



Interreg



EUROPEAN UNION

**Danube Transnational Programme
Tid(y)Up**

Tid(y)Up: key findings and outputs

Attila Dávid Molnár, Chairman of the DTP Tid(y)Up Lead
Partner Plastic Cup Society
head of PC's River Monitoring Unit
08.02.2024. Budapest, Academia Europaea online meeting,
Budapest Knowledge Hub



THE OFFICIAL
WEBSITE OF THE
DTP TID(Y)UP
PROJECT



DOWNLOAD THE
TRANSNATIONAL
RIVER CLEANUP
HANDGUIDE



REFERENCES,
ANNEX

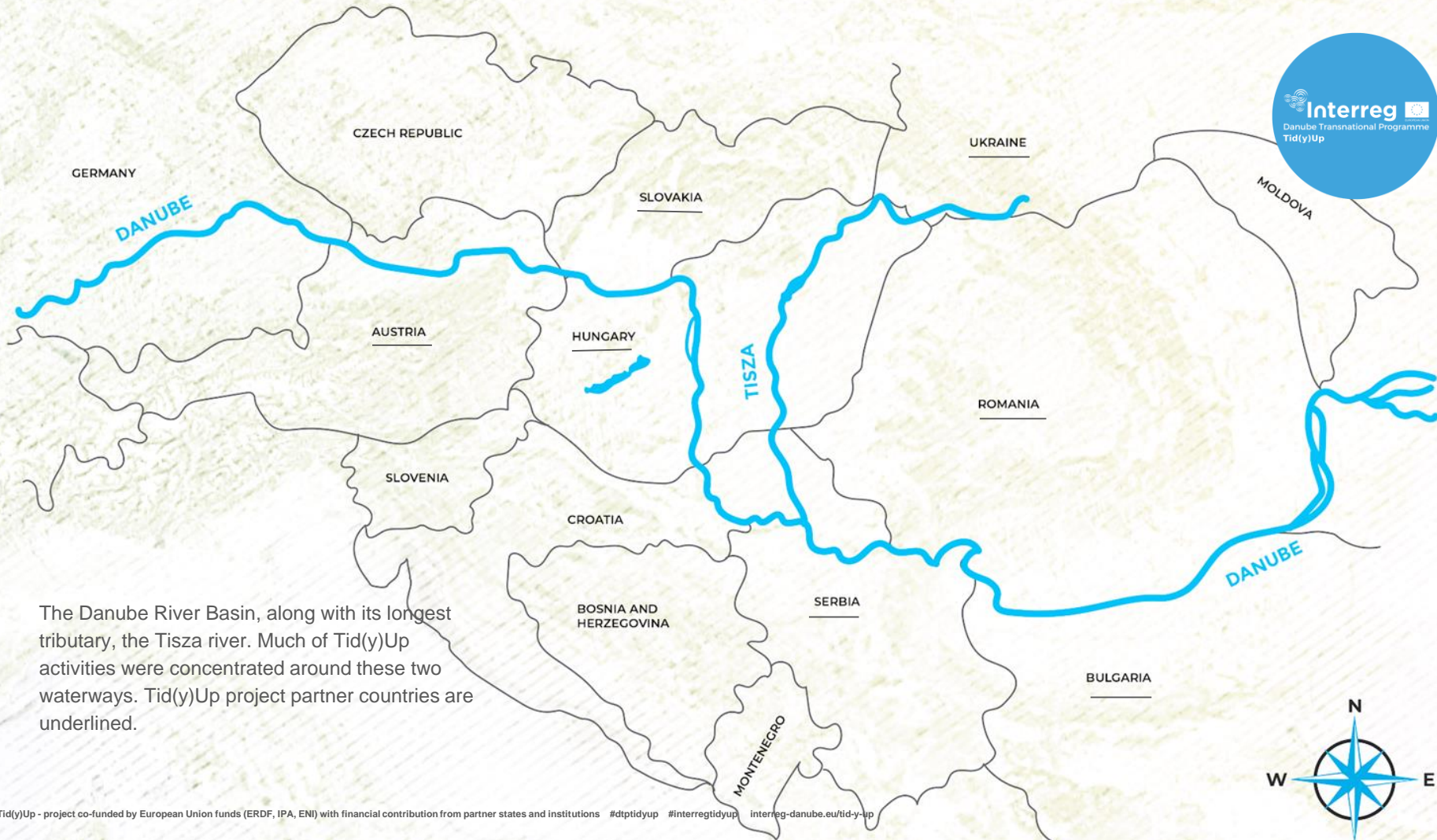


PROJECT
DOCUMENTARY

Tid(y)Up - project co-funded by European Union funds (ERDF, IPA, ENI) with financial contribution from partner states and institutions
#dtptidyup #interregtidyup <http://interreg-danube.eu/tid-y-up>



Slana river, 2022 (photo by Marton Mohos). Other legacy pollution cases affected rivers like Torna, Marcal, Rába, Danube (red mud alumina plact accident), The Somes and the Tisza rivers (cyanide catastrophe).



The Danube River Basin, along with its longest tributary, the Tisza river. Much of Tid(y)Up activities were concentrated around these two waterways. Tid(y)Up project partner countries are underlined.





The Tisza River Basin, home to 14 million people is characterised by Danube's longest (966 kms) tributary, the Tisza (Theiss). The river is one of Europe's most polluted waterways.



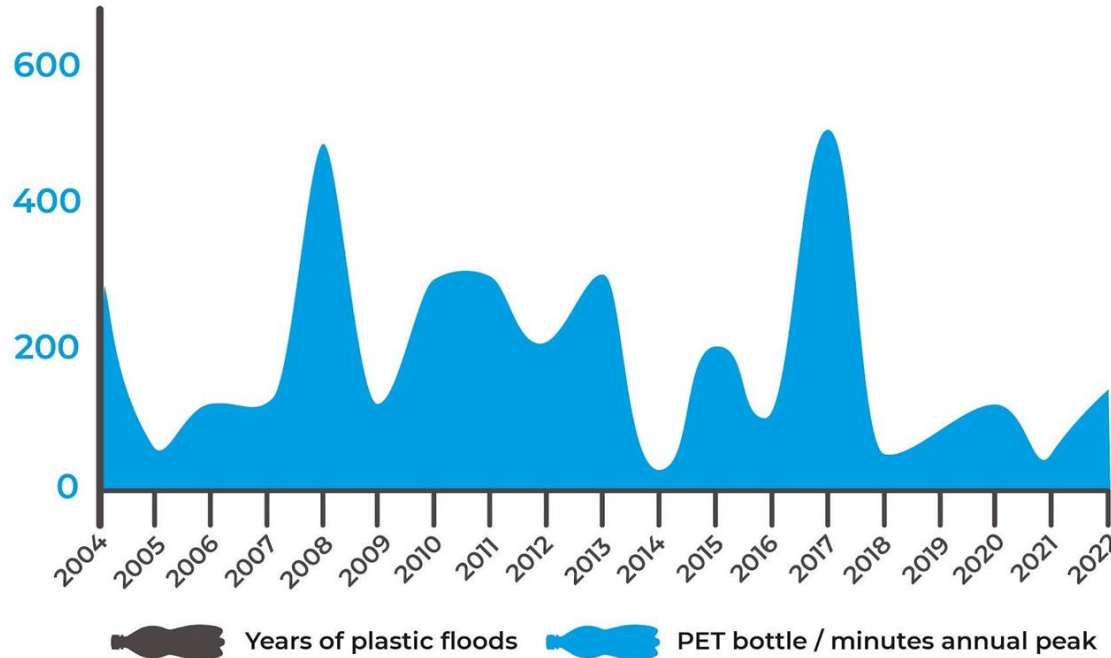
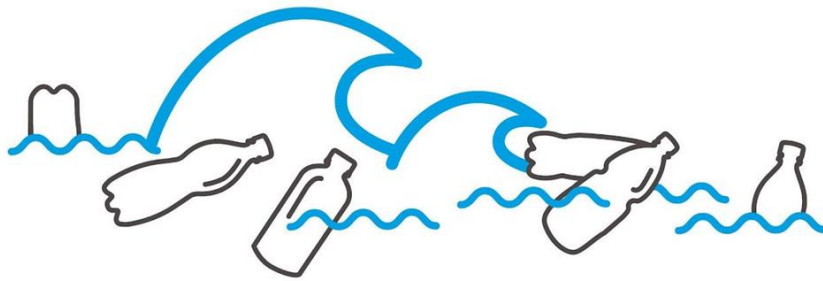


Transnational riverine litter pollution



The formation of riverine litter begins as mistreated communal and industrial waste is deposited at leakage zones (aka entry points or hotspots) in littoral zones. Illegal coastal deposits contain floating, neutrally buoyant and sinking pollutants side by side. In lack of mitigation measures rising water levels mobilize the pollution and so riverine litter is formed.





