

2011-EU-21007-S

Il progetto COSTA

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Regione Liguria



COSTA – WHY MIT?



Transport Policy

EU: COM(2011) 144 – Transport White Paper

→ 40% to 50% reduction of CO2 emissions from marine fuels

IMO's MARPOL ANNEX VI: sulphur cap in marine fuels



EU Innovation Strategy for the Maritime Sector

Safe, sustainable and Efficient Waterborne operations

→ low emission ships and waterborne activities

Competitive EU Maritime Industry

→ effective waterborne operations → energy efficiency





COSTA – WHY REGIONE LIGURIA?



POTEVAMO NON ESSERCI?

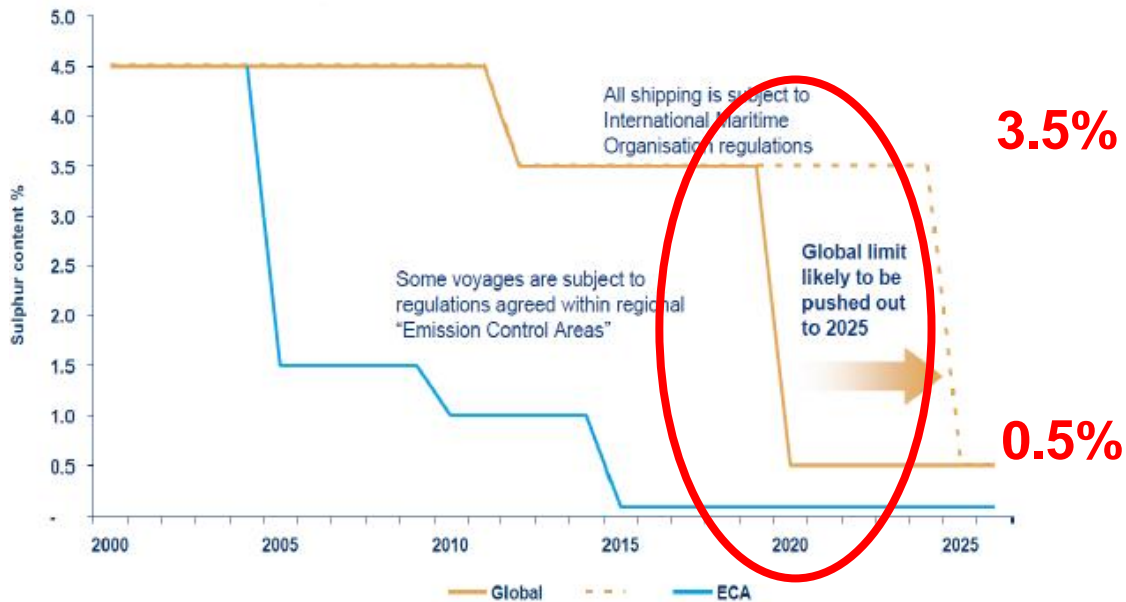




European Commission

COSTA Background

EMISSION CONTROL AREAS

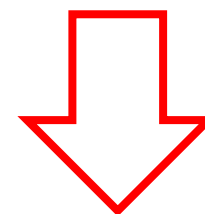


COSTA Background Issues to be addressed



ISSUES

- Technical **LNG**
- Financial/cost
- Rules/Regulatory
- Social
- Logistic
- Environmental **other**



LNG Masterplan





Expected results



Scenarios:

SCEN_1 – Medium term (2020): sulphur cap 0.5% (sensitivity analysis on 0.1% cap)

SCEN_2 – Long term (2030): sulphur cap 0.1%.

Objectives:

OBJ_1.1 – To identify, for each of the two scenarios, the obstacles (technical, logistic/social and sustainability) which prevent/limit the use of LNG for shipping.

OBJ_1.2 – To work out solutions which enable LNG to be an option in each of the two scenarios considered.

OBJ_1.3 – To draw the LNG Master Plan respectively for the medium and long term scenarios

OBJ_2.1 – To specify users' needs in terms of best practices as far as regulations, design, construction and operations of the environment friendly technologies relevant for the Greening of MoS; both ships (new and existing) and ports are to be considered.

