



LOOP-Ports

Circular Economy Network of Ports

FINAL
CONFERENCE
Online

16th December 2020





ALMA MATER STUDIORUM
UNIVERSITA DI BOLOGNA



e INSTITUTO
DE ECONOMÍA
INTERNACIONAL
UNIVERSITAT DE VALÈNCIA



UH
Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

DTU
Technical University
of Denmark

ZEI **VEOLIA**

TNO innovation
for life



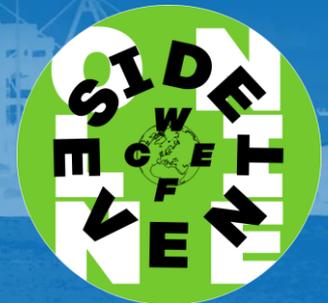
LOOP·Ports

Circular Economy Network of Ports

**FINAL
CONFERENCE**
Online
16th December 2020

F FUNDACIÓN
VALENCIAPORT

eit Climate-KIC
Climate-KIC is supported by the
EIT, a body of the European Union





ALMA MATER STUDIORUM
UNIVERSITÄT DI BOLOGNA



e INSTITUTO
DE ECONOMÍA
INTERNACIONAL
UNIVERSITAT DE VALÈNCIA



UH
Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

DTU
Technical University
of Denmark

ZEI **VEOLIA**

TNO innovation
for life



LOOP-Ports

Circular Economy Network of Ports

Álvaro Campos – Universidad Polit. Madrid

F FUNDACIÓN
VALENCIAPORT

eit Climate-KIC
Climate-KIC is supported by the
EU, a body of the European Union

**FINAL
CONFERENCE**
Online
16th December 2020





LOOP-Ports
Circular Economy Network of Ports



AGENDA

08:45 - 09:00	WELCOME AND CONNECTION TO THE PLENARY MEETING ROOM
09:00 - 09:45	OPENING SESSION
09:00 - 09:15	Welcome and presentation of New CE Action Plan - Emmanuelle Maire, Head of unit of Sustainable Production, Products and Consumption, DG Environment European Commission
09:15 - 09:25	World Ports Sustainability Program - Antonis Michail, International Association of Port and Harbors IAPH
09:25 - 09:35	LOOP-Ports Project Presentation - Rocío García, Fundación Valenciaport
09:35 - 09:45	A Systems innovation approach for a circular, inclusive, resilient, zero-carbon maritime sector - Maria Loloni, EIT Climate-KIC
09:45 - 10:45	PROJECT RESULTS (1ST PANEL)
09:45 - 10:05	Mapping of Ports and Circular Economy Indicators - Álvaro Campos, Universidad Politécnica de Madrid
10:05 - 10:25	Circular Economy initiatives from across Europe - Monika Elend, NTU International
10:25 - 10:45	Innovation Recommendations for the EU Port Sector - Tim McAloone, Technical University of Denmark
10:45 - 11:00	BREAK TIME
11:00 - 11:45	PROJECT RESULTS (2ND PANEL)
11:00 - 11:15	Circular Economy training for professionals in the port sector - Paola Valandro, EIT Climate-KIC
11:15 - 11:30	Workshops for a Network - Tiziana Campisi, University of Bologna & Fondazione Flaminia
11:30 - 11:45	Business Models in EU Ports - Jorge Lara, Fundación Valenciaport
11:45 - 12:00	CONCLUSIONS
11:45 - 12:00	Conclusions of the Project - Jorge Lara, coordination LOOP-Ports project, Fundación Valenciaport
12:00	END OF THE CONFERENCE





Circular Economy Network of Ports (LOOP-Ports)

Mapping of Ports and Circular Economy Indicators

Álvaro Campos

R&D researcher



POLITÉCNICA



1. INTRODUCTION AND OBJECTIVES



MAIN OBJECTIVE:

Development/analysis of a database with the information collected from EU Ports

Matrix based on:

- Selection of Ports
- Selection of Variables

Inclusion of the information in a web tool

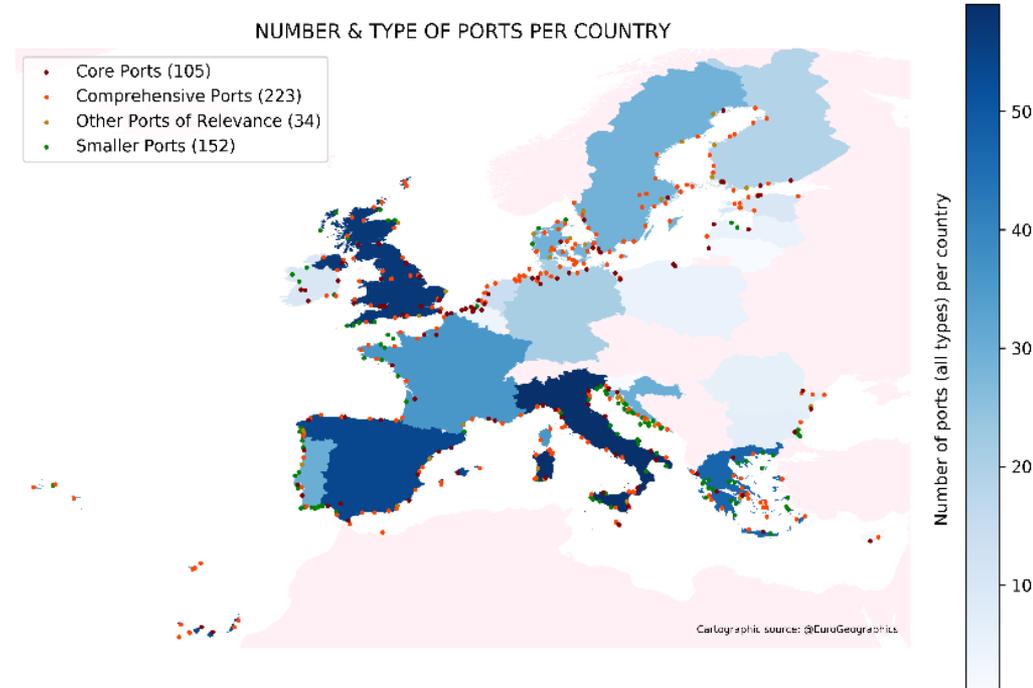
2. METHODOLOGY

STEP1: SELECTION OF PORTS

- Total of 480 main European Ports:
- All ports considered by the European Commission as **Core** (105 ports) and **Comprehensive** (223 ports)

(As part of the TEN-T network, are the hubs for main goods and passengers traffics inside and outside Europe)

- **Other Ports of Relevance** (34 ports), handling more than 1,000,000 tons per year or with a traffic higher than 1,000,000 passengers per year
- **Main Fishing Ports** (390 ports, from which 152 have been classified as **Smaller Ports** for not being core, comprehensive or other of relevance), with more than 100 fishing vessels registered, according to the Fleet Register of the European Union



2. METHODOLOGY

STEP2: SELECTION OF VARIABLES OF INTEREST

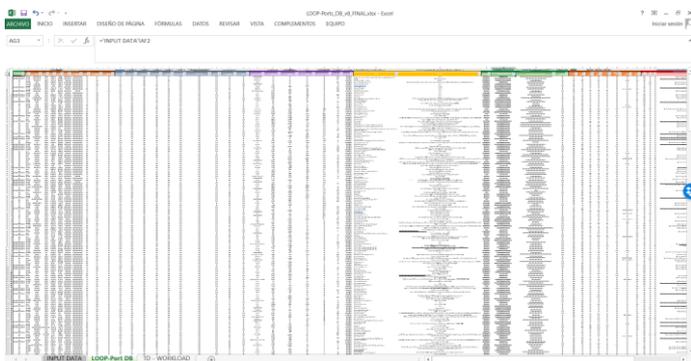


OVERALL CHARACTERISTICS	CARGO AND INDUSTRIAL SECTORS	STATISTICS	ENVIRONMENT
<ul style="list-style-type: none"> Country Port UN/LOCODE Latitude Longitude Sea/ocean Geographical area Core Port Comprehensive Port Other of Relevance 	<ul style="list-style-type: none"> Containerized traffic Dry bulk traffic General Cargo traffic Other liquid traffic Petroleum traffic Ro-Ro/Ro-Pax traffic Dry dock/Shipyards Cruise Traffic Fishing Traffic Enlargement expectations 	<ul style="list-style-type: none"> Eurostat name Nº inward calls GW handled Nº ferry pass. Nº cruise pass. Nº fishing ships Nº terminals 	<ul style="list-style-type: none"> ESPO members ECOPORTS members WPCI members ISO14001 certification PERS certification EMAS certification Env./sustainability report
PORT MANAGEMENT	CIRCULAR ECONOMY	ADDITIONAL INFORMATION	
<ul style="list-style-type: none"> Ownership Government model Management organism Level of digitalization 	<ul style="list-style-type: none"> National Regional Local Weblink 	<ul style="list-style-type: none"> Website Comments 	

