



Interreg

North Sea Region

DUAL Ports

European Regional Development Fund



DUAL Ports

From SME PORTS to Regional Entrepreneurial Ports:

Developing Low Carbon Utilities and Abilities

Pireaus – Smart Ports conference – 20.04.2018

DUAL Ports is co-funded by the North Sea Region Programme 2014-2020; Eco-innovation priority. www.northsearegion.eu/dual-ports J-No: 38-2-7-15

DUAL Ports

1. Situation of SME Ports in Europe

2. Challenge : how to turn SME Ports into Regional Entrepreneurial Ports

3. Opportunities : sustainable specialisation

4. Business Case : Dual Ports (Interreg V B North Sea)

5. Business case 2 : PECS (Interreg VA 2seas)

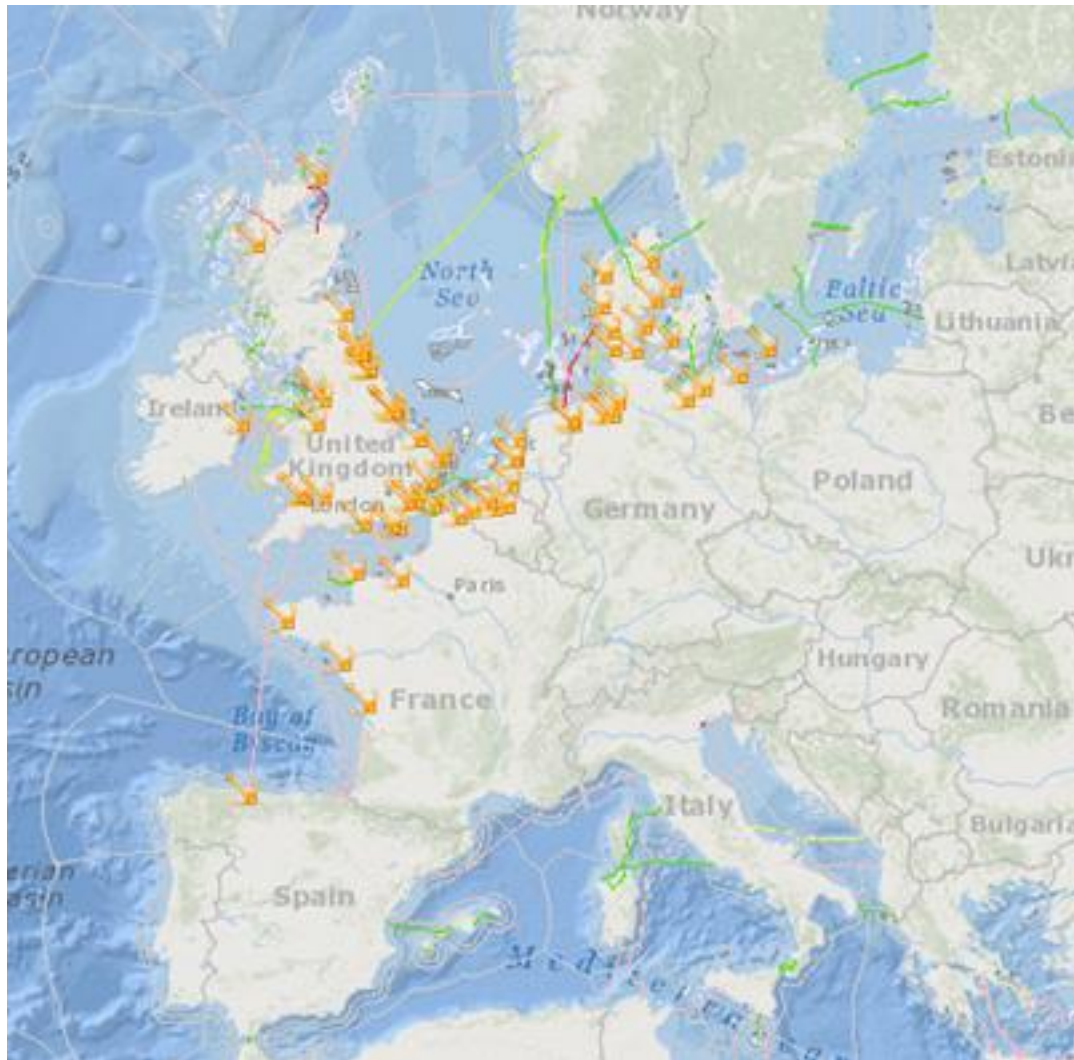
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1. Situation of SME Ports in Europe

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What is the situation of SME ports in Europe



- 1250 SME ports all over Europe
- logistics : limited visibility
- overall : limited economic, public, social or financial recognition and visibility

BUT

- All EU directives on environment, safety, etc... are applicable on SME ports
- Short term politics/administration vs long term development of ports

Challenge: one dimensionality of classification of ports

Is the logistic classification of ports still acceptable in order to evaluate the role of ports in Europe and to justify investments?

What is the social, economic and environmental added value of ports?



