

A photograph showing a group of five people working on a riverbank. Two men in the foreground are wearing waders and using surveying equipment. A man in a green polo shirt and hat stands behind them. Another man in a white t-shirt and plaid shorts stands further back. A fifth person is partially visible on the right. The background shows a lush green forest and a flowing river.

Reconnecting European rivers, the smart way

# LET IT FLOW





# Barrier Tracker



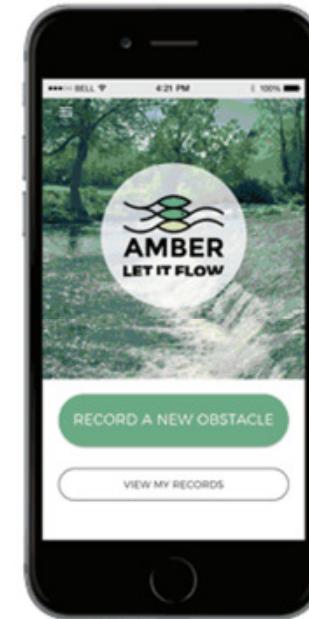
## App Store Preview

This app is only available on the App Store for iOS devices.

**Barrier Tracker** 4.4  
Natural Aptitude  
Free

**Screenshots** iPhone iPad

The screenshots show the app's user interface. The first screenshot is the home screen with the AMBER logo and two main buttons: 'Record a New Obstacle' and 'View My Records'. The second screenshot shows a 'Barrier Type' selection screen with icons for Dam, Wall, Culvert, Pipe, Sluice, and Ramp. The third screenshot shows a 'Dam Type' selection screen with icons for Overflow Dam, Wing Dam, Check Dam, Arch Dam, and Barrage Dam. The fourth screenshot shows a 'Check Dam' details screen with a photo of a dam and a description: 'A check dam is a barrier used in mountainous regions to cause sedimentation or reduce the slope of the river. Water can flow over the structure.'



48% 16:52



AMBER, Adaptive Manag X

AMBER international

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Adaptive Management of Barriers in European Rivers

AMBER will apply adaptive barrier management to help reconnect European rivers, the smart way.

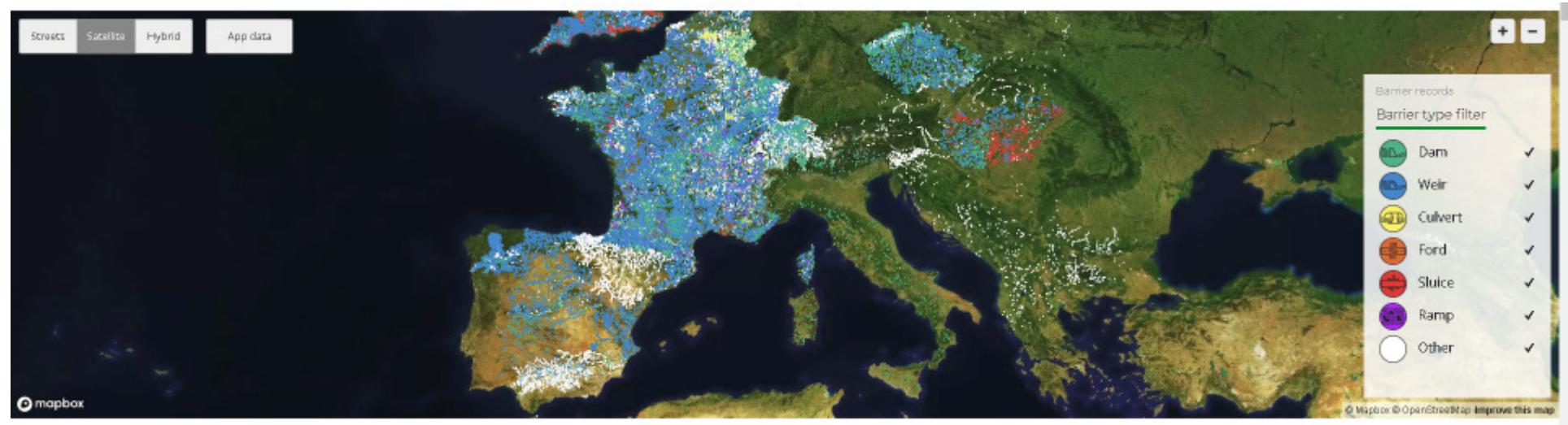
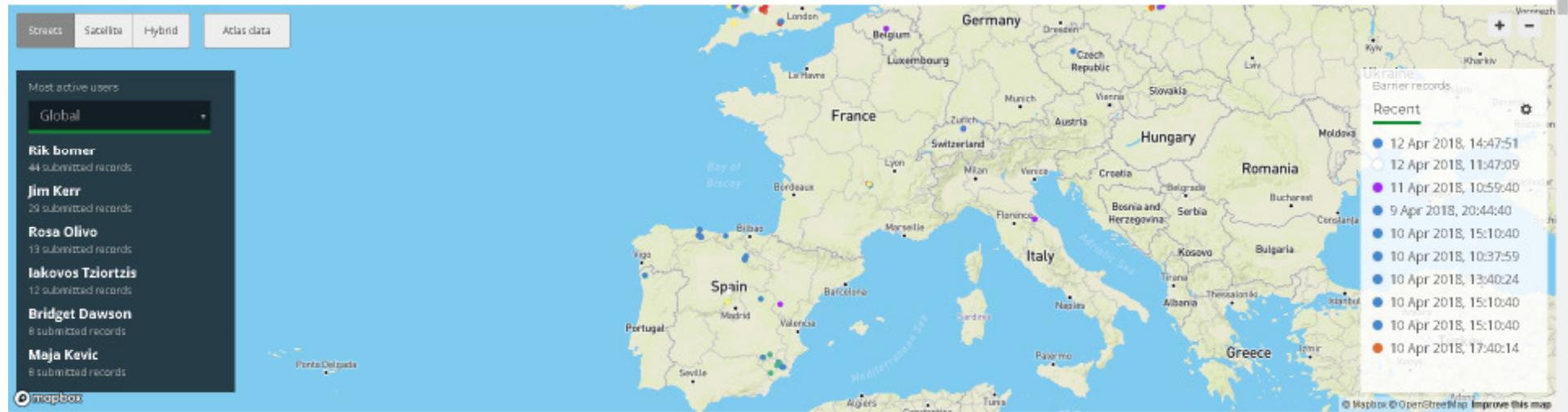


