



Blue Growth of the Port of Vigo, Innovation and talent Plan

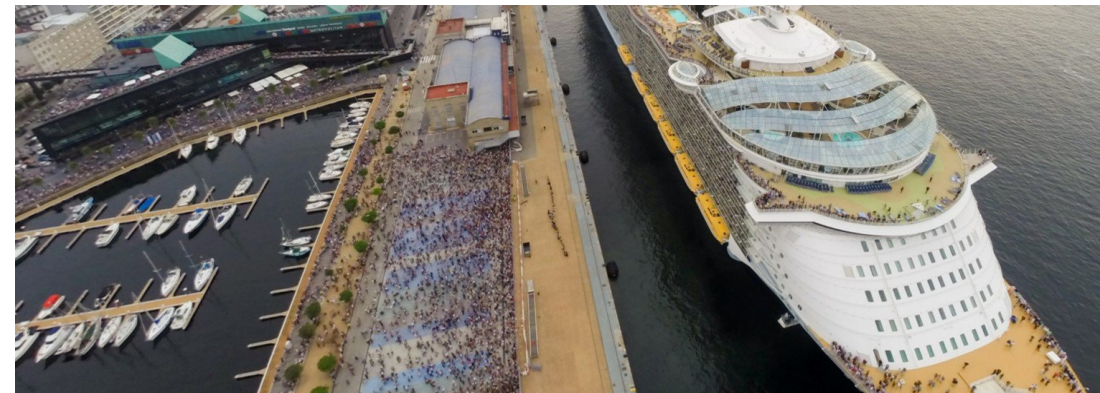
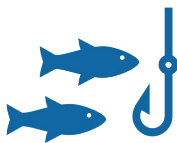
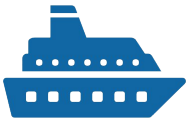
5th MEDITERRANEAN DAYS
by PIANC
October 27, 2023



