



BASIC PROJECT DATA				
Full project title:	PlasticFreeDanube – Macro plastic waste in and along the Danube			
Short project title: (acronym)	-	Project logo:	PlasticFree Danube	
Project website:	-	Project ID:	PA1A145	
Need and added value for Danube Region Strategy:	Estimations go that land-based sources account for up to 80% of the marine litter found in the world's oceans. As rivers transport the waste from far inside the land to the oceans, the first step necessary to understand the contribution of land-based litter to marine litter is to conduct surveys along rivers. In the riparian zone along the Danube anthropogenic litter is ubiquitous. However, at present no comprehensive study on amounts and sources has been conducted, although several voluntary clean-up initiatives regularly collect litter along the Danube and could contribute to a better understanding of the problem.			
Objective(s) of project:	The project "PlasticFreeDanube – Macro plastic waste in and along the Danube" will give an overall picture of the plastic waste transport in the Danube by combining information on waste generation, waste treatment, littering and waste held back by hydropower plants into a comprehensive material flow analysis. Once data on origin, amounts and composition of the waste entering the Danube between Vienna and Bratislava has been collected, measures to reduce this problem will be developed and implemented. The planned project area ranges from a few km upstream of Vienna to a few km downstream the hydropower plant Gabčíkovo in Bratislava and includes the two			
	 metropolitan areas of Vienna and Bratislava. The overall aim of the project is to establish a sound knowledge base on waster the movement patterns of waste in and along the Danube in terms of quart threats (chemicals, additives, pollutants) and costs, so as to quantify environmental and financial aspects of the problem and to identify the leaks i chain "production – consumption – disposal" at several stages. The focus will the plastic waste, as preliminary studies showed that plastic constitutes the rewaste fraction and the impacts of plastic on the environment are judged important than the impacts of other waste fractions. In order to assess composition of the waste, a standard protocol for measuring and sorting waster and along rivers will be developed, as currently no common procedures for reexist - which makes it difficult to compare different studies. Further, measure reduce waste in and along the Danube will be developed and implemented. key outcome of the project will be the development of a communication platfor initiatives that work already against waste in and along the Danube in ord guarantee also after the end of the project the further exchange on development of the amounts of waste along the Danube. 			
Planned project activities:	 Material Flow and Transport Modelling Description of the project area Development of a Material-Flow-Analysis (MFA) model Collection of available data for the MFA Material Flow Analysis Determination of potential plastic accumulation zones 3D hydrodynamic modelling Particle tracing and hydraulic characterisation of accumulation zones Design of hydraulic accumulation structures 			













	 Waste Sampling in and along Fluvial Systems Methodologies for macro plastic sampling and sorting Collection & sorting of macro plastic Collection of plastic passing the inlet grate of Freudenau or Gabcikovo Analysis of the Collected Plastic and Impact Assessment Development of a methodology for the analysis of macro plastic Chemical analysis of macro plastic Analysis on the fragmentation and the abrasion resistance of macro plastic in fluvial systems Impact assessment Economic analysis Policy recommendations & implementation of measures Scenario and measure development Development of action plans and policy recommendations 	
	Implementation of selected on-site measuresOutlook Danube Basin	
	Capacity Building and Awareness Raising	
	 Stakeholder identification and clustering Awareness raising Capacity building Litter management platform 	
Transboundary impact:	The project will be carried out in the regions Vienna and Lower Austria in Austria as well as the Bratislava region in Slovakia.	
	The public in this area will be addressed in the framework of capacity building measures as well as information events.The models and sampling protocols developed in the project could be the base for other initiatives along the Danube and in Europe.	
Project beneficiaries / target groups:	 General public in the project area Ministries for environment in Austria and Slovakia Ministries for transport in Austria and Slovakia City councils of Vienna and Bratislava Federal state government of Lower Austria Municipalities along the Danube National and regional waste associations National and regional fishing associations Environmental protection organisations Special interest groups on international level (e.g. ICPDR) Business organisations handling the waste (national and regional) Educational institutions on national and regional level Shipping industry Ports 	
	STATUS AND TIME FRAME	
Current project phase: (please tick a box)	 Definition (e.g. project idea, abstract) Preparation (e.g. project proposal, feasibility study) Implementation 	