Abundance of plastic bottles as a potential indicator of the level of plastic floods. The maximum number of floating plastic bottles passing the observation point of Water Authority experts on a minute basis.



Plastic flood event on the Upper Tisza river, at Vásárosnamény.

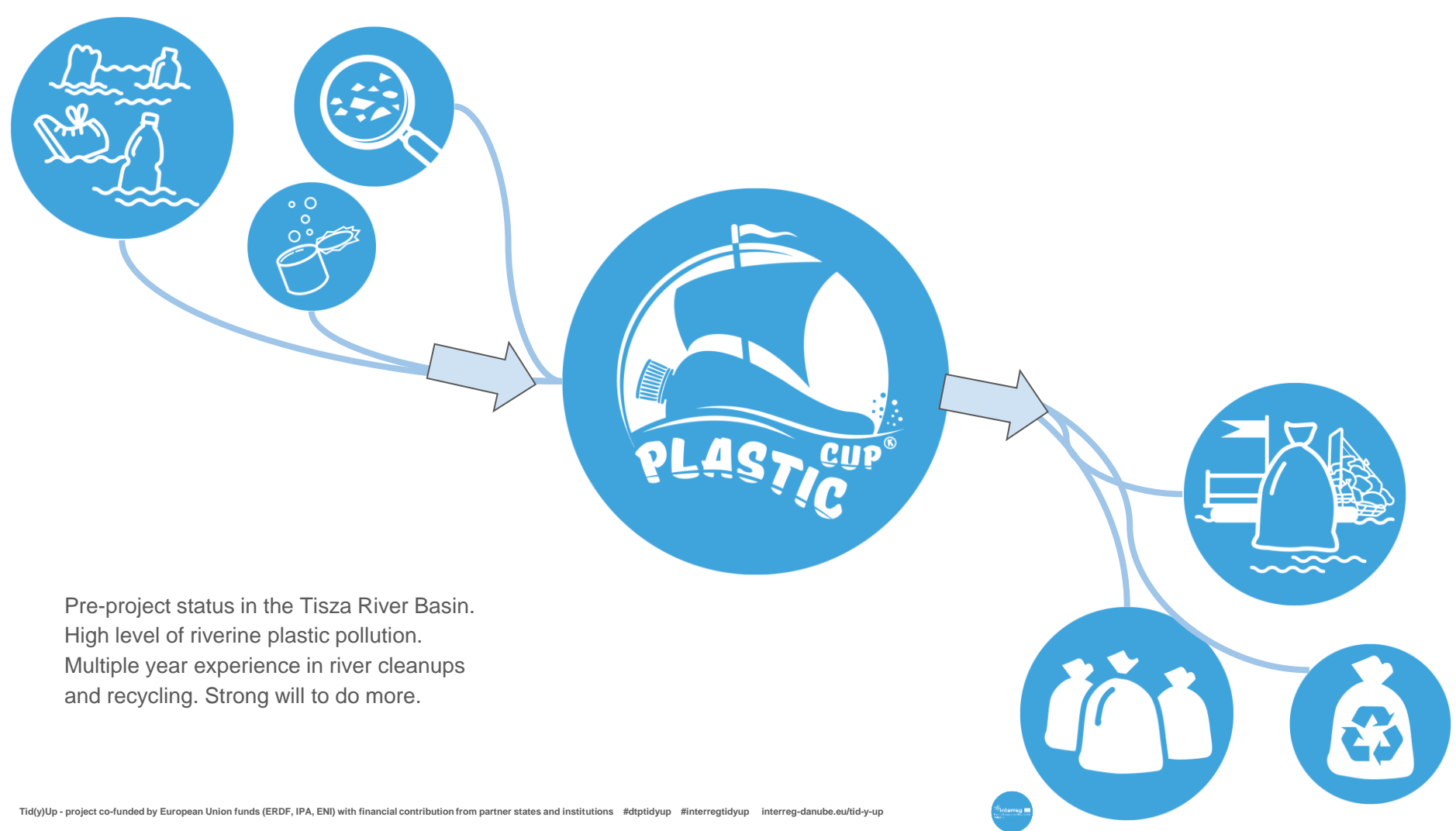
photo credit: FETIVIZIG

Investigating the riverine litter retention capacity of hydroelectric power plants have great significance not only from an environmental perspective but also concerning vital renewable energy supplies.



According to recent research data approximately 80% of all marine litters is originated from land-based sources and transported to seas by rivers. In other words, most of the marine litter was, once, riverine litter.

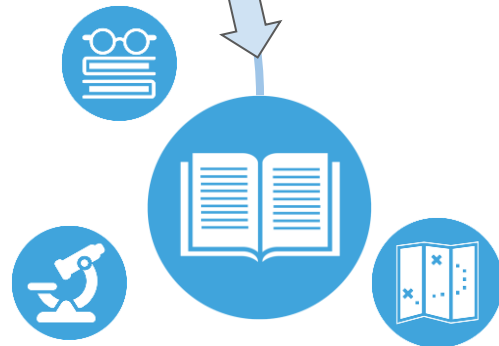






Plastic Cup became an internationally recognized river cleanup initiative mostly due to the spectacular boat volunteers build, using collected plastic bottles and other forms of selective waste. Despite their appearance these boat can be used during river cleanup actions.





The 3 specific objectives (SO's) of Tid(y)Up. Coordinated international river cleanups in 6 countries. Multiplatform outreach towards the general public. Online pollution map, open access database, list of recommendations, handguide.



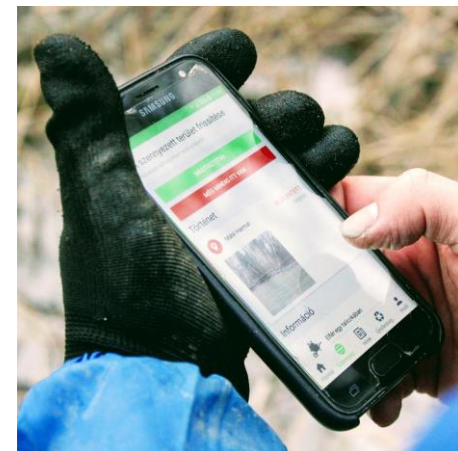
Research, citizen science (SO_1)





Systematic comparison of existing microplastic monitoring methods in fluvial systems. The manta/drift net, the sedimentation box and the water pump were among the investigated procedures.