2. METHODOLOGY

STEP3: DATABASE GENERATION AND QUALITY CHECK

1. Fill in Excel file



2. Store environmental/sustainable reports

Nombre	Fecha de modifica...	Tipo	Nombre	Fecha de modifica...	Tipo	Tamaño
Belgium	20/12/2018 14:40	Carpeta de archivos	ES_SustReport_Country.pdf	18/12/2018 12:27	Adobe Acrobat D...	5.099 KB
Bulgaria	11/12/2018 13:26	Carpeta de archivos	ESALG_EnvReport2017_ALGECIRAS.pdf	09/12/2018 16:38	Adobe Acrobat D...	36.966 KB
Croatia	11/12/2018 13:26	Carpeta de archivos	ESAN_EnvReport2017_AJULES.pdf	10/12/2018 18:39	Adobe Acrobat D...	1.233 KB
Cyprus	11/12/2018 13:26	Carpeta de archivos	ESBNC_EnvReport2017_BARCELONA.pdf	10/12/2018 14:08	Adobe Acrobat D...	3.740 KB
Denmark	11/12/2018 13:27	Carpeta de archivos	ESBRO_EnvReport2017_BUBAD.pdf	18/12/2018 14:25	Adobe Acrobat D...	5.668 KB
Estonia	11/12/2018 13:27	Carpeta de archivos	ESCAL_EnvReport2017_CARRADREDA.pdf	10/12/2018 16:53	Adobe Acrobat D...	8.291 KB
Finland	13/12/2018 16:43	Carpeta de archivos	ESCAL_EnvReport2017_CASTELLON.pdf	10/12/2018 16:45	Adobe Acrobat D...	12.110 KB
France	11/12/2018 13:27	Carpeta de archivos	ESCEU_EnvReport2014_CEUFA.pdf	19/12/2018 16:35	Adobe Acrobat D...	25.614 KB
Germany	11/12/2018 13:27	Carpeta de archivos	ESFRD_EnvReport2016_GIRONA-CBRAO...	18/12/2018 13:31	Adobe Acrobat D...	108.181 KB
Greece	11/12/2018 13:24	Carpeta de archivos	ESGL_EnvReport2016_GIRONA.pdf	20/12/2018 19:07	Adobe Acrobat D...	5.001 KB
Ireland	14/12/2018 20:42	Carpeta de archivos	ESHAN_EnvReport2016_HUESA.pdf	21/12/2018 14:17	Adobe Acrobat D...	10.180 KB
Italy	10/01/2019 20:27	Carpeta de archivos	ESLSC_EnvReport2016_ACORUNA.pdf	09/12/2018 16:32	Adobe Acrobat D...	9.621 KB
Latvia	11/12/2018 13:28	Carpeta de archivos	ESLSE_EnvReport2017_ALMERIA-CARBON...	09/12/2018 17:39	Adobe Acrobat D...	25.621 KB
Lithuania	11/12/2018 13:28	Carpeta de archivos	ESLSE_EnvReport2017_ALMERIA-CARBON...	09/12/2018 17:36	Adobe Acrobat D...	1.468 KB
Malta	11/12/2018 13:28	Carpeta de archivos	ESMAN_EnvReport2017_MIELLA_1.pdf	21/12/2018 02:22	Adobe Acrobat D...	10.704 KB
Netherlands	20/12/2018 14:39	Carpeta de archivos	ESMAN_EnvReport2017_MIELLA_2.pdf	21/12/2018 02:26	Adobe Acrobat D...	45.924 KB
Poland	20/12/2018 14:39	Carpeta de archivos	ESMPO_EnvReport2017_MORRA.pdf	21/12/2018 02:05	Adobe Acrobat D...	19.822 KB
Portugal	11/12/2018 13:29	Carpeta de archivos	ESMPO_EnvReport2016_MARRA.pdf	21/12/2018 01:44	Adobe Acrobat D...	4.136 KB
Romania	11/12/2018 13:29	Carpeta de archivos	ESPAE_EnvReport2017_BIAMA-BIEMA-RO...	20/12/2018 21:48	Adobe Acrobat D...	4.175 KB
Slovenia	20/12/2018 14:40	Carpeta de archivos	ESSTC_EnvReport2016_TENERIFE-ESTAC...	18/12/2018 14:39	Adobe Acrobat D...	72.034 KB
Spain	21/12/2018 14:37	Carpeta de archivos	ESVGO_EnvReport2014_SEVILLA.pdf	18/12/2018 13:40	Adobe Acrobat D...	5.475 KB
Sweden	11/12/2018 13:29	Carpeta de archivos	ESVGO_EnvReport2017_VIGO_1.pdf	18/12/2018 13:22	Adobe Acrobat D...	8.679 KB
United Kingdom	11/12/2018 13:29	Carpeta de archivos	ESVGO_EnvReport2017_VIGO_2.pdf	18/12/2018 13:23	Adobe Acrobat D...	10.960 KB
			ESVIC_EnvReport2016_VALENCIA-SAGU...	18/12/2018 13:42	Adobe Acrobat D...	8.126 KB

3. Quality check

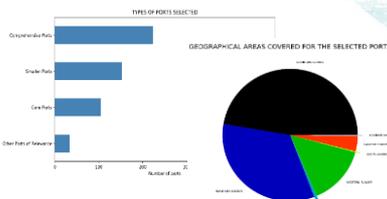
- ✓ Checking that there are not blanks and that the “not available” fields are normalized with the symbol “N/A”.
- ✓ Checking and reviewing that the classifications and numerical values are in line with the references and expectations.
- ✓ Checking the uniqueness of a “core port”, “comprehensive port” or “other of relevance”.
- ✓ Checking that ports classified as “other of relevance” have indeed more than 1 million passengers per year or more than 1 million GT of handled goods.
- ✓ Checking that, when a certain traffic with associated statistics is marked with “YES” (i.e. Cruise Traffic, Fishing Traffic or any kind of goods traffic), there are indeed statistics associated and vice versa. Also checking the contrary, that is, when a certain traffic with associated statistics is marked with “NO”, the statistics are indeed 0 and vice versa. Due to the lacking of available information, in a few cases there are ports with certain traffics identified but with statistical information classified as “N/A”. Notice that, in the study and generation of results, all the statistics marked as “N/A” are considered as 0.
- ✓ Checking that ports with EMAS certification have indeed an available annual environmental/sustainable report, as it is part of the requisites for this certification.
- ✓ Checking that all the ports with an environmental/sustainable report have indeed an available document in the shared folder and vice versa.

2. METHODOLOGY

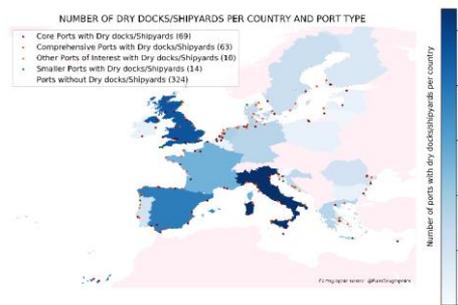
STEP4: DATABASE ANALYSIS



- Sectors/bar diagrams →



- Geo-referenced maps →

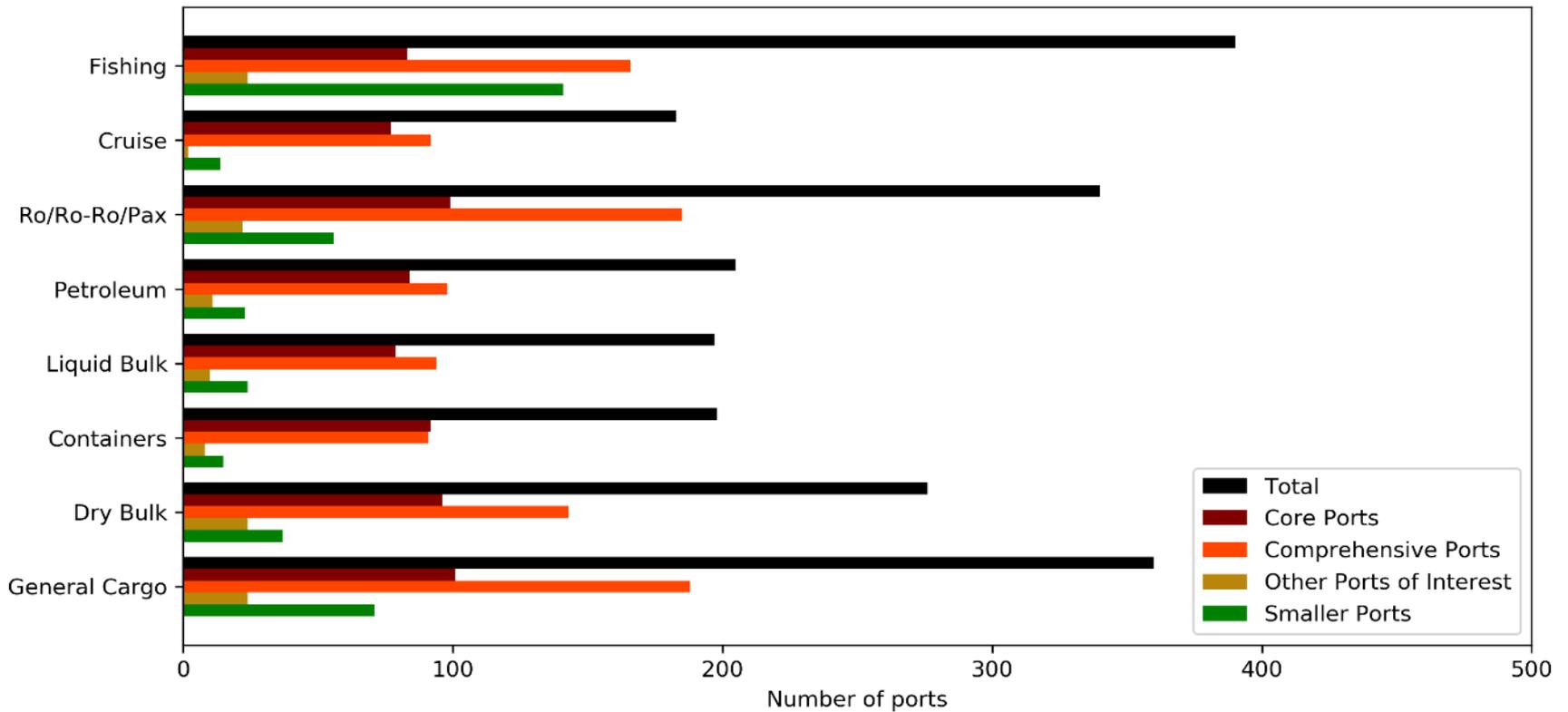


- Suitability of ports to implement CE initiatives →



3. RESULTS

TYPES OF TRAFFICS



3. RESULTS

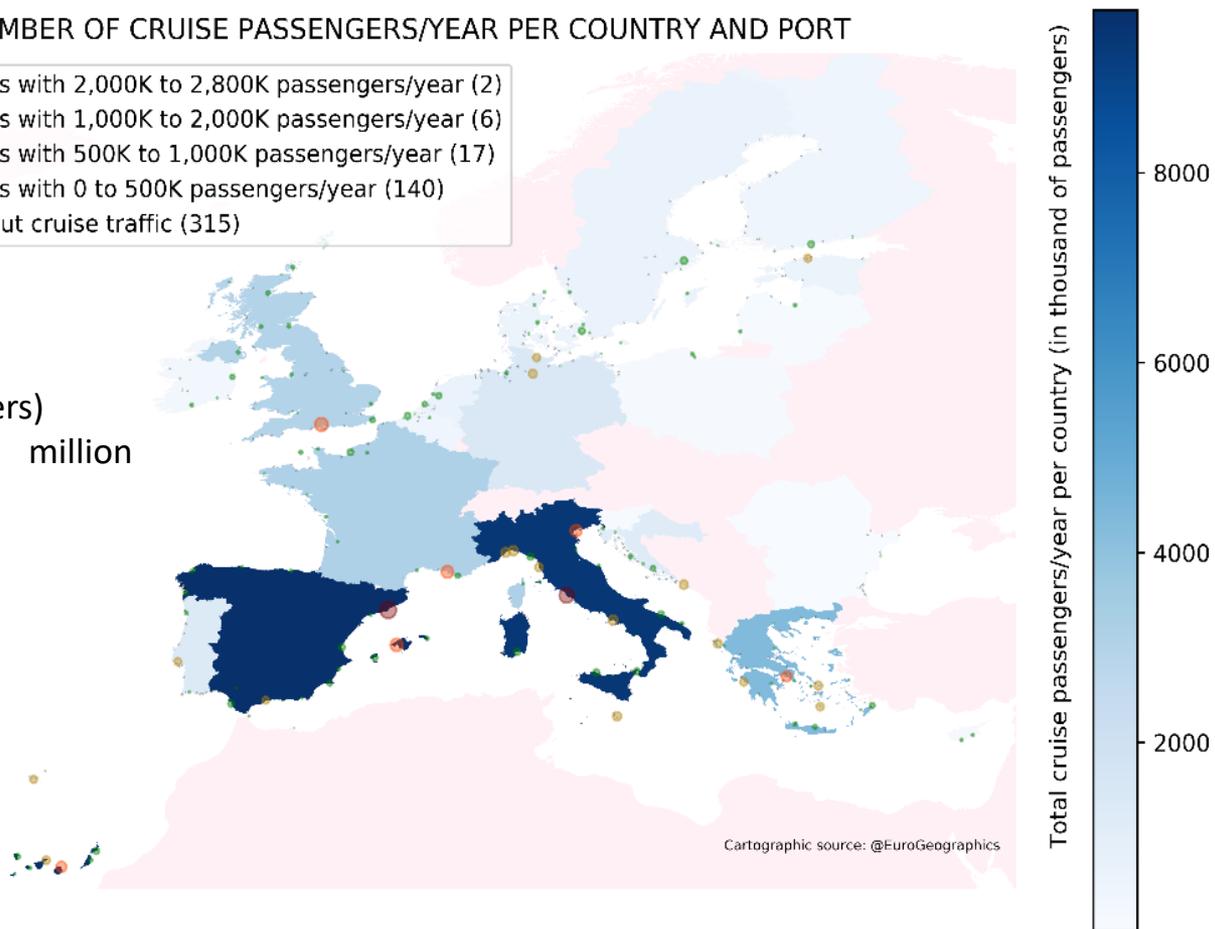
CRUISE PASSENGERS

NUMBER OF CRUISE PASSENGERS/YEAR PER COUNTRY AND PORT

- Cruise ports with 2,000K to 2,800K passengers/year (2)
- Cruise ports with 1,000K to 2,000K passengers/year (6)
- Cruise ports with 500K to 1,000K passengers/year (17)
- Cruise ports with 0 to 500K passengers/year (140)
- Ports without cruise traffic (315)

