Mediterranean Ports and Shipping 2021 The Westin Valencia, Spain Tuesday 5 to Thursday 7 October 2021

ENCOURAGING ECONOMIC GROWTH BY LEADING THE ROLE IN ENVIRONMENT PROTECTION

Mar Chao
Operations Director, Puertos del Estado



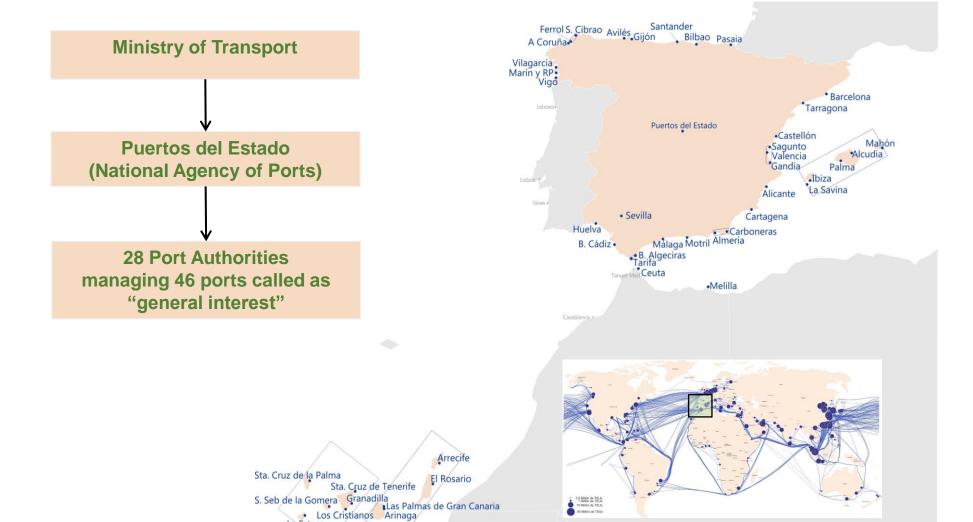


PUERTOS DEL ESTADO: WHO ARE WE?

La Estaca





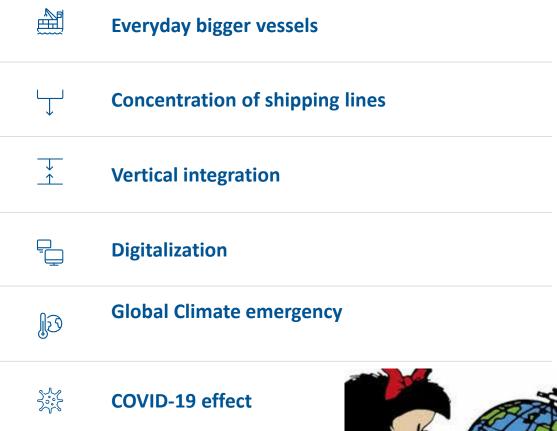


Boundary conditions

Blank sailings, ...