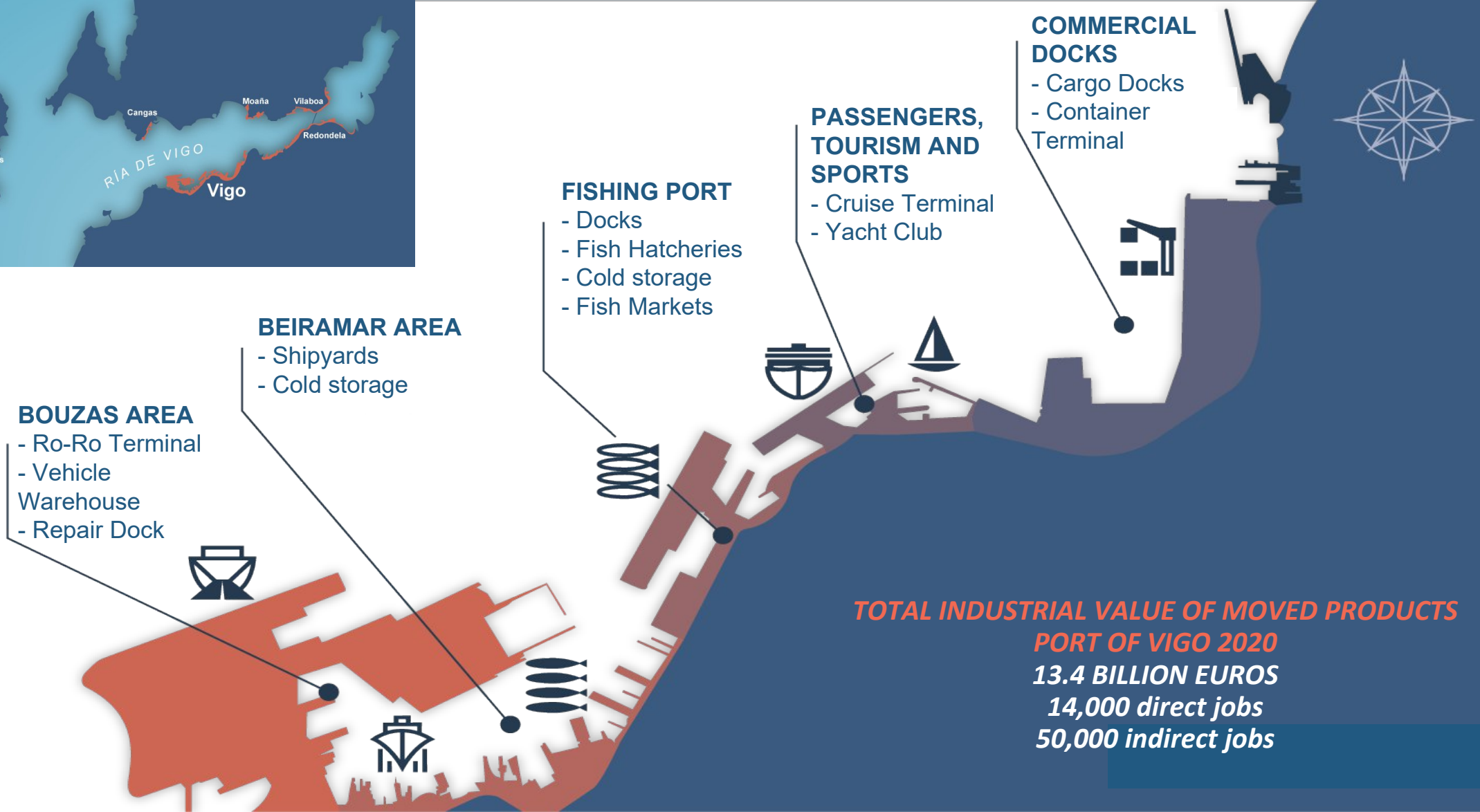
PORTS AS HUBS FOR THE BLUE ECONOMY

Ports are hubs where all economic activities related to the maritime domain converge and have a direct impact on the environment and the development of individuals in terms of job creation, wealth, leisure, and well-being.

This includes all initiatives/actions responsible for the sustainable growth of their hinterland and the sustainable development of port cities. **BLUE PORTS, GREEN CITIES.**



PORT OF VIGO: Key Maritime Sectors



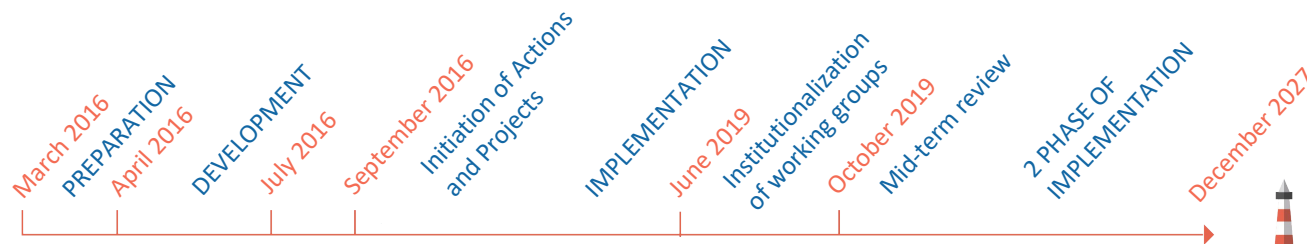
**TOTAL INDUSTRIAL VALUE OF MOVED PRODUCTS
PORT OF VIGO 2020**
13.4 BILLION EUROS
14,000 direct jobs
50,000 indirect jobs

BLUE GROWTH PORT OF VIGO:

Keys to success: dialogue, cross-sector collaboration and talent

The Port of Vigo has been the first port in the European Union to comprehensively **implement the Blue Growth strategy**, recognizing the need for **holistic collaboration across all sectors**.

This innovative vision has translated into a unique working methodology, adopting a 'bottom-up' approach that involves **every socioeconomic unit and local stakeholders in the identification of crucial priorities**.







