

CORE LNGas hive

Coordination:



Puertos del Estado



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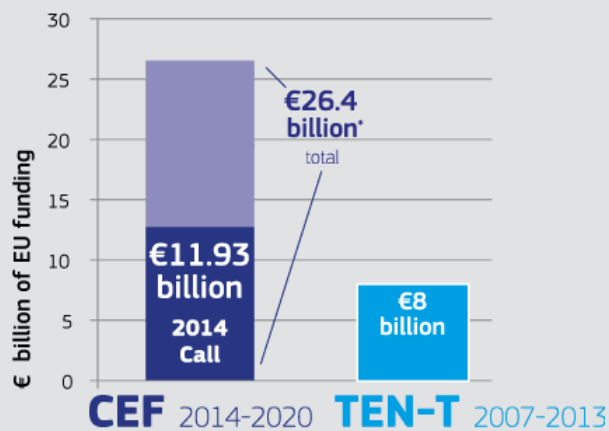
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Background

2014 CEF Transport Calls

CEF FUNDING



STRUCTURE

ANUAL		- Innovation - Freight Services - Rail freight noise - Telematics applications - Core Network Nodes - Logistics platforms	930 M€
MULTIANNUAL	FO-1	- Core Network projects - FFCC	6.000 M€
	FO-2	Innovation Safety and Security	160 M€ 90 M€
	FO-3	- Motorways of the Sea - Core Network Nodes - Logistics platforms - SESAR - RIS	250 M€ 500 M€
FEDER		Algunas Prioridades	4.000M€



CORE LNGas hive was granted with the 100% of the requested funds

Objectives of the action

DEVELOPMENT OF **LNG BUNKERING** IN SPAIN AND PORTUGAL



REGULATION AND NORMATIVE DEVELOPMENT

To make a **proposal of the National Policy Framework**, in view of fulfilling the requirements of the **Directive 2014/94/EU**



INFRASTRUCTURE DEVELOPMENT

To define a **roadmap** and an **investment plan to scale up the results** of the Action

Goals



Breaking the egg-chicken dilemma, adapting the existing infrastructure (marginal investments) for the supply of LNG bunker and small scale services



Boosting the development of the normative needed around LNG bunker to adequately attend the demand



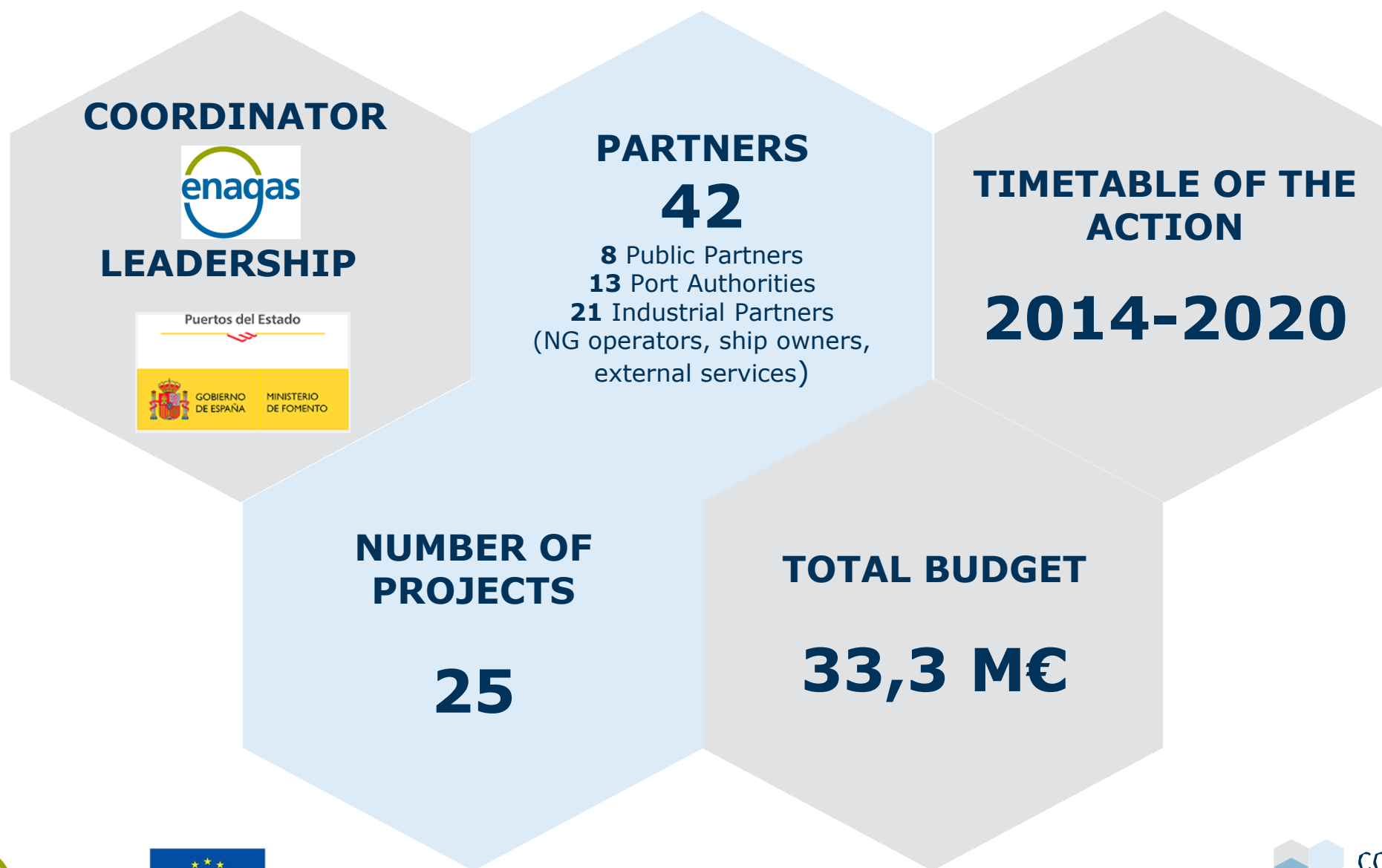
Developing a safety, robust and secure logistic chain