Start date:		01.10.2	017	End date:	31.09.2020
		ject "Plastic Free Danube" was applied for in the first call of the Interreg V-A programme at the end of February 2017.			
Ргојест Теам					
Project leader:	University of Natural Resources and Life Sciences Vienna (BOKU)				
Project partner(s):	 via donau- Österreichische Wasserstraßen-Gesellschaft mbH Nationalpark Donau Auen Polymer Institute of the Slovak Academy of Sciences RepaNet o.z. 				
Contact person:	Contact person: Name:		-		
	Organisation:		University of Natural Resources and Life Sciences Vienna (BOKU)		
	Addre	ss:	Muthgasse 107/III, 1190 Vienna / Austria		
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	E-Mail	:	-		
	Websi	te:	http://www.v	vau.boku.ac.at/abf/	
				FINANCING	
Available: (please tick a box)		x _{Yes}	[Partly	No
Total budget: EUR 1,500,000			0,000		
Source(s) and amount (potential sources for project ideas): (please tick a box and		x National/region al funds:		EUR 225,000 (State budge	ets)
provide further info)		x EU funds:		EUR 1,275,000 (INTERRE	G V-A SK-AT programme; ERDF)
	C		ans:	-	
		D Priva	te funds:	-	
			r:	-	
PROJECT ENVIRONMENT					
Project cross-reference: -					
Cross-reference ID(s): -					
• EU • CEI • EU		CENTROF EUSDR	Framework Directive PE gramme for the Danube		









Relevant legislation:	The legislative framework contains relevant European, international and national rules concerning water protection and waste management.			
Other:	-			
Relation to other Priority Areas of the Danube Region Strategy:	 PA1b: To improve mobility and multimodality – Road, rail and air links PA02: To encourage more sustainable energy PA03: To promote culture and tourism, people and people contacts PA04: To restore and maintain the quality of waters PA05: To manage environmental risks PA06: To preserve biodiversity, landscapes and the quality of air and soils PA07: To develop the knowledge society through research, education and information technologies PA08: To support the competitiveness of enterprises, including cluster development PA09: To invest in people and skills PA10: To step up institutional capacity and cooperation PA11: To work together to promote security and tackle organised and serious crime 			
EUSDR COMPLIANCE				
Compliance with targets of the Danube Region Strategy:	 Increase the cargo transport on the river by 20% by 2020 compared to 2010. Solve obstacles to navigability, taking into account the specific characteristics of each section of the Danube and its navigable tributaries and establish effective waterway infrastructure management by 2020. Develop efficient multimodal terminals at river ports along the Danube and its navigable tributaries to connect inland waterways with rail and road transport by 2020. Implement harmonised River Information Services (RIS) on the Danube and its navigable tributaries and ensure the international exchange of RIS data preferably by 2020. Solve the shortage of qualified personnel and harmonize education standards in inland navigation in the Danube region by 2020, taking duly into account the social dimension of the respective measures. 			
Compliance with actions of the Danube Region Strategy:	 To complete the implementation of TEN-T Priority Project 18 on time and in an environmentally sustainable way. To invest in waterway infrastructure of Danube and its tributaries and develop the interconnections. To modernise the Danube fleet in order to improve environmental and economic performance. 			









	To coordinate national transport policies in the field of navigation in the Danube basin.			
	To support Danube Commission in finalising the process of reviewing the Belgrade Convention.			
	To develop ports in the Danube river basin into multimodal logistics centres.			
	To improve comprehensive waterway management of the Danube and its tributaries.			
	□ To promote sustainable freight transport in the Danube Region.			
	To implement harmonised River Information Services (RIS).			
	To invest in education and jobs in the Danube navigation sector.			
Affiliation to thematic working group of Priority Area 1a of the EUSDR:	Waterway infrastructure and management			
	Ports and sustainable freight transport			
	X Danube fleet			
	River Information Services			
	x Education and jobs			
OTHER RELEVANT ISSUES				
Project requirements:	For the successful completion of the project it is important to receive the necessary information concerning (plastic) waste from the national and regional waste handling companies. They shall be strategic partners to the project and participate by providing this crucial information.			
Follow-up project:	A follow-up project has not been discussed at this stage.			
Any other issues:	Not at this moment.			