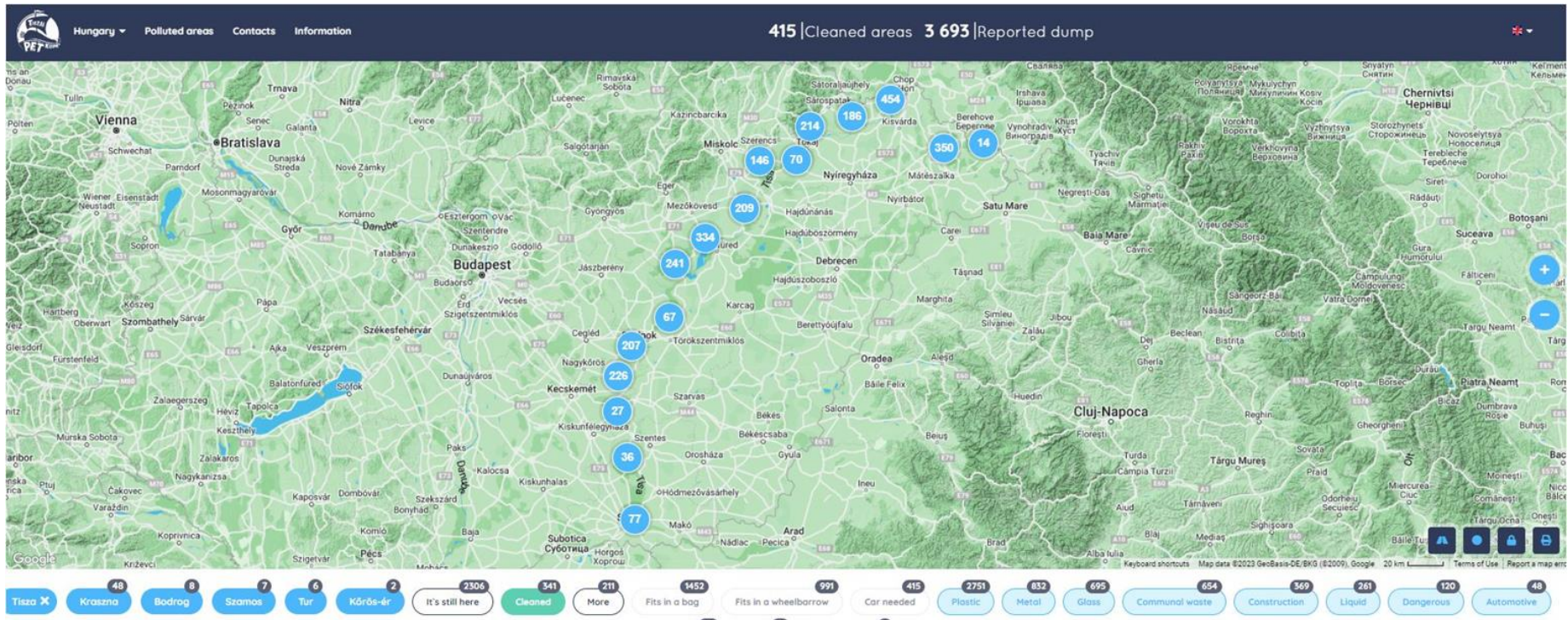


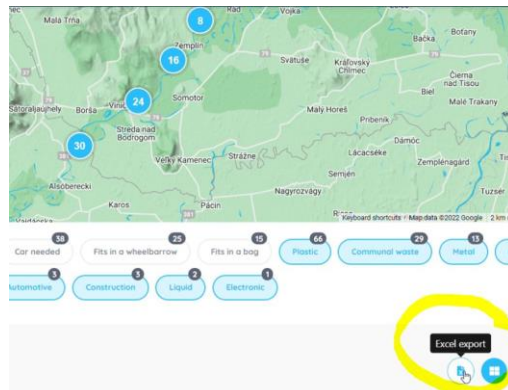


Detection and reporting of riverine macroplastic accumulations in alluvial floodplain forests during summer- and wintertime with a waste monitoring smartphone application.



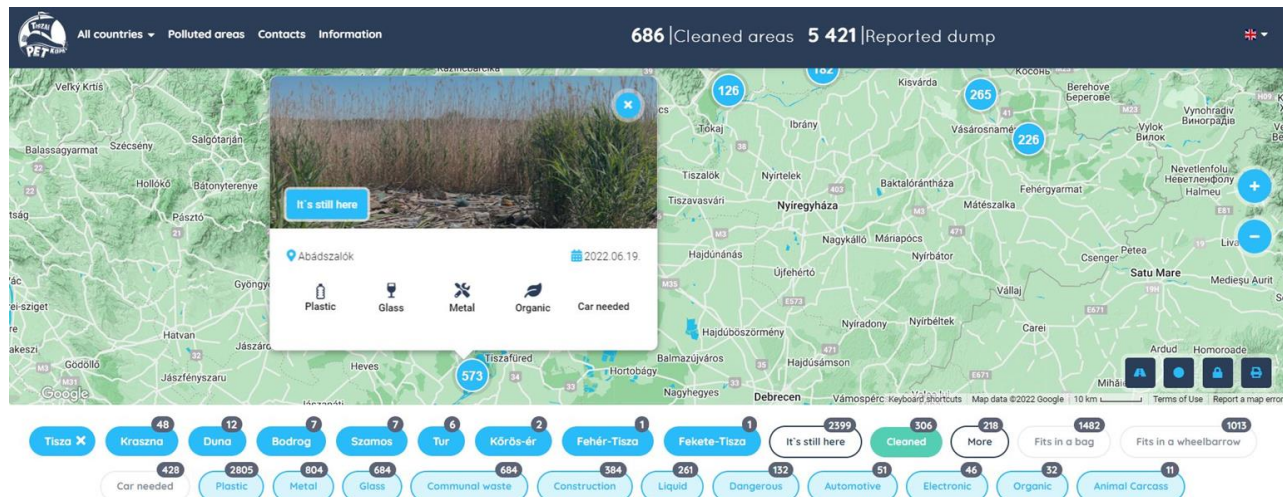
Of all the contributions of TidyUp to the development of the pollution map, the greatest by far is the extension of the database to other countries and other rivers. From small tributaries of the Tisza to the giant river of the Danube, a lot of natural waterways were added to the pollution map, a 5-fold increase in the lengths of represented rivers.





D	Latitude	Longitude	Country	Locality	Sub locality	Types	Update time
76159	48,39951406	21,7514418	Slovakia	Streda nad Bodrogom	Streda nad Bodrogom	Plastic,Communal wast	2022.05.19 08:11
76158	48,38749437	21,71940065	Slovakia	Klin nad Bodrogom	Klin nad Bodrogom	Communal waste	2022.05.19 08:06
67766	48,38073857	21,70197509	Slovakia	Borša	Borša	Glass,Plastic,Metal	2022.05.19 08:01
71539	48,38680107	21,7134142	Slovakia	Borša	Borša	Plastic	2022.05.19 07:55
67778	48,3875264	21,72572963	Slovakia	Klin nad Bodrogom	Klin nad Bodrogom	Plastic	2022.05.19 07:50
67778	48,38705182	21,72561144	Slovakia	Klin nad Bodrogom	Klin nad Bodrogom	Plastic,Automotive,Cor	2022.05.19 07:50
67900	48,38960028	21,73268261	Slovakia	Viničky	Viničky	Metal	2022.05.19 07:47
67898	48,39033177	21,73457483	Slovakia	Viničky	Viničky	Plastic	2022.05.19 07:47
67899	48,39015851	21,73429473	Slovakia	Viničky	Viničky	Organic,Communal wa	2022.05.19 07:46
67780	48,39502025	21,75007937	Slovakia	Streda nad Bodrogom	Streda nad Bodrogom	Plastic,Organic	2022.05.19 07:39
67781	48,39526199	21,75085324	Slovakia	Streda nad Bodrogom	Streda nad Bodrogom	Plastic	2022.05.19 07:39
67897	48,39586024	21,75338616	Slovakia	Viničky	Viničky	Plastic	2022.05.19 07:38
67896	48,39621704	21,76067909	Slovakia	Streda nad Bodrogom	Streda nad Bodrogom	Plastic	2022.05.19 07:34
67777	48,39755621	21,76545921	Slovakia	Ladmovce	Ladmovce	Glass,Plastic	2022.05.19 07:32
67875	48,39724675	21,76575174	Slovakia	Ladmovce	Ladmovce	Metal,Plastic	2022.05.19 07:32
67876	48,39827448	21,76954497	Slovakia	Ladmovce	Ladmovce	Plastic,Communal wast	2022.05.19 07:29
67787	48,39869137	21,77082399	Slovakia	Ladmovce	Ladmovce	Plastic	2022.05.19 07:29
67877	48,39965274	21,77270209	Slovakia	Ladmovce	Ladmovce	Plastic,Communal wast	2022.05.19 07:27
67878	48,40056695	21,77436188	Slovakia	Ladmovce	Ladmovce	Metal,Plastic	2022.05.19 07:26
67879	48,40116554	21,77542705	Slovakia	Ladmovce	Ladmovce	Plastic	2022.05.19 07:25
67893	48,41679872	21,78283229	Slovakia	Ladmovce	Ladmovce	Plastic	2022.05.19 07:12
67892	48,41830025	21,78418354	Slovakia	Ladmovce	Ladmovce	Plastic	2022.05.19 07:11

Of all the contributions of TidyUp to the development of the pollution map, the greatest by far is the extension of the database to other countries and other rivers. From small tributaries of the Tisza to the giant river of the Danube, a lot of natural waterways were added to the pollution map, a 5-fold increase in the lengths of represented rivers.





