

Design & building of high-end vessels for offshore & dredging



G. Hamers 16 juni 2009

The technology innovator.



IHC Merwede focuses on niche markets in which it can serve customers with value add maritime work tools

Ships

Custom-built, Complex, focus on Engineering Standard Beaver Range Continuous Development World wide customer base

Ship and Systems

Integrated Product Newbuild After Sales Service: life cycle support

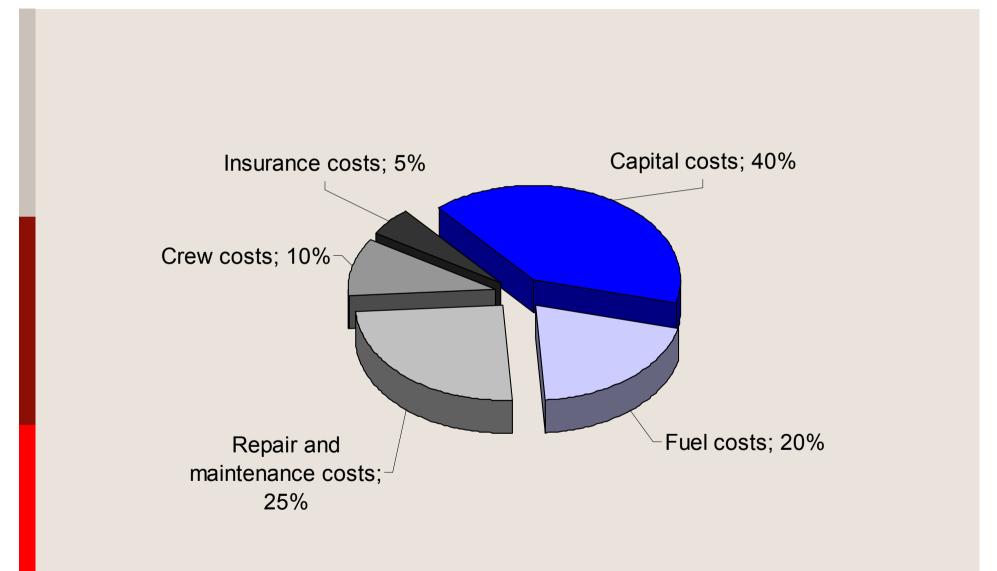
Products and Systems

Technology & Services

Markets

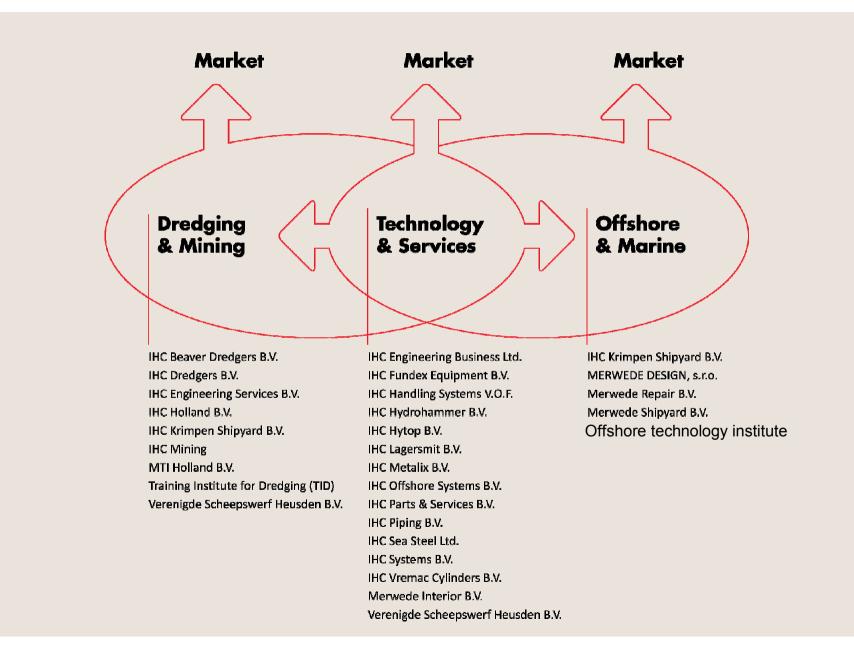
Dredging Offshore Construction Renewable energy (Deep Sea) Mining





MERWEDE

Through its decentralized organisation, IHC Merwede fosters strong local entrepreneurship and authority

