

# Foundation Ex

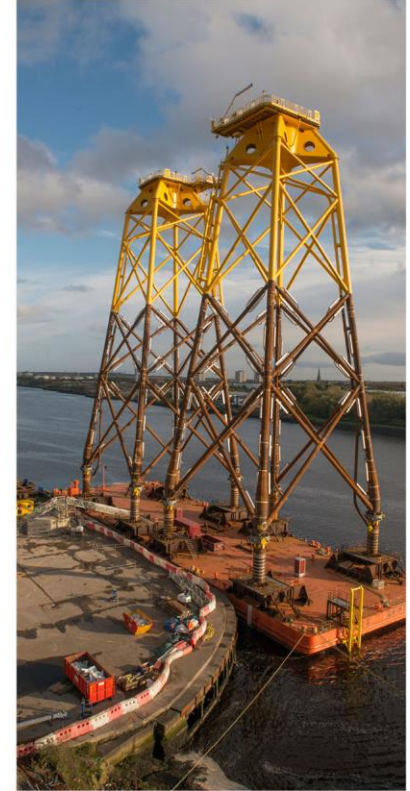
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The Importance of Being Logistics

Smulders

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# Smulders in Offshore Wind



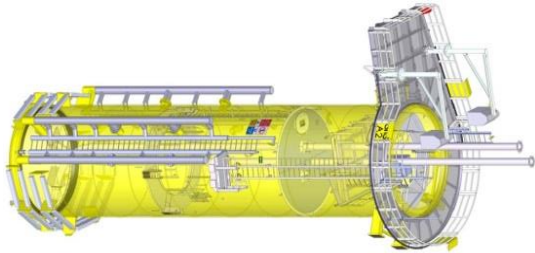
# My message today:

**“Logistics is an integrated part of the product line of offshore foundations and should be treated accordingly”.**

- Equal level as **pre-fabrication, assembly** and **T&I**
- To be integrated in the **design**
- To be accounted for during the **tender**
- Impact on delivery time and budget cannot be under-estimated

# Why are excellent logistics paramount?

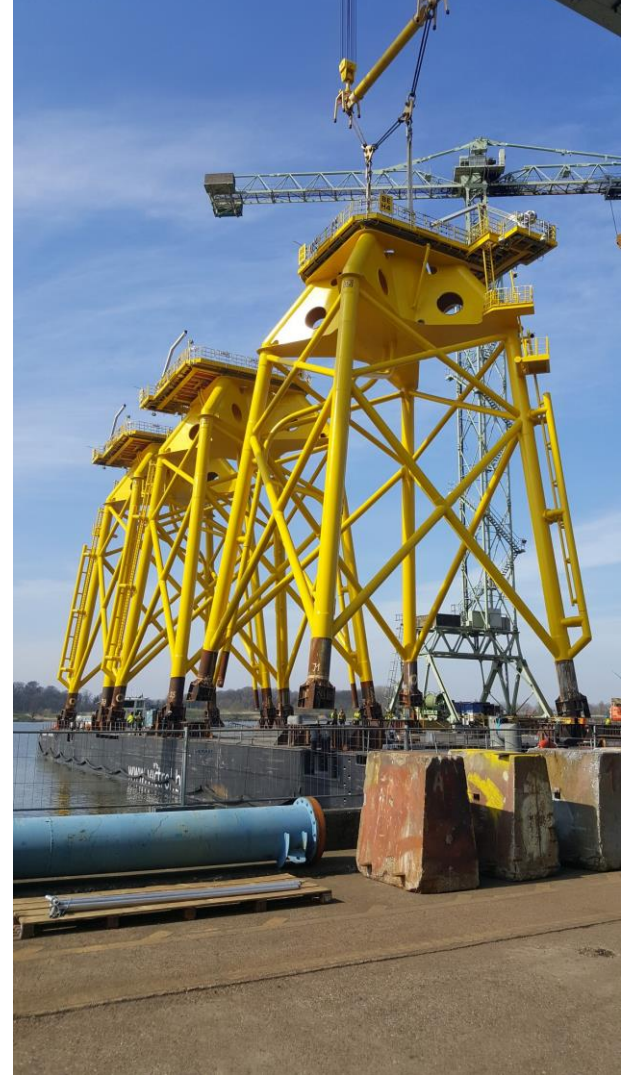
- “Automotive” industrialised production



- Quantities: 7.650 parts (375 welded – 7275 mounted) per TP or 612.000 for typical 80pcs TP-project
- Delivery: 3-4/week to 7/week (simultaneous projects)

# What to do in design phase?

- Avoid using exotic materials
- Consider transport and handling
- Use standardized items, even when clustering
- Identify LLI in Design Risk Register



# What to do fabrication phase?

- Inhouse v/s subcontracting
- Long term relationships
- continuous quality delivery required: educate your suppliers
- Mapping your supply chain: more than planning
- Transport & Installation: protection and spare parts



# Advise to Suppliers and Subcontractors

- Become part of the industrialized fabrication methodology
- Think automotive!
- Good logistic plan is part of your product!
- Communicate your specific needs openly and well in time
- Avoid transport damages: late delivery has large consequences
- Think pro-actively: try to limited number of parts, integrate
  
- Produce environmental friendly sustainable products
- Take your social responsibility
- Be part of the Energy Transition

# Thank you for your attention

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