Busiest cruise ports:

- Barcelona (2.7 million passengers)
- Civitavecchia (2.2 million passengers)
- Others with more than 1 million passengers:
 - Southampton
 - Palma de Mallorca
 - Marseille
 - Venetia
 - Las Palmas
 - Piraeus



3. RESULTS

FERRY PASSENGERS



NATIONAL & PORTS NUMBER OF EMBARKED/DISEMBARKED PASSENGERS PER YEAR

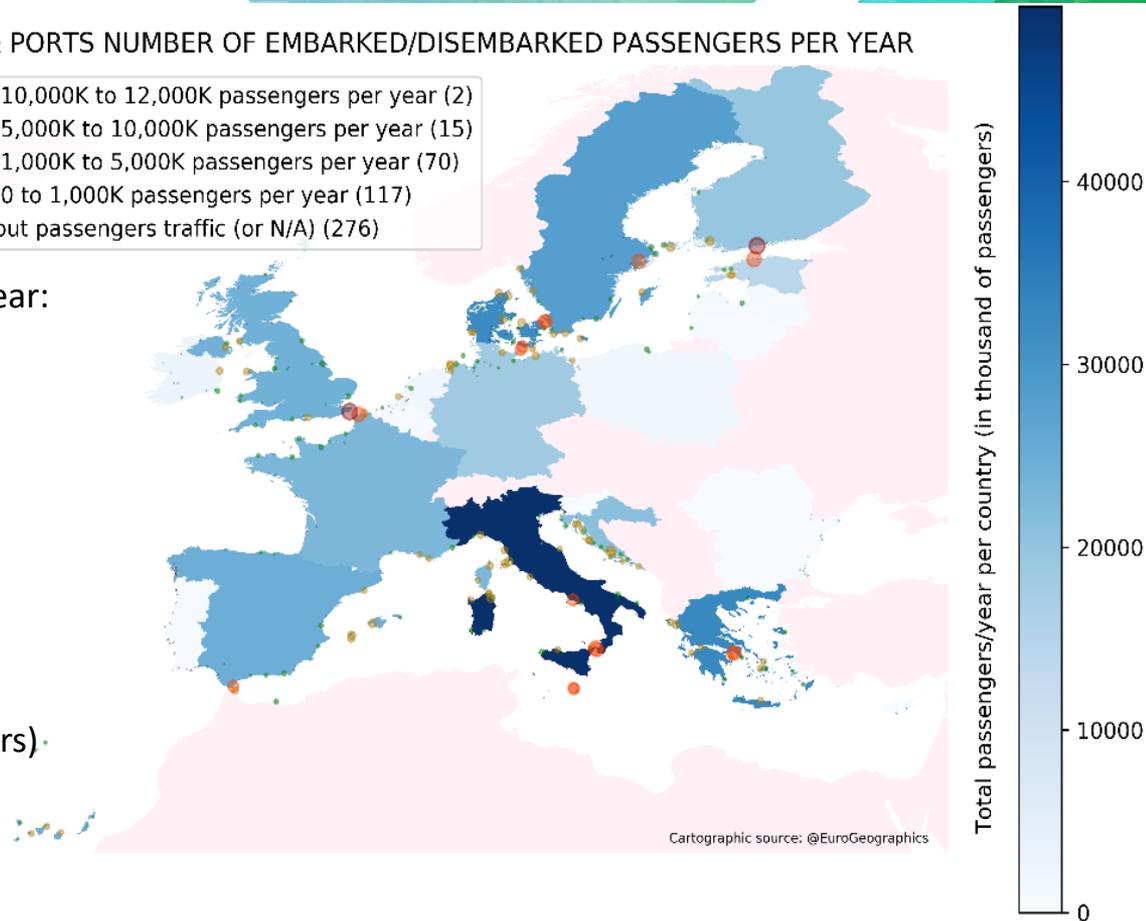
- Ports with 10,000K to 12,000K passengers per year (2)
- Ports with 5,000K to 10,000K passengers per year (15)
- Ports with 1,000K to 5,000K passengers per year (70)
- Ports with 0 to 1,000K passengers per year (117)
- Ports without passengers traffic (or N/A) (276)

8 ferry routes moving 5-10 million pass./year:

- Dover-Calais
- Helsinki-Tallinn
- Messina-Reggio di Calabria
- Helsingborg-Helsingor
- Perama-Salamina
- Puttgarden-Rodby
- Cirkewwa-Mgarr
- Algeciras-North Africa

Busiest port:

- Piraeus + Perama (14 million passengers)



3. RESULTS

TONS HANDLED PER YEAR



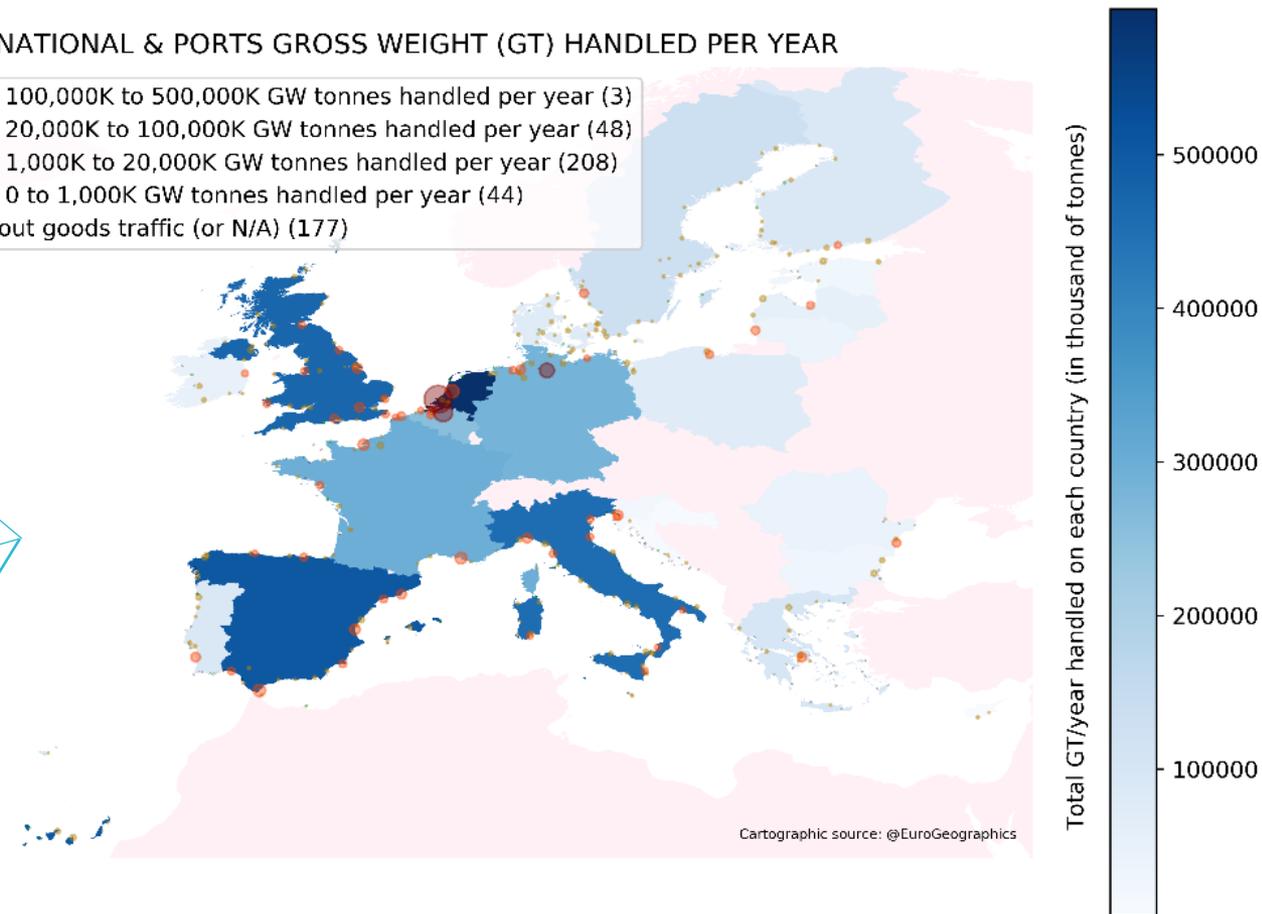
NATIONAL & PORTS GROSS WEIGHT (GT) HANDLED PER YEAR

- Ports with 100,000K to 500,000K GW tonnes handled per year (3)
- Ports with 20,000K to 100,000K GW tonnes handled per year (48)
- Ports with 1,000K to 20,000K GW tonnes handled per year (208)
- Ports with 0 to 1,000K GW tonnes handled per year (44)
- Ports without goods traffic (or N/A) (177)

Ports with more tons handled:

- Rotterdam (433,290,000)
- Antwerpen (201,202,000)
- Hamburg (118,761,000)
- Amsterdam (98,517,000)
- Algeciras (83,493,000)