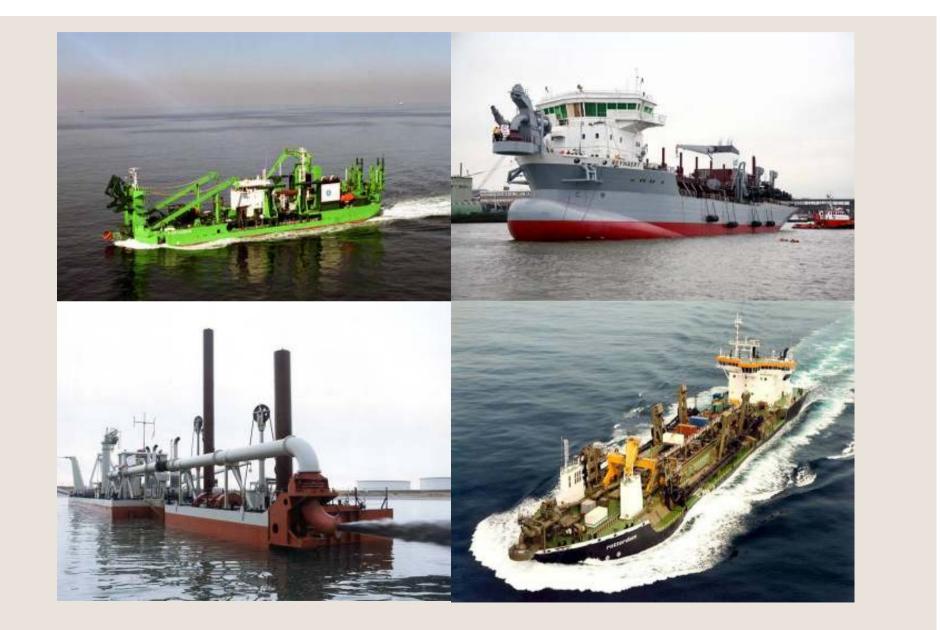








IHC Merwede is the clear world market leader in the design and build of dredging vessels