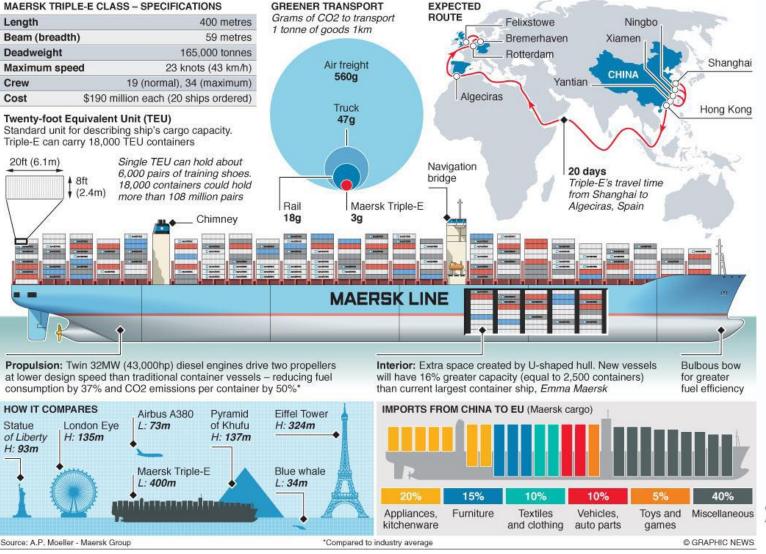


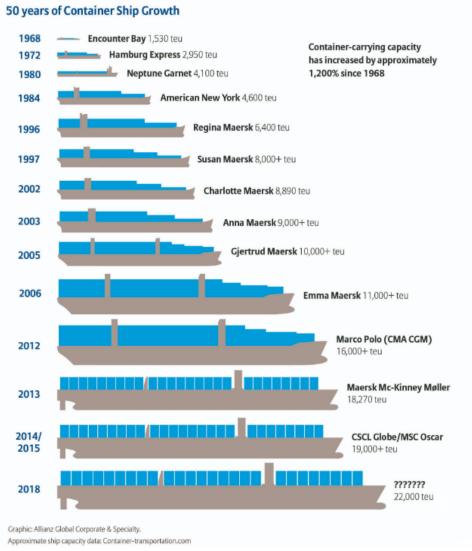




Maersk Triple-E to be world's largest and most efficient ship

Maersk's Triple-E is a new class of fuel-efficient container ships, designed for lower speeds and CO2 emissions. The Danish carrier's giant vessels break the current record for container ship capacity and are expected to be the world's largest ships in service



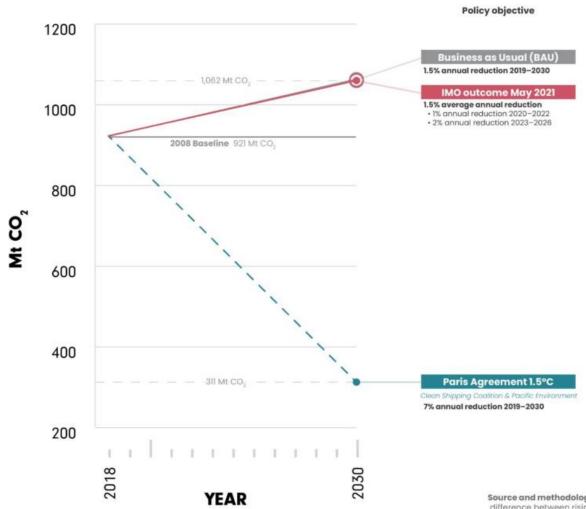


T&E: IMO emissions target falls short of needed reductions

INTERNATIONAL SHIPPING EMISSIONS TRAJECTORIES

2018-2030





NGOs have suggested this will allow shipping's current emissions of 1bn tonnes a year of CO2 to keep rising – by as much as 16% by 2030.

Source and methodology: Comer, Bryan. "Choose wisely: IMO's carbon intensity target could be the difference between rising or falling shipping emissions this decade." International Council on Clean Transportation, May 21, 2021, https://theicct.org/blog/staff/updated-imo-carbon-intensity-target-may2021