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Abstract
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Review Submission

Accepted WLR

Below is a summary of your completed submission. Any sections that are still required to be completed for submission are noted in red.

Monitoring coastal riverine litter accumulations in the Tisza River Basin

The Tisza River the longest (966 kms) tributary of the Danube, its water catchment area exceeds 150,000 km² in 5 countries (Romania, Ukraine, Slovakia, Hungary and Serbia). Long term observations in the Tisza River Basin (TRB) revealed that during floods the heavily polluted river can carry as much as 600 plastic bottles per minute; a sadly spectacular event named the plastic flood. Most of the riverine litter accumulations are formed in the floodplains filtered by the littoral vegetation (alluvial forests cover more than 33,000 hectares in Hungary alone). After dense undergrowth made attempts for aerial survey unsuccessful, the Hungarian river cleanup initiative Plastic Cup launched a multi year citizen science programme to carry out personal observations along the entire Tisza river and some of its tributaries. In the framework of 3 international river cleanup projects (Tid(y)Up, 5 countries 1 river, Clean Water Happy Tisza) volunteers registered and reported coastal riverine litter accumulations based on the protocol of the Transnational River Cleanup Handguide. The personal survey of the extensive floodplains lasted 6 consecutive years (2016-22) in 5 countries.

Observations were carried out mostly in winter when scarce vegetation made the detection of coastal riverine litter accumulations possible. Geolocation, ID, textual description and pictures of the polluted sites were registered and reported by a free and open-source smartphone application. In lack of mobile signal reception, the device cached the data and transferred again once it was back online. After the report, using the JSON format and the API endpoint provided by the application, data was transferred to the servers of the online pollution map. To cover the whole TRB, monitoring activities included River Tisza (entire river, both shorelines) and sections of smaller tributaries. Data visualization was carried out via an automated process making sure that a newly discovered pollution site appears on the online map within 15 minutes of its detection. In the TRB, since January, 2016 volunteers have reported 3216 coastal riverine litter accumulations. With 2667 reports the Tisza was covered in its entirety from the source to the Danube. In conclusion, the floodplains of the lower section of the Tisza function as a repository for large amounts of floating riverine litter not only because of natural reasons but due to artificial water engineering facilities such as hydroelectric power plants (HEPPs). Our data suggest that the retention capacity of alluvial forests, combined with the low-flow sections of the river formed by natural and artificial causes leads to the formation of large riverine litter accumulations. These results suggest that rivers not only serve as a transport route for marine litter: by filtering out the pollution they become more and more polluted themselves, if proper preventive and reactive actions are not taken.

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¹ Plastic Cup Initiative, River Monitoring Unit, Budaörs / Wudersch Pest, Hungary

² ELTE Eötvös University, Faculty of Informatics, Budapest Pest, Hungary

Austropa Interconvention

Communicating the results of extended pollution mapping activities on various platforms including science communication channels.



Plastic Waste Monitoring



ELTE

FACULTY OF
INFORMATICS



LECHNER
KNOWLEDGE CENTER



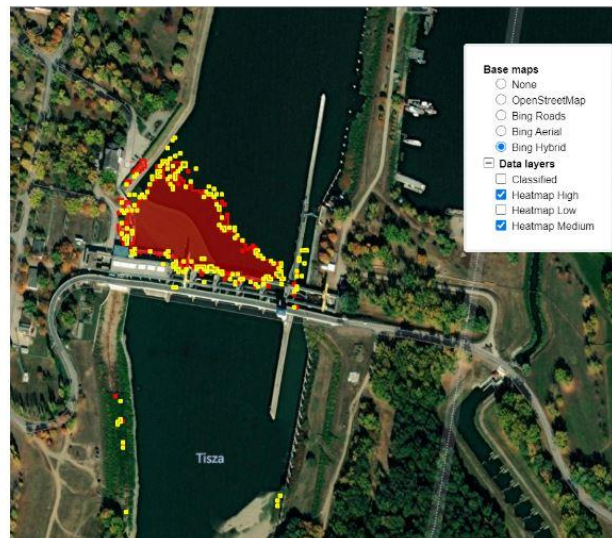
DEMO - Web Application

Description

The goal of our research is to develop an accurate classification method for plastic waste detection to provide a viable platform for repeatable, cost-effective and large-scale monitoring. Such a robust waste monitoring solution would speed up the detection of illegal waste hot-spots close to water flows and floating waste islands on rivers, as well as support waste collection actions with an automatic monitoring system. This application automatically searches for newly recorded satellite images and downloads them on a daily basis. After this a *Random Forest* model classifies the pictures and displays the results in the web view. You can check out the extension of polluted areas on the set locations in the previous five days when the cloud cover over them was 0%.

Features

- **Location:** You can choose from four previously set locations: *Kisköre, Lake Călinești, Pusztazámor and Paxis*
- **Date:** It can be changed using the swipe. You can select from the last five most recent days when the cloud cover over the areas was 0%.
- **Colors:**
 - **Classified: Orange.** All pixels that were classified as plastic waste.
 - **Heatmap High: Red.** Pixels that were classified as plastic waste with a confidence of 90% or higher.
 - **Heatmap Medium: Yellow.** Pixels that were classified as plastic waste with a confidence between 80% and 90%.
 - **Heatmap Low: Green.** Pixels that were classified as plastic waste with a confidence below 80%.



[Click here for interactive DEMO](#)

Remote sensing hotspots, macroplastic deposits, and floating waste accumulations (jams) on Sentinel-2 and PLANETSCOPE satellite images. The initial results indicate that by analysing satellite images captured in the spring and summer months using four distinct wavelengths, it is possible to reliably detect floating plastic accumulations.

Publications

1. Waste Detection and Change Analysis based on Multispectral Satellite Imagery

Dávid Magyar, Máté Cserép, Zoltán Vincellér, Attila D. Molnár

In *Proceedings of KEPAF*, art. 53., p. 18., 2023. DOI: [10.48550/arXiv.2303.14521](https://doi.org/10.48550/arXiv.2303.14521)





Solutions to pollution: managing riverine litter accumulations (SO_2)



Professional river cleanup action on the Upper Tisza river. Heavy machinery removes the riverine litter along with the driftwood.





Professional river cleanup action on the Latorica river, in Ukraine.



Plastic Cup initiative workboat, the PETII in operation in wintertime (left) and in the summer (right). Concerning their volume, plastic bottles make up a major part of collected riverine litter.





Sustainable mitigation measures include the Implementation of large scale, long distance, international community river cleanup actions in project countries like Slovakia,





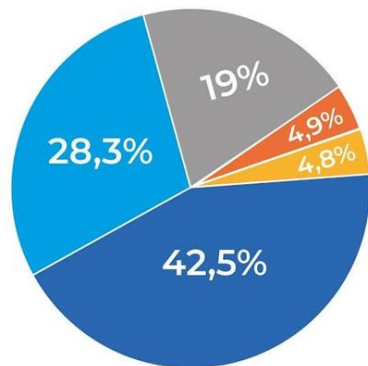
Romania, Serbia, Hungary and Bulgaria.