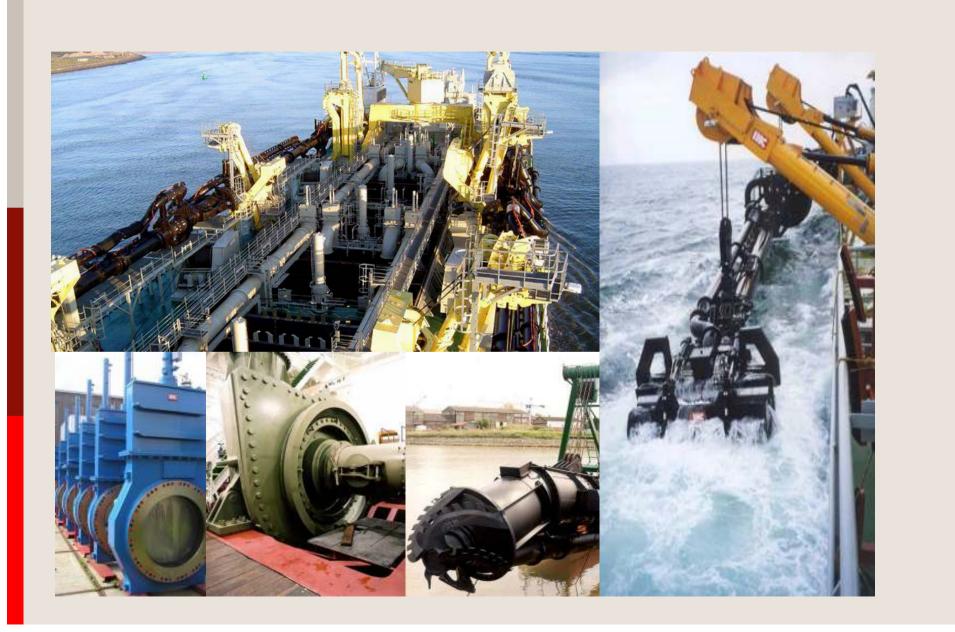


IHC Merwede is a recognized builder of high-end offshore vessels





IHC Merwede has a full range of dredging systems and components





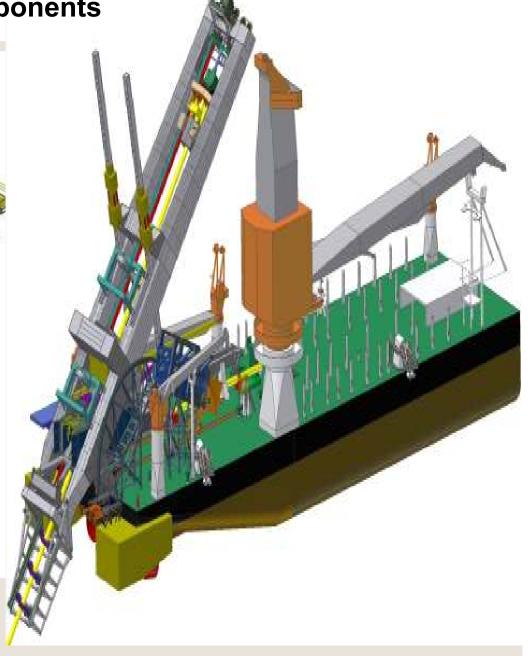
IHC Systems designs and builds integrated system automation & control units





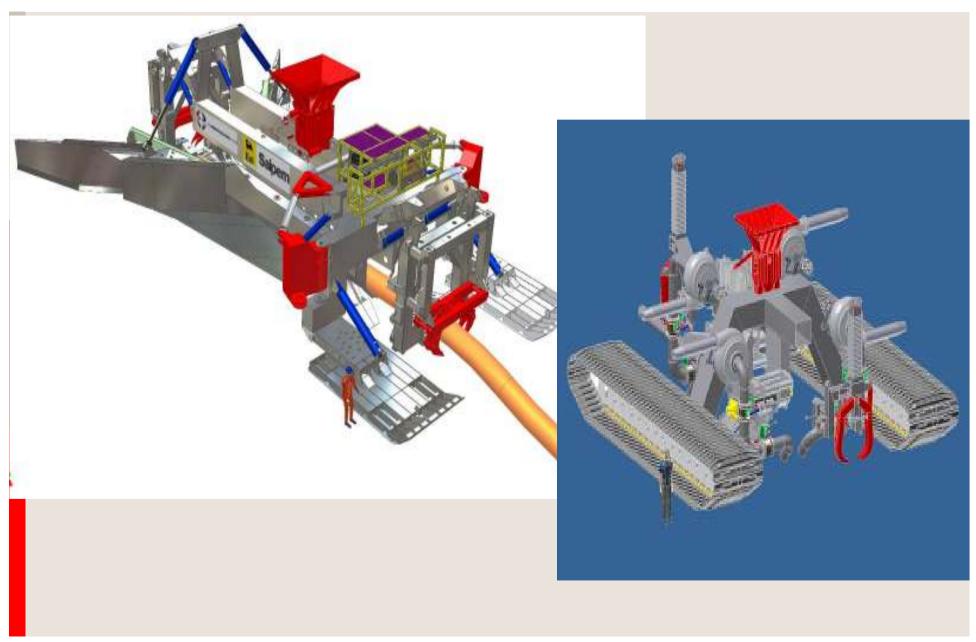
IHC Merwede is a designer and supplier of offshore equipment and components







IHC Merwede is a designer and supplier of offshore equipment and components





IHC Merwede is a designer and supplier of offshore equipment and components



Heave compensator by IHC Hytop



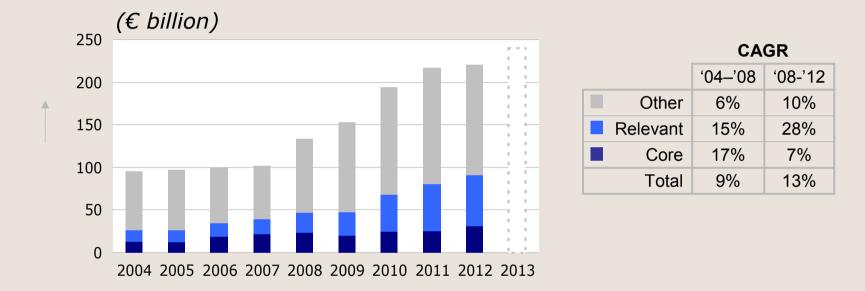
Offshore: overall demand





Investments in the offshore oil & gas market have seen steady growth over the years