Collaboratively designed strategy
6 commissions, 300 experts

-  Biotechnology
-  Cruise Traffic
-  Fresh and Frozen Fishing
-  Goods and Maritime Transport
-  Shipbuilding and Blue Energy
-  History and Training

OUR GOALS: Driving Success through Indicator Tracking

A tracking tool for the Plan was designed to assess its execution in two main areas:
IMPLEMENTATION and **IMPACT**

E X P E C T E D I M P A C T	INNOVATIVE PORT <small>EXPECTED IMPACT</small> <small>ACTUAL MEASURE</small>	Innovation is an essential concept of the Blue Growth Strategy and, therefore, of the Port of Vigo. In order to become an innovative port, we promote the development of more efficient technologies; we offer improved services to our users; we encourage an open innovation, by integrating private sector with research institutions, technological centers and universities.					STATUS OF IMPLEMENTATION € 293.261.389 <small>Total Budget</small> € 78.575.487 <small>Approved Public Investment</small> € 25.924.446 <small>Approved Private Investment</small> € 43.921.483 <small>Grants</small> 41 <small>Projects in Progress</small> 61 <small>Total n° of Projects</small> 47 <small>Actions</small>
		40 % 50 % <small>Percentage of budget achieved</small>	40 % 25 % <small>Private investment mobilized in Innovative Projects</small>	40 31 <small>Number of Innovation Projects Executed</small>	30 24 <small>Private-Public Innovation Collaborative Projects</small>	15 10 <small>Number of prototypes</small>	
	GREEN PORT <small>EXPECTED IMPACT</small> <small>ACTUAL MEASURE</small>	In the Port of Vigo we work to become the green port of reference in the south Europe, through actions and projects enforced to recover zones where the industrial and urban activity has left his footprint; promoting the use of clean energy technologies; and implementing more environmental-friendly processes.					
		25 % 17 % <small>Reduction of energy consumption in port facilities</small>	3 % 3,3 % <small>Clean self-generated energy</small>	30 % 30 % <small>Reduction of emissions of Greenhouse Gases</small>	100 mil 66,8 mil <small>Surface of seabed regenerated (Sq. Feet)</small>	400 309,9 <small>Tones of marine litter gathered</small>	
	CONNECTED PORT <small>EXPECTED IMPACT</small> <small>ACTUAL MEASURE</small>	A connected port is synonymous of competitiveness, reason why, in the Port of Vigo we work to digitalize the administrative processes and multiply the maritime lines; we support digital transformation and the use of ICT tools in communication.					
		30 12 <small>Digitized procedures</small>	10 5 <small>Number of improved operational and logistics processes</small>	20 21 <small>Number of new lines of maritime traffic</small>	550 mil 407 mil <small>Port area created, freed up or applied to other uses</small>	20 % 17 % <small>Tones traffic growth</small>	
	INCLUSIVE PORT <small>EXPECTED IMPACT</small> <small>ACTUAL MEASURE</small>	People are the center of an Inclusive Port, that is why from the Port of Vigo we bet on: the design of training programs to meet the needs of the current market; the integration of traditional sectors in the new concept of the Blue Economy; social innovation, favoring the interaction between all agents linked to the sea.					
		14.000 14.062 <small>Number of direct jobs</small>	3.000 2555 <small>Number of people trained</small>	30 22 <small>Number of social innovation actions</small>	7 9 <small>User satisfaction</small>	240 266 <small>Collaborations</small>	

In terms of **implementation**, it assesses the progress of planned projects and actions, using indicators such as the number of projects, actions, financing, and involved stakeholders, among others. As for the **impact**, it evaluates the degree of achievement of the results and objectives set from the outset of the projects and actions.

As for the **impact**, it assesses the degree of achievement of the results and objectives set from the beginning of the projects and actions. This provides information on **how the Port of Vigo is progressing towards its goals of becoming a green, connected, innovative, and inclusive port**

OUR GOALS: Driving Success through Indicator Tracking



OBJETIVOS BLUE GROWTH PUERTO DE VIGO

IMPACT MEASUREMENT



CONNECTED PORT

Development of maritime and intermodal transport infrastructure; as well as through digitalized industrial and logistical processes and the implementation of ICT for achieving more efficient management

