



TRA Visions 2014

Cover Page Template – This template is to be used as the cover page for team submissions of 1 to 7 participants and should accompany both the initial abstract submission as well as the final project submission at the end of the contest.

Idea Number: **L1-4**

	Name	Surname	Web Username	Organisation
# 01 Team Leader	Helio	Bailly Guimaraes	heliobailly	EMSHIP
# 02 Team Member				
# 03 Team Member				
# 04 Team Member				
# 05 Team Member				
# 06 Team Member				

PILLAR / TRANSPORT MODE	
ROAD ☐	RAIL ☐ MARINE ☒ CROSS MODAL ☐
Project Related to:	☐ RA1: Environment and Energy ☐ RA2: Industry Competitiveness ☐ RA3: Logistics and Mobility Systems and Services ☐ RA4: Safety and Security ☐ RA5: Transport Infrastructures ☐ RA6: Transp. Policy Res./Socio-econ./Human sci. ☒ RA7: Vehicles & Vessels Technologies

Project Title & Short Description:

“Robust Design Optimization for Operational Profiles”

The work deals with the actual necessity of creating optimal ship designs under uncertainty, also referred as Robust Design Optimization (RDO). The consideration of uncertainties in the optimization process is the future trend of ship design as a more realistic scenario is taken into account. More efficient vessels are developed leading to great payoff and more environmental friendly devices. Benefits, drawbacks and possible improvements of the design process are discussed in the work.