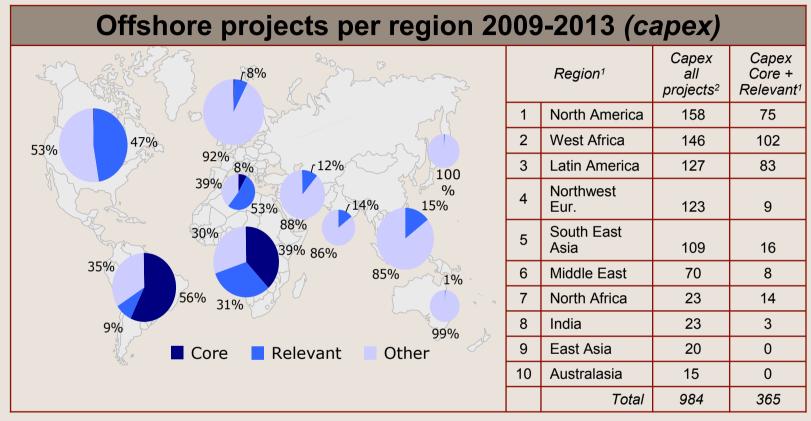
Total <u>Capex</u> in development of offshore oil & gas fields



- The offshore oil & gas market has seen steady growth over the last few years
- Despite the current down cycle, future annual growth of Capex on development of oil & gas fields is expected to be 11% until 2012, since the major investments in offshore are long-term and high-order, and therefore less influenced by (short-term) effects



Latin America and West Africa will offer the largest demand in the short to medium term

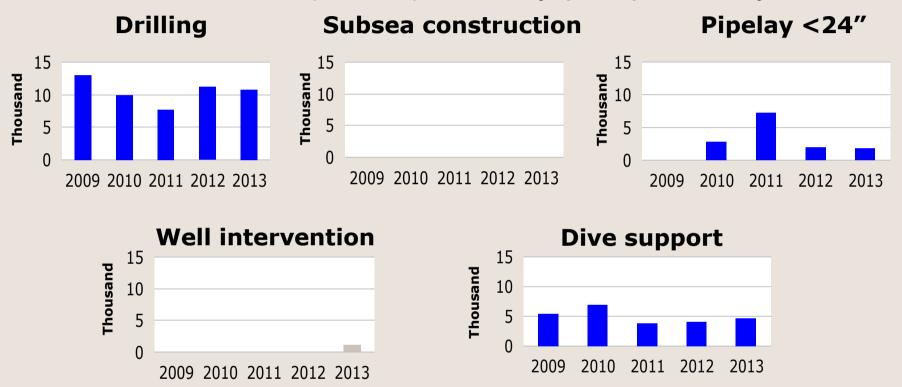


- North America, West Africa, Latin America and Northwest Europe are the main offshore regions
- Latin America and West Africa are the two most interesting regions regarding development of Core projects (the segment in which IHC Merwede vessels can best differentiate)
- Investment growth in projects in deep water, harsh weather conditions and high HSE standards will accelerate; a growth opportunity for IHC Merwede



Dive support and drilling have the highest overall demand for the coming years

Residual demand (2009-2013) in vessel days per ship functionality



- Drilling and dive support have the highest residual demand for the coming years
- Pipe lay vessels will be in demand but to a (somewhat) smaller extend than dive support and drilling
- IHC Merwede sees a medium to long term opportunity in heavy well intervention







IHC Merwede focus on 6 types of high-end vessels & its components:

- 1. Pipe layers
- 2. Diving support vessels
- 3. Well intervention / drill ships
- 4. Deep sea mining ships & mining equipment
- 5. Wind-turbine generator installation vessels
- 6. Integrated modular multi-purpose offshore vessels



1 Pipe layers

- Safer, less crew costs by high level of automation, higher productivity
- All technologies available within IHC Merwede & partners
- Truly integrated pipe-laying vessel