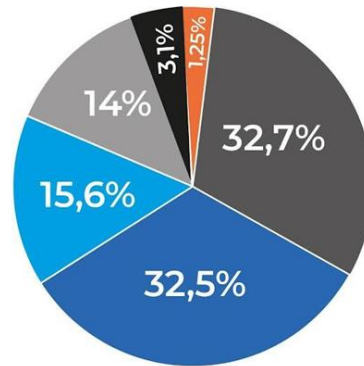


Selection of collected riverine litter in Becej, Serbia, after a successful community river cleanup action. Experience shows that based on the protocol provided by the Transnational River Cleanup Handguide, as much as 60% of the collected waste can be recycled.

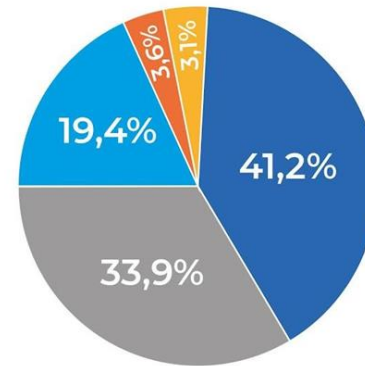




2019



2020



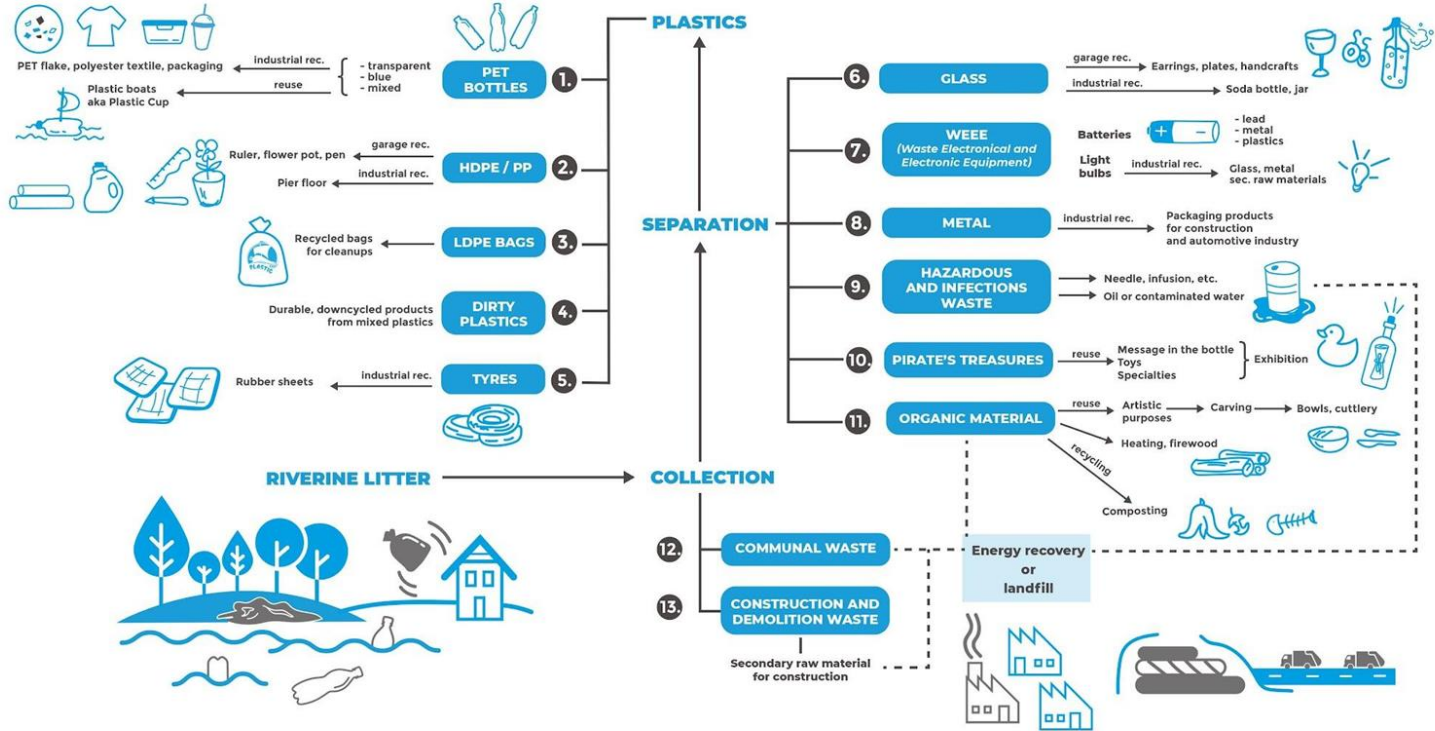
2021

Composition of the collected riverine litter based on material type in 3 consecutive years. Data obtained from community and professional cleanups carried out in cooperation with the Plastic Cup initiative.



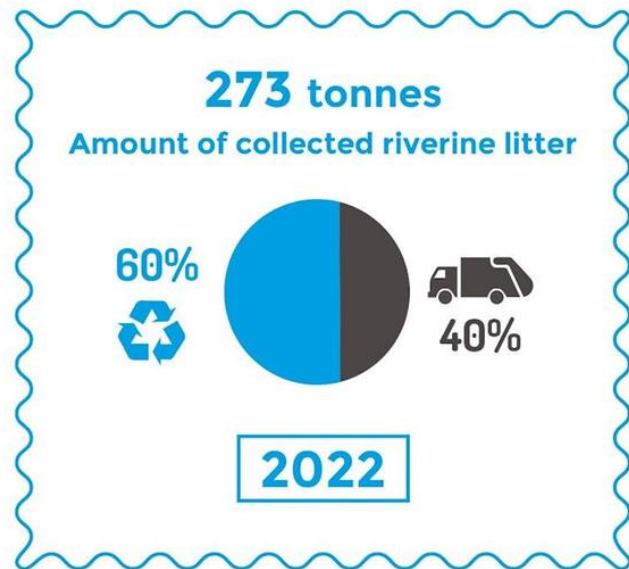
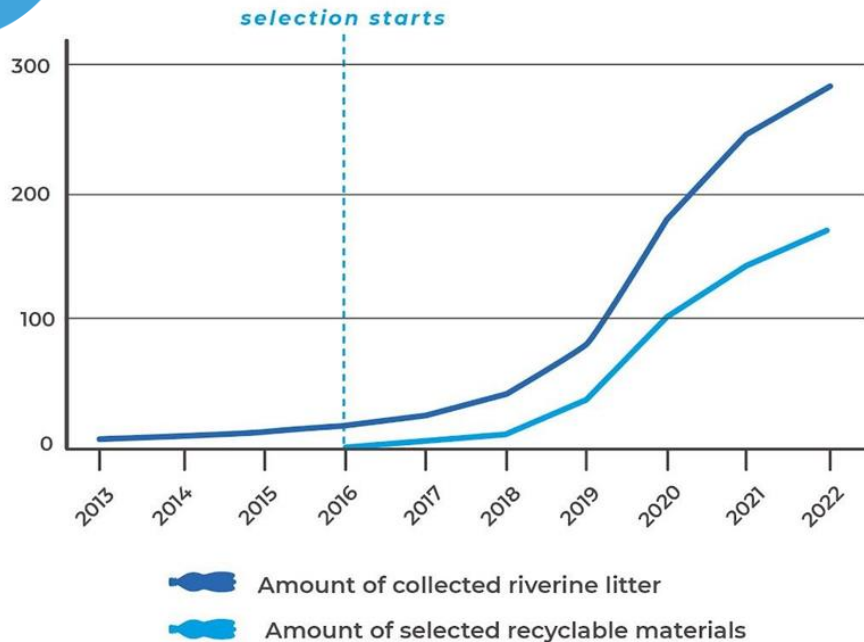


Where the collected riverine litter goes? Workflow based on Plastic Cup's waste management practices.





Rate of recycled riverine litter between 2013 and 2022.