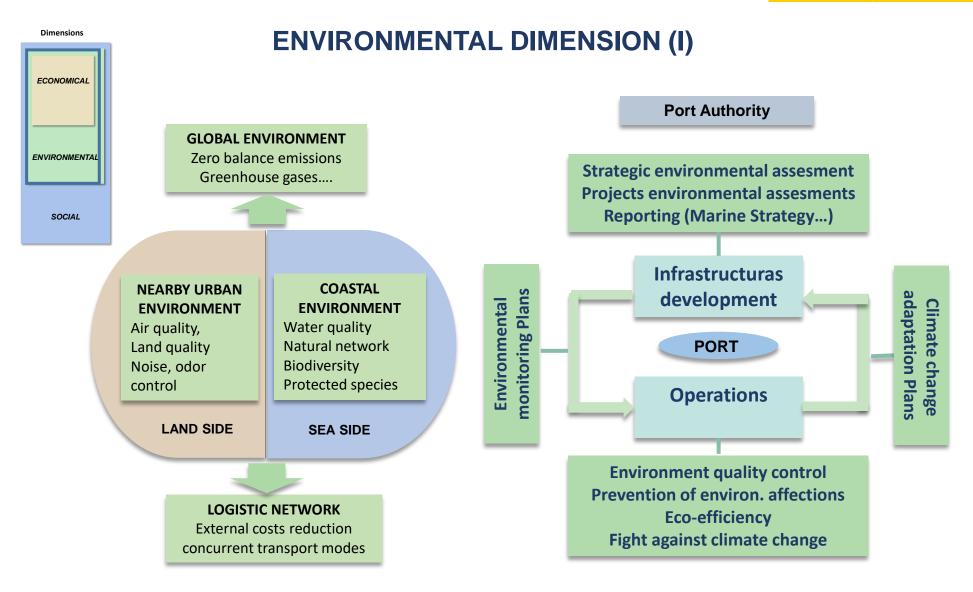




Dimensions	Criteria	Strategic lines
ECONOMICAL	Efficiency	Port Authorities economically sustainables
		Advanced Port land management
	Connectivity	Infrastructures oriented to demand, reliables and connected.
		Competitive services and efficient operations
		Monitoring and facilitating Port activity
	Digitization	Effective and simple administrative procedures
		Electronic Port Administration. Smart and syncromodal Ports
ENVIRONMENTAL	Innovation	Innovative Ports
		Ports with international projection
		Green Ports
	Sustainability	Eco-proactive Ports
		Ports committed to the city
SOCIAL	Security	Safe Ports
	Security	High quality and advanced AtoN
		Corporate ethics culture
	Transparency	Extension and improvement of human resources

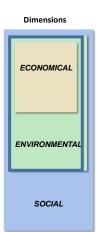












ENVIRONMENTAL DIMENSION (II)

GLOBAL ENVIRONMENT

Zero balance emissions Greenhouse gases....

NEARBY URBAN ENVIRONMENT

Air quality, Land quality Noise, odor control

LAND SIDE

COASTAL ENVIRONMENT

Water quality Natural network Biodiversity Protected species

SEA SIDE

Port Authority

Reactive attitude

Environmental policy and regulation fulfilment.
Limited actions preserving protected areas
Transfer of conditions to port community
Mistrust relationships with environmental bodies

Proactive attitude

Due diligence in environmental matters. EMAS certificate.

Complete environmental strategy. Eco-efficiency and green quality

Alignment of the entire port community.

Coordination and consensus with steakholders.

Active contribution against climate change

LOGISTIC NETWORK

External costs reduction on concurrent transport modes

Protection of the natural environment

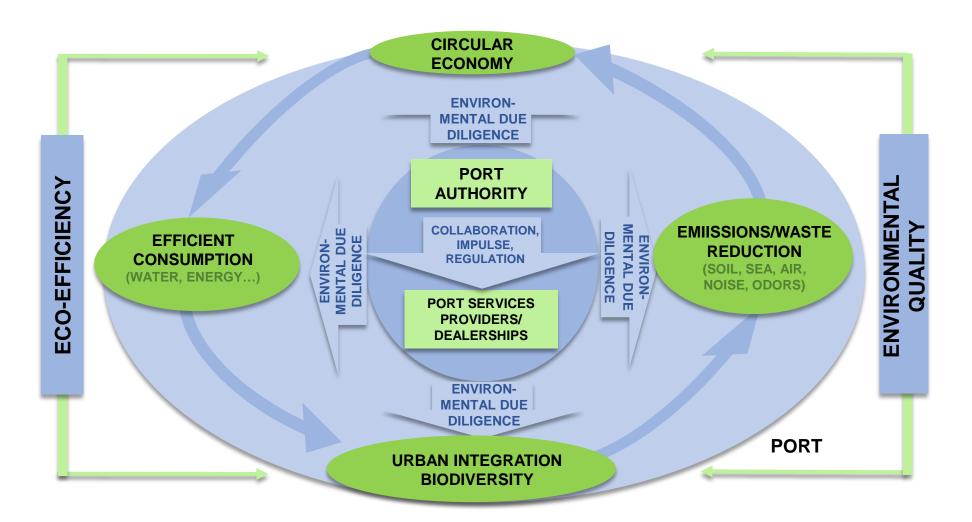
Eco-effficiency Renewable/ altern energy Waste control. ba