PREPAREDNESS



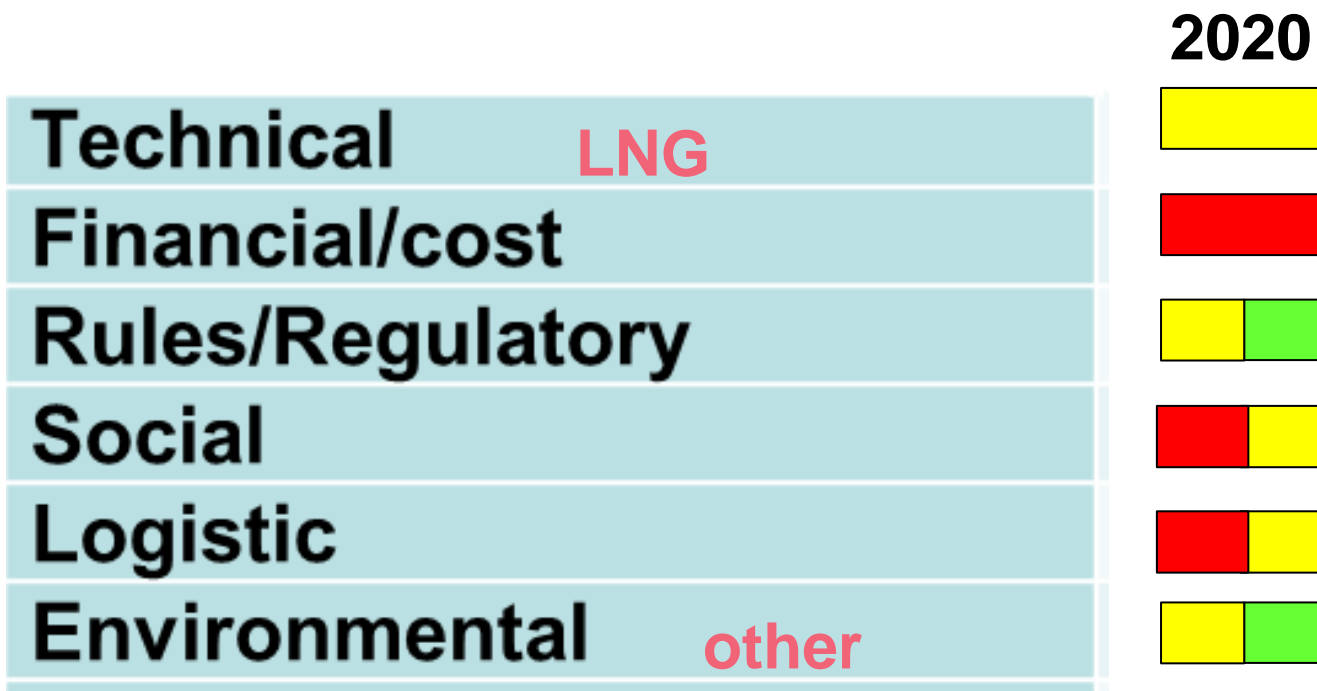
Un-desired Scenarios

- **SHIFT BACK FROM SEA TO ROAD**
- **SHIFT OF MARITIME TRAFFIC FROM EU TO NON EU WATERS**
- **LOSS OF COMPETITIVENESS OF THE MARITIME SECTOR**

Issues as per 30/11/2012



European Commission



Solved also withouth Masterplan



Masterplan will facilitate/speed up



Masterplan is needed





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Social

- o Impact on society
- o social acceptance
- o perception



NEW → UNKNOWN → FEAR (IRRATIONAL)