SME port are

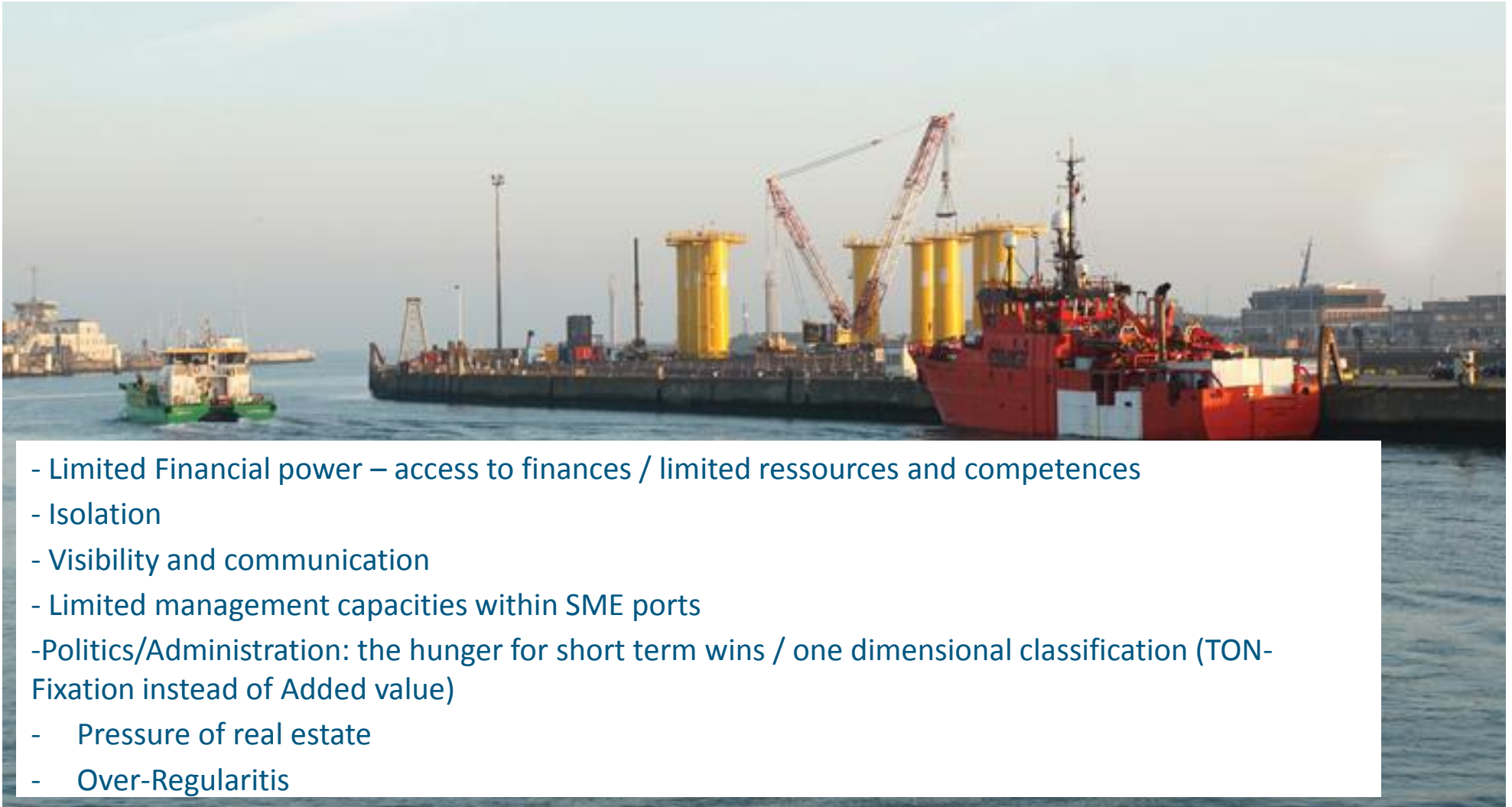
NOT ONLY

- Center of logistic functions in the region

BUT CAN ALSO BE:

- Center for creating economic added value
- Center for pooling of maritime skills and competences
- Center for innovation as to blue industry

Obstacles and threats for the SME ports



- Limited Financial power – access to finances / limited resources and competences
- Isolation
- Visibility and communication
- Limited management capacities within SME ports
- Politics/Administration: the hunger for short term wins / one dimensional classification (TON-Fixation instead of Added value)
 - Pressure of real estate
 - Over-Regularitis

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Challenge: How to turn SME Ports into Regional Entrepreneurial Ports

With a framework of the local, regional and European economic, financial and political forces?

Need for sustainable specialization and innovation into nicheports.

