

# Project Data Sheet

BASIC PROJECT DATA			
<b>Full project title:</b>	<b>Unification of the reference systems used in Romania and Bulgaria on the Danube river and introduction of the European systems</b>		
<b>Short project title:</b> (acronym)	–	<b>Project logo:</b>	–
<b>Project website:</b>	–	<b>Project ID:</b>	PA1A096
<b>Need and added value for Danube Region Strategy:</b>	<p>This project can be considered as an extension of another project which was completed between 1997 and 1999: "Morphological changes of the Danube River in its lower course and reduction of unfavourable consequences for a certain river section", which received financing from the PHARE program. The chosen river section was between km 834 and km 375. However, geodetical and hydrographic measurements according to the project were only performed in the pilot section between Svishtov and Rousse.</p> <p>Differences were observed in the elevations on the Bulgarian and Romanian riverbanks with unacceptable values exceeding one meter. The main problem is related to using different co-ordinate and elevation systems by the Bulgarian and the Romanian side.</p> <p>After finalisation, the project will have a positive impact on the measurements done on the common Romanian–Bulgarian Danube stretch and on the river administration activities performed by the river administration from both countries, and for the water administration or other institutions, too.</p>		
<b>Objective(s) of project:</b>	Unification of the Reference Systems used in Romania and Bulgaria, on the Danube River and Introduction of the European Systems (EVRF 2007)		
<b>Planned project activities:</b>	<ul style="list-style-type: none"> <li>• Analysis of the geodetical and levelling networks on both sides of the river.</li> <li>• Current state analysis of the water measurement stations. Analysis of data unconformities registered in the corresponding stations on both sides of the river.</li> <li>• Analysis of the mapping products related to the Danube river and the methodology for the elaboration of river hydrographic charts.</li> <li>• Coordinates and elevation system and a mapping projection for the needs of navigation maintenance, infrastructure, civil engineering and for prevention of disasters and accidents along the Danube river.</li> <li>• Construction of new water measurement stations with up-to-date electronic reading devices.</li> <li>• Levelling of tide battens.</li> <li>• Performance of gravimetrical measurements and calculation of geopotential elevations.</li> <li>• Performance of up-to-date current photogrammetric and hydrographic chart of the section between km 845 and km 375.</li> <li>• Current hydrological surveys; update of the digital navigation charts; regular measurements for geodetic, geodynamic and geotechnical purposes.</li> <li>• Preparation of methodologies, recommendations and proposals.</li> </ul>		
<b>Transboundary impact:</b>	A new unique elevation system should be adopted for the Danube river and should become mandatory for all Danube countries or at least for Romania and Bulgaria.		

