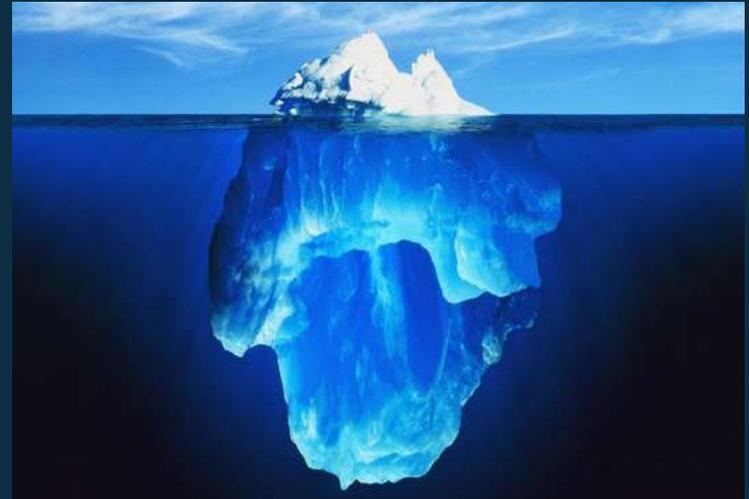
Fish Passage Conference 2012 – Amherst, MA, USA



Source: <https://www.americanrivers.org/threats-solutions/restoring-damaged-rivers/dam-removal-map/>

How many river barriers are there in Europe? How many have been removed?

- **European Environmental Agency:** There are currently about **7,000 large dams** in Europe
 - Spain approx. 1,200
 - Turkey approx. 610
 - Norway approx. 364
 - UK approx. 570
- **International Commission on Large Dams (ICOLD):** **59,071 dams** data corresponding to registered dams only



Dam removals in Europe

> 4,500

- FRANCE: ≈ 2,300
- SWEDEN: ≈ 1,600
- FINLAND > 500
- SPAIN: > 250
- UK: > 150
- NETHERLANDS 50
- ESTONIA 10
- BELGIUM: tbd
- GERMANY: tbd
- SWITZERLAND: tbd
- DENMARK: tbd





Portrait of a new European movement of opening up swimways in rivers

*Selune Valley Revival - 5th DRE International Seminar
Rennes 24th September 2019 (France)*

Dam Removal Europe

www.damremoval.eu



• Growing Network

Facilitating information

- Website
- Newsletters

Sharing knowledge and experiences

- International seminars
- National seminars

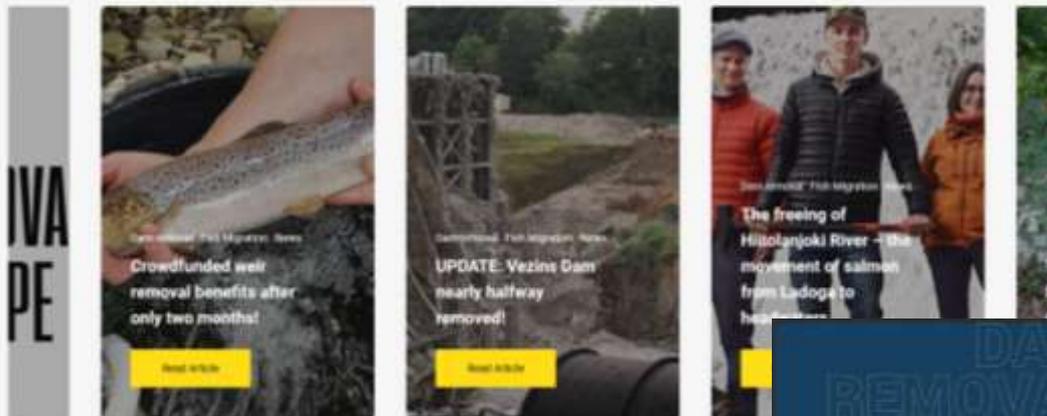
Putting dam removal in policy-makers agenda

- Policy Report(July 2018)

>1,200!!



News



The screenshot shows three news cards. The first card features a photo of a person holding a large fish and has the text 'Crowdfunded weir removal benefits after only two months!' with a 'Read article' button. The second card shows a dam structure and has the text 'UPDATE: Vezins Dam nearly halfway removed!' with a 'Read article' button. The third card shows three people standing in front of a dam and has the text 'The freeing of Hisspolarjoki River - the movement of salmon from Ladoga to headwaters' with a 'Read article' button.