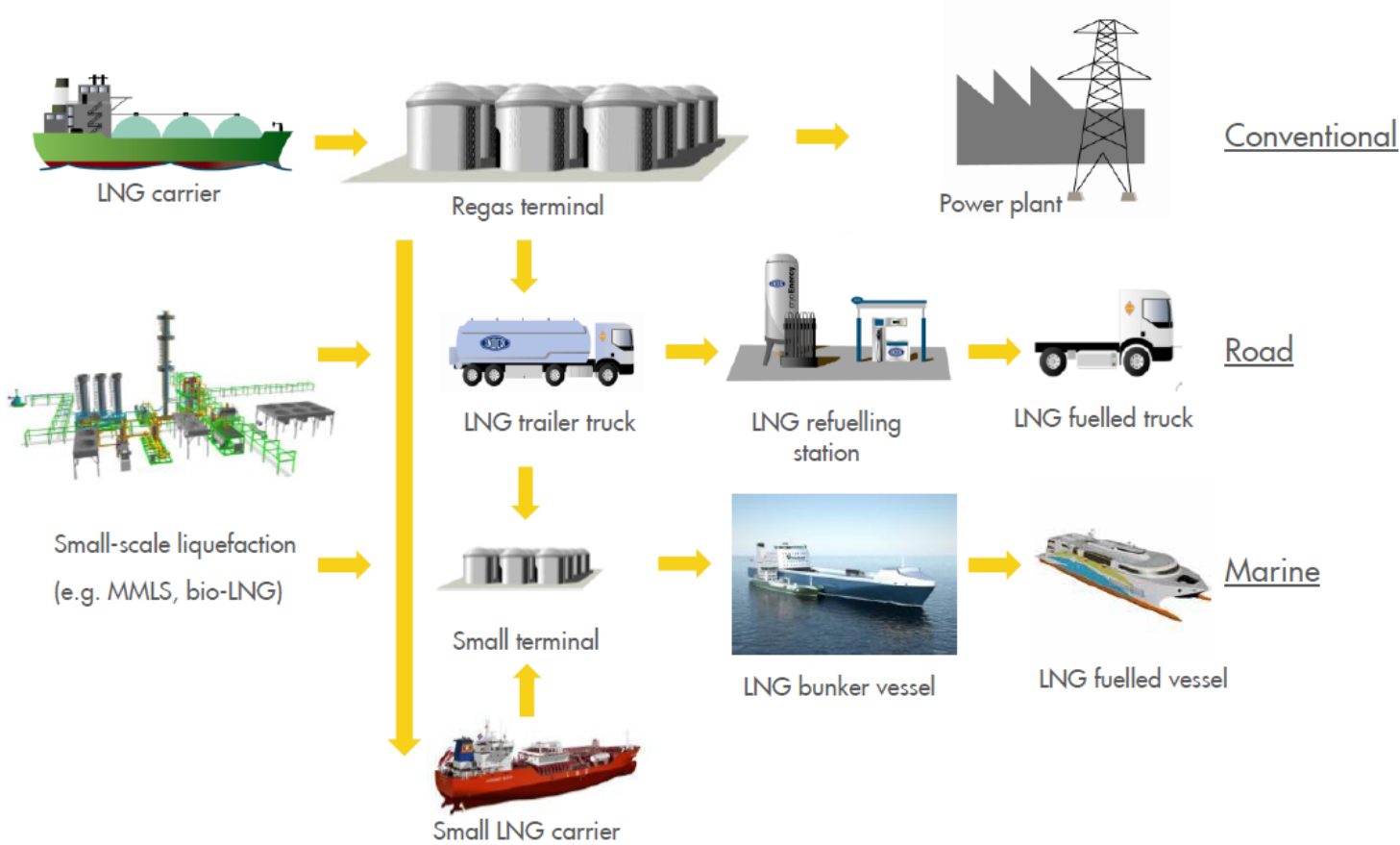
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Logistic



LNG FOR TRANSPORT: MARINE AND ROAD

THERE ARE MORE TRANSPORT APPLICATIONS, SUCH AS RAIL, MINING, ETC.



- o Impact of each considered solution at ports and deep-sea navigation
- o Effective reduction of GHG and pollutant emissions of each solution

ALTERNATIVE SOLUTIONS

USE OF MARINE DIESEL OIL (MDO)