Not only PET bottles can be used again and again. The PE and PP fraction of the collected riverine litter is capable of taking second life using technologies like extrusion or injection.



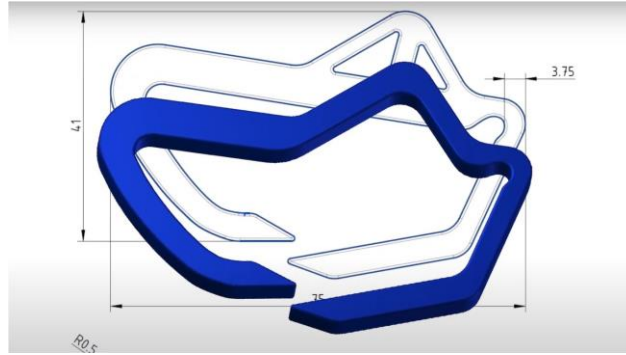


Creation of a new set of 'riversaver' products made 100% of recycled riverine plastic. The durable plastic boards, planks and sheets provide great source material for creating pontoons and fishing dinghies (left, right), while powderized riverine plastic can be a raw material for a kayak made by rotational moulding.





Budapest University of Technology and Economics joined the efforts to fully exploit the potential provided by circular raw materials derived from collected riverine litter.



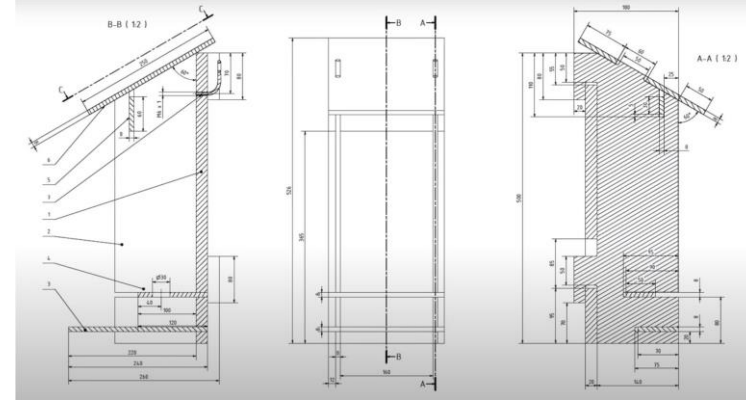
FOLYÓBARÁT CSIPESZ

Tervező/Készítő:
Tóth Loretta



PETKALÓZ JÁTSZÓKA

Tervezők/Készítők:
Girhiny Róza Júlia / Onódy Zsófia





Using their talent, creativity, students of the Budapest University of Technology and Economics are giving second life to environmental plastics collected from the river.



Public relations,
awareness
raising
communication
(SO_3)





Attila David Molnar

2022. jún. 7.

Dear All,

Thank you for all the effort you have put into Tid(y)Up actions in the last period. I am now sharing a few articles and videos from our official project website to share. Hereby I ask all the communication managers at each partner (Terézia, Veselin, Johannes, Csilla, Ivelina and Anna, also Kálmán and Valentyn if they have the possibility) to collect all the links, articles, reportages, related to your events in the national/international media. I enclose a very nice example, in the attached PDF file you can see how UNS collects all the press on their cleanup.

HERE ARE SOME CONTENTS FOR YOU TO SHARE (to the special attention of communication managers):

Article about Kosice visit of FLEX

<https://www.interreg-danube.eu/news-and-events/programme-news-and-events/7525>

Article about the international cleanups organized in the international pilot cleanups

<https://www.interreg-danube.eu/news-and-events/programme-news-and-events/7512>

Article about the situation in Ukraine

<https://www.interreg-danube.eu/news-and-events/programme-news-and-events/7386>

VIDEO PLAYLIST OF INTERNATIONAL CLEANUPS

<https://youtube.com/playlist?list=PL2F4YEGc6pgRYgpjDNxENR-guU4CHKBTy>

pilot cleanups in 2022

SERBIA: <https://youtu.be/pH-Dm-MJwA4>

BULGARIA: <https://youtu.be/3W1O9cWlUD4>

ROMANIA: <https://youtu.be/LE6wcdMcz4>

UKRAINE: <https://youtu.be/eyWpxmDZ-kE>



20220602_Fakultet_Tehni...

PDF

Online video training

	Video Training Session 8 - Geogirl is making...	Közzétéve: 2021. ápr. 20.
	Video Training Session 7 - Sharing	Közzétéve: 2021. jan. 6.
	Video Training Session 6 - Editing	Közzétéve: 2020. dec. 18.
	Video Training Session 5 - Recording, part II.	Közzétéve: 2020. dec. 11.
	Video Training Session 4 - Recording, part o...	Közzétéve: 2020. dec. 2.
	Video Training Session 3 - Structure your sc...	Szerkesztve: 2020. nov. 30.
	Video Training Session 2 - Write your script!	Szerkesztve: 2020. nov. 29.
	Video Training Session 1 - What makes a vid...	Szerkesztve: 2020. dec. 2.

TidyUp videos

	TidyUp videos 13 - PUBLIC	Szerkesztve: 2022. márc. 3.
	TidyUp videos 12 - PUBLIC	Szerkesztve: 2022. márc. 3.



Increasing Media Literacy among the communication assistants of the Tid(y)Up project.

TidyUp


PET Kupa


Nyilvános ▾


20 videó 3 napja frissítve


Összes leját... Keverés


interreg-danube.eu/tid-y-up


- 


TidyUp | Pilot cleanup in Slovakia / Petkalózok Szlovákiában
PET Kupa
- 


TidyUp | First joint pilot cleanup / Nemzetközi folyótakarítás
PET Kupa
- 


TidyUp | 1st International Project Partner Meeting / Első projektalálkozó | #79
PET Kupa
- 

TidyUp | winter cleanups / téli folyómentő akciók | #290
PET Kupa
- 

TidyUp | On the hunt for microplastics / Mikroplasztikra vadásztunk
PET Kupa
- 

UNS Novi Sad (Serbia) - PP on TidyUp project
Veselin Bežanović
- 

TidyUp | Regional Tisza Roundtable / Kerekasztal Tokajon
PET Kupa
- 

TidyUp | Macroplastic monitoring at Bodrog / Hulladéktérképezés a Bodrogon
PET Kupa
- 