SEMINARS & EVENTS



Seminars/ Workshops/ Conferences and Meetings

Selune Valley Revival

Selune Valley Revival/ Dam Removal Europe, European

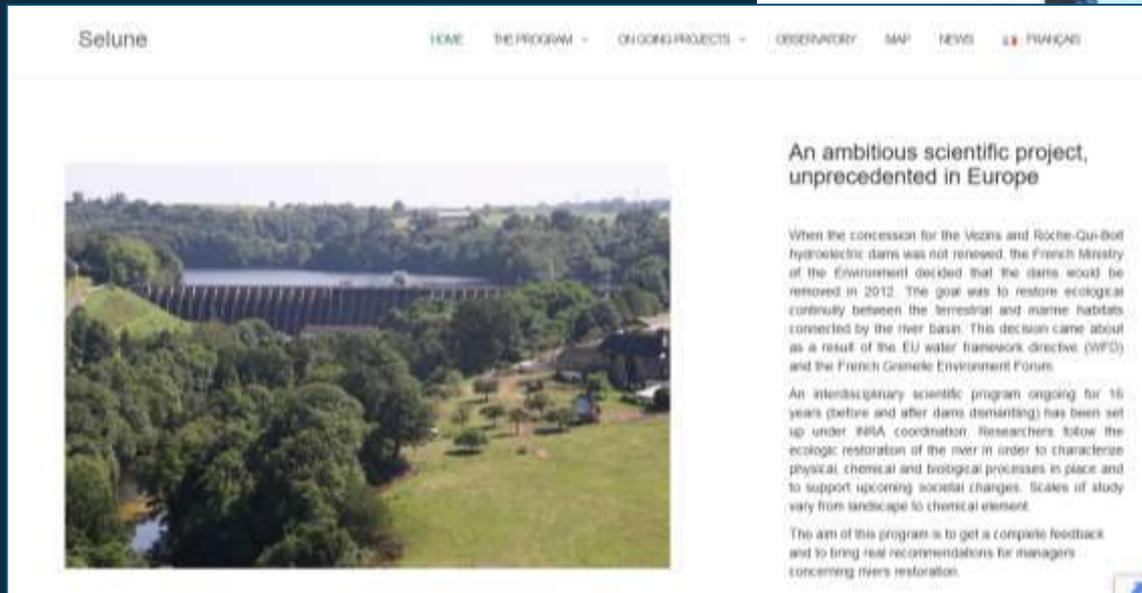


Seminars/ Workshops/ Conferences and Meetings

Let It Flow! International seminar on dam removal, Estonia



- Growing knowledge



Vezins Dam removal (France)



Enobieta Dam removal (Spain)

- **Growing knowledge**



**Arase Dam removal, Kuma River
(Japan)**





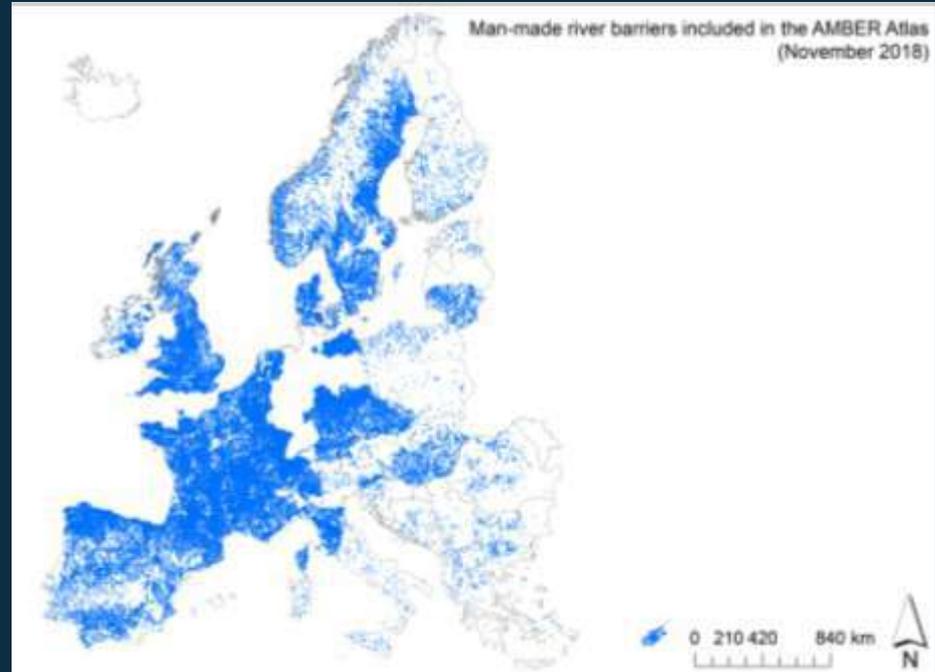
Adaptive Management of Barriers in European Rivers

- **Growing knowledge**

A barrier almost every kilometer

First indications AMBER project (Horizon2020) after collecting river barrier inventories through all Europe and after 1,000 km of rivers surveyed:

- Over 450,000 records in inventories
- Estimation: 1,000,000 barriers
- Approx. 1 barrier every kilometer



Source: <https://amber.international/european-barrier-atlas/>

- **Growing Outreach**

MENU ▾

nature
International journal of science

Article | Published: 08 May 2019

Mapping the world's free-flowing rivers

G. Grill [✉](#), B. Lehner [✉](#), [...] C. Zarfl

SCIENTIFIC AMERICAN

THE SCIENCES MIND HEALTH TECH SUSTAINABILITY EDUCATION VIDEO PODCASTS BLOGS PUBLICATIONS Q

SUSTAINABILITY

The Downside of Dams: Is the Environmental Price of Hydroelectric Power Too High?

International edition ▾

The Guardian

Only a third of world's great rivers remain free flowing, analysis finds

Dams, levees, hydropower and habitat degradation behind fragmentation on huge scale, finds global assessment



▲ The Three Gorges Dam on the Yangtze river, Hubei province, China. Photograph: China Stringer Network/Reuters



Adaptive Management of Barriers in European Rivers

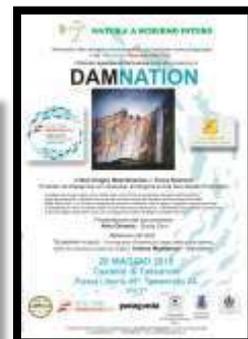
- **Growing Outreach**



WORLD FISH MIGRATION DAY

As many types of events as you could imagine

Kayak trips, boat rides, citizen science programs, school activities, museum expositions, seminars, movie screenings, etc.



Connecting fish, rivers and people!

North America Hub

Europe Hub

Asia Hub

South America Hub

Africa Hub

Oceania Hub

WFMD2018: 570 events worldwide!





**MERCI BEAUCOUP!
THANK YOU!**

Contact us!

pao@fishmigration.org

News, cases studies,
conference presentations and
more in

www.damremoval.eu/

