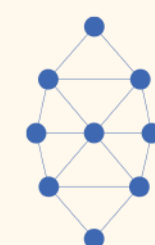


5.ª Conferência Internacional da Rede de Museus da Água
5th International Conference Of The Global Network Of Water Museums

water museums
net



WATER
MUSEUMS
GLOBAL NETWORK



Porto.

*Restoration of the Danube River Basin for ecosystems
and people from mountains to coast*



The Healthy Danube Network - Share and Co-create Exhibitions and Citizen Science Methods

Sandra de Vries, Gabriela Costea and Pippa de Kinder

Danube4all project



Funded by
the European Union



PULSAQUA
Creating the impulsive force on water. together



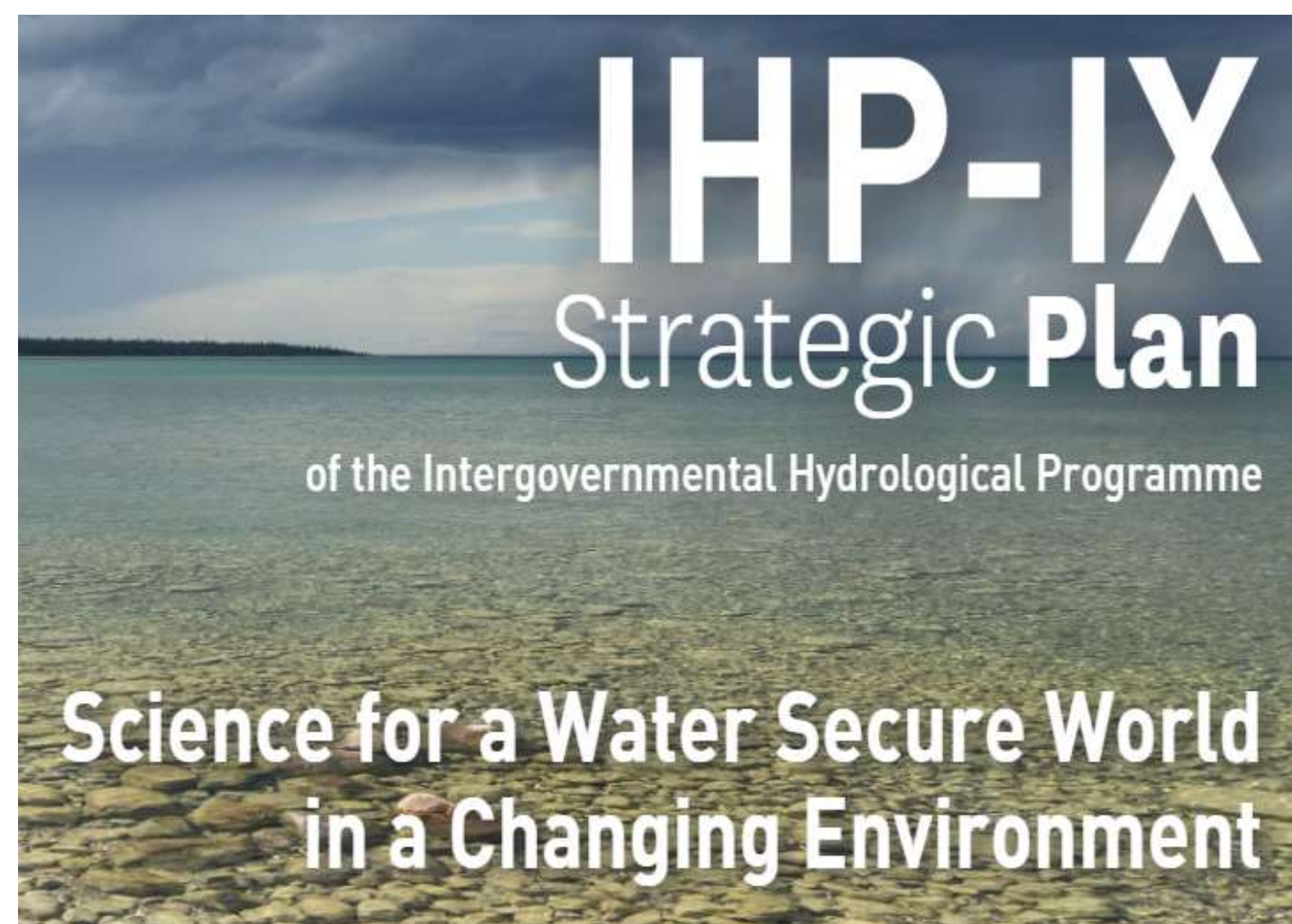
@DANUBE4all_EU



56. Strategies and activities addressing global changes that are science-based and inclusive of all sectors of society, enhance the overall resilience of these societies. Building communities and societies that are resilient in the face of changing and evermore complex environmental conditions, requires that science inform policy. Improving this aspect of the decision process permits involvement of citizen science and pro-active NGO, civil society and community partners with government, including the ability of decision makers to benefit from the use of indigenous knowledge.