20% of all the considered GW



3. RESULTS

NUMBER OF TERMINALS

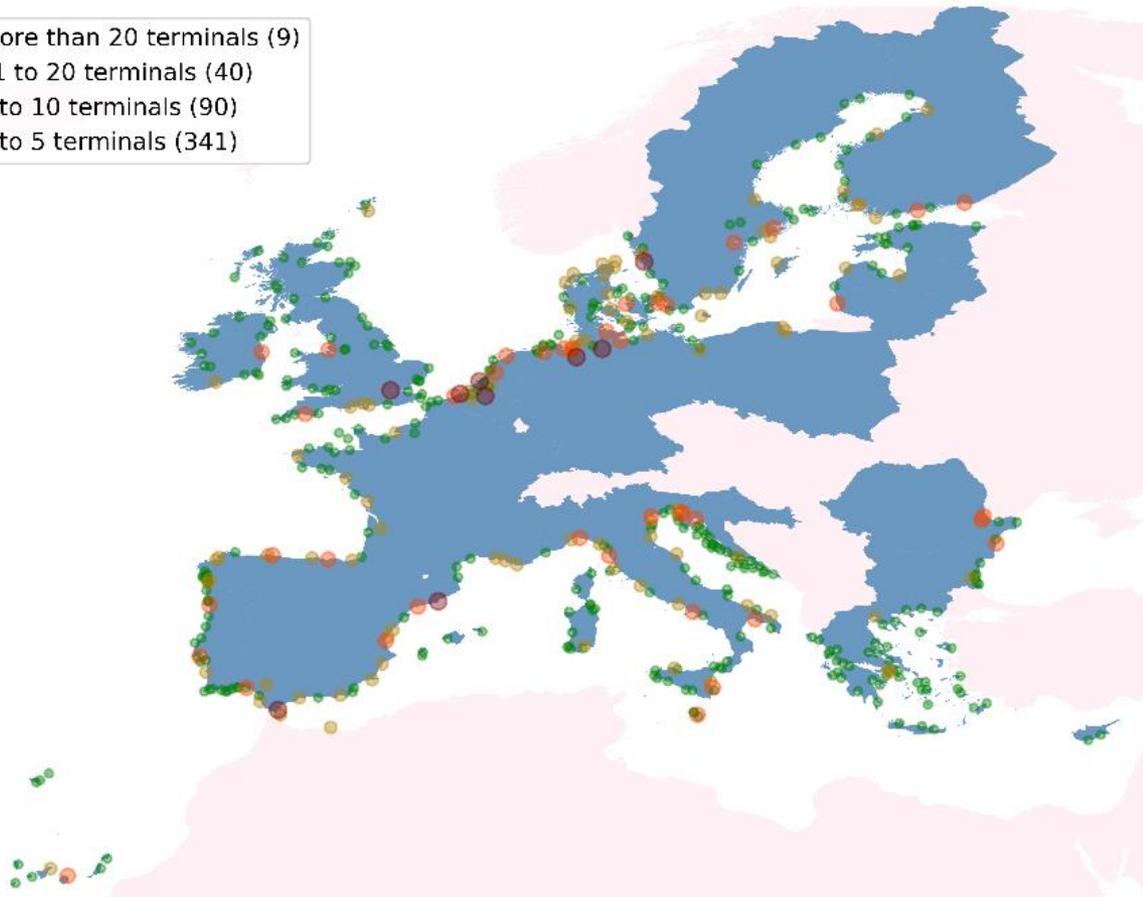


NUMBER OF TERMINALS PER PORT

- Ports with more than 20 terminals (9)
- Ports with 11 to 20 terminals (40)
- Ports with 6 to 10 terminals (90)
- Ports with 1 to 5 terminals (341)

Ports with more than 20 terminals:

- Sweden: Gothenburg
- UK: London
- Germany: Hamburg, Bremen
- Netherland: Rotterdam
- Belgium: Antwerp, Zeebrugge
- Spain: Algeciras, Barcelona



3. RESULTS

NUMBER OF FISHING VESSELS



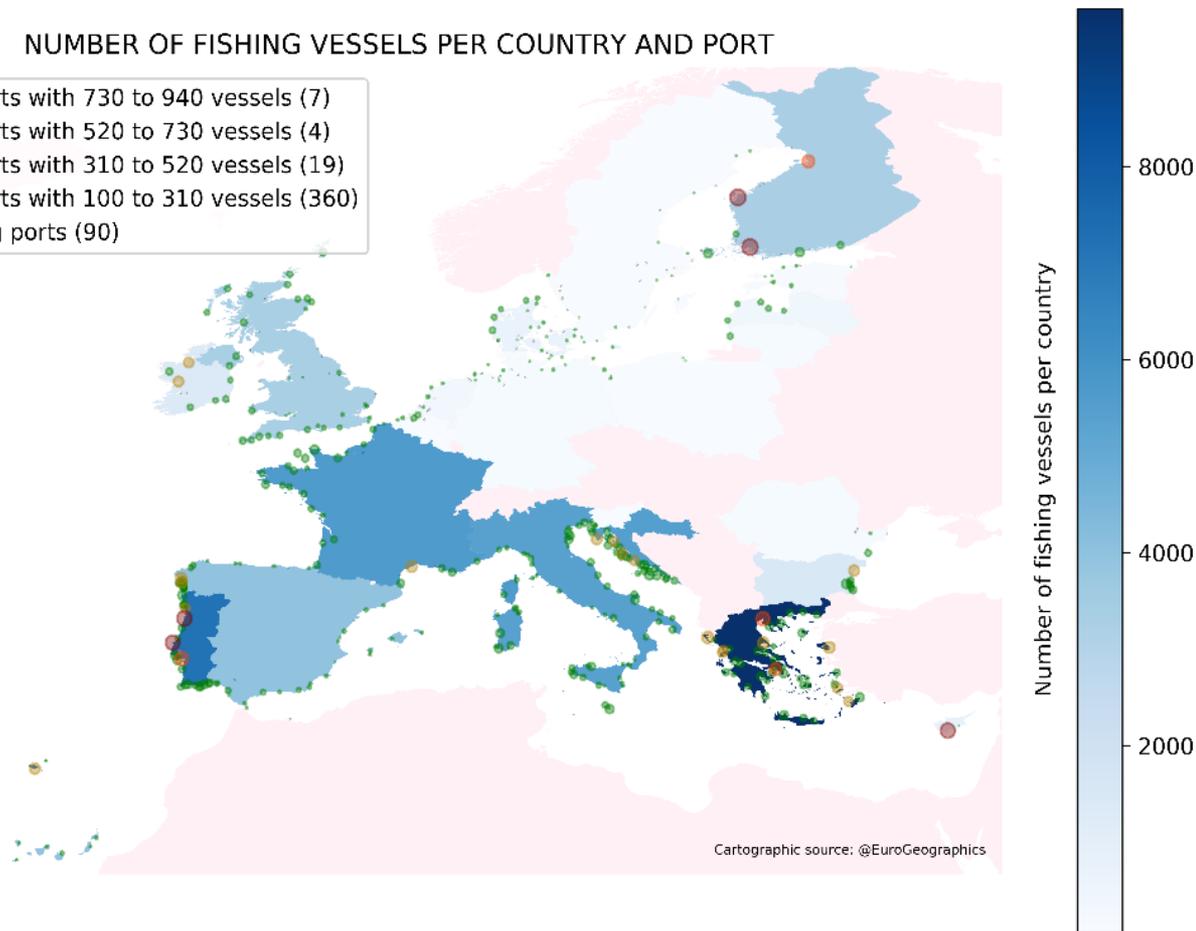
NUMBER OF FISHING VESSELS PER COUNTRY AND PORT



Ports with more fishing vessels:

- Vaasa (943)
- Turku (933)
- Fort de France (904)
- Aveiro (839)
- Limassol (805)
- Peniche (765)
- Point á Pitre (741)

Greece + Portugal gather 1/3 of the total number of fishing vessels in the database



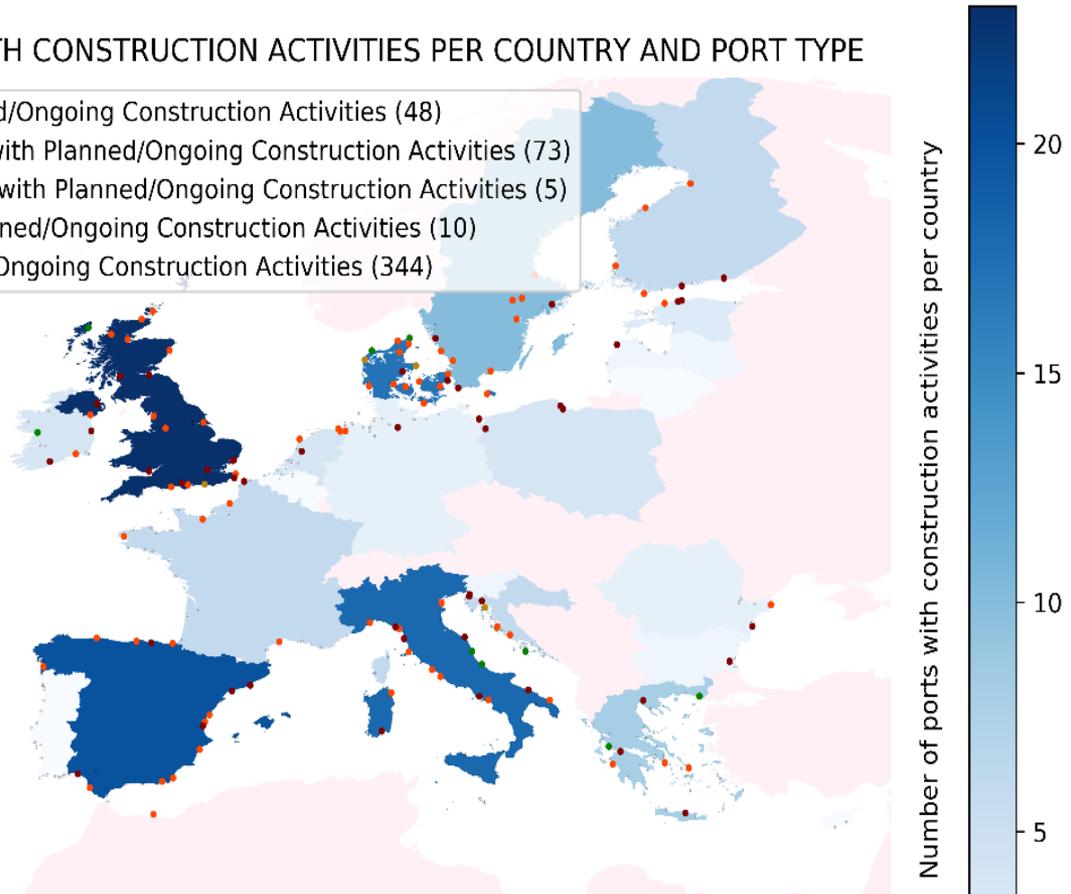
3. RESULTS

CONSTRUCTION & DREDGING ACTIVITIES



NUMBER OF PORTS WITH CONSTRUCTION ACTIVITIES PER COUNTRY AND PORT TYPE

- Core Ports with Planned/Ongoing Construction Activities (48)
- Comprehensive Ports with Planned/Ongoing Construction Activities (73)
- Other Ports of Interest with Planned/Ongoing Construction Activities (5)
- Smaller Ports with Planned/Ongoing Construction Activities (10)
- Ports without Planned/Ongoing Construction Activities (344)



Ongoing/planned construction and dredging activities:

- 46% of core ports
- 33% of comprehensive ports
- 15% of other ports of relevance
- 6% of smaller ports

3. RESULTS

DRY DOCKS/ SHIPYARDS

Dry docks/shipyards:

- 66% of core ports
- 29% of comprehensive ports
- 28% of other ports of relevance
- 9% of smaller ports