▼



# Tracked Barrier Map

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



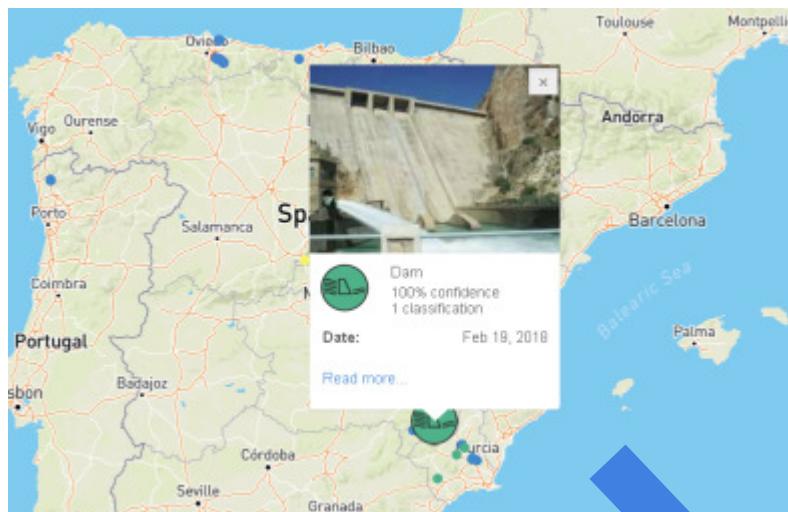
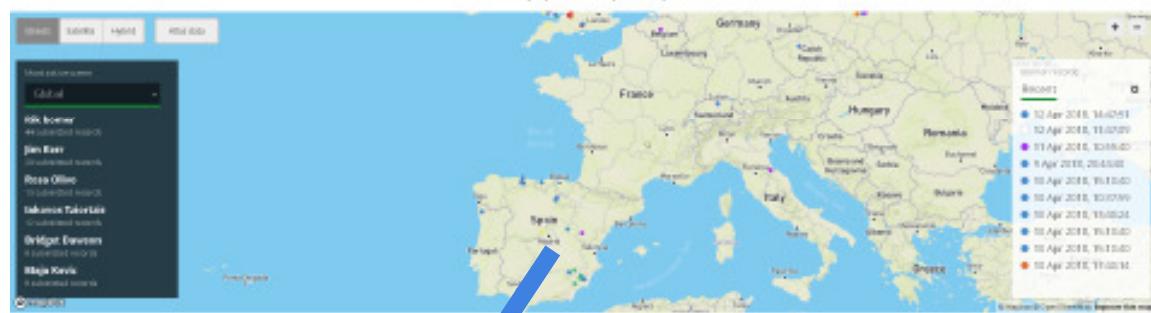
Seminario AMBER & Dam Removal Europe

Traspasando Barreras en Ríos Europeos  
AMBER

16-17 abril. Madrid.