30 | 12

Digitized procedures

10 | 5

Number of improved operational and logistics processes

20 | 21

Number of new lines of maritime traffic

550 mil | 407 mil

Port area created, freed up or applied to other uses

20 % | 17 %

Tones traffic growth



GREEN PORT

Referring to the protection and conservation of the marine and coastal environment through the responsible use of natural resources, with a particular emphasis on energy efficiency

25 % | 17 %

Reduction of energy consumption in port facilities

3 % | 3,3 %

Clean self-generated energy

30 % | 30 %

Reduction of emissions of Greenhouse Gases

100 mil | 66,8 mil

Surface of seabed regenerated (Sq. Feet)

400 | 309,9

Tones of marine litter gathered



INNOVATIVE PORT

Becoming a port integrated into a knowledge ecosystem, knowledge transfer, R&D&I, entrepreneurship, and distinctive commercial actions

40 % | 50 %

Percentage of budget achieved

40 % | 25 %

Private investment mobilized in Innovative Projects

40 | 31

Number of Innovation Projects Executed

30 | 24

Private-Public Innovation Collaborative Projects

15 | 10

Number of prototypes



INCLUSIVE PORT

Centered on people and engaged in the creation of new jobs, with productive cohesion in sectors linked to the sea. Social innovation actions

14.000 | 14.062

Number of direct jobs

3.000 | 2555

Number of people trained

30 | 22

Number of social innovation actions

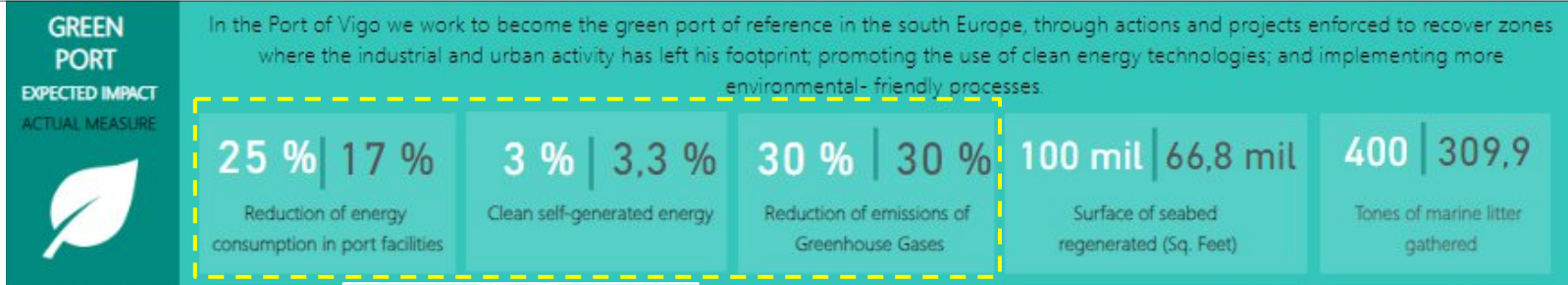
7 | 9

User satisfaction

240 | 266

Collaborations

PORT OF VIGO, A GREEN PORT



1. Supply of electricity with renewable origin certification



2. Implementation of renewable energies

20% of APV's electricity consumption comes from renewable sources



- ✓ Several buildings with solar plants:
 - ✓ Main offices
 - ✓ Fishing harbor offices
 - ✓ Fish market
 - ✓ Multilevel car park



3. GNL/ OPS/ HYDRÓGENO

- **Green BAY**, Electrification of maritime mobility in the Bay of Vigo
- **Julio Verne**, a project for the generation and dispensing of Green Hydrogen for application in port logistics operations in the Port of Vigo area
- **Hydea Project**, assess, develop, and promote the integrated use of green technologies based on H2 with marine and other renewable energies in ports of the Atlantic Area







4. Concessionaire Companies in the Port Area



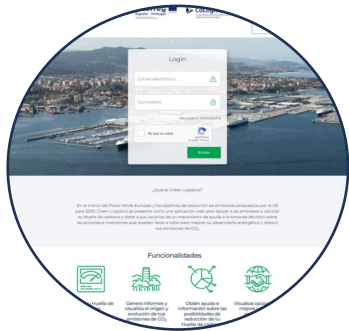
GREEN YARD SCHEDULER (GYS)

WHAT IS THE GREEN YARD SCHEDULER (GYS)?