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a. Sustainable specialization: (marine) environment,
low carbon and renewable energy



b. Sustainable specialization: social competences and marine skills

Examples :

center for maritime training, pooling of maritime competences, etc



c. Sustainable specialization: economic clustering, R&D and innovation in circular economy

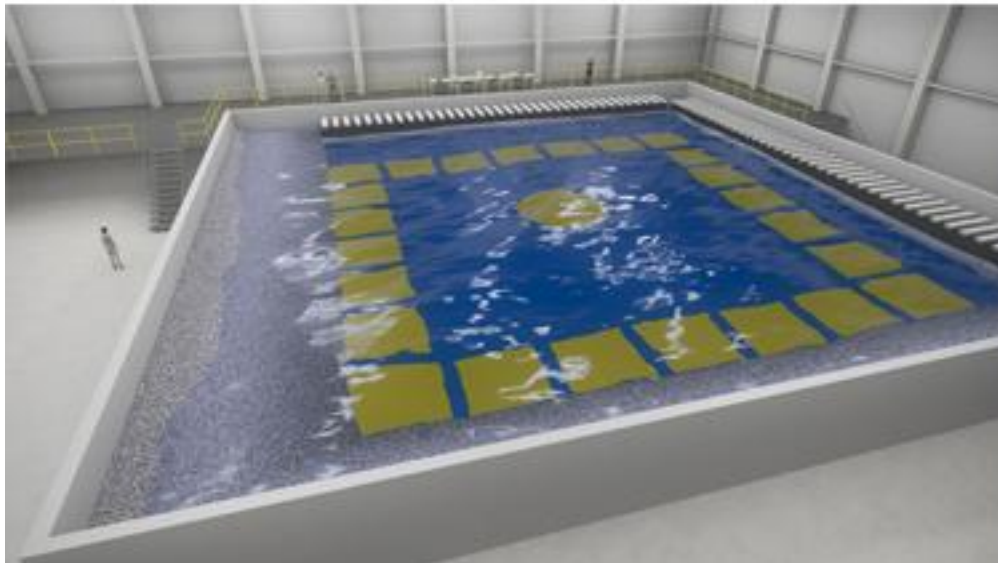


the Port of Oostende: hub for the blue industry and the circular economy



c. Sustainable specialization: economic clustering, R&D and innovation in blue economy

Examples: clustering of investments, facilitating new industries, specialization in the blue industry, innovation



c. Sustainable specialization: economic clustering, R&D and innovation in blue economy



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a. What is DUAL Ports?

DUAL Ports is:

- * a €5,2m transnational cooperation project,
- * 50% co-funded by the European Union and the European Regional Development Fund through the Interreg North Sea Region Programme 2014 – 2020,
- * Eco-innovation priority.
- * The project runs from 10/11/2015 until 30/06/2019.



b. Who is Dual Ports

Who are we?

The port of Oostende leads a consortium of 10 Flemish, Scottish, Danish, German and Dutch harbour authorities and organisations:

- The ports of Zwolle (with Kampen and Meppel), Vordingborg, Emden, and Skagen
- The private/public organisations: Fair Winds Trust; ITM Power; Orkney Islands Council; HWWI GmbH; Vordingborg Erhverv;



c. The objective of DUAL Ports

Stimulating eco-innovation, carbon emission reduction and sustainable use of resources is a widespread priority in Europe nowadays. Being businesses, and considering their industrial and logistic function, also ports are expected to identify pragmatic low carbon visions and implement concrete solutions to this purpose.

The aim is to decarbonise Regional Entrepreneurial Ports (REPs) through a shared eco-innovation port programme that minimises their environmental footprint.

The objective is to specifically develop sustainable utilities and abilities of REPs.

A transnational approach has been adopted to allow the DUAL small & medium size ports to capitalise on the potential, overcoming their individual limited staff, funding and capability to identify the most effective solutions on their own.



d. Pilot projects in Dual Ports : abilities (software)

piloting new ways of sustainably managing the port environment :
* soil treatment within the framework of port expansion;
sustainable space use and port management through co-siting/dockland;



d. Pilot projects in Dual Ports : abilities (software)

- sharing technology/processes/plans for resource efficient management: green officer + sustainability management system;



d. Pilot projects in Dual Ports : abilities (software)

- sharing resources for low carbon management & processes in ports: low carbon planning & management.



d.Pilot projects in Dual Ports: utilities (hardware)

- testing environmentally friendly equipment in ports :
- * rolling out intelligent LED lightning network;



d.Pilot projects in Dual Ports: utilities (hardware)

- Developing low carbon logistic products, bridging old and new technologies:
 - * set-up of Sailing cargo platform
 - * bridging to wind propulsed cargo



d.Pilot projects in Dual Ports: utilities (hardware)

- building up business cases for alternative, non-conventional energy sources systems:
 - * liquefied natural gas,
 - * H² storage facilities, produced by overflow of renewable energy (wave, wind)
 -



d. Pilot projects in Dual Ports : CBACA

- CBACA tool : measuring cost benefit and carbon footprint impact

Key question : how to evaluate economic and carbon advantages and disadvantages of investments in ports,

How : comparing traditional solutions with new sustainable solutions



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5. PECS : Ports energy carbon saving

Installing different pilots to reduce the carbon footprint

- XANT wind mill in ports (0,1/0,3/0,5 MW)
- Development and construction of an energypontoon for independent supply of energy
- Development of a smartpontoon
- Test of heath recuperation systems within port industrial areas



CONCLUSION

DUAL PORTS : building a low carbon platform for Regional Entrepreneurial Ports in the North Sea region, creating economic, social and environmental added value and visibility

Thank you for your attention

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