

A large offshore vessel, the BOLD TERN, is shown in a harbor. The vessel has a white superstructure and a red hull. It is equipped with three tall, dark brown, perforated chimneys with red and white striped tops. The vessel is docked at a pier, and the water is calm. The sky is blue with some light clouds.

# OFFSHORE HARBOUR LOGISTICS : obstacles and solutions

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## Offshore harbour logistics : obstacles and solutions

1. Harbour logistics
2. Obstacles for SME and SME Ports
3. Future challenges
4. Business case - cooperation between SME : OWPP

## Offshore harbour logistics : obstacles and solutions

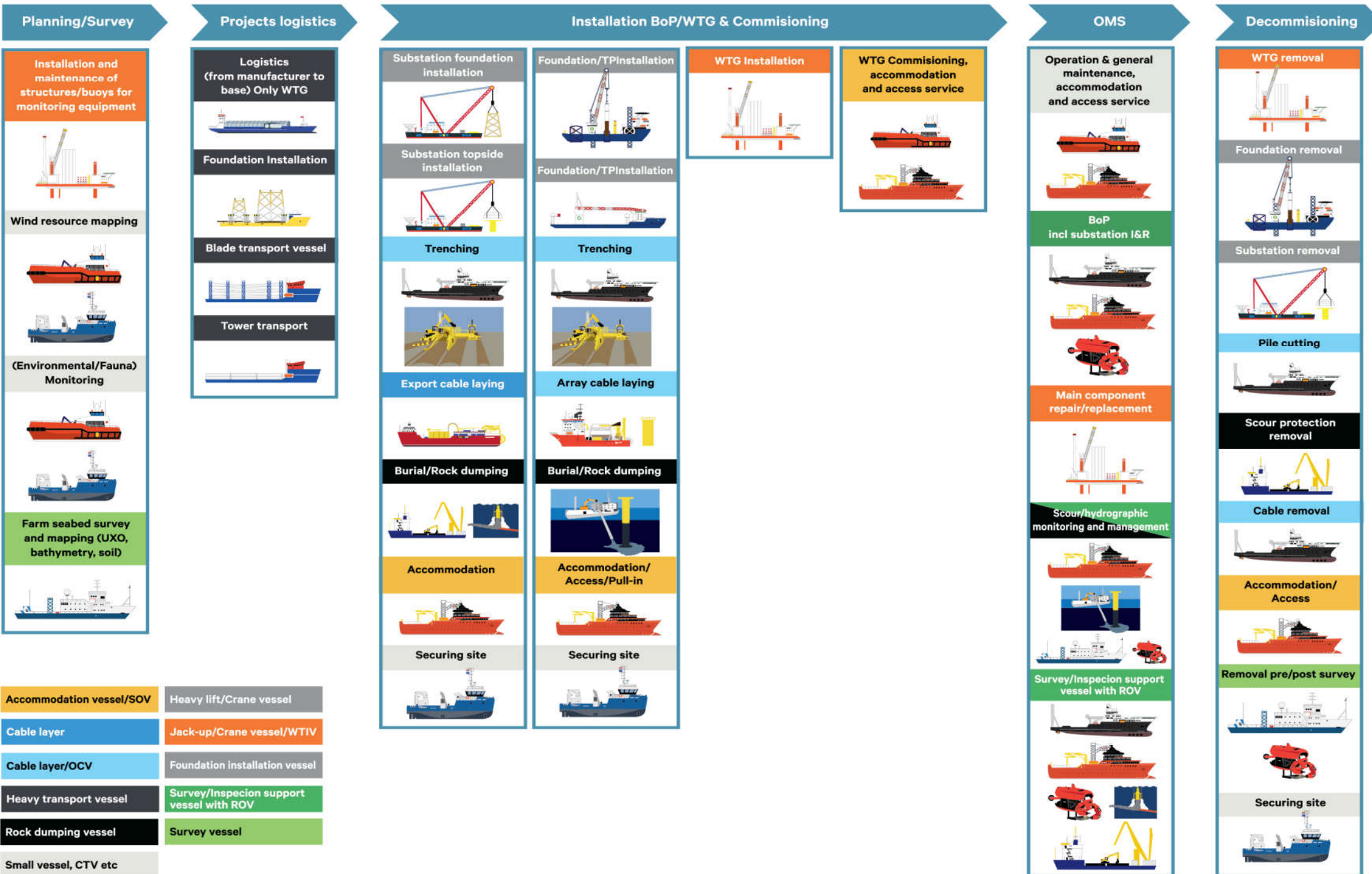


## 1. Offshore Harbour logistics : what ?

- Planning & survey
- Project logistics
- Installation and commissioning
- Operations & Maintenance
- Decommissioning



# Marine operations spread - Fixed installations



## 2 . Obstacles for SME and SME ports

- Maritime context - cost factor of operations at sea
- Technological development - innovation level is high , e.g predictive O&M
- Legal framework : definition of liabilities and need for a stable legal framework
- Economic setting of the energy market: unreliable politicians – nationalist set-up in an international market - competition with other energy sources - need for a long-term vision
- Human resources: lack of skilled workers
- Financing of operations : corona-sclerosis of financial sector, especially towards SME – when a real vaccine to cure the financial sector
- Management of stakeholders

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## 3. Future challenges

BY 2030, PORTS WILL NEED TO ANNUALLY SUPPORT:





## 3. Future challenges

- Implementation of new technologies - impact of data management
- Greening of the offshore operations within O&M and other logistics operations :  
opposition of traditional fuel mogols
- Reorganisation of the supply chain in function of big, bigger, biggest – high targets for  
installation : 90 GW offshore wind in 2030 - issue of space – port cooperation
- Challenge of decommissioning : reuse vs recycling of waste - where is the business  
case?
- Upcoming markets : floating wind turbines – mature ? Challenges as to logistics and  
mooring
- Interconnection between offshore wind turbines and the production of green H2 at sea  
and on land
- Energy islands

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## 4. Business case - cooperation between SME : OWPP

- **What** : a platform where port authorities, active in the offshore wind sector, can share their best practices and engage with the policy-makers and the industry
- **What do they represent:**
  - \* 460 hectares port area, dedicated to offshore wind industry
  - \* 8000 MW installed capacity of offshore wind turbines at sea , that needs to be maintained
- **Typology** : general ports and specialised ports
- Logistic efficiency within the ports contributes to the reduction of the LCOE, produced by the offshore wind sector : e.g. use of Ro-Ro facilities on heavy-weight pontoon
- **Challenge**: space in ports and adaptation of port infrastructure in order to reach the ambitious goal of 90 Gigawatt installed offshore wind capacity



## 4. Business case - cooperation between SME : OWPP



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**Thank you for your attention**

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