53. Enhancing the level of cooperation among scientists, policy-makers and practitioners, and the contributions of citizens to scientific activities (to data collection and the definition of problems to be solved — citizen science) is vital to bridging the gap between existing data and those who must understand and subsequently interpret and apply this technical information in the policy arena. However, for this cooperation to become a reality, data collection and analysis methodologies must be validated and sufficient time and effort must be invested to develop comprehensive data at different scales and in distinct geographic and political settings, all contributing to better evidence-based water management.

21. Among the several opportunities for expanding and sharing scientific knowledge that will be supported during IHP-IX are those that relate to citizen science. This emerging field combines the efforts of scientists and the public to better understand the water cycle, including the effects of human behaviour. Similarly, encouraging Open Science and Open Data provides an opportunity for scientific information, data and outputs to be more inclusive, more widely accessible and more reliably harnessed with the active engagement of all the stakeholders (scientists, policy-makers and citizens). Furthermore, disciplines, such as socio-hydrology, provide an interdisciplinary field studying the dynamic interactions between water and people and an opportunity to showcase UNESCO's transition towards transdisciplinarity when conducting scientific research on water. Additionally, partnerships with water users, private entrepreneurs and NGOs to build a knowledge base and the trust of communities could multiply the positive impacts of applying innovative scientific findings and employing new technologies, particularly in rural and traditional societies. Enhancing scientific research and cooperation can help bridge data and knowledge gaps.

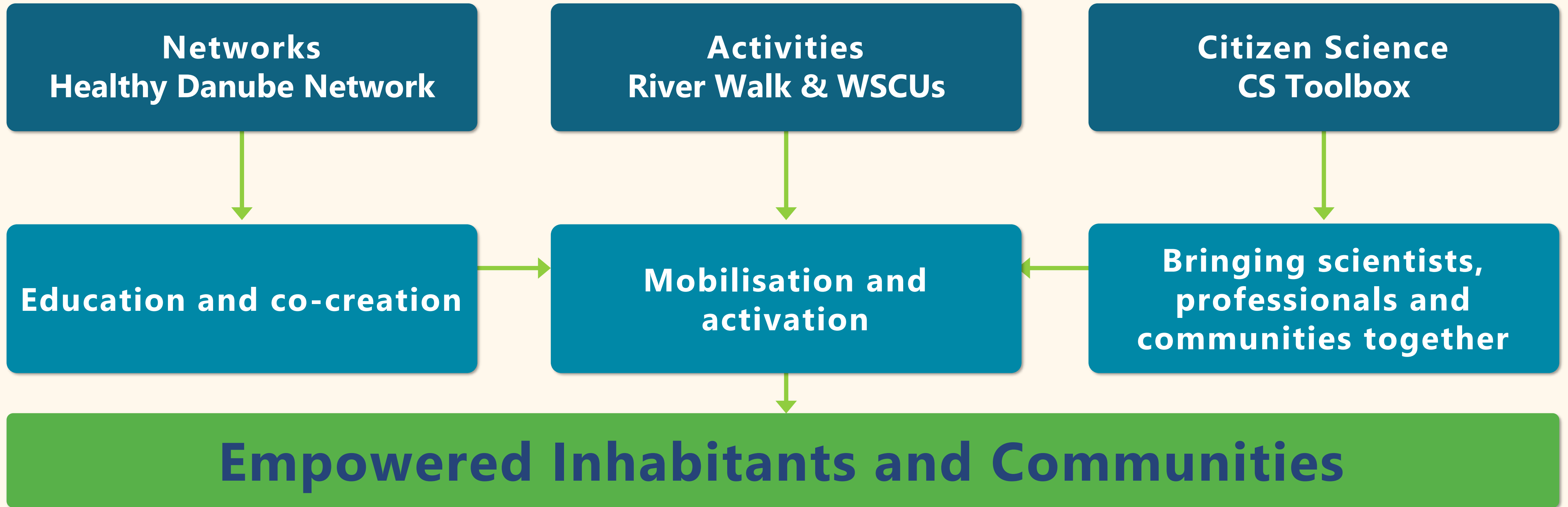


1.10 Conducting and sharing of research on integrating citizen science in the hydrological discipline by the scientific community and other stakeholders supported, to improve understanding of the water cycle enabling science-based decision making.

