

BASIC PROJECT DATA			
Full project title:	Creation of a support system for hydrographical works on the Danube meant to assure minimum navigation depths		
Short project title: (acronym)	BORD	Project logo:	–
Project website:	–	Project ID:	PA1A065
Need and added value for Danube Region Strategy:	This project was necessary for the accuracy of the land- and waterside measurements (hydrographic measurements) conducted by the River Administration of the Lower Danube.		
Objective(s) of project:	<p>The project was concerned with the completion of a network of markings (a system of reference) for the Romanian Danube and a catalogue with the precise coordinates of those markings, both in the Romanian reference system (necessary for the cadastre records) and in the European reference system (necessary for the changes on the electronic navigation charts).</p> <p>Overall Objective of the project was to improve the safety of navigation on the Danube, in compliance with the European Directives and the Danube Commission's recommendations, taking into account the anticipated increase of cargo and passenger traffic during the next 10-15 years.</p> <p>Specific Objective: setting in place a network of geodesic landmarks in support of the topo-hydrographical works on the Danube, for the monitoring of the minimum navigation depths (hydrography) and the improvement of fairway maintenance activities (floating and costal signaling, topo-hydrographic surveys, dredging).</p> <p>Aim of the project: to create a network of geodesic landmarks along the Romanian Danube sector, the Danube-Black Sea Canal and the Poarta Alba - Midia - Navodari Canal; a network to be used for the river bed dynamics monitoring and meant to provide exact data for the realization of accurate ENCs.</p> <p>The following conditions for the created support geodesic landmarks network along the Danube were targeted:</p> <ul style="list-style-type: none"> • to be the same standards as the National Geodesic Network; • to be adopted by the National Geodesic Triangulation Network; • to be adopted by the National Network of GPS points; • to be adopted by the National Network of High Precision Levelling. <p>A further aim of the project was that each landmark shall have coordinates in the following projection systems:</p> <ul style="list-style-type: none"> • national system STEREO` 70, ellipsoid Krassovski and reference system Black Sea-Constanta 1975 and Black Sea-Sulina • UTM projection, ellipsoid WGS 84 and (ellipsoidal) geographic coordinates and also in the projection system of neighboring countries (Serbia, Bulgaria, Moldova and Ukraine - for comparison and data exchange) • ETRS 89 (European Terrestrial Reference System 1989) - ellipsoid GRS 80 (practically identical with WGS 84) [It is a standard reference system for the European countries - proposed by EUREF and EuroGeographics]. The coordinates in ETRS 89 system shall be obtained by connection to the National Geodesic Network (GPS) - Class A or/and Class B (from North of Danube area). 		

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	The aim of the project was to contribute to the improvement of the navigation safety on the Danube, in compliance with the recommendations of the Danube Commission in Budapest and with the envisaged increase of merchandise and passenger traffic during the next 10-15 years.		
Conducted project activities:	<p>The project consisted of the design, execution and monitoring of the works for a support system made up of a network of landmarks including 144 locations of 3 landmarks each - the witness landmark, the azimuth and the reference landmarks (144 witness landmarks; 144 azimuth landmarks; 144 reference landmarks).</p> <p>This landmark system covers the whole Romanian sector of the Danube and the canals Poarta Albă - Midia Năvodari and Danube – Black Sea and it was connected to the national geodesic network. This network was designed to be compatible with the similar networks in the neighbouring countries. The landmarks shall serve as reference points for high precision hydrographic measurements.</p> <p>As Beneficiary of the project, AFDJ assured the technical, administrative and financial management of the project by means of the Project Implementation Unit.</p>		
Transboundary impact:	Romania and all other Danube riparian countries benefit from the improvement of the safety of navigation on the Romanian Danube. Further expected results are: reduction of periods of traffic restrictions on the Danube and last, but not least, development of transport networks among EU Member States.		
Project beneficiaries / target groups:	<p>The results of this project benefit the following entities:</p> <ul style="list-style-type: none"> • Users of navigable waterways from Romania and other countries. • The Administration of River Danube Harbours, Giurgiu "APDF Giurgiu". • The Administration of Maritime Danube Harbours, Galati "APDM Galati" • The Administration of Navigable Canals, Constanta "ACN Constanta" • National Agency of Cadastre and Real Estate Publicity "ANCPPI" • National Administration "Romanian Waters"- "Apele Romane" • National Forests Administration "ROMSILVA" <p>The project contributes to the improvement of the transport network of the EU Member States.</p>		
STATUS AND TIME FRAME			
Current project phase: (please tick a box)	<input type="checkbox"/> Definition (e.g. project idea, abstract) <input type="checkbox"/> Preparation (e.g. project proposal, feasibility study) <input type="checkbox"/> Implementation <input checked="" type="checkbox"/> Completion		
Start date:	2011	End date:	2016
Notes:	-		