## Tracked Barrier Map

Click on pins to view details of the barriers gathered with the AEMME Barrier Tracker app and  
filter by top contributions per country.



Barrier ID: 342097

Recorded February 19th, 2018

Coordinates 38.5087, -1.8645

Type Dam

Barrier Height Greater than 10.0m

Barrier Usefulness Yes

Barrier Extension Full

## The Barrier Atlas

The real magnitude of river fragmentation at the pan-European scale is almost unknown. In many regions throughout Europe there is only a limited overview of existing barriers and complicating the situation is the fact that barriers are managed by many different organisations. This leads to inconsistency in connection and contributes to well informed decisions. It is therefore important to create an inventory of barriers in European rivers, a European Barrier Atlas. Your contribution helps to supplement existing approaches with new data.

[Barrier & list](#)

## Barrier ID-Guide

There are many different types of barriers and even barriers within one river come in many different shapes and sizes. Therefore identifying the right type of barrier isn't always easy. Do you want to know more about the different barrier types you can encounter? We have compiled the most common barriers with their characteristics and show examples into a page what we call the Barrier ID-Guide. You can use this page to learn more about barriers and to be able to identify them yourself.

[View Barrier Guide](#)

## The Barrier Atlas

The real magnitude of river fragmentation at the pan-European scale is almost unknown. In many regions throughout Europe there is only a limited overview of existing barriers and complicating the situation is the fact that barriers are managed by many different organisations. This lecture in connection is an obstacle to well informed decisions. It is therefore important to create an inventory of barriers in European rivers. A European Barrier Atlas. Your contribution helps to supplement existing approaches with new data.

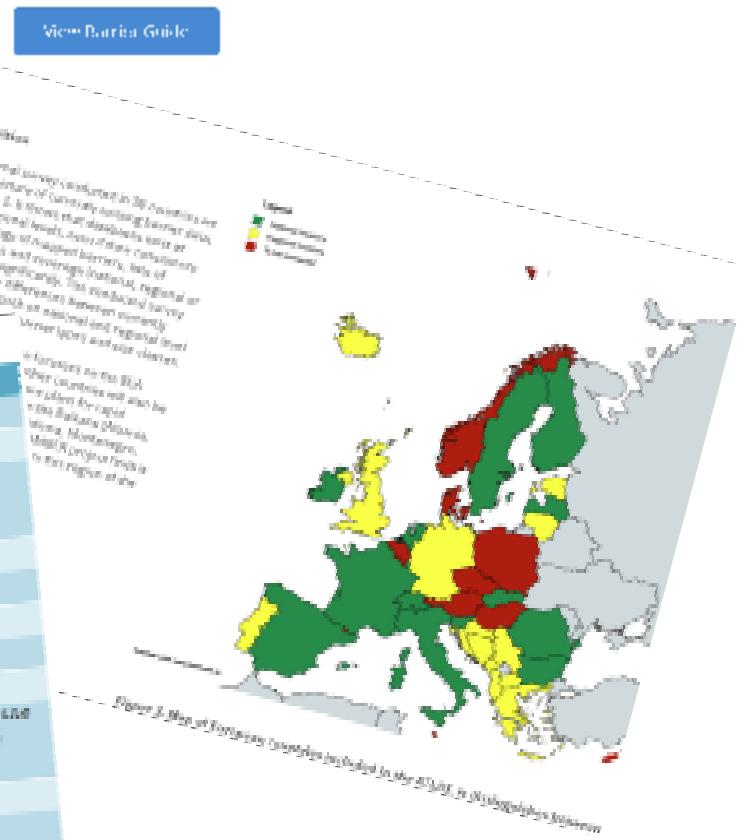


Table 1. Key parameters that we propose to be compiled for the ATLAS  
Observation

Key parameter	Definition	
	Source	Description
area_id	area ID defined within DEMD	
source_id	ID of DEM source (national, regional) database	
val	line to data source. It can be, e.g., DEM file address or the name of the agency that has available web services of DEM national/regional DEM	
boundary	EU boundary as EU shape, e.g. Balkans, Bulgaria...	
lat	Latitude	
lon	Longitude	
river	Name of the river	
basin	Name of river basin	
height	Relative height (m), i.e. the vertical distance between the lowest point on the crest of the barrier and the lowest point in the original presented basin, valley, spillway, etc.	
time		
year	Date of building (mm)	

# Barrier ID-Guide

There are many different types of barriers and even barriers within one type come in many different shapes and sizes, therefore identifying the right type of barrier isn't always easy. Do you want to know more about other different barrier types you can encounter? We have compiled the most common barriers with their characteristics and short examples into a page what we call the Barrier-III Guide. You can use this page to learn more about barriers and to be able to identify them yourself.