Danube4all

Aim

DANUBE4all aims to restore freshwater ecosystems in the Danube River Basin through the development of a comprehensive, scientifically-based and practically-orientated Restoration Action Plan (RAPDRB). The project seeks to address the lack of knowledge, awareness, and **participation of local people** and business actors **in the implementation of freshwater ecosystem restoration.**





DANUBE4all

Citizen Science, Art and Co-creation in River Restoration

Survey for Organizations and Institutions working with Citizens in the Danube River Basin!

THE PROJECT

The DANUBE4all project aims to restore freshwater ecosystems in the Danube River Basin through the development of a comprehensive, scientifically-based and practically-orientated Restoration Action Plan.

We seek to address the lack of knowledge, awareness, and participation in the implementation of freshwater ecosystem restoration.

We want to explore together our common interest to better engage and empower inhabitants of the region.

THE SURVEY

What? A brief 15-minute questionnaire on freshwater restoration and citizen engagement in the Danube region.

For whom? All organizations involved with communities along the Danube and its main tributaries.

Why? To understand your needs and expectations; to showcase your planned or ongoing activities; to engage you in our processes for citizens along the Danube River.

How? Scan the QR code on the right!



Join the Survey








Funded by
the European Union




Join Our mission!

Be a part of the Danube restoration!
By participating in our activities, you can help protect and restore this vital river ecosystem. Your insights and actions are crucial in ensuring a sustainable future for generations to come.


How can you engage?



Danube River Walks
Walk the river together with us!



Water Sports Clean Up
Details will be available soon



Healthy Danube Network
Join our network for all citizen...

Initiatives and activities in the region

**AARHUS CENTER
NOVI SAD**
SERBIA

Platform for information, citizen participation, education, cooperation, partnership, volunteering and activism to preserve the environment.

**CROWD WATER
INTERNATIONAL**

CrowdWater stands for an independent and reliable data collection by citizens – Citizen Science – for modelling of floods and droughts and as a supplement to existing measurements.

**DANUBE ART
MASTER
INTERNATIONAL**

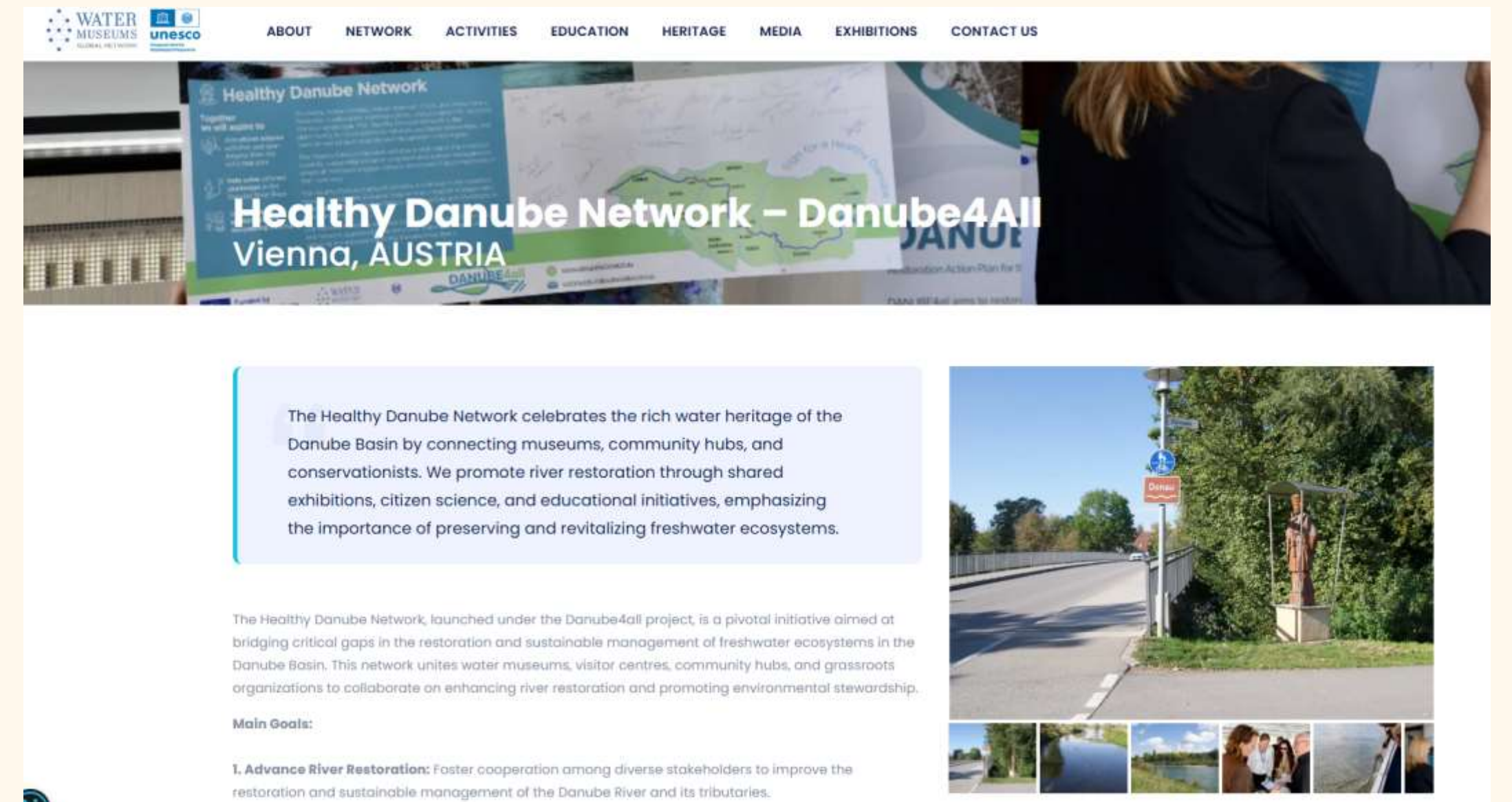
The Danube Art Master is an environmental art competition that engages youth in creating artworks from natural materials found along the Danube River to promote river conservation.