Zero balance GHG emmissions Face the climate emergency





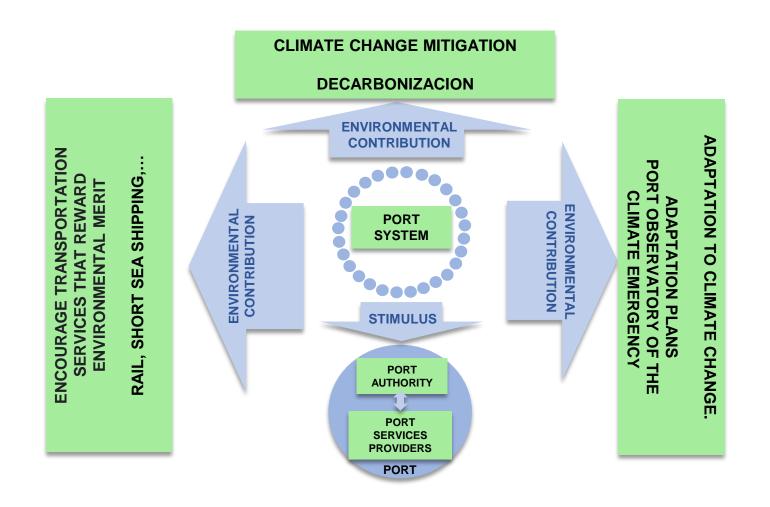
Strategic line 10: Green Ports







Strategic line 11: Eco-proactive ports







Strategic line 11: Eco-proactive ports

EU REGULATION. GREEN DEAL

PORTS SIDE

DIRECTIVE 2014/94 DEPLOYMENT ON ALTERNATIVE FUELS INFRASTRUCTURES

- Transposition 2016
- National policy frameworks since 2016
- Goals (LNG, electricity...)

MARITIME SIDE

DIRECTIVES 1999/32/EC - 2012/33 REGARDING SULPHUR CONTENT OF MARINE FUELS

SOx limits outside S/ECA:

- As from Jun 2014: 3,5% m/m
- As from Jan 2020: 0,5% m/m

FIT FOR 55 PACKAGE

NEW REGULATION FOR ALTERNATIVE FUELS INFRASTRUCTURES AND REPEALING 2014/94

- On going
- National policy frameworks reviewed
- New goals

FUEL EU MARITIME INITIATIVE

EU EMMISSIONS TRADE SYSTEM (ETS)
REGULATION FOR MARITIME TRANSPORT





Eco-proactive ports AN EXAMPLE: CORE LNGas hive

CORE LNGas hive



1st PHASE: LAUNCHING 2014-20

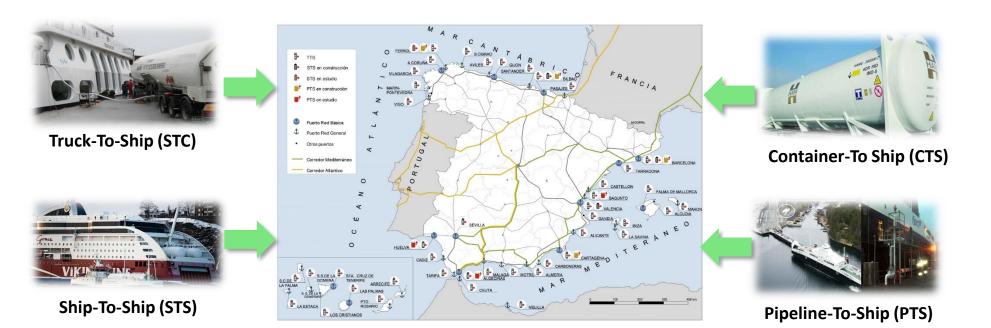
(33 M€ / 50% CEF-TEN-T) Studies, pilots, guidelines, training...



2nd PHASE: DEPLOYMENT 2019-30

(>300 M€ / 20% CEF-TEN-T)

