


Project Data Sheet

BASIC PROJECT DATA			
Full project title:	Green Inland Fleet		
Short project title: (acronym)	GrinFleet	Project logo:	
Project website:	–	Project ID:	PA1A068
Need and added value for Danube Region Strategy:	Development of container transport on and container vessels for the Danube.		
Objective(s) of project:	The GrinFleet project's strategic aim would have been to enhance the use of the Danube and the Rhine as waterborne inland "motorways", hereby implementing the EU inland Blue Belt policy and contributing to the EU 2020 target for reducing energy usage and emissions. To do this, GrinFleet would have developed a variety of "Green inland fleet" solutions containing efficient and innovative ship concepts.		
Planned project activities:	<p>Development of a logistic modelling & simulation tool for container transport, suitable for the three business cases of interest. The tool would have enabled to devise co-modal logistic solutions based on the infrastructural conditions and freight volume requirements, and to determine the main characteristics of vessel solutions fitting these requirements as well as the performance of the logistic chain in terms of economy, energy and emissions.</p> <p>Development of five vessel solutions of maximum attainable vessel size on the rivers fitting the business cases:</p> <ul style="list-style-type: none"> • One self-propelled vessel solution for the Danube; • one self-propelled vessel solution for the Rhine, aiming at maximum physical & economic size; • one river-sea solution for the Danube; • one river-sea solution for the Rhine of at least 50 % larger TDW-capacity when compared with current max. capacity (ca. 3000 TDW); • one autonomously operating self-propelled vessel train for the Rhine secondary waterways. <p>Development of novel power & propulsion trains for minimum energy usage and emissions for self-propelled solutions.</p> <p>Development of novel hull configurations for all vessel solutions possessing the following characteristics:</p> <ul style="list-style-type: none"> • Minimum resistance at sea and in shallow/limited inland waters, advanced geometry, resistance reducing technology (air lubrication, ESV's) to enhance the flow at the afterbody; • excellent manoeuvring capability in shallow and limited waters; • ship architecture based on modularisation and standardisation concepts to obtain cost efficient vessel variants. 		

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Transboundary impact:	A part of the results would have been applicable to the entire Danube as well as the Central and Lower Danube.		
Project beneficiaries / target groups:	<ul style="list-style-type: none"> • shipping companies • shipyards • R & D organizations • universities 		
STATUS AND TIME FRAME			
Current project phase: (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		
Start date:	01.10.2012	End date:	30.09.2015
Notes:	<p>The proposal has been submitted for funding by FP7 (SST-2012-RTD-1 SST.2012.2.2-1. Innovative fleet for efficient logistics chain). Although positively evaluated, no invitation for project negotiations was issued.</p> <p>The project was not realised.</p>		
PROJECT TEAM			
Project leader:	Centre for Maritime Technology and Innovation / The Netherlands		
Project partner(s):	<ul style="list-style-type: none"> • Center of Maritime Technology e.V. / Germany • Development Centre for Ship Technology and Transport Systems / Germany • Delft University of Technology / The Netherlands • Institute of transport sciences KTI / Hungary • Marine Assistance / France • Maritime Research Institute Netherlands MARIN / The Netherlands • Maritima Green Technology / The Netherlands • Torque marine / Germany • Technical University Berlin / Germany • University of Stuttgart / Germany • via donau / Austria • Stichting Studio Veiligheid / The Netherlands • Wartsila Netherlands / The Netherlands • Wartsila Italy / Italy 		
Contact person:	Name:	-	
	Organisation:	Centre for Maritime Technology and Innovation	

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	Address:	Boompjes 40, 3011 XB Rotterdam / The Netherlands	
	Phone:	-	
	E-Mail:	-	
	Website:	www.cmti.nl	
FINANCING			
Available: (please tick a box)	<input type="checkbox"/> Yes	<input type="checkbox"/> Partly	<input checked="" type="checkbox"/> No
Total budget:	t.b.d.		
Source(s) and amount (potential sources for project ideas): (please tick a box and provide further info)	<input checked="" type="checkbox"/> National/regional funds:	t.b.d. (state budgets)	
	<input checked="" type="checkbox"/> EU funds:	t.b.d. (FP7 - Seventh Framework Programme)	
	<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:	<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 checked="" 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:	<input type="checkbox"/> Increase the cargo transport on the river by 20% by 2020 compared to 2010. <input 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 checked="" 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:	<input type="checkbox"/> To complete the implementation of TEN-T Priority Project 18 on time and in an environmentally sustainable way. <input type="checkbox"/> To invest in waterway infrastructure of Danube and its tributaries and develop the interconnections. <input checked="" 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. <input checked="" type="checkbox"/> To develop ports in the Danube river basin into multimodal logistics centres. <input 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 type="checkbox"/> Waterway infrastructure and management <input type="checkbox"/> Ports and sustainable freight transport <input checked="" type="checkbox"/> Danube fleet

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	<input type="checkbox"/> River Information Services <input type="checkbox"/> Education and jobs
OTHER RELEVANT ISSUES	
Project requirements:	–
Follow-up project:	–
Any other issues:	–