< Previous
Next >

The Healthy Danube Network

- Launch in Belgrade during the General Assembly
- We became an official member

Launch of the network





Opening the road to restore the Danube Basin Ecosystem with citizen science

The Science Citizens Podcast

dec 2023 • 42 min. 2 sec



Beschrijving van aflevering

In this episode I will take you along the Danube River, where we have started the project Danube4All: <https://www.danube4allproject.eu/>. Within a duration of total 5 years, we will be responsible to create inclusive action with empowered local communities in the Danube River Basin, through public mobilisation and engagement

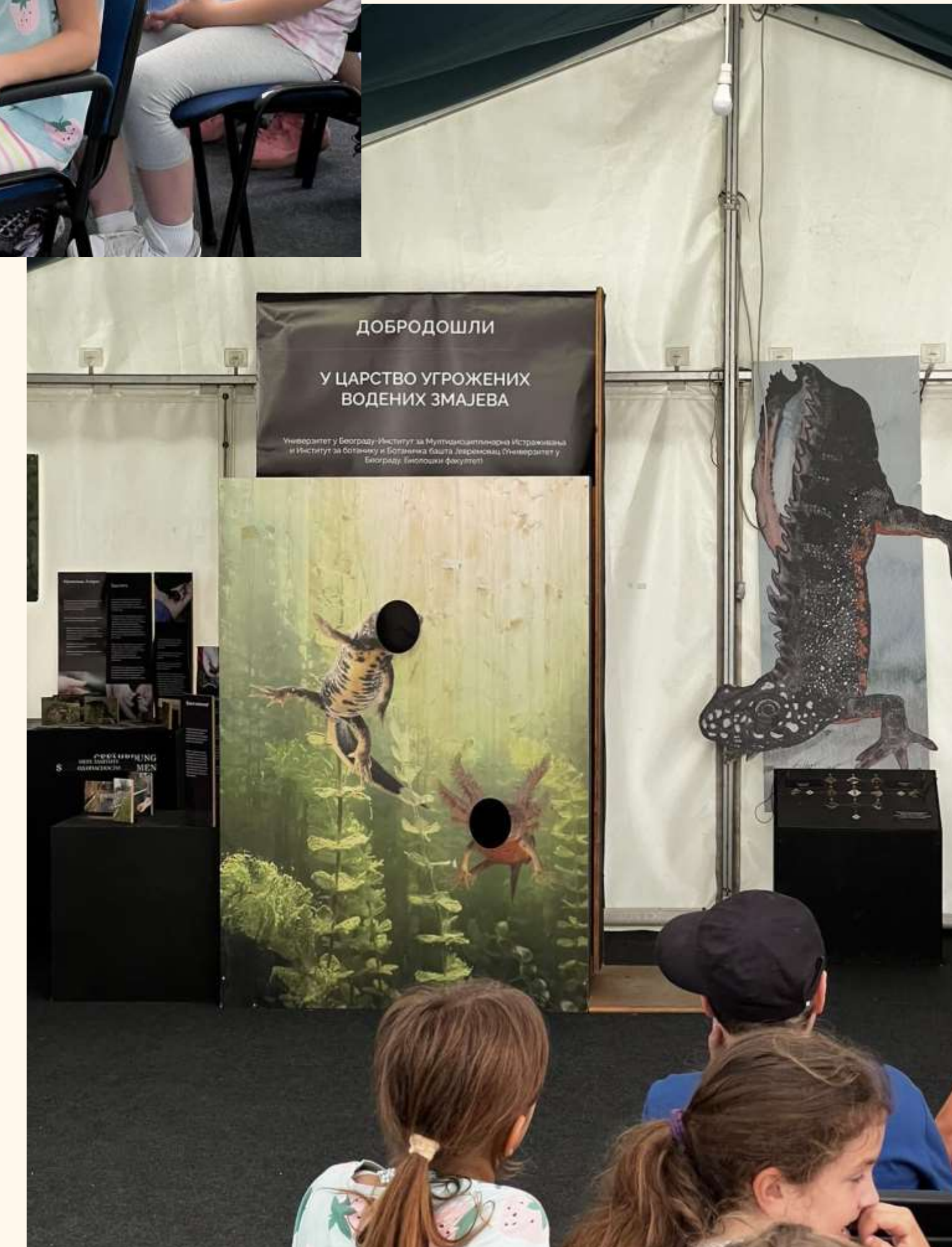
... Meer weergeven



The Healthy Danube Network

Why join the network?

- Offer a way to get in contact with many other organisations doing similar work
- Learn from and share with each other
- We develop tools, events and methods that can be used by all to implement for education, engagement, and activation
- Develop together, co-create, (travelling) exhibitions



First River Walk