USE OF SCRUBBERS

OTHER SOLUTIONS

- BIO LNG
- Scrubber
- Energy efficiency
-



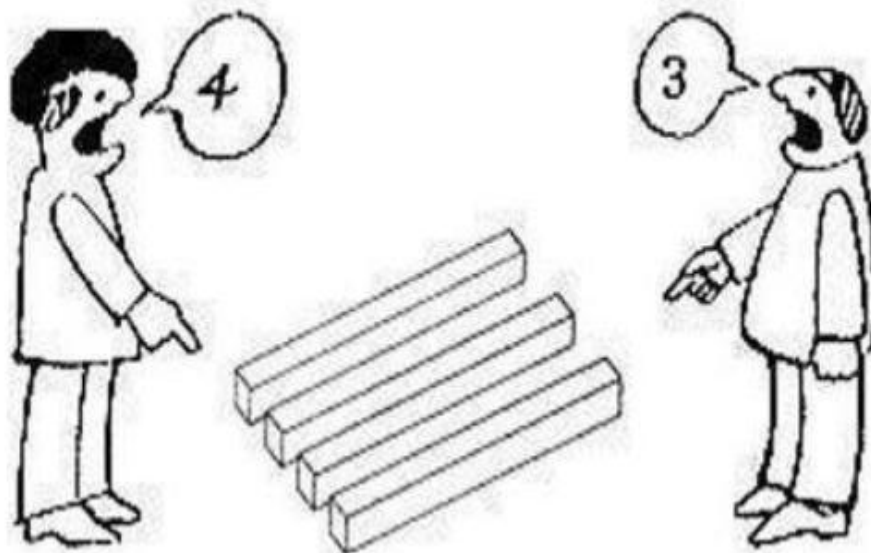
The Masterplan



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a common strategy



Consultation - Activities





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COSTA – THE TEAM



Lead Partner ITALIAN MINISTRY OF TRANSPORT, **Directorate General Maritime Transport and Inland Navigation**

Coordinator RINA SPA

Italy Liguria Region, Grimaldi Napoli, GNV

Portugal Ministry of transport (IPTM), Port Authority of Madeira and of Azores

Spain Puertos del Estado (ALM), Fondacion Valencia Port

Greece Ocean Finance, NTUA



Stakeholders: Ministry of Transport of Cyprus, Malta, France, Romania, Bulgaria, Denmark, Netherlands,

Ports:many....

Industry: LNG producers, LNG traders, LNG users, energy providers, shipowner associations.....





COSTA info



Mail address

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<http://www.onthemosway.eu/category/mos-projects/>

http://tentea.ec.europa.eu/en/ten-t_projects/ten-t_projects_by_country/multi_country/2011-eu-21007-s.htm



Logistic and Maritime Knowledge and Training Center



CATEGORY ARCHIVES - MoS PROJECTS



Latest 15 MoS Projects

COSTA



The COSTA Action aims at developing framework conditions for the use of LNG for ships in the Mediterranean, Atlantic Ocean and Black Sea areas. It will result in preparing an LNG Masterplan for short sea shipping between the Mediterranean Sea

and North Atlantic Ocean as well as the Deep Sea cruising in the North Atlantic Ocean towards the Azores and the Madeira Island. The feasibility study results will promote Motorways of the Sea sustainability, contributing to the common effort addressing climate change, in particular in view of the forthcoming requirements with respect to the implementation of the requirements of Annex VI of the MARPOL Convention. The

DEEP SEAS BASINS OF MARITIME KNOWLEDGE
DEEP - ENVIRONMENTAL CONVICTION
COSTA
LNG IN BALTIC SEA PORTS
TRAINING
SHIP

TEN-T PROJECTS

- 35 PRIORITY PROJECTS
- TEN-T PROJECTS BY COUNTRY
- TEN-T PROJECTS BY TRANSPORT MODE
- TEN-T PROJECTS BY YEAR
- ERAP PROJECTS
- FINANCIAL ENGINEERING
- MAP LIBRARY
- STATISTICS
- MID-TERM REVIEW



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COSTA

Part of Priority Project 28

The **COSTA Action** aims at developing framework conditions for the use of LNG for ships in the Mediterranean, Atlantic Ocean and Black Sea areas. It will result in preparing an LNG Masterplan for short sea shipping between the Western and North Atlantic Ocean as well as the Deep Sea cruising in the North Atlantic Ocean towards the Azores and the Madeira Island. The feasibility study results will promote Motorways of the Sea sustainability, contributing to the common effort addressing climate change, in particular in view of the forthcoming requirements with respect to the implementation of the requirements of Annex VI of the MARPOL Convention.

The project will complement the results of the on-going LNG North Sea and Baltic project 2010-EU-21112-S. This will all increase the potential of Motorways of the Sea by lowering transport costs and reducing CO₂, NO_x and SO_x emissions, in conjunction with greening the transport corridors and using of LNG as an alternative to marine bunker. If **COSTA**'s policy recommendations are implemented, it is expected that CO₂ emissions from shipping could drop by 20% in 2020 and by 30%



Co-financed by the European Union

Trans-European Transport Network (TEN-T)

TEN-T Executive Agency



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Trans-European Transport Network (TEN-T)