Enabling the Iberian Peninsula to offer holistic solutions to the new requirements of the shipping sector



Key Aspects



42 Project Partners:



Puertos del Estado



<http://www.corelngashive.eu/>



78 Stakeholders:



<http://www.coreIngashive.eu/>

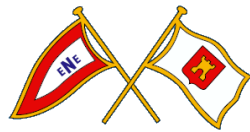
Stakeholders



<http://www.corelngashive.eu/>



Stakeholders



<http://www.corelngashive.eu/>



Scope



**REGULATION,
NORMATIVE,
MARKET**

**INFRASTRUC.
EQUIPMENTS**



Proposal of the National Policy Frameworks



Studies of demand and development of the logistic chain



Safety, environmental and technical standards



Social acceptance of LNG



Training needs



Adaptation of LNG Terminals to offer small-scale services and LNG bunker



Developments on LNG logistic chain



Use of LNG in maritime sector and port environment

REGULATION, NORMATIVE, MARKET

TRANSVERSAL STUDIES

NATIONAL POLICY FRAMEWORK

- National Objectives
 - Incentives
- Measures to promote demand
- Observatory

TECHNICAL, SAFETY ENVIRONMENTAL SPECIFICATIONS

- Bunker infrastructures
- Use of LNG in port environment

LNG ADVANCE TRAINING REQUIREMENTS

- Training needs
- Training centers
- Accreditation processes

LNG SOCIAL ACCEPTANCE

- Improve social perception
- Advantages of the product
- Smooth landing of LNG

REGULATION, NORMATIVE, MARKET

MARKET ANALYSIS

LNG DEMAND AND SUPPLY CHAIN ATLANTIC CORRIDOR

LNG DEMAND AND SUPPLY CHAIN GIBRALTAR STRAIT & PERIPHERAL REGIONS

LNG DEMAND AND SUPPLY CHAIN MEDITERRANEAN CORRIDOR

- To foresee LNG demand along the Iberian façades of the corridors
- To define the most suitable logistic solution depending on distance and demand
- To analyze different business models

INFRASTRUCTURE, EQUIPMENTS

ADAPTATION OF LNG TERMINALS FOR BUNKERING

Engineering for new dedicated LNG jetty in MUGARDOS LNG TERMINAL



Adaptation for LNG mixed bunker/big/small scale services in existing jetty

Multimodal LNG bunker berth in PORT OF HUELVA



Adaptation for LNG small scale services in big scale jetty in BILBAO LNG TERMINAL



BARCELONA: dedicated LNG flexible hoses for bunkering



Adaptation for LNG bunkering/small scale services in REGASIFICATION PLANT OF SAGUNTO



CARTAGENA: dedicated LNG mooring jetty for small scale services



INFRASTRUCTURE, EQUIPMENTS

BUNKERING BARGES AND MULTIMODodal LOGISTIC

BARGE RETROFIT for LNG
bunkering in the Cantabrian coast



EPT2: Multimodal transport for
LNG logistics supply chain
(rail/road/train)



EPM2: Barge retrofit for LNG
bunkering within the port

INFRASTRUCTURE, EQUIPMENTS

LNG UTILIZATION IN PORTS

New tugboat powered by LNG in Bilbao port



Straddle carrier retrofit in Barcelona port



Design of a tugboat powered by LNG in Barcelona port



Retrofit study of a rescue boat powered to LNG



Retrofit study of a port locomotive powered by LNG in Tarragona port



LNG Powered electricity generator mobile unit for Offshore Power Supply



Construction of a LNG/CNG mixed station for vehicles and small boats in Valencia port

Design of a tugboat powered by LNG in Valencia port



Thank you



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Co-financed by the European Union
Connecting Europe Facility