1 Together with the founder of Drinkable Rivers

2 Organized first River Walk: September 18 – October 11,

3 Is the start of many river walks that can replicate this method

Join the walk (*click on the maps to enlarge*)



Week 1
18 Sep: [Jurilovca \(old harbour\)](#) to Enisala
19 Sep: Enisala to Sarichioi
20 Sep: Sarichioi to Iazurile
21 Sep: Iazurile to Sarinasuf
22 Sep: Sarinasuf to [Mahmudia](#)
23 Sep: [Mahmudia](#) to Carasuhat wetland

Not local?

Please pay [Danube Delta tourist tax](#)



Week 2
26 Sep: Grojdibodu to Ianca
27 Sep: Ianca to Călărași
28 Sep: Călărași to Bechet
29 Sep: Bechet to Zăval
30 Sep: Zăval to Valea Stanciului
1 Oct: Valea Stanciului to Foisor
4 Oct: [Carna](#) lakes to Bistret



Week 3
7 Oct: Gogosu to Tiganasi / Izvoru Frumos
8 Oct: Tiganasi / Izvoru Frumos to Crivina
9 Oct: Crivina to Hinova
10 Oct: Muzeul Regiunii Porților de Fier and Iron Gates Museum (by car)
11 Oct: Drobeta-Turnu Severin to Orsova (by train)

First River Walk



What will you measure?

PHYSICAL

Stream width
Stream flow
Electrical conductivity & temperature
Clarity
Color and smell

