

BASIC PROJECT DATA			
Full project title:	Danube River Research and	Management	
Short project title: (acronym)	DREAM	Project logo:	-
Project website:	-	Project ID:	PA1A099
Need and added value for Danube Region Strategy:	There is an urgent need to integ River in a sustainable way. Res monitoring strategies, modelling suited to reach a win-win situat protection of the Danube River. T Basin Management Plan.	search is of fun and engineering ion between ec	damental importance to derive solutions to improve measures onomic use and environmental
	The project DREAM provides research topics. These topics ar from basic research, to be re sophisticated 3D models on high providing field data to mitigate situations in water regimes, se revision of bio-engineering mean etc.	e interconnected epresented by computational t hydrological extra ediment regime,	and cover several disciplines, advanced hydraulic labs and echnology, to applied research, remes and to improve existing flood risk, drought problems,
Objective(s) of project:	a) An important aim is to enable morphodynamics and ecological River by means of adequate hy discharge (up to 10 m³/s without p	processes in the ydraulic laborate	various reaches of the Danube pries, that provide a significant
	b) On the basis of an improved puphysical models in the labs, couleading to hybrid models. A furt study sites and stations along the and computer-based models as engineering measures under 1:1	mputer-based si her aim is to es Danube River to s well as to de	mulations should be improved, stablish commonly agreed field o calibrate and validate physical
	c) The cooperation of research River is intended to improve scie basic research to the knowledge	ntific progress ar	
Planned project activities:	Act. 1: Construction of two large and environmental engineering I section, one in the downstream basic and applied, interdiscipli development and test of innovat situation (in the context of management, drinking water supp	aboratories (up section of the D nary Danube F tive river engine hydropower, na	to 10m ³): one in the upstream anube being able to undertake River Research, including the ering measures to improve the avigation, ecology, flood risk
	In Austria, Activity 1 is currently b The four projects are co-financed through different programmes.		
	 Partner 2: Budapest Univ. Partner 3: North-Transdar Partner 4: BOKU-Wasser GmbH 	gary 2014-2020 of Natural Resou ersity of Technol nubian Water Dir rbaulabor Errich	rces and Life Sciences, Vienna ogy and Economics (BME)





	 2. DREAM SK-AT (Danube River Research and Management in Slovakia and Austria): <i>INTERREG V-A Slovakia-Austria 2014-2020</i> Lead Partner: University of Natural Resources and Life Sciences, Vienna Partner 1: Water Research Institute Department of Hydrology and Hydraulics Partner 2: Slovak Academy of Sciences, Institute of Landscape Ecology Partner 3: BOKU-Wasserbaulabor Errichtungs- und Betriebsgesellschaft GmbH Strategic Partner: Federal Agency for Water Management Vienna (BAW)
	 3. DREAM RRMC VIENNA (Wasserbaulabor): Investments in Growth and Employment Austria 2014-2020 – Operational Programme Lead Partner: University of Natural Resources and Life Sciences, Vienna Partner: BOKU-Wasserbaulabor Errichtungs- und Betriebsgesellschaft GmbH
	 4. SEDECO (Sediments, ecosystem services and interrelation with floods and droughts in the AT-CZ border region): <i>INTERREG V-A Austria-Czech Republic 2014-2020</i> Lead Partner: University of Natural Resources and Life Sciences, Vienna Partner 1: Brno University of Technology Partner 2: Povodí Moravy, s.p. Partner 3: BOKU-Wasserbaulabor Errichtungs- und Betriebsgesellschaft GmbH Strategic Partner: Federal Agency for Water Management Vienna (BAW)
	Act. 2: Cooperation of existing hydraulic engineering laboratories for improvement of expertise in all partner countries and to provide knowledge transfer. An upgrade of laboratory instrumentation improves the ability of modern scale models to solve river engineering models. Cooperation with the large scale laboratories is intended.
	Act. 3: Formation of a cluster/network of river engineering simulation tools to be used by Danube countries (common software development and implementation), allowing to perform long-term and large scale analyses of the development of the Danube River (e.g. riverbed aggradation or degradation) and to predict effects of river engineering works.
	Act. 4: Establishment of a network of field study sites along the Danube River and tributaries or process analysis, model calibration and validation and test of advanced river engineering solutions, being suited for carrying out benchmarking studies related to basic abiotic and biotic processes and interrelations with river engineering measures.
	Act. 5: Construction and operation of a research vessel with diving shaft for the whole Danube area (e.g. operated from Serbian base) to enable river bed research at various parts of the Danube river and to perform in situ investigations of river bed dynamics/morphodynamics, sediment transport, effects of river engineering measures and biological processes, thus forming a strong link to management.
	Act. 6: Establishment of a network of existing and extended Danube River Research Institutions throughout all riparian countries, including a strong link to management and society for strengthening and improving the scientific knowledge on the Danube River.
Transboundary impact:	All Danube riparian states and tributary states are (potential) partners, affected regions are suitable field study sites at the Danube and its tributaries as well as surrounding wetlands. Laboratory research will take place in qualified institutions and universities. All partners are participants, performing research, providing and