Seven Oceans

Length	157 m
Speed	15 kn
Total installed power	21,700 kW
Operating depth	3000 m



Seven Seas

Length	153 m
Speed	15 kn
Total installed power	21,700 kW
Operating depth	3000 m



2 Diving support vessels

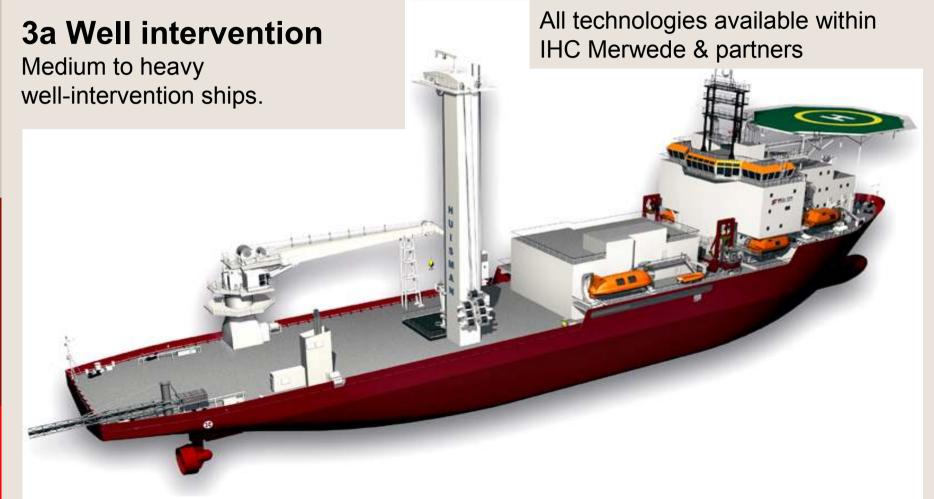
Highly complex & integrated design and turnkey delivery



Toisa Pegasus, Diving Support Vessel (2008)

Length: 132 m, Weight: 9440 t, Max. operating depth: 300 m Total installed power: 13.1 MW, Cranes: 400 t @ 3000 m water depth





Well Enhancer, Well intervention/ diving support vessel (2008) Length: 132 m, Weight: 7950 t, Max. operating depth: 300 m Total installed power: 15.9 MW, No. of divers: 18, No. of dive bells: 2



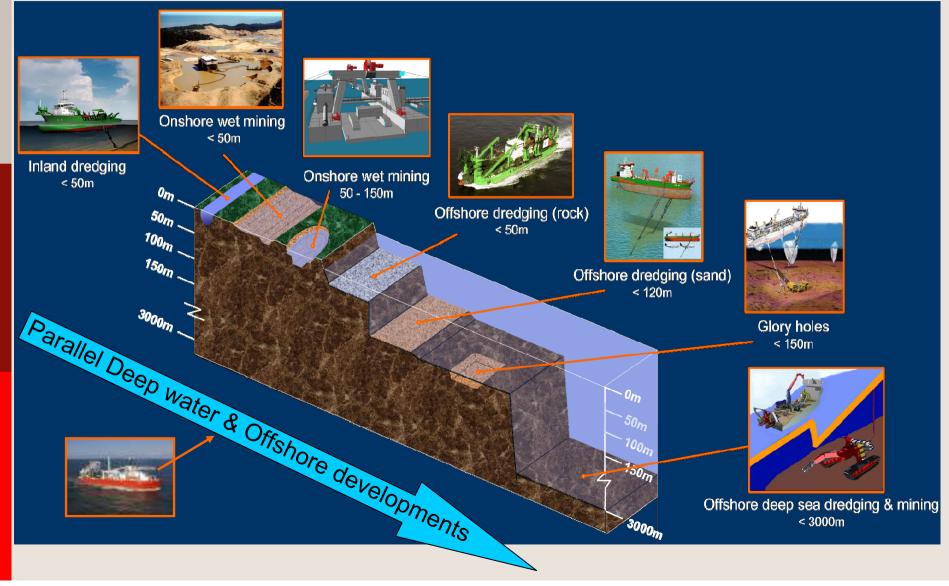


P-3672, Drilling vessel

Length: 189 m, Weight: 30000 t, Max. Drilling depth: 10000 m Total installed power: 34 MW, Max. water depth: 3000 m



Dredging & mining developments





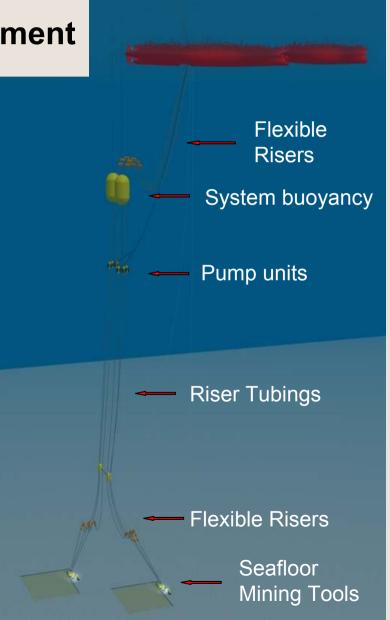
4a Deep sea mining ships & equipment

Focus on ultra deep water & high capacity mining operations.