CHEMICAL

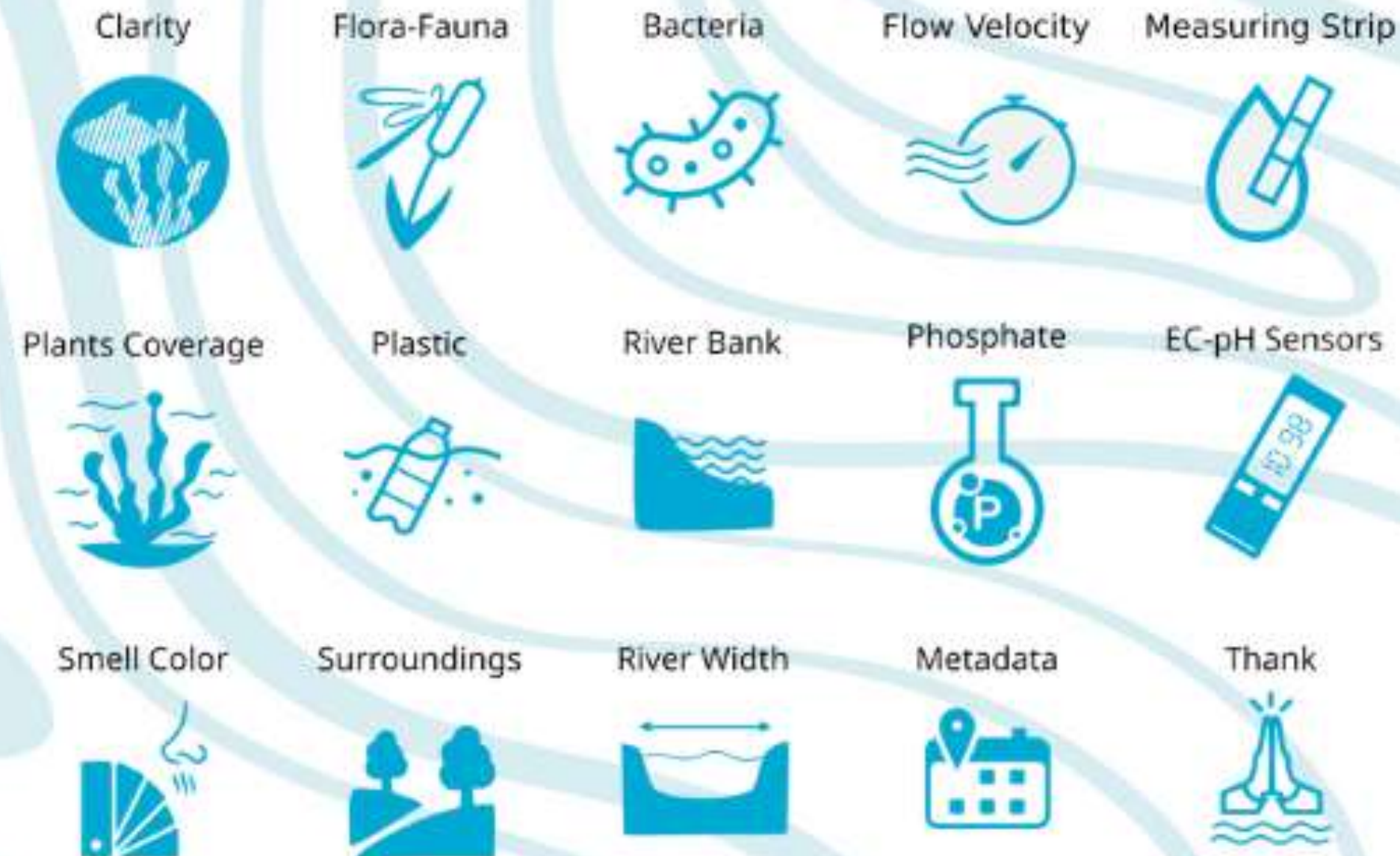
pH
Nitrate, nitrite
Phosphate
Ammonia
Hardness

BIOLOGICAL

Plant coverage
Examples of flora and fauna indicators:
Dragonfly counting
Bacteria levels

INFLUENCES

Plastic pollution
Mapping surroundings





Water Sport Clean Ups

Core Idea

Collaborative efforts aimed at engaging local communities in monitoring and addressing plastic pollution in the Danube River and its tributaries.