- Vessels
- Port facilities

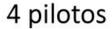


SC Tenerife: Anaga Basin

1 connection fast-ferries LV 2 connections ferries LV











New-vh berth: 1 connection HV







http://poweratberth.eu/?lang=es







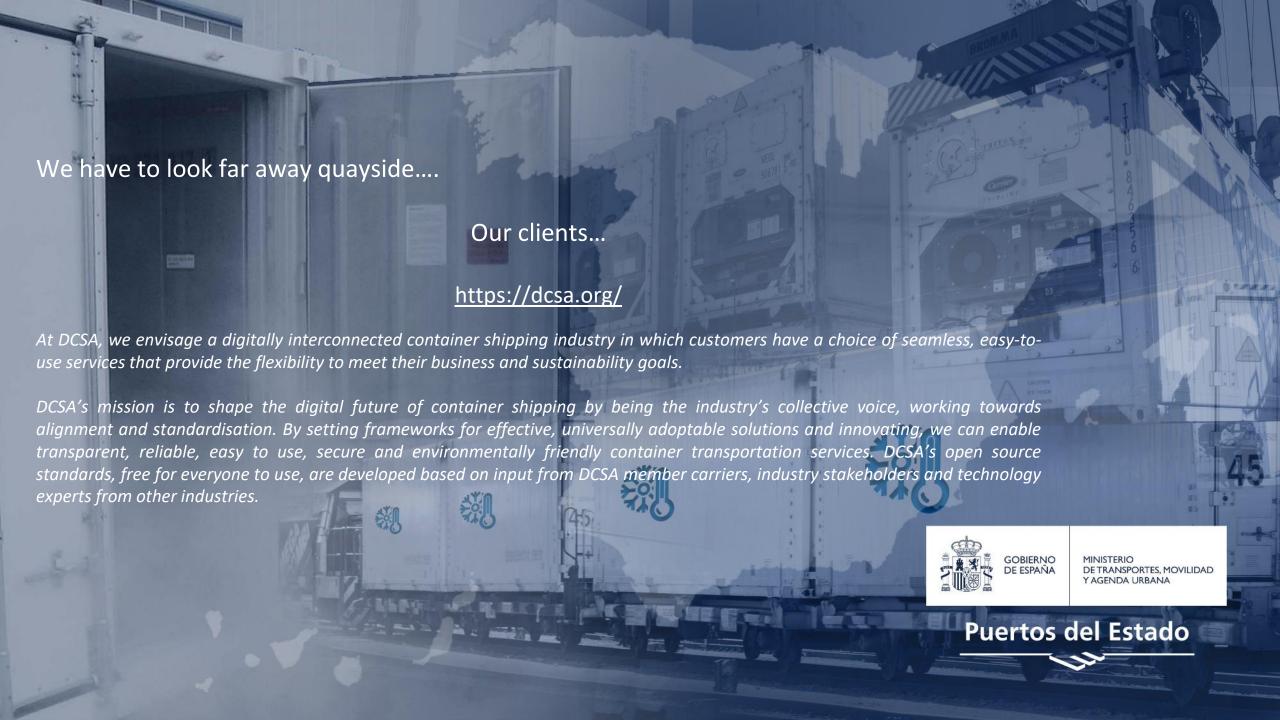
OPS BENEFITS

- 1. Avoid impacts of noise and vibration to population settled in the vicinity of berth/port
- 2.Remove local pollution affecting health and quality of life of said population
- 3.Cut down of C02 emissions therefore contributing to decarbonization of economy
- 4. (tbc) Become driver for facilitating other alternative fuels like hydrogen, methanol and ammonia
- 5.(expected) Bring electric power close to the waterfront where other activities takes place with same need of clean energy like electric cars and buses

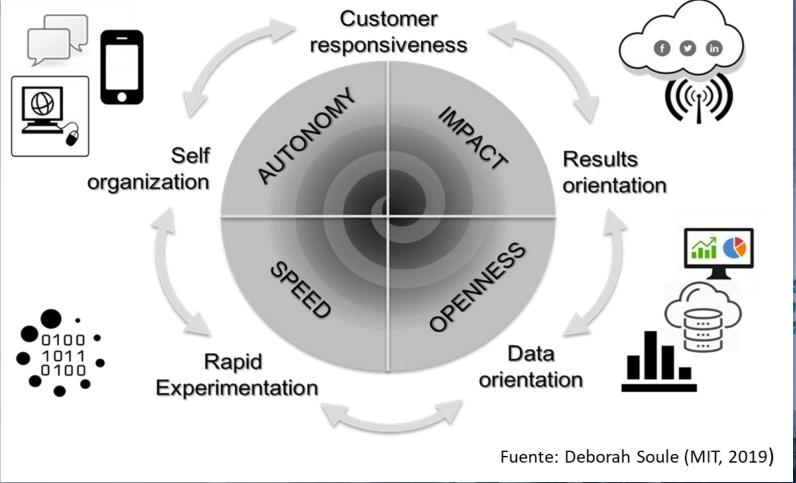














GOBIERNO DE ESPAÑA

MINISTERIO DE TRANSPORTES, MOVILIDAD Y AGENDA URBANA

Puertos del Estado



Mediterranean Ports and Shipping 2021 The Westin Valencia, Spain

TUESDAY 5 TO THURSDAY 7 OCTOBER 2021

MANY THANKS!

Mar Chao

Operations Director, Puertos del Estado