# The Barrier Atlas

The real magnitude of river fragmentation at the pan-European scale is almost unknown. In many regions throughout Europe there is only a limited overview of existing barriers and complicating the situation is the fact that barriers are managed by many different organisations. This leads to an important limitation in the availability of well informed decisions. It is therefore important to create an inventory of barriers in European rivers, a European Barrier Atlas. Your contribution helps to supplement existing information with new data.

[Barrier & key](#)

## Barrier ID-Guide

There are many different types of barriers and even barriers within one type come in many different shapes and sizes. Therefore identifying the right type of barrier isn't always easy. Do you want to know more about the different barrier types you can encounter? We have compiled the most common barriers with their characteristics and show examples into a page what we call the Barrier ID-Guide. You can use this page to learn more about barriers and to be able to identify them yourself.

[View Barrier Guide](#)

### Dam



A dam is a water level barrier or temporary structure that holds back water. Dams are often constructed to store water for irrigation, hydroelectric power generation or water supply and control.

Water level is held back, creating a reservoir. This reservoir is usually used for hydroelectric power generation or water supply.



### Weir



A weir is a barrier placed in a river channel to regulate the flow of water or to prevent fish from passing upstream. Weirs often have gates which are opened and closed to regulate the flow of water.



### Overflow



An overflow structure allows water to flow over it when the water level in the reservoir reaches a certain height. These structures are often constructed to help prevent flooding downstream.



### Ford



A ford is a temporary low-level crossing of a river, which requires the water to be shallow enough to walk across.



## Photo Classification Tool

965 classifications submitted

Want to see what others have recorded? Help us increase the reliability of the data by answering a few questions about some recorded barriers. You can compare your answer to that of others.



What type of barrier is this?

Dam	Weir	Culvert	Ford
Sluice	Ramp	Other	Not a barrier



Is there a fish pass present?

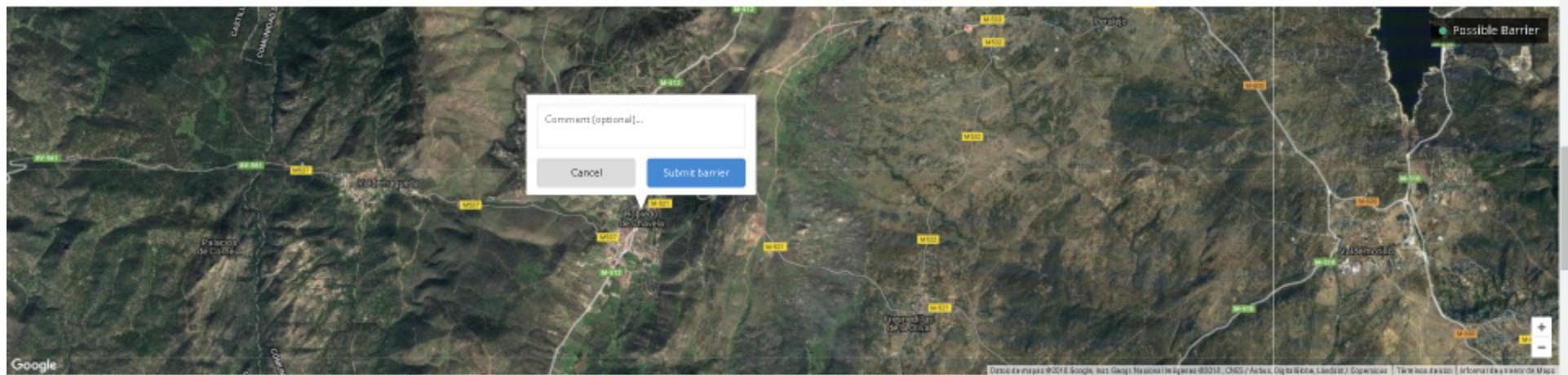
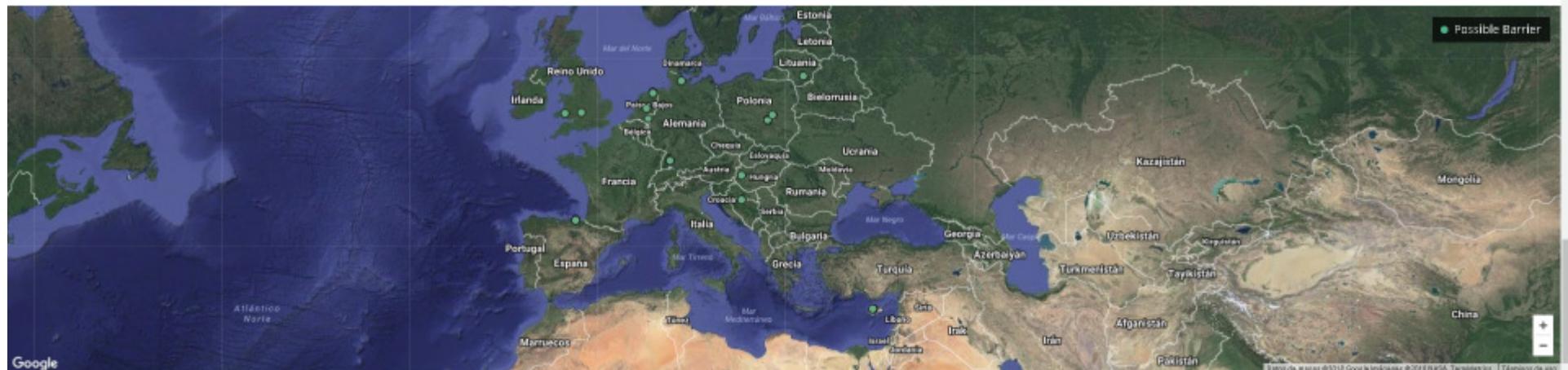