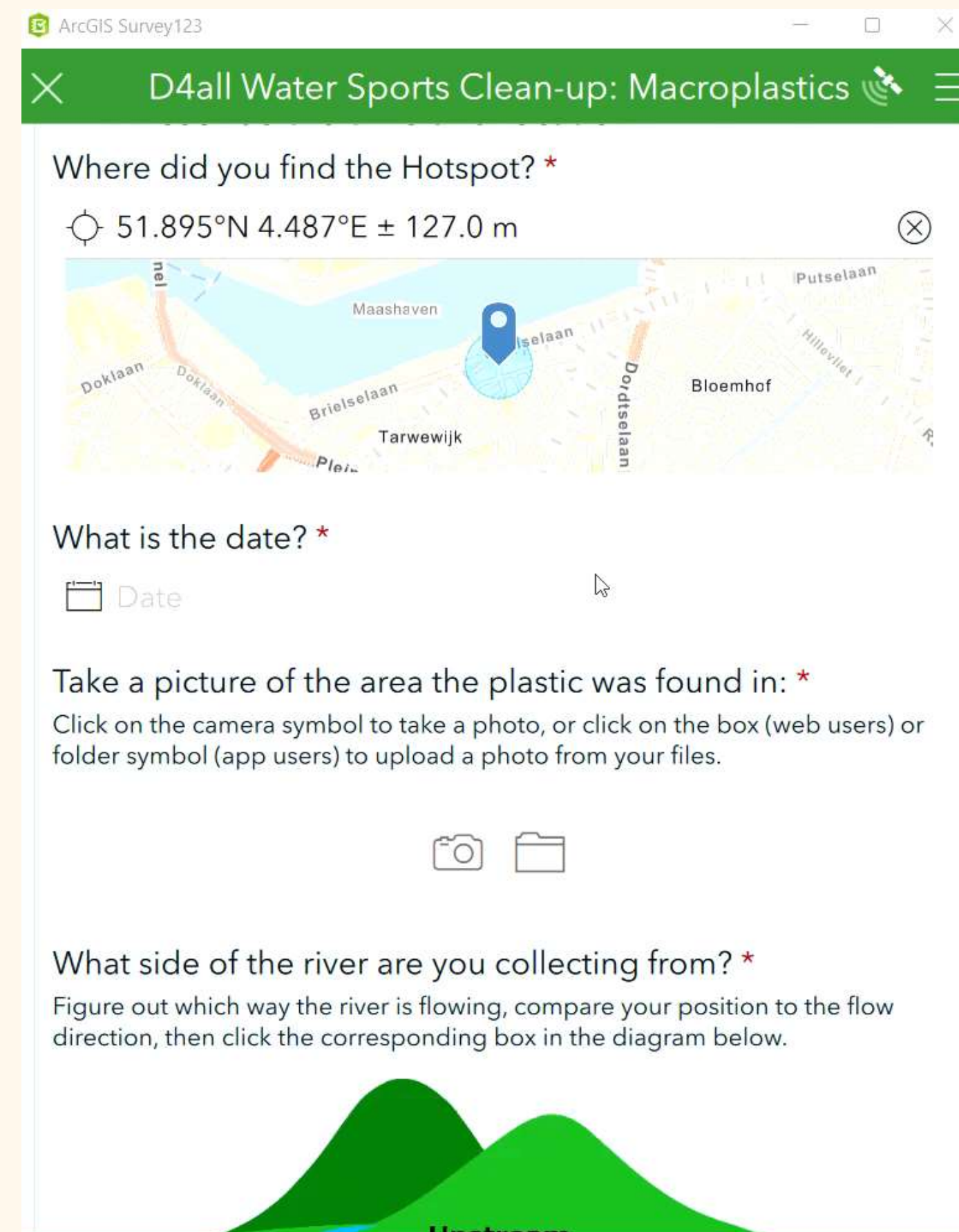
Main elements

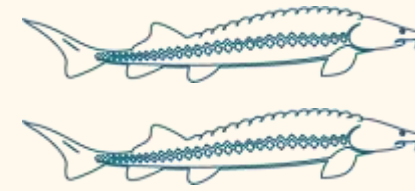
- ▶ Sports: Any type of water activity to go along the water
- ▶ Clean up: Litter and waste is removed
- ▶ Monitor:
 - ▶ accumulation of macro plastics (River-OSPAR)
 - ▶ sampling of microplastics in the water
- ▶ Local: Adopted by a local organisation that will implement it yearly



Developed first versions of:

- Monitoring manuals
- Data collection surveys
- Guidelines for event implementation





Every year we start anew



DANUBE4all
Water Sports Clean Up

Water Sport Clean Up (WSCU) events are collaborative efforts aimed at engaging local communities in monitoring and addressing plastic pollution in the Danube River and its tributaries.

Join us on **SEPTEMBER 21**

Participants will also monitor what they find and take samples of microplastics in the water. This way, we will not only clean up the river but also raise awareness on the importance of preserving our natural water resources for future generations and collect relevant information on the sources of this pollution.

HOST AN EVENT WITH US IN YOUR AREA

We are looking for organizations that are eager to host WSCU events in the following years with us and involve their community in experiences that foster environmental stewardship along the Danube River.

HOW DOES IT WORK?

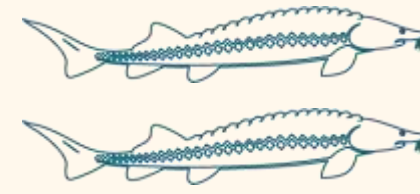
During the WSCU events, people use kayaks, SUPs, rowing boats, or slow motorboats to go down a segment of the Danube (or one of its tributaries), and clean up macroplastics.

CREATING IMPACTFUL EXPERIENCES, TOGETHER

As a partner organization, you will play a crucial role in organizing and hosting these events. We provide comprehensive support, including guidance on event planning, access to material to monitor, and assistance in mobilizing volunteers. By partnering with us, you'll contribute to tangible efforts in combating plastic pollution and promoting river conservation.

