Project Data Sheet



BASIC PROJECT DATA				
Full project title:	Improvement of the systems for navigation and topo-hydrographic measurements on the Danube River			
Short project title: (acronym)	-	Project logo:	-	
Project website:	-	Project ID:	PA1A013	
Need and added value for Danube Region Strategy:	One of the main activities of EAEMDR – Ruse is the maintenance of the fairwa in the section from Somovit (rkm 610) to Silistra (rkm 375) with a total length of 235 rkm. EAEMDR is also responsible for the maintenance of the coasta (navigational) signalling on the Bulgarian bank in the entire common Bulgarian Romanian section – from Timok river (rkm 845) to Silistra (rkm 375) with total length of 470 rkm.			
	The signalling of the waterway is implemented by installing floating navigational signs and coastal navigational signs (situated on the riverside or on islands) which indicate dangers for navigation, conditions for access or denied access or have indicative character, etc.			
	The floating signs were controlled weekly and changes were made every three days, if necessary. The signals were not equipped with sensors and due to this fact it was not possible for the operative office of EAEMDR to control their location from distance in real time. It often happened that signals were relocated or lost because of passing vessels (convoys). In this case, the respective section remained without signals until the next specialized vessel for waterway maintenance passed by. This situation was unfavourable for the safety of navigation. In other cases the accumulators of the lighting signals were taken without permission and thus the meaning of the floating signal was changed. This was unfavourable for the safety of navigation as well. The project <i>Improvement of the navigational systems and topohydrographic measurements on the Danube River</i> was implemented during the first programming period 2007-2013 under the Bulgarian Operational Programme on Transport. Within the project a new control GPS geodetic network was established along the Bulgarian section of the Danube River. The network serves as a base for carrying out geodetic and hydrographic activities with modern GPS technologies in studying the changes in the riverbed. Beside this, another project result was the installation of 9 automatic hydrometric stations and 9 meteorological stations along the Bulgarian section of the river, including electronic information boards, which increase the awareness of the skippers and other stakeholders about the current hydro-meteorological situation on the Danube in real time.			
	The safety of navigation was imposignal (buoys) equipped with lisensors for monitoring and trac operational status of the lamp are the riverbank were exchanged monitoring and control of the navi	ghts for better king their location ind its power. In a for new ones	visibility, including device and on in real time, as well as the addition, the coastal signs along and a system for real time	
Objective(s) of project:	The general objective of the proj and safety of navigation through the topo-hydrographical measure River, part of the TEN-T Rhine-D implementation of the following s	improvement o ements in the Br anube Corridor.	f the navigational systems and ulgarian section of the Danube This was achieved through the	
	processing and analysing	data for the q	and the methods for collecting, uantitative assessment of the equirements of the WMO, the	



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	Danube River Proto	action Convention Water	Framework Directive and
	ICPDR.	ction Convention, water	Framework Directive and
	topographic (geodeti hydrographical activit		
		ovement of the quality of common Romanian-Bulgari	marking the navigational ian section of the Danube
	 Decreasing the time improvement of the qu 		to the stakeholders and
	 Rehabilitation and im control network along 		rastructure of the geodetic
Conducted project	The following activities wer	re implemented within the p	roject:
activities:	<u>Activity 1</u> – Establishment of GPS geodetic control network on the Bulgarian bank of the Danube – it serves as a basis to carry out topo-hydrographic and hydrological surveys in the common Bulgarian- Romanian section of the river. The control network is also a basis for carrying out river engineering measures in the common section – construction facilities such as quay walls, bank strengthening, etc.		
	meteorological stations a electronic information boa	installation of 9 automatic along the Bulgarian sectio ards. The density of the hy ws for the timely delivery	on of the river, including /drometeorological network
	new floating and coastal s monitoring through GSM		
Transboundary impact:	The activities improve the safety of navigation along the joint Romanian- Bulgarian section of the Danube river so that this part of the Lower Danube is directly affected. The impact of the project can be seen on a larger scale as well, as the river is part of the Rhine-Danube corridor and due to its linear transport structure, improvement of the navigation in one river section leads to improvement of the navigation along the whole corridor as well.		
Project beneficiaries / target groups:	A wide range of stakeholders from different countries benefits from the project e.g. shipping companies, skippers, transport and logistics companies etc.		
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	oor proposal, reasibility stud	y)
	× Completion		
Start date:	10/2013	End date:	09/2015
Notes:	-		