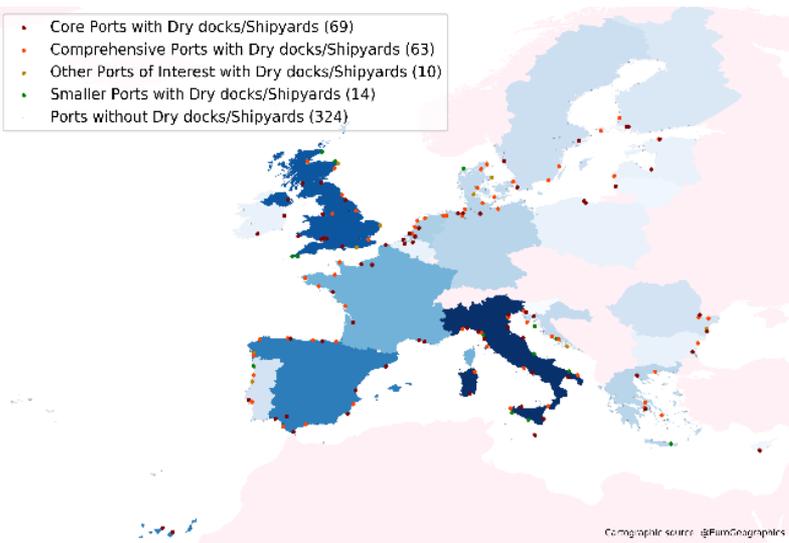
Dry docks/shipyards + Contenerized traffic:

- **60% of core ports**
- 14% of comprehensive ports
- 0% of other ports of relevance
- 0% of smaller ports

Possible hubs for CE activities regarding metal flows

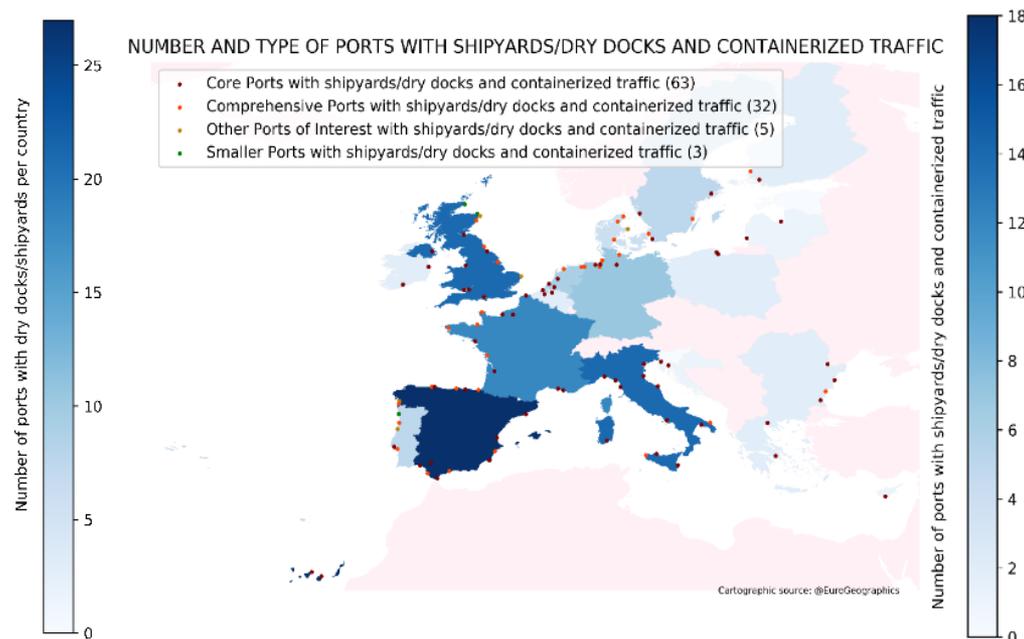
NUMBER OF DRY DOCKS/SHIPYARDS PER COUNTRY AND PORT TYPE

- Core Ports with Dry docks/Shipyards (69)
- Comprehensive Ports with Dry docks/Shipyards (63)
- Other Ports of Interest with Dry docks/Shipyards (10)
- Smaller Ports with Dry docks/Shipyards (14)
- Ports without Dry docks/Shipyards (324)



NUMBER AND TYPE OF PORTS WITH SHIPYARDS/DRY DOCKS AND CONTAINERIZED TRAFFIC

- Core Ports with shipyards/dry docks and containerized traffic (63)
- Comprehensive Ports with shipyards/dry docks and containerized traffic (32)
- Other Ports of Interest with shipyards/dry docks and containerized traffic (5)
- Smaller Ports with shipyards/dry docks and containerized traffic (3)

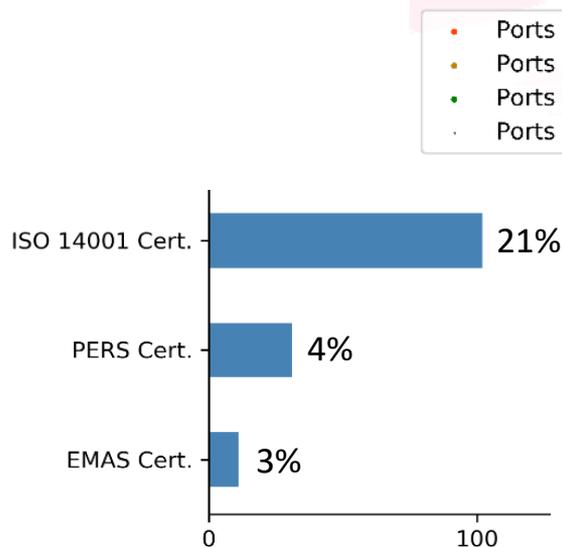


3. RESULTS

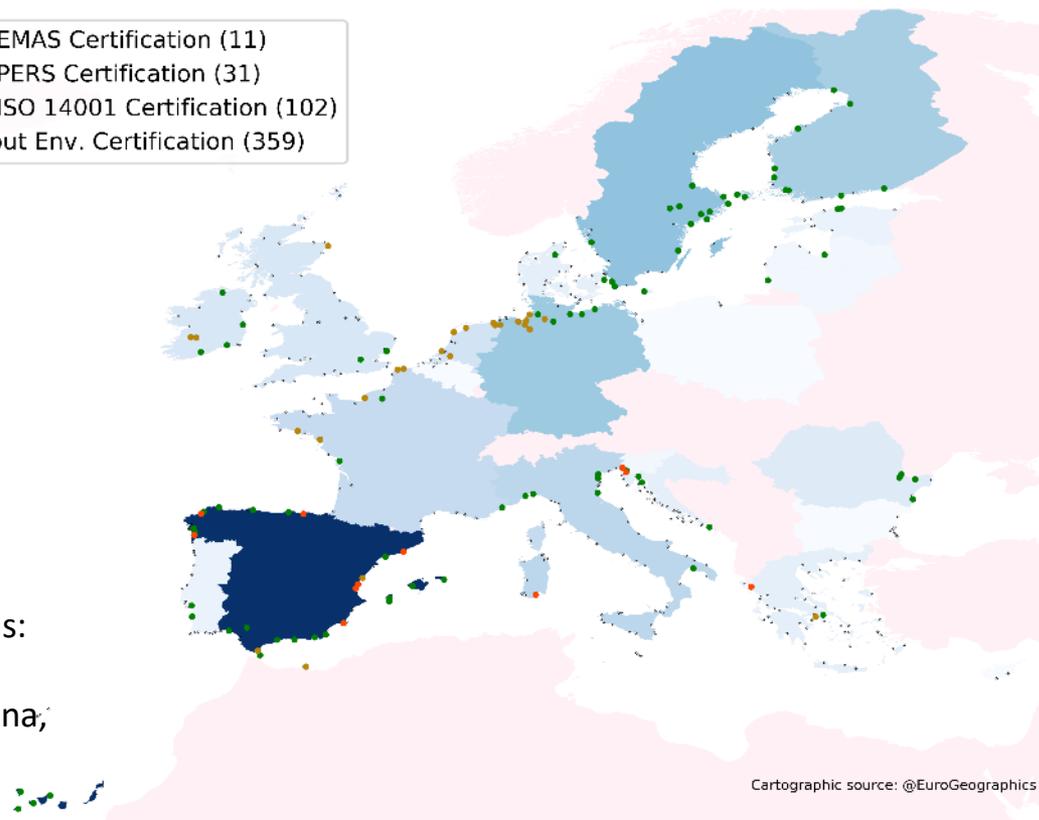
ENVIRONMENTAL CERTIFICATIONS



NUMBER OF PORTS WITH ENVIRONMENTAL CERTIFICATION



- Ports with EMAS Certification (11)
- Ports with PERS Certification (31)
- Ports with ISO 14001 Certification (102)
- Ports without Env. Certification (359)



There are 6 ports with all 3 certifications:

- 1 Greek port: Igoumenitsa
- 5 Spanish ports: Barcelona, Cartagena, Sagunto, Valencia and Vigo