	gaining information and results, developing a sustainable and comm and management strategies for Danube river issues.		ble and common procedure		
Project beneficiarie target groups:					
		STATUS AND			
Current project pha (please tick a box)	× Pr				
Start date:	01.07.2	2012	End date:	31.12.2020	
Notes:	-				
Ргојест Теам					
Project leader:	University of Natural Resources and Life Sciences, Vienna / Austria				
Project partner(s):	 Federal Agency for Water Management / Austria Slovak Academy of Sciences / Slovakia Water Research Institute Bratislava / Slovakia University of Technology and Economics, Budapest / Hungary EDUVIZIG / Hungary University of Osijek / Croatia University of Zagreb / Zagreb University of Novi Sad / Serbia University of Nis / Serbia University of Ruse / Bulgaria Technical University of Civil Engineering Bucharest / Romania GeoEcoMar / Romania University of Technology Brno / Czech Republic Povodi Moravy / Czech Republic Ukrainian Center of Environmental and Water Projects / Ukraine Odessa State Environmental University / Ukraine 				
Contact person:	Name: Organisation:	- University of Natural Resources and Life Sciences, Vienna Institute of Water Management, Hydrology and Hydraulic Engineering			





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	E-Ma	il:	-		
	Web	bsite: www.boku.ad		<u>c.at</u>	
		FINANCING			
Available: (please tick a box)		□ Yes	[X Partly No	
Total budget:		69,600,000 EUR for all activities			
Source(s) and amount (potential sources for project ideas): (please tick a box and provide further info)		X National/regional funds:		Austrian funds for Activity 1 (all four projects): 20,000,000 EUR (line ministries, City of Vienna, Lower Austria)	
		EU funds:		ERDF funds for Activity 1 in Austria (all four projects): 26,000,000 EUR (Interreg V-A Programmes Austria-Czech Republic, Austria-Hungary and Slovakia-Austria; Operational Programme - Investments in Growth and Employment)	
		IFI loans:			
		Private funds:			
		Other:			
			PROJEC		
Project cross-refere	ence:	SEDiment research and management at the Danube – SEDDON			
Cross-reference ID(s):	-			
Strategic reference:		 EU Strategy for the Danube Region Danube River Basin Management Plan (ICPDR) NAIADES programme Joint statement on inland navigation and environmental sustainability in the Danube river basin 			
Relevant legislation	:	 EU - Water Framework Directive 2000 EU - Floods Directive 2007 EU - Renewable Energy Directive 2009 (Climate Change) EU NAIADES / Navigation, Corridor VII, 2008 National law (water, nature conservation, navigation, building) 			
Other:		-			



Relation to other Priority Areas of the Danube Region Strategy: (please tick a box)	 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: (please tick a box)	 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 2015. 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 2015. 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: (please tick a box)	 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: (please tick a box)	X Waterway infrastructure and management		
	Ports and sustainable freight transport		
	Danube fleet		
	River Information Services		
	Education and jobs		
OTHER RELEVANT ISSUES			
Project requirements:	-		
Follow-up projects:	-		
Any other issues:	-		