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PROJECT TEAM		
Project leader:	River Administration of the Lower Danube Galati / Romania	
Project partner(s):	–	
Contact person:	Name:	-
	Organisation:	River Administration of the Lower Danube Galati
	Address:	Portului Street, no. 32, Galati / Romania
	Phone:	-
	E-Mail:	-
	Website:	www.afdj.ro
FINANCING		
Available:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Partly <input type="checkbox"/> No	
Total budget:	1,106,080 EUR	
Source(s) and amount (potential sources for project ideas):	<input checked="" type="checkbox"/> National/regional funds: 15% (State budget)	
	<input checked="" type="checkbox"/> EU funds: 85% (European Regional Development Fund) The Contract was financed by the <i>Operational Sectoral Programme Transport 2007-2013 (SOPT)</i> , from non-refundable funds of the European Union, namely the European Fund for Regional Development – EFRD – 85%, and from state budget funds – 15%.	
	<input type="checkbox"/> IFI loans: -	
	<input type="checkbox"/> Private funds: -	
	<input type="checkbox"/> Other: -	
PROJECT ENVIRONMENT		
Project cross-reference:	–	
Cross-reference ID(s):	–	
Strategic reference:	–	
Relevant legislation:	–	
Other:	–	

EUSDR EMBEDDING	
Relation to other Priority Areas of the Danube Region Strategy:	<ul style="list-style-type: none"> <input type="checkbox"/> PA1b: To improve mobility and multimodality – Road, rail and air links <input type="checkbox"/> PA02: To encourage more sustainable energy <input type="checkbox"/> PA03: To promote culture and tourism, people and people contacts <input type="checkbox"/> PA04: To restore and maintain the quality of waters <input type="checkbox"/> PA05: To manage environmental risks <input type="checkbox"/> PA06: To preserve biodiversity, landscapes and the quality of air and soils <input type="checkbox"/> PA07: To develop the knowledge society through research, education and information technologies <input type="checkbox"/> PA08: To support the competitiveness of enterprises, including cluster development <input type="checkbox"/> PA09: To invest in people and skills <input type="checkbox"/> PA10: To step up institutional capacity and cooperation <input type="checkbox"/> PA11: To work together to promote security and tackle organised and serious crime
EUSDR COMPLIANCE	
Compliance with targets of the Danube Region Strategy:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Increase the cargo transport on the river by 20% by 2020 compared to 2010. <input checked="" type="checkbox"/> 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. <input type="checkbox"/> 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. <input type="checkbox"/> Implement harmonised River Information Services (RIS) on the Danube and its navigable tributaries and ensure the international exchange of RIS data preferably by 2015. <input type="checkbox"/> 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:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> To complete the implementation of TEN-T Priority Project 18 on time and in an environmentally sustainable way. <input checked="" type="checkbox"/> To invest in waterway infrastructure of Danube and its tributaries and develop the interconnections. <input type="checkbox"/> To modernise the Danube fleet in order to improve environmental and economic performance. <input type="checkbox"/> To coordinate national transport policies in the field of navigation in the Danube basin. <input type="checkbox"/> To support Danube Commission in finalising the process of reviewing the Belgrade Convention.

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	<input type="checkbox"/> To develop ports in the Danube river basin into multimodal logistics centres. <input checked="" type="checkbox"/> To improve comprehensive waterway management of the Danube and its tributaries. <input type="checkbox"/> To promote sustainable freight transport in the Danube Region. <input type="checkbox"/> To implement harmonised River Information Services (RIS). <input type="checkbox"/> To invest in education and jobs in the Danube navigation sector.
Affiliation to thematic working group of Priority Area 1a of the EUSDR:	<input checked="" type="checkbox"/> Waterway infrastructure and management <input type="checkbox"/> Ports and sustainable freight transport <input type="checkbox"/> Danube fleet <input type="checkbox"/> River Information Services <input type="checkbox"/> Education and jobs
OTHER RELEVANT ISSUES	
Project requirements:	–
Follow-up project:	–
Any other issues:	–