3. RESULTS

PUBLIC ENVIRONMENTAL/ SUSTAINABILITY REPORTS

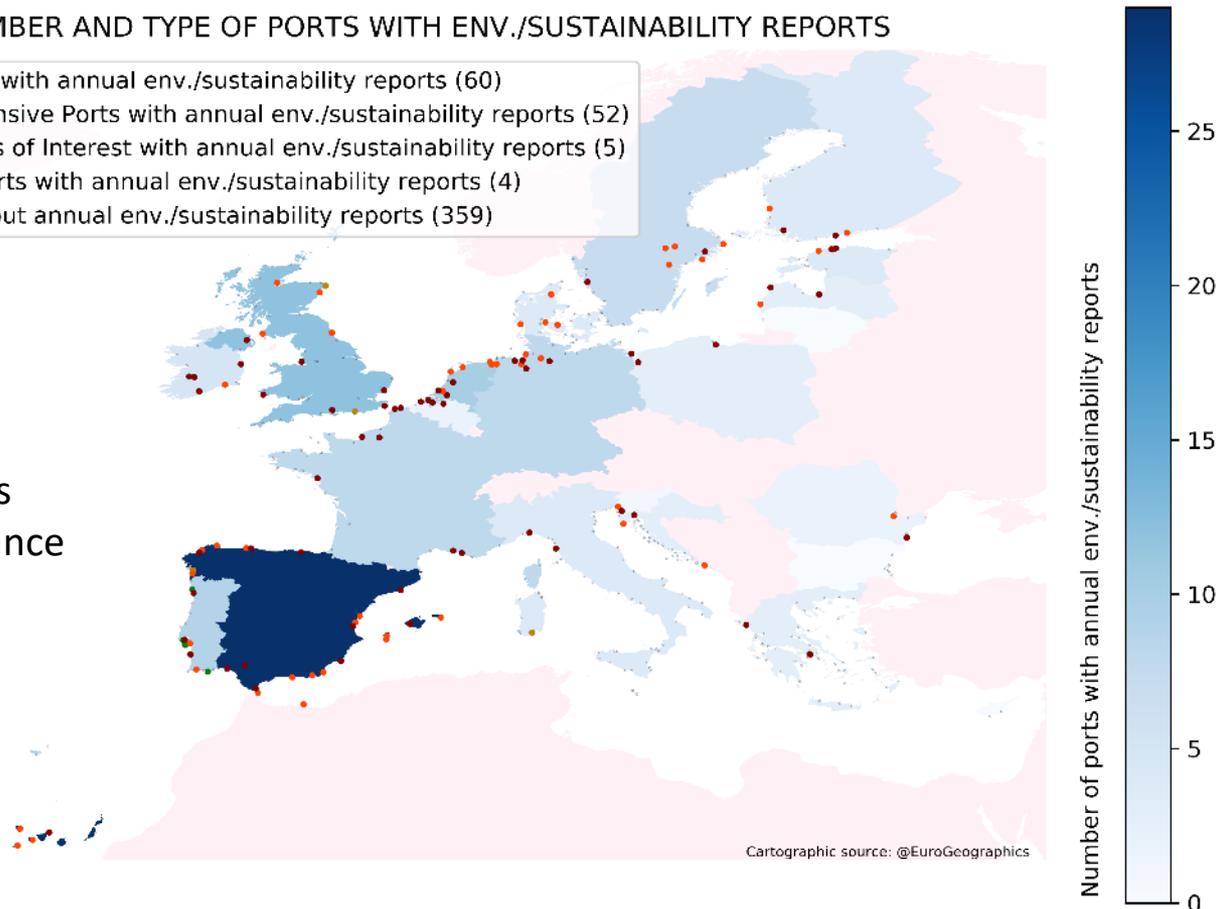


NUMBER AND TYPE OF PORTS WITH ENV./SUSTAINABILITY REPORTS

- Core Ports with annual env./sustainability reports (60)
- Comprehensive Ports with annual env./sustainability reports (52)
- Other Ports of Interest with annual env./sustainability reports (5)
- Smaller Ports with annual env./sustainability reports (4)
- Ports without annual env./sustainability reports (359)

Found in 25% of the ports:

- 57% of core ports
- 23% of comprehensive ports
- 15% of other ports of relevance
- 3% of smaller ports



3. RESULTS

NETWORKS: ESPO

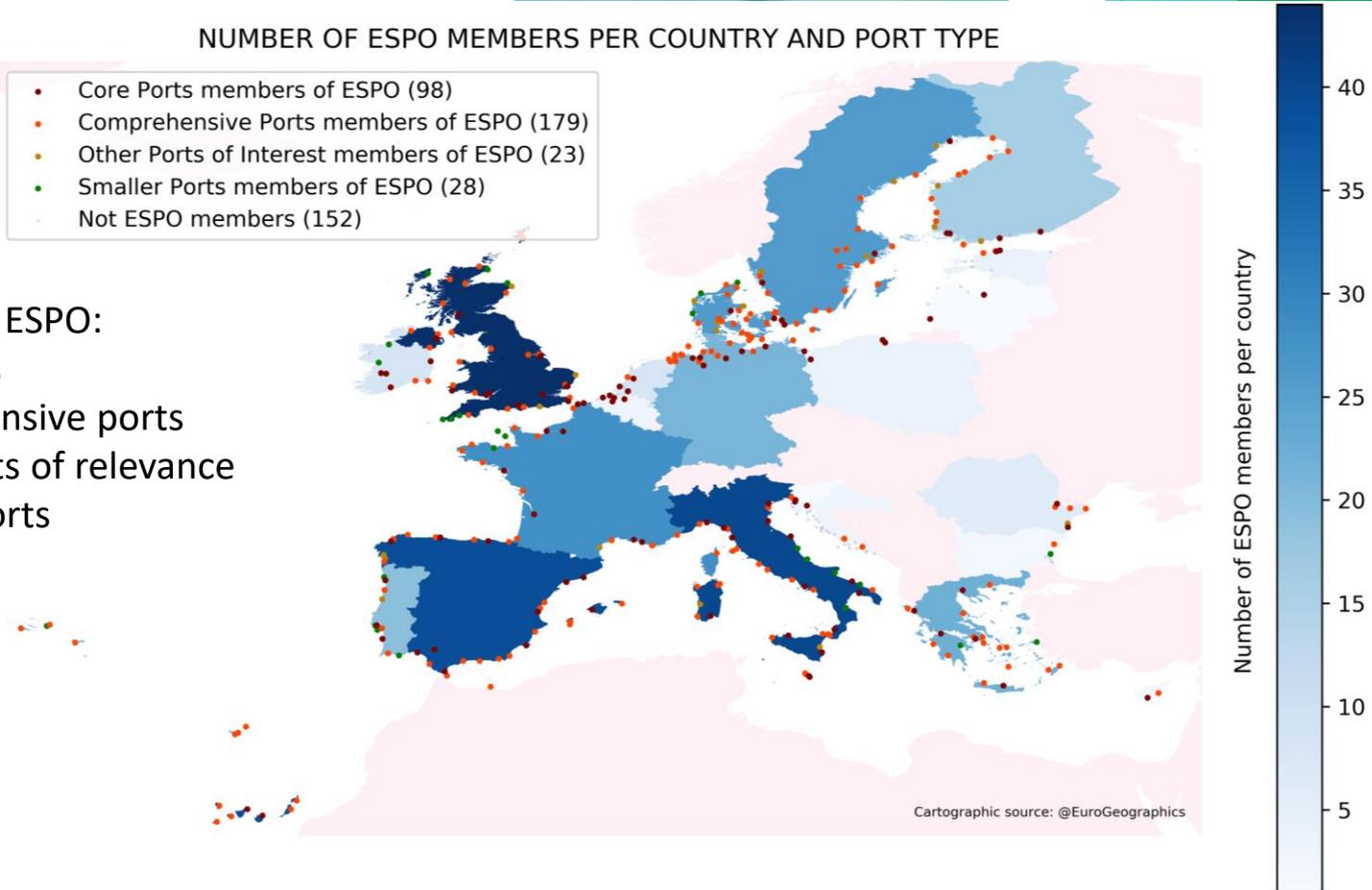


NUMBER OF ESPO MEMBERS PER COUNTRY AND PORT TYPE

- Core Ports members of ESPO (98)
- Comprehensive Ports members of ESPO (179)
- Other Ports of Interest members of ESPO (23)
- Smaller Ports members of ESPO (28)
- Not ESPO members (152)

68% are members of ESPO:

- 93% of core ports
- 80% of comprehensive ports
- 68% of other ports of relevance
- 18% of smaller ports



3. RESULTS

NETWORKS: ECOPORTS - WPCI

39% are members of ECOPORTS:

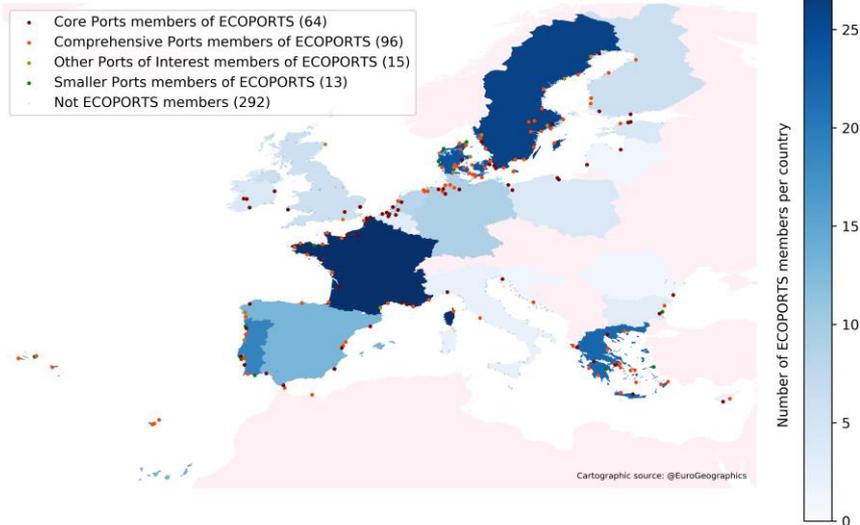
- 64% of core ports
- 43% of comprehensive ports
- 44% of other ports of relevance
- 9% of smaller ports

8% are members of WPCI:

- 27% of core ports
- 4% of comprehensive ports
- 3% of other ports of relevance
- 0% of smaller ports

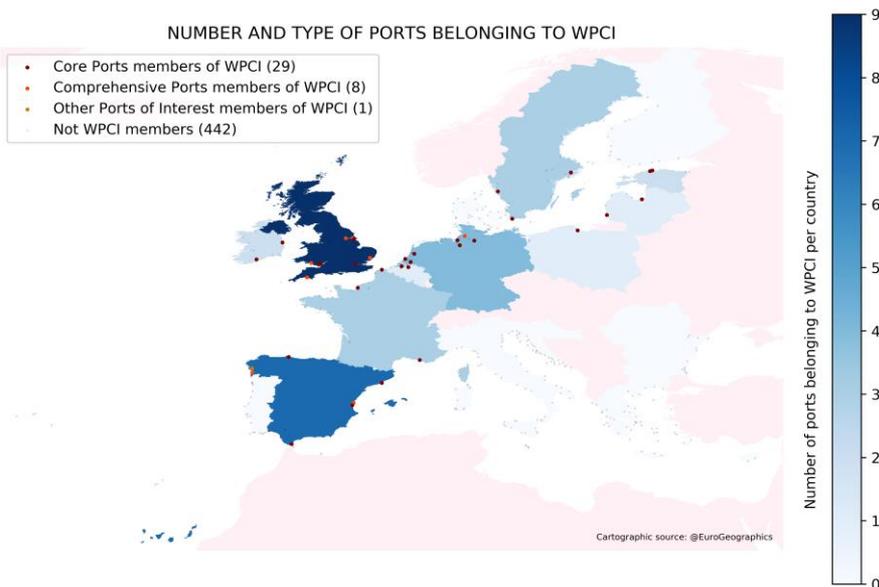
NUMBER OF ECOPORTS MEMBERS PER COUNTRY AND PORT TYPE

- Core Ports members of ECOPORTS (64)
- Comprehensive Ports members of ECOPORTS (96)
- Other Ports of Interest members of ECOPORTS (15)
- Smaller Ports members of ECOPORTS (13)
- Not ECOPORTS members (292)



NUMBER AND TYPE OF PORTS BELONGING TO WPCI

- Core Ports members of WPCI (29)
- Comprehensive Ports members of WPCI (8)
- Other Ports of Interest members of WPCI (1)
- Not WPCI members (442)



3. RESULTS

PORT SUSTAINABILITY INDICATORS

Circular economy monitoring framework

1 EU self-sufficiency for raw materials

The share of a selection of key materials (including critical raw materials) used in the EU that are produced within the EU

2 Green public procurement

The share of major public procurements in the EU that include environmental requirements

3a-c Waste generation

Generation of municipal waste per capita; total waste generation (excluding major mineral waste) per GDP unit and in relation to domestic material consumption