Pump units 50 MegaWatts

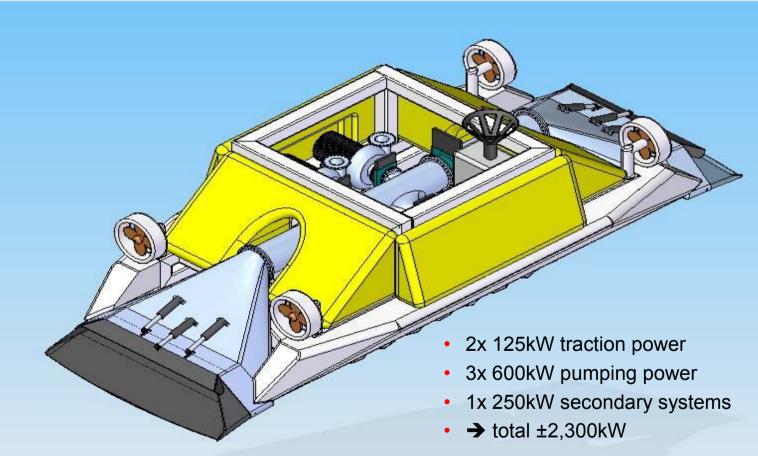




IHC Engineering Business Future Developments Offshore

4b Deep sea mining ships & equipment

Focus on ultra deep water & high capacity mining operations.



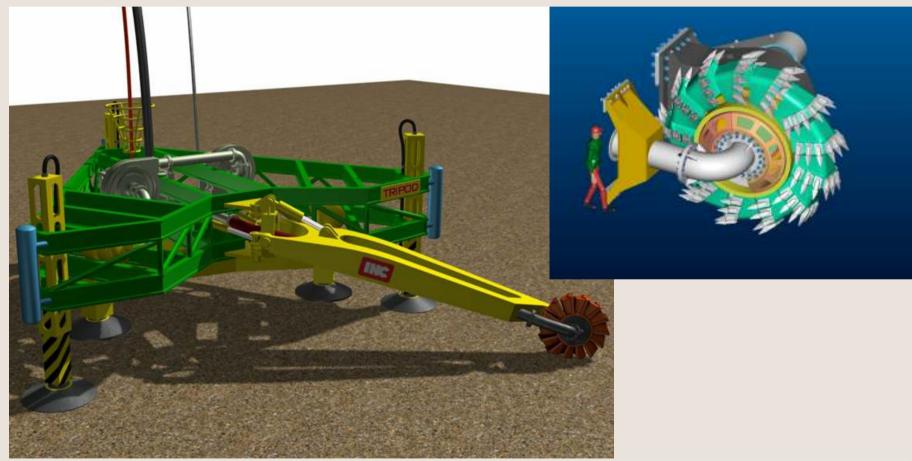
<Concept>, Seabed mining tool

Max. water depth: 4000 m



4c Deep sea mining ships & equipment

Focus on ultra deep water & high capacity mining operations.



<Concept>, Deep-sea mining tool Max. water depth: 4000 m



5a Wind-turbine Installation vessels

Integrated design and turnkey delivery



<Concept>, Jack-up type (1)

Length: 140 m, Weight: 11400 t, Max. water depth: 45 m



5b Wind-turbine & foundation installation vessels

Integrated design and turnkey delivery



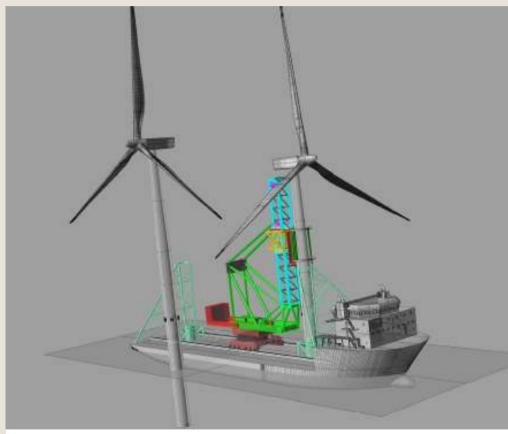
<Concept>, Jack-up type (2)

Length: 200 m, Weight: 14000 t, Max. water depth: 45 m



5c Wind-turbine & foundation installation vessels

Integrated design and turnkey delivery