# Project Data Sheet

<b>Project beneficiaries / target groups:</b>	<p>Beneficiaries:</p> <ul style="list-style-type: none"> <li>• Rouse University / Bulgaria</li> <li>• University of Architecture, Civil Engineering and Geodesy, Sofia / Bulgaria</li> <li>• Shoumen Technical University or the Ministry of Regional Development and Public Works / Bulgaria</li> <li>• Executive Agency for Exploration and Maintenance of the Danube River / Bulgaria</li> <li>• Autonomous State Control "River Administration of the Lower Danube Galati" / Romania</li> <li>• Technical University of Civil Engineering Bucharest / Romania</li> </ul> <p>Target Groups:</p> <ul style="list-style-type: none"> <li>• River administrations from RO and BG</li> <li>• Water administrations from RO and BG</li> <li>• RIS authorities</li> <li>• Educational and research institutions from RO and BG</li> <li>• Environmental institutions from RO and BG</li> </ul>		
<b>STATUS AND TIME FRAME</b>			
<b>Current project phase:</b> (please tick a box)	<input type="checkbox"/> Definition (e.g. project idea, abstract) <input checked="" type="checkbox"/> Preparation (e.g. project proposal, feasibility study) <input type="checkbox"/> Implementation <input type="checkbox"/> Completion		
<b>Start date:</b>	04/2013	<b>End date:</b>	12/2014
<b>Notes:</b>	<p>The project will be submitted to the Romania-Bulgaria Cross-Border Cooperation Programme 2007-2013 in January 2013. Start date depends on the period of projects' evaluation by the Programme Management Authority and the communication regarding the financing.</p>		
<b>PROJECT TEAM</b>			
<b>Project leader:</b>	"Angel Kanchev" University of Rousse (Bulgaria)		
<b>Project partner(s):</b>	<ul style="list-style-type: none"> <li>• University of Architecture, Civil Engineering and Geodesy, Sofia / Bulgaria</li> <li>• Shoumen Technical University or the Ministry of Regional Development and Public Works / Bulgaria</li> <li>• Executive Agency for Exploration and Maintenance of the Danube River / Bulgaria</li> <li>• Autonomous State Control "River Administration of the Lower Danube Galati" / Romania</li> <li>• Technical University of Civil Engineering, Bucharest / Romania</li> </ul>		
<b>Contact person:</b>	<b>Name:</b>	Hristo Beloev (Rector)	
	<b>Organisation:</b>	"Angel Kanchev" University of Rousse	

# Project Data Sheet

	<b>Address:</b>	Studentska Street 8, 7017 Rousse, Bulgaria	
	<b>Phone:</b>	+359 82 888 465	
	<b>E-Mail:</b>	<a href="mailto:secretary@uni-ruse.bg">secretary@uni-ruse.bg</a>	
	<b>Website:</b>	<a href="http://www.uni-ruse.bg/en/ru.php">www.uni-ruse.bg/en/ru.php</a>	
FINANCING			
<b>Available:</b> (please tick a box)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Partly	<input type="checkbox"/> No
<b>Total budget:</b>	750,000 EUR		
<b>Source(s) and amount (potential sources for project ideas):</b> (please tick a box and provide further info)	<input checked="" type="checkbox"/> National/regional funds:	25% (State budget)	
	<input checked="" type="checkbox"/> EU funds:	75% (European Regional Development Fund)	
	<input type="checkbox"/> IFI loans:		
	<input type="checkbox"/> Private funds:		
	<input type="checkbox"/> Other:		
PROJECT ENVIRONMENT			
<b>Project cross-reference:</b>	Morphological changes of the Danube River in its lower course and reduction of unfavourable consequences for a certain river section (1997–1999; co-funded by PHARE)		
<b>Cross-reference ID(s):</b>	–		
<b>Strategic reference:</b>	<ul style="list-style-type: none"> <li>• Strategy for sustainable development on the period 2007-2013 and 2020, 2030 approved by Minister of Transport Order no. 508/2008</li> <li>• Belgrade Convention (1948)</li> <li>• Navigation and Inland Waterway Action and Development in Europe (NAIADES) COM (2006) 6 final</li> <li>• White Paper Roadmap to a Single European Transport Area – Towards a competitive and resource efficient transport system COM(2011) 144 final</li> </ul>		
<b>Relevant legislation:</b>	<ul style="list-style-type: none"> <li>• Decision No 661/2010/EU of the European Parliament and of the Council of 7 July 2010 on Union guidelines for the development of the trans-European transport network</li> <li>• Law no. 203/2003 regarding the guidelines for the creating, development and modernization of transport network of national and international importance</li> <li>• INSPIRE Directive, recommends the use of EVRF 2007</li> <li>• All EU Directives related to Environmental Protection</li> </ul>		
<b>Other:</b>	–		

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

# Project Data Sheet

	<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.
<b>Affiliation to thematic working group of Priority Area 1a of the EUSDR:</b> (please tick a box)	<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
<b>OTHER RELEVANT ISSUES</b>	
<b>Project requirements:</b>	Funding and an efficient project management in order to cope with all the problems occurred during the project implementation