4 Food waste

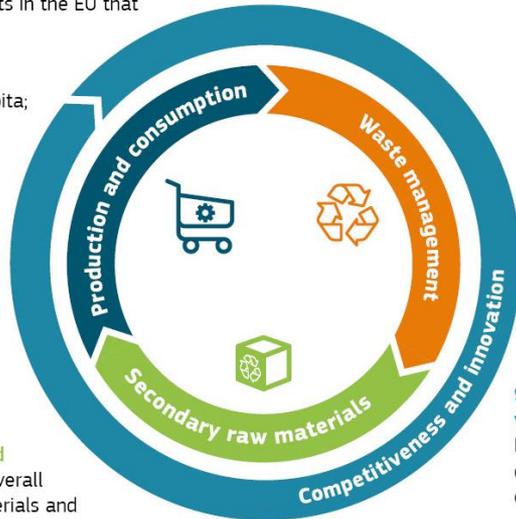
Amount of food waste generated

7a-b Contribution of recycled materials to raw materials demand

Secondary raw materials' share of overall materials demand - for specific materials and for the whole economy

8 Trade in recyclable raw materials

Imports and exports of selected recyclable raw materials



5a-b Overall recycling rates

Recycling rate of municipal waste and of all waste except major mineral waste

6a-f Recycling rates for specific waste streams

Recycling rate of overall packaging waste, plastic packaging, wood packaging, waste electrical and electronic equipment, recycled biowaste per capita and recovery rate of construction and demolition waste



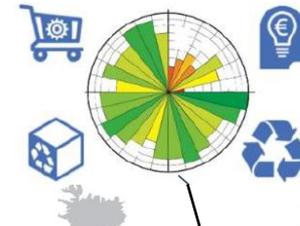
9a-c Private investments, jobs and gross value added

Private investments, number of persons employed and gross value added in the circular economy sectors

10 Patents

Number of patents related to waste management and recycling

CIRCLES OF SUSTAINABILITY



3. RESULTS

CLASSIFICATION OF SUITABILITY TO IMPLEMENT CE ACTIVITIES



Top10 in any of de indexes

Estonia	Tallin
Finland	Helsinki, Turku
France	Nantes St. Nazaire, Calais, Fort de France
Germany	Hamburg, Bremenshaven
Greece	Piraeus, Igoumenitsa
Italy	Messina
Netherlands	Rotterdam, Amsterdam
Portugal	Setubal, Aveiro
Slovenia	Khoper
Spain	Valencia, Vigo, Algeciras, Cartagena, Sagunto, Bilbao
Sweden	Stockholm, Gothenburg
United Kingdom	Dover/Folkestone

Taking into account the information of the database

** Deeper open access information is needed: consumption of resources, waste generation, recycling rates...

General index: $1 \cdot \text{General Params.} + 1 \cdot \text{Shipyards} + 1 \cdot \text{Enlargements} + 4 \cdot \text{Statistics} + 3 \cdot \text{Environmental Params.}$

Plastic index: $1 \cdot \text{General Params.} + 0.5 \cdot T_Containers + 1 \cdot N^\circ \text{Calls} + 3 \cdot N^\circ \text{Fishing} + 1.5 \cdot N^\circ \text{Passengers} + 3 \cdot \text{Environmental Params.}$

Metal index: $1 \cdot \text{General Params.} + 1 \cdot \text{Size Params} + 0.5 \cdot T_GeneralCargo + 1.5 \cdot T_Container + 3 \cdot \text{Shipyard} + 3 \cdot \text{Environmental Params.}$

Cement index: $1 \cdot \text{General Params.} + 2 \cdot \text{Traffics Params} + 4 \cdot \text{Enlargements} + 3 \cdot \text{Environmental Params.}$

Biomaterial index: $1 \cdot \text{General Params.} + 1 \cdot N^\circ \text{Calls} + 1 \cdot \text{Fishing} + 4 \cdot N^\circ \text{Passengers} + 3 \cdot \text{Environmental Params.}$

4. WEB TOOL

<https://www.loop-ports.eu>



Map of Ports and CE activities



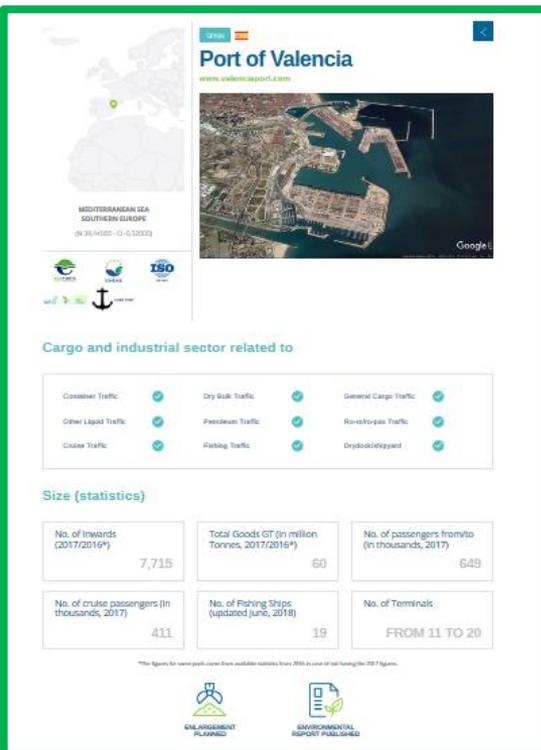
1. DECOMISSIONING
2. DISTMANTLING/COMPONENT HARVESTING
3. INDUSTRIAL SYMBIOSIS
4. MAINTENANCE AND OVERHAUL
5. RE-USE / SECOND HAND
6. RECYCLING OF WASTE STREAMS
7. REFURBISHMENT
8. RENTAL SERVICES
9. REPAIR
10. OTHER

<https://www.loop-ports.eu/circular-economy-tools/>

4. WEB TOOL

<https://www.loop-ports.eu>

Map of Ports and CE activities

Port of Valencia
www.valenciaport.com

MEDITERRANEAN SEA
SOUTHERN EUROPE
04.36.14000 - (+34.90200)

Cargo and industrial sector related to

Container Traffic	Dry Bulk Traffic	General Cargo Traffic
Other Liquid Traffic	Freight Traffic	Ro-ro/stopas Traffic
Cruise Traffic	Fishing Traffic	Drydock/shipyard

Size (statistics)

No. of Inwards (2017/2016*)	Total Goods GT (in million Tonnes, 2017/2016*)	No. of passengers from/to (in thousands, 2017)
7,715	60	649
No. of cruise passengers (in thousands, 2017)	No. of Fishing Ships (updated June, 2018)	No. of Terminals
411	19	FROM 11 TO 20

*The figures for some ports cover three available statistics from 2016 in case of not having the 2017 figures.

ENLARGEMENT PLANNED
ENVIRONMENTAL REPORT PUBLISHED

Circular Economy Activities 1 2 3 4

CIRCULAR ECONOMY ACTIVITY 4

Name of the Circular Economy Activity Identified: CRANES ENLARGEMENT

Type of the Circular Economy Activity implemented: REFURBISHMENT

Brief Description of the Activity:
The enlargement of cranes in Valencia Terminals to attend bigger vessels in port of Valencia instead of discard them

Material or Flow addressed:	Industrial Sector Involved:	Key Organisation(s):	Other Stakeholders/Value Chain Partners:
OTHER	OTHER	PORT AUTHORITY OF VALENCIA	NOATUM AND TCV

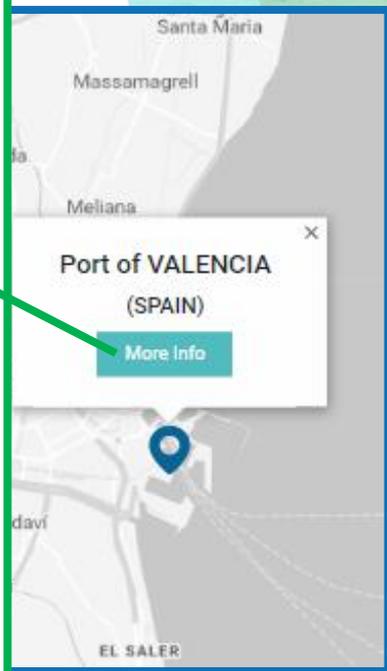
Life Stage (ambition, planned, pilot, scale-up, implemented)	Planned Duration (Project based or permanent)
IMPLEMENTED	PERMANENT

New Product/s or Service/s Generated: PERMANENT

Potential users demand: N/A

Website: www.veintepies.com

Additional Information: N/A



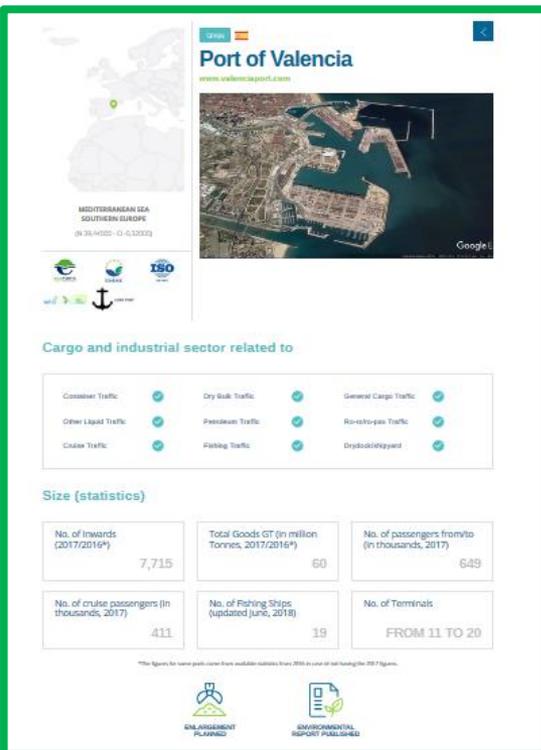
Santa Maria
Massamagrell
Meliana
Port of VALENCIA (SPAIN)
More Info
EL SALER

<https://www.loop-ports.eu/circular-economy-tools/>

4. WEB TOOL

<https://www.loop-ports.eu>

Map of Ports and CE activities

Port of Valencia
www.valenciaport.com

MEDITERRANEAN SEA
SOUTHERN EUROPE
(43.7614055 - 0.3000000)

Cargo and industrial sector related to

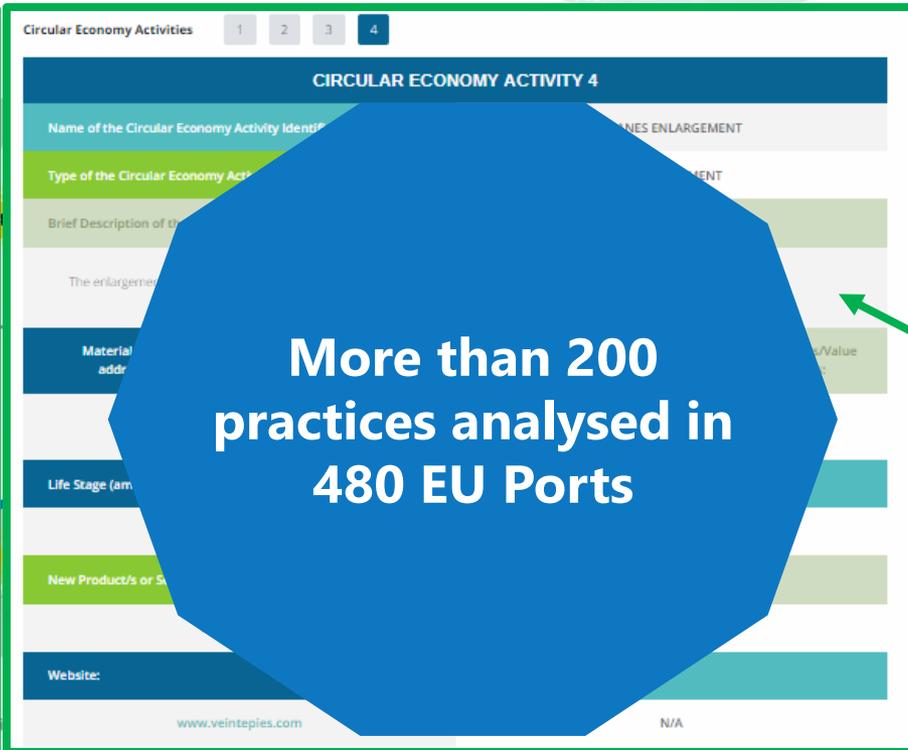
Container Traffic	Dry Bulk Traffic	General Cargo Traffic
Other Liquid Traffic	Passenger Traffic	Ro-roships Traffic
Cruise Traffic	Fishing Traffic	Drydock/shipyard

Size (statistics)

No. of Inwards (2017/2016*)	Total Goods GT (in million Tonnes, 2017/2016*)	No. of passengers from/to (in thousands, 2017)
7,715	60	649
No. of cruise passengers (in thousands, 2017)	No. of Fishing Ships (updated June, 2018)	No. of Terminals
411	19	FROM 11 TO 20

*The figures for some ports cover three available statistics from 2015 in case of not having the 2017 figures.