A decision support system for more efficient and sustainable container terminal operations

-  Increase the container terminal productivity
-  Reduce the carbon footprint of the terminal
-  Integrate with the terminal operating system
-  Harmonise container yard operations

PORT OF VIGO, AN INNOVATIVE PORT



1. COLOGISTICS

- As part of the COLOGISTIC project, the Port Authority of Vigo designed and executed the **Green Logistics digital tool**, a web application to support companies in **calculating their carbon footprint** and provide its users with a mechanism to help them make decisions on the actions and investments they can carry out to improve their energy performance and reduce their CO2 emissions



2. LIVING PORTS

- The Living Ports project aims to transform 'gray' infrastructure in the port environment into infrastructure that emulates natural processes in artificial environments.
- This project's approach **combines the conservation and restoration of ecosystems (ecology) with the planning and design of port infrastructure (engineering)**.



3. CIRCAZUL

- Prevent and fight marine pollution** by capitalizing on existing information and knowledge, developing and demonstrating systems for the collection and recovery of waste (especially plastics) from the fishing sector, and promoting partnerships between the various sectors and stakeholders

PORT OF VIGO, AN INCLUSIVE PORT



1. MARENET PROJECT

- Strengthening cooperation between the business sector of the maritime industry and academia through the development of a **Digital Blue Careers Network** to meet the professional profile updating needs within the maritime port sector and to showcase new business opportunities in the industry.

131 people trained



2. Port-City Integration Activities

- Submarine Observatory Nautilus:** an observation and monitoring tool with recreational, educational, and citizen awareness objectives.
- Blue Week:** an event that offers a wide range of cultural, sports, and recreational activities for the enjoyment of society, which celebrated its fourth edition this year and counted with more than 5,000 people.



3. BLUEFISHING TRAINING PROJECT

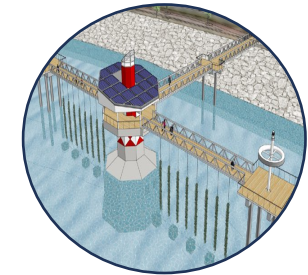
- Professionalization of the inshore and offshore extractive fishing value chain:** This project aims to promote innovative approaches to strengthen cooperation between the extractive fishing industry and scientific community.

238 people trained

PORT OF VIGO, AN INCLUSIVE PORT



1. SUSTAINABLE MOBILITY AND PORT-CITY INTERACTION ALONG PORT FACADE



2. PEIRAOS DO SOLPOR: Nature-based solutions to improve the integration of port infrastructures.



Cycling path in the port area of “El Berbés”

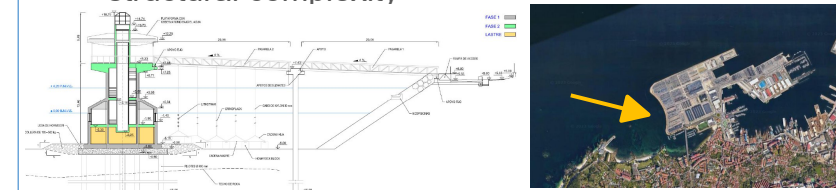


Conditioning of the “Orillamar” Street

PREVIOUS SOLUTION: **NEW SOLUTION:**

- Very narrow sidewalk – safety issues
- High fence that intensifies the feeling of closure
- Broken connection between urban spaces
- Shared platform: cyclists-pedestrians
- New promenade includes “soft” spaces with benches and garden areas.
- Underlayer ready for heavy loads
- Continuity to pedestrian path –
- Narrow sidewalk with multiple level changes
- High fence closing the port area
- Cars very close to pedestrians
- Wide, comfortable platform for pedestrians and cyclists
- Physical separation from traffic with garden bays
- Physical separation from port area with benches

- Development of nature-based solutions
- Urban space for leisure and scientific dissemination
- Exposed location to waves and currents – structural complexity





Thank you so much