www.danube4allproject.eu
community@danube4allproject.eu

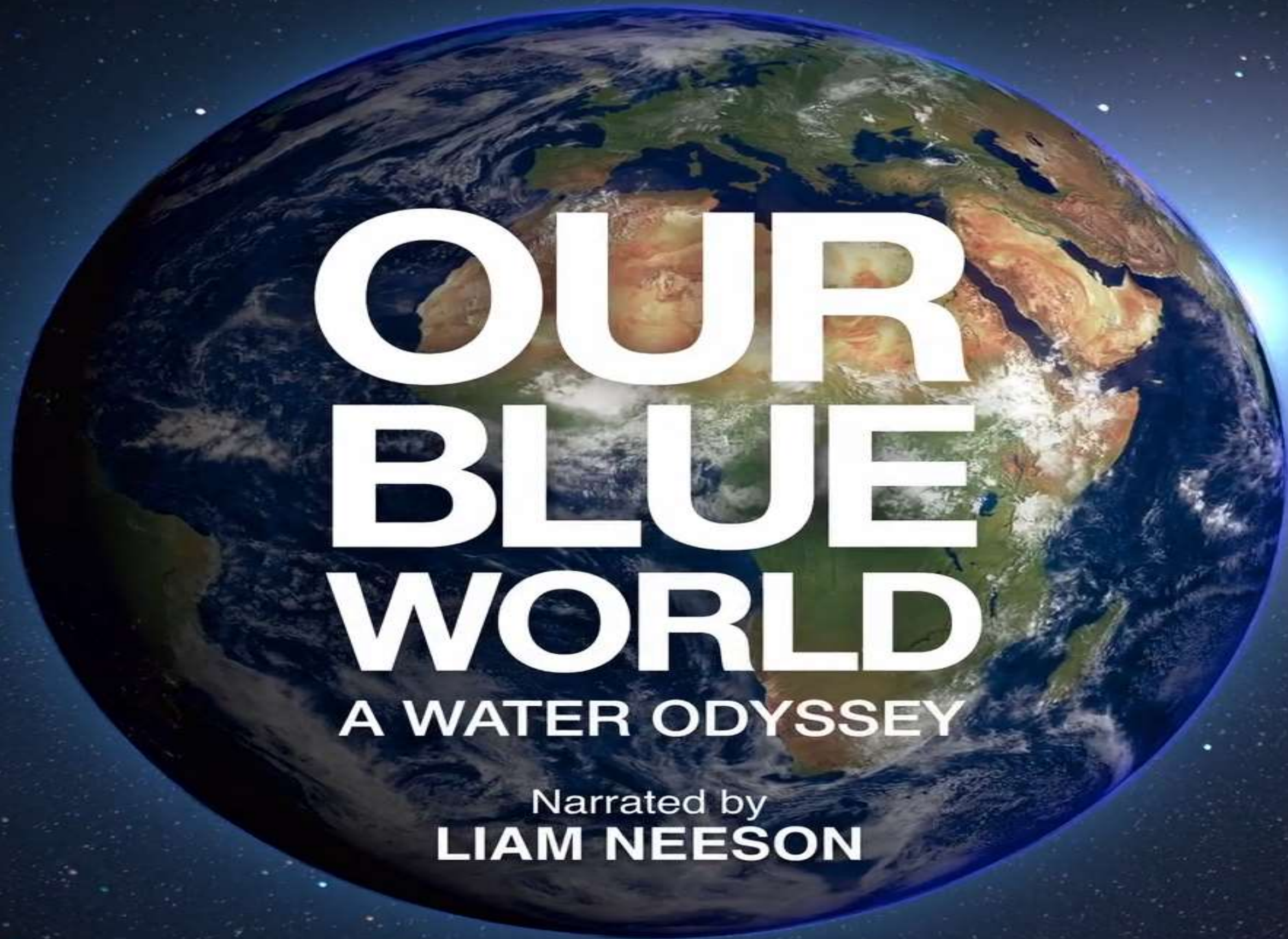
- ▶ Year 1 - Pilot: Austria, Vienna – Postponed, tbc.
Local partner BOKU – together with Scouts
 - ▶ Year 2: Slovakia
Local partner VUVH
 - ▶ Year 3: Bulgaria
Local partner IBER BAS
 - ▶ Year 4: Croatia
Local partner RBI



- ▶ Existing CS methods for river restoration
 - ▶ New methods
- ▶ A guide, more than just tools



Images courtesy of Pulsacqua/Alice Demoulder



OUR BLUE WORLD

A WATER ODYSSEY

Narrated by
LIAM NEESON



Trailer

What: Our Blue World Movie Screening (FREE)

Why: Our deep relationship with water is a global story. Our Blue World is a water odyssey landmark film that tells compelling human stories of water.

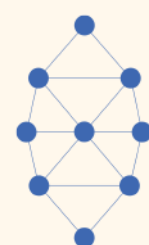
[Scan this QR code to find out how to organize an individual screening in your area.](#)



By taking a deep dive into the lives of eight dynamic and visionary people around the world, this beautiful, dramatic and moving film sets out to reveal our profound relationship with water and its role as the nourishing life force for all that lives on this planet.

Scenes for Our Blue World have been filmed on six continents around the world and will feature stories in Peru, China, Egypt, Ireland, Cambodia, New Zealand, USA, and the Netherlands.

obrigado
thank
you



WATER
MUSEUMS
GLOBAL NETWORK



Porto.