ENLARGEMENT PLANNED
ENVIRONMENTAL REPORT PUBLISHED



Circular Economy Activities 1 2 3 4

CIRCULAR ECONOMY ACTIVITY 4

Name of the Circular Economy Activity Identifier: ... ENLARGEMENT

Type of the Circular Economy Activity: ... ENLARGEMENT

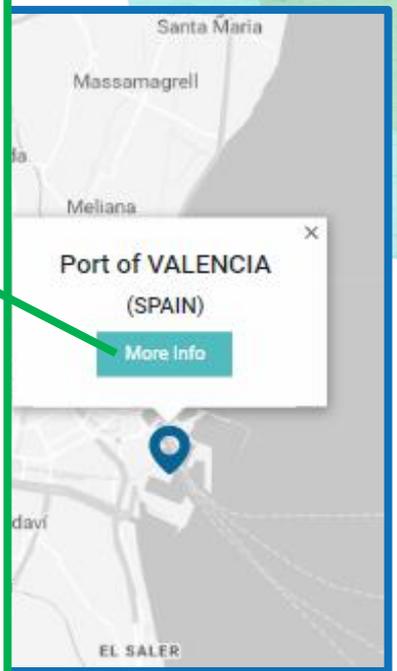
Brief Description of the Activity: The enlargement...

Material address: .../Value

Life Stage (among others):

New Product/s or Service:

Website: www.veintepies.com



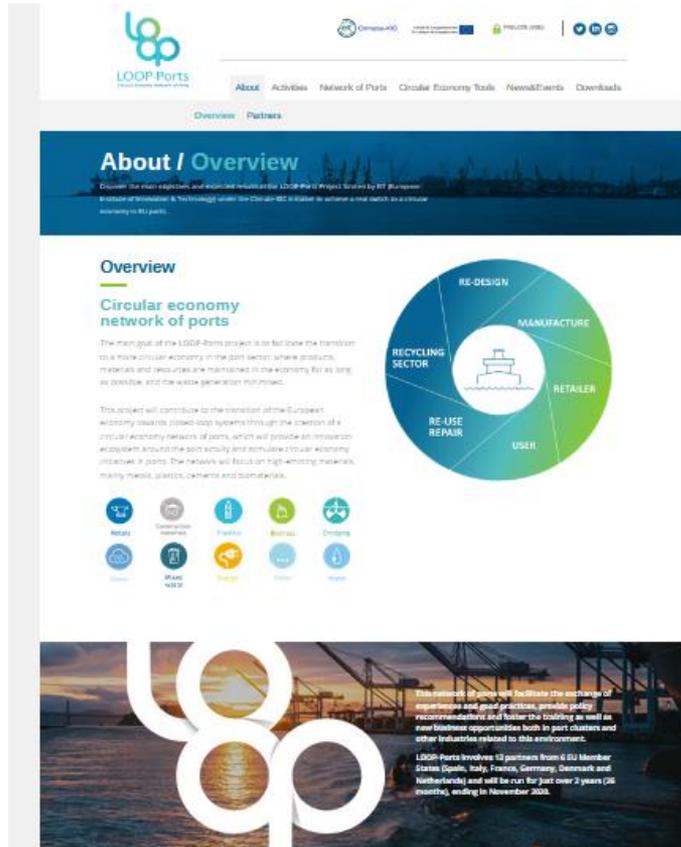
Santa Maria
Massamagrell
Meliana
Port of VALENCIA (SPAIN)
More Info
EL SALER

More than 200 practices analysed in 480 EU Ports

<https://www.loop-ports.eu/circular-economy-tools/>

4. WEB TOOL

<https://www.loop-ports.eu>

About / Overview

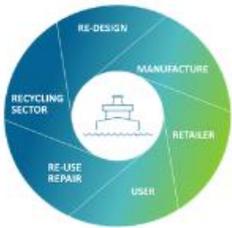
Discover the main objectives and expected results of the LOOP-Ports project funded by the European Union of Innovation & Technology under the Horizon-ERC initiative to promote a circular economy in EU ports.

Overview

Circular economy network of ports

The main goal of the LOOP-Ports project is to facilitate the transition to a more circular economy in the port sector: share products, materials and resources; minimise the in economy, but as long as possible, at the waste generation minimum.

This project will contribute to the creation of the European economy via its closed-loop systems through the creation of a circular economy network of ports, which will provide an innovation ecosystem around the port activity and stimulate circular economy initiatives in ports. The network will focus on high-velocity materials, making metals, plastics, cables and biomaterials.

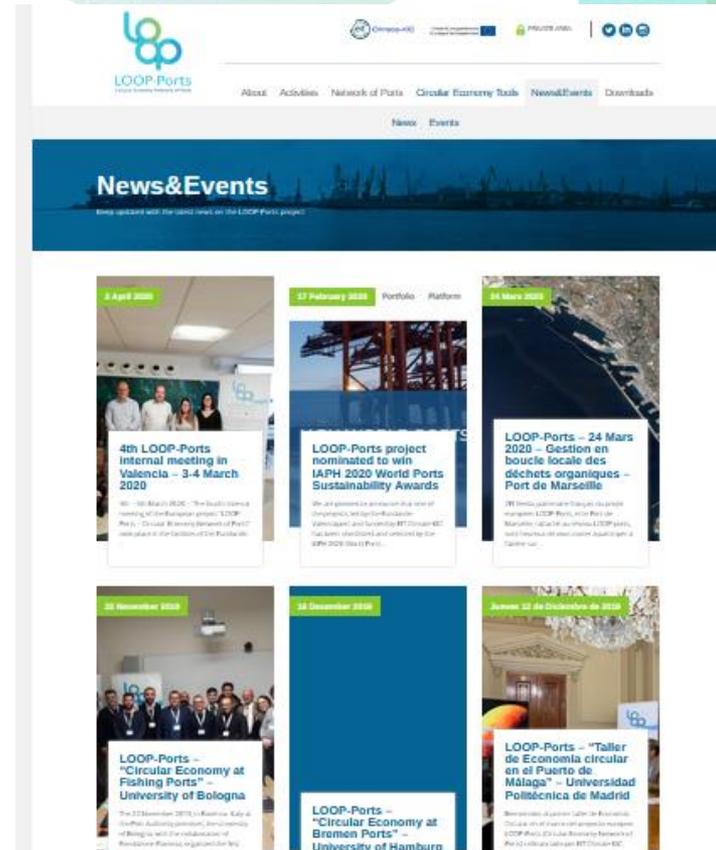






This network of ports will facilitate the exchange of experience and good practices, provide policy recommendations and foster the trading as well as new business opportunities both by port clusters and other industries related to this environment.

LOOP-Ports involves 13 partners from 6 EU Member States (Spain, Italy, France, Germany, Denmark and Netherlands) and will be run for just over 3 years (36 months), ending in November 2020.



News & Events

Being updated with the latest news on the LOOP-Ports project.

- 3 April 2020**
4th LOOP-Ports internal meeting in Valencia – 3-4 March 2020
- 27 February 2020** Portfolio - Platform
LOOP-Ports project nominated to win IAPH 2020 World Ports Sustainability Awards
- 24 March 2020**
LOOP-Ports – 24 Mars 2020 – Gestion en boucle locale des déchets organiques – Port de Marseille
- 16 November 2019**
LOOP-Ports – “Circular Economy at Fishing Ports” – University of Bologna
- 16 December 2019**
LOOP-Ports – “Circular Economy at Bremen Ports” – University of Hamburg
- June 12 de Octubre de 2019**
LOOP-Ports – “Taller de Economía circular en el Puerto de Málaga” – Universidad Politécnica de Madrid



ALMA MATER STUDIORUM
UNIVERSITÄT DI BOLOGNA



e INSTITUTO
DE ECONOMÍA
INTERNACIONAL
UNIVERSITAT DE VALÈNCIA



UH
Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

DTU
Technical University
of Denmark

ZEI **VEOLIA**

TNO innovation
for life



LOOP·Ports

Circular Economy Network of Ports

Álvaro Campos Duque

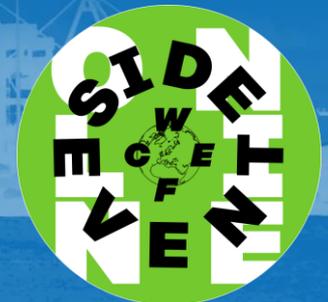
Researcher at HRL-UPM

Universidad Politécnica de Madrid

alvaro.campos@upm.es

FV FUNDACIÓN
VALENCIAPORT

eit Climate-KIC
Climate-KIC is supported by the
EIT, a body of the European Union





ALMA MATER STUDIORUM
UNIVERSITA DI BOLOGNA



e INSTITUTO
DE ECONOMÍA
INTERNACIONAL
UNIVERSITAT DE VALÈNCIA



UH
Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

DTU
Technical University
of Denmark

ZEI **VEOLIA**

TNO innovation
for life



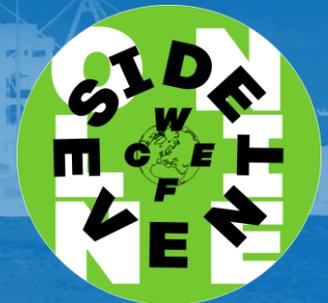
LOOP·Ports

Circular Economy Network of Ports

**FINAL
CONFERENCE**
Online
16th December 2020

F FUNDACIÓN
VALENCIAPORT

eit Climate-KIC
Climate-KIC is supported by the
EIT, a body of the European Union



THANK YOU!!



LOOP-Ports

Circular Economy Network of Ports

FINAL
CONFERENCE
Online
16th December 2020