Does the barrier extend across the entire watercourse?

Yes      No

## Locate a Barrier

There are hundreds of barriers all around European Rivers which are not yet mapped and are waiting to be recorded. You can search through satellite images and identify likely barrier locations on the map. Barriers are often found in places where infrastructures like roads etc cross streams and rivers.



# Newsletter

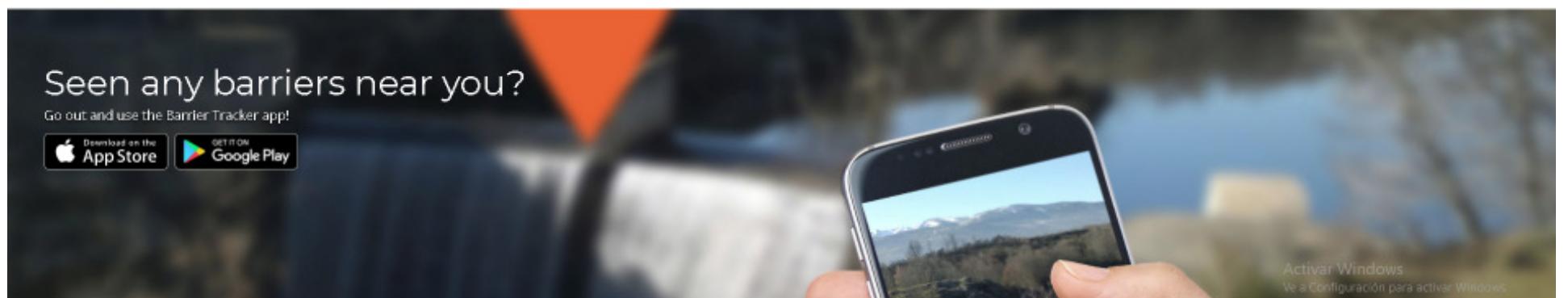
The AMBER team is joining forces with citizens to map and study the barriers in European rivers. Regular updates on progress are published via various channels. Follow AMBER on Twitter and Facebook or sign up for the newsletter to stay up to date on the latest progress!

[Subscribe to the newsletter](#)



## Seen any barriers near you?

Go out and use the Barrier Tracker app!



The Barrier Tracker Application is supported by the following organizations



DTU  
Technical University of Denmark



UNIVERSITY OF Southampton



ingenieurbüro kauppert



Seminario AMBER & Dam Removal Europe  
Traspasando Barreras en Ríos Europeos

16-17 abril. Madrid.



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@AMBERtools



River Connectivity Network

2.608 miembros