Project Data Sheet



Ргојест Теам					
Project leader:	Exec	Executive Agency for Exploration and Maintenance of the Danube River / Bulgaria			
Project partner(s):	_	-			
Contact person:	Name:		-		
	Organisation:		Executive Agency for Exploration and Maintenance of the Danube River		
	Address:		Slavyanska Str 6, 7000 Ruse / Bulgaria		
	Phor	ne:	-		
	E-Ma	ul:	appd@appc	I-bg.org	
	Web	site:	www.appd-bg.org		
FINANCING					
Available: (please tick a box)		X Yes Partly No		Partly No	
Total budget:		1 773 574.61 EUR			
Source(s) and amount (potential sources for project ideas): (please tick a box and provide further info)		X National/regional funds:		266 036.19 EUR (15 % - State budget)	
		EU funds:		1 507 538.42 EUR (Operational Programme 'Transport' 2007 – 2013 for Bulgaria; 85 % - European Regional Development Fund)	
		IFI loans:			
		Private funds:			
		Other	r:		
PROJECT ENVIRONMENT					
Project cross-refere	ence:	: Improvement of the navigational systems and topohydrographic measurements on the Danube River – Phase 2 (follow-up project)			
Cross-reference ID(s):	PA1A121			
Strategic reference:	:	The implementation of the project significantly supported the Bulgarian authorities in the process of adopting the EU standards and helped the application of the EU legislation in the field of inland waterway navigation management.			
		It increases the safety of IWW transport and will support the implementation of the river basin management plans.			
		The project is in line with the following strategies / policies:			
				nme on Transport 2007-2013, Priority axis 4 Improvement of ditions on the maritime and inland waterways	



	Strategy for development of the transport system of Bulgaria till 2020		
	 EU Strategy for the Danube Region, Priority Area 1A - To improve mobility and multimodality: inland waterways 		
	The Transport White Paper		
	TEN-T guidelines		
	 NAIADES and NAIADES II action programmes of the European Commission 		
	The Fairway Rehabilitation and Maintenance Master Plan, endorsed by the Danube Ministers of Transport on 3rd December 2014		
Relevant legislation:	Convention Regarding the Regime of Navigation on the Danube, 1948, Belgrade		
	• Agreement between the Governments of the Republic of Bulgaria and the Romanian Republic for maintenance and improvement of the fairway in the common Bulgarian-Romanian section of the Danube River, 1955		
	• Recommendations of the Danube Commission (DC) and the European Commission for Economics with the UN (UN ECE) in the context of the Convention of the regime for navigation on the Danube River from 1948, Belgrade.		
	Law on sea waters, inland waterways and ports of the Republic of Bulgaria		
	 Regulation (EU) No 1315/2013 of the European Parliament and of the Council of 11 December 2013 on Union guidelines for the development of the trans- European transport network, obliging EU Member States to preserve a good navigation status, while respecting the applicable environmental law 		
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		
(please tick a box)	PA03: To promote culture and tourism, people and people contacts		
	PA04: To restore and maintain the quality of waters		
	PA05: To manage environmental risks		
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Compliance with targets	 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 		

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of the Danube Region Strategy: (please tick a box)	X 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:	X To complete the implementation of TEN-T Priority Project 18 on time and in an environmentally sustainable way.			
(please tick a box)	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.			
	X 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 project:	Improvement of the navigational systems and topohydrographic measurements on the Danube River – Phase 2			
Any other issues:	-			