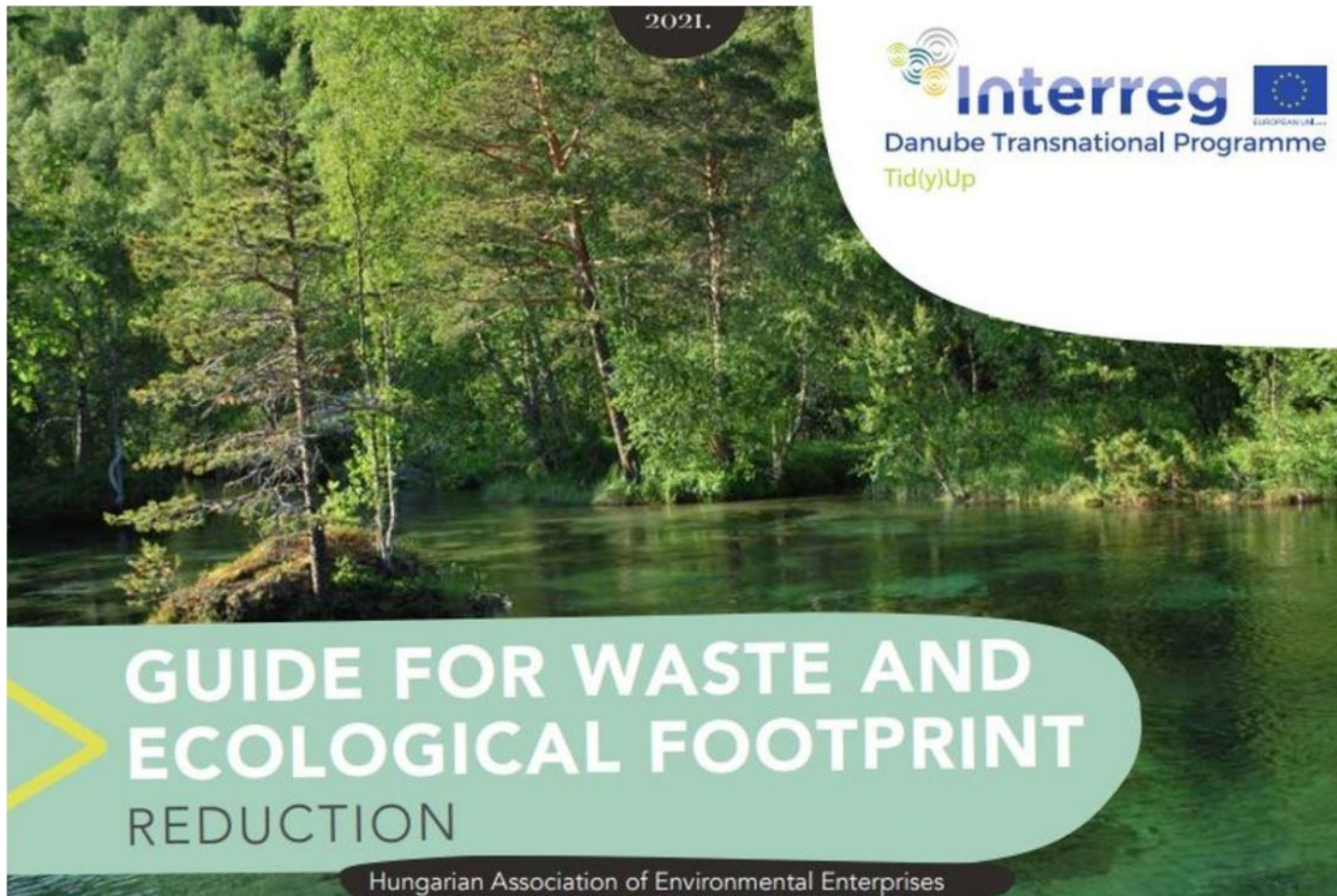
TidyUp | a Lebegő Kiállítás tervezése / Designing FLEX
PET Kupa



The online video training in Tid(y)Up helped partners to join in videomaking.



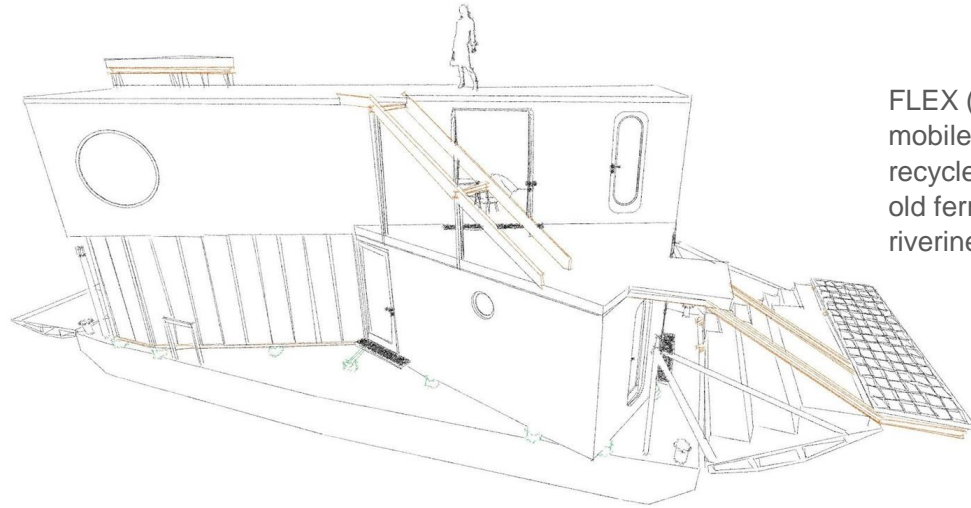
The Waste Reduction Toolkit and the recommendations to plastic free riversides is among the main outputs of the project.



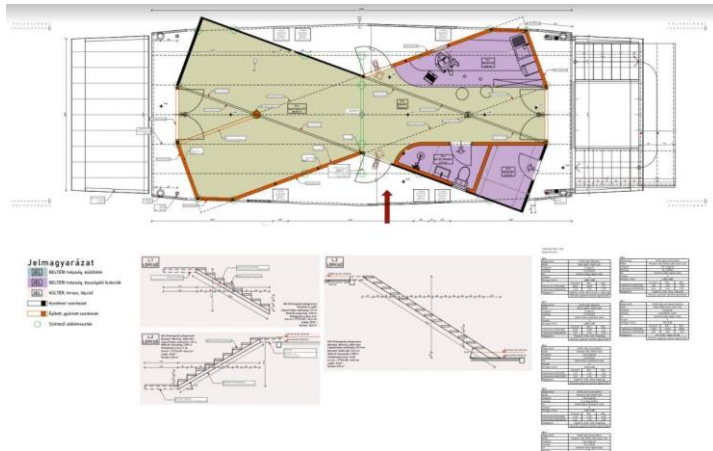


Roundtable discussions in Tid(y)Up helped networking among stakeholders, knowledge exchange as well as the multiplication of project results on a regional and international level.





FLEX (Floating exhibition) is a zero waste, mobile exhibition area build 100% of recycled materials such as a refurbished old ferry (below) and tons of recycled riverine litter.





FLEX on the road. The mobile and modular exhibition visited Bulgaria, Slovakia, Serbia, Romania and doing so reached thousands of kids teaching them to the basics of River Lit(t)eracy.





The Floating Exhibition (FLEX) is on her way from the Bodrog to the Tisza river.



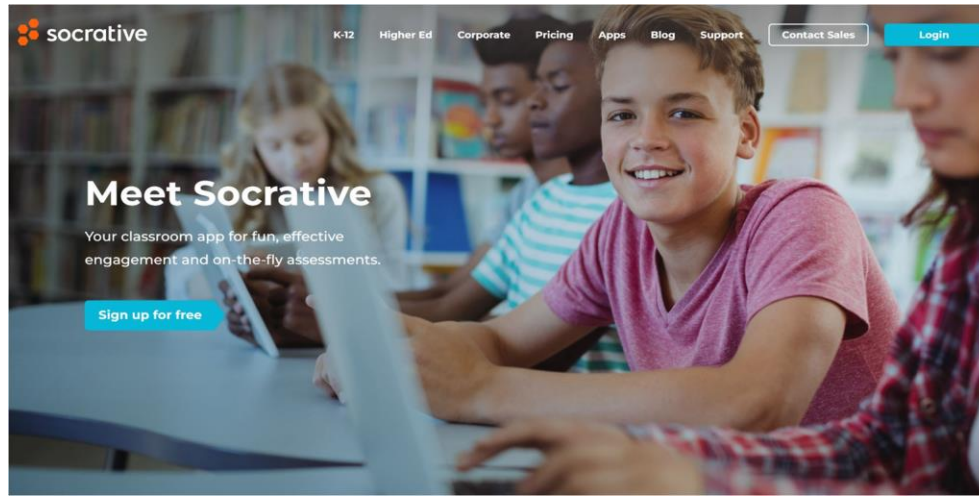


After visiting Slovakia, Romania and Bulgaria on the road, FLEX is finally floating on the river. Many of the schoolchildren have never been on a boat before.





Riversavers after a winter cleanup action at the Kisköre Riversaver Center.



https://socrative.com/teacher/#edit-quiz/53894780



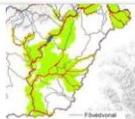
A Szamos
B Hernád
C Maros
D Zagyva

16. Mi a folyómentő akciók első és legfontosabb célja?

A Hogy megtisztuljon a kijelölt terület.
B Hogy a helybéliek bevonásával valósuljon meg az akció.
C Hogy mindenki épségben hazerjen.
D Hogy megváltozzon az egyszer használatos műanyagokhoz fűződő viszonyunk.

17. Ártérben szedsz, villanykörtét találsz. Mit teszel? (több válasz)

A otthagynom
B bedobom az üveges zsákba
C bedobom a műanyagos zsákba
D külön teszem



The Transnational River Cleanup Handguide is based on the Riversaver Training protocol.



tensive types of their way into form of water creasing inflmers, also

1.1 The migration of marine litter

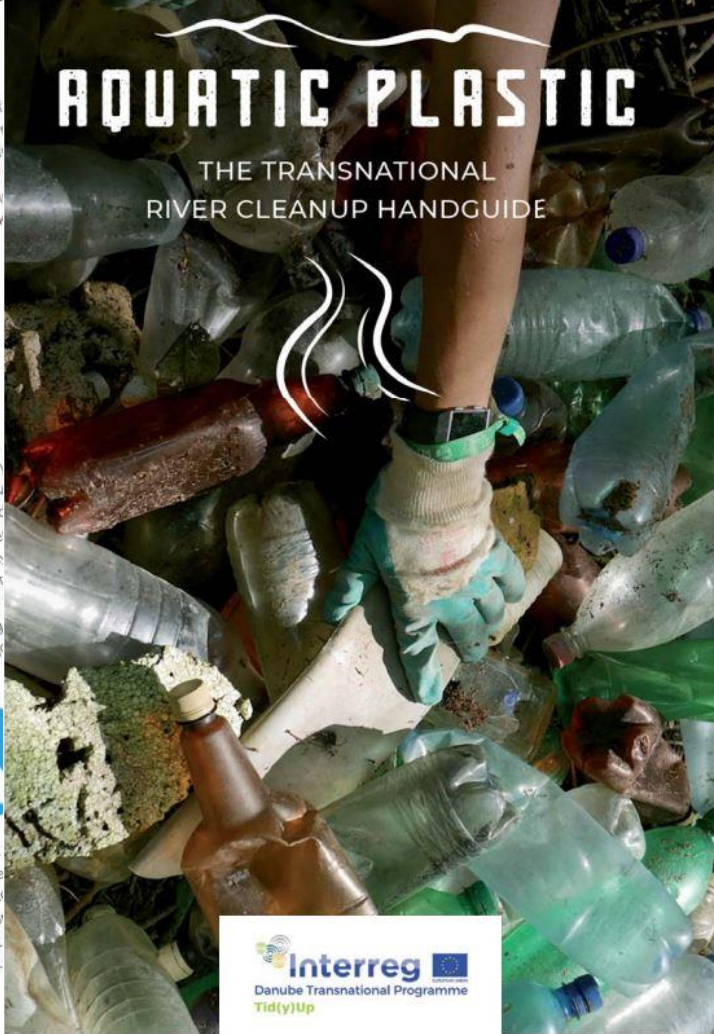
Given that more than half of the human body (approx. 60%) is made up of water, sufficient freshwater resources are crucial to our survival. We depend on seas and oceans at least as much, still they are getting more and more polluted. The authors of this book are citizens of the European Union (EU) where the Water Framework Directive has been in force since 2000. It declares that **water** is not a commodity, but a universal legacy as such we have a duty to protect. According to this directive, member states must bring surface water bodies into good by 2027.



An ambitious when multiple all aquatic ec change alor threat, but other risk

AQUATIC PLASTIC

THE TRANSNATIONAL RIVER CLEANUP HANDGUIDE



In the first volume of the book series 'Aquatic Plastic' Tid(y)Up partners collected their knowledge about how best to implement river cleanup actions.





**Do Not Forget Before Pollution Mapping -
Checklist**



Please note that this short checklist was created for river cleanup coordinators to use in the field. As an attachment, this document does not contain all the relevant information and should only be considered an appendix, serving as a helpful accessory to the Transnational River Cleanup Handguide. For the complete document, please click [HERE](#).



Please note that conducting a pollution map survey may not be necessary if:

- There is already an existing database available online.
- The area is dangerous, flooded, or difficult to access.
- The activity could potentially threaten wildlife, such as during nesting of endangered species or blooming season.

The pollution map will provide the following information:



The approximate quantity of riverine litter accumulations, giving an idea of how much waste is present.

The exact locations where the field survey should begin and end, along with information on public transport connections or other ways of travel.

The exact location of riverine litter accumulations, indicating where the waste is located.

Place, number, and description of dangerous locations (such as steep shores) that should be avoided.



Online campaign starting soon on social media.

Would you like to learn more about rivers and take action against plastic pollution?
If you're interested in learning from experienced riversavers or getting involved, take a look at the first volume of the Aquatic Plastic series:
THE TRANSNATIONAL RIVER CLEANUP HANDGUIDE.

TISZAI PET KUPA

*"We coordinate, organize and check things. We are the hosts, we have to keep an eye on everybody. To do that, I often sit in a motorboat, even though I very much like to paddle myself. Still, this way I can react quickly, and that is the most important."
Krisztian Berberovics, Riversaver*

You can download a free copy from the official website of the Danube Transnational Programme.

SCAN ME!





The Transnational River Cleanup Handguide is an open access document available online.



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THE TRANSNATIONAL RIVER CLEANUP HANDGUIDE.

I just finished reading your cleanup handguide. It's so good! Really helpful and written in a way that I'm sure will encourage others involvement and progress. Great job!

Ian Davies, founder of the Tisza Tidy Up initiative

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SCAN ME!





**THE OFFICIAL
WEBSITE OF THE
DTP TID(Y)UP
PROJECT**



**DOWNLOAD THE
TRANSNATIONAL
RIVER CLEANUP
HANDGUIDE**



**PROJECT
DOCUMENTARY**



**REFERENCES,
ANNEX**

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- Satu Mare County Administrative-Territorial Unit RO, ROMÂNIA



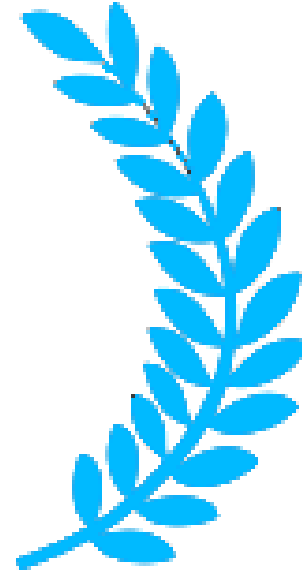
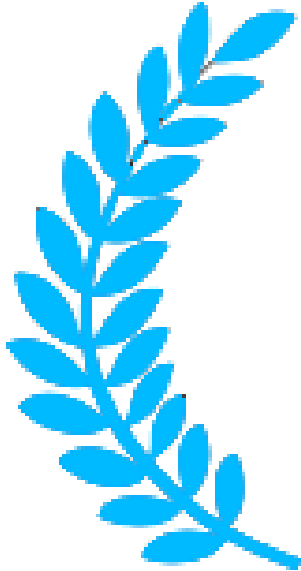
Thank you!



- EX Ante, Budapest, Hungary
- Filmjungle.eu Society LP - THU - HU, MAGYARORSZÁG
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Best in research,
Best community river cleanup,
Best communication,
Best environmental education,
Impossible award,
Special award



Best in Research

BOKU (Austria) &
WESSLING (Hungary)





Best Community River Cleanup

ASRD (Slovakia)

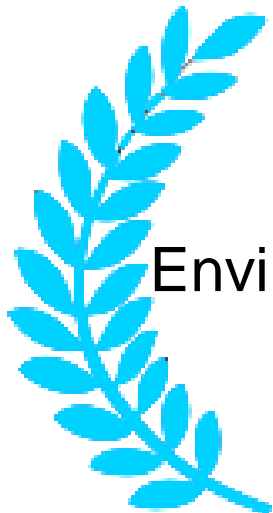




Best in Communication

UNS (Serbia)





Best in Environmental Education

IO-BAS (Bulgaria)





Doing the Impossible

PAPILIO (Ukraine)





Special Rescue Award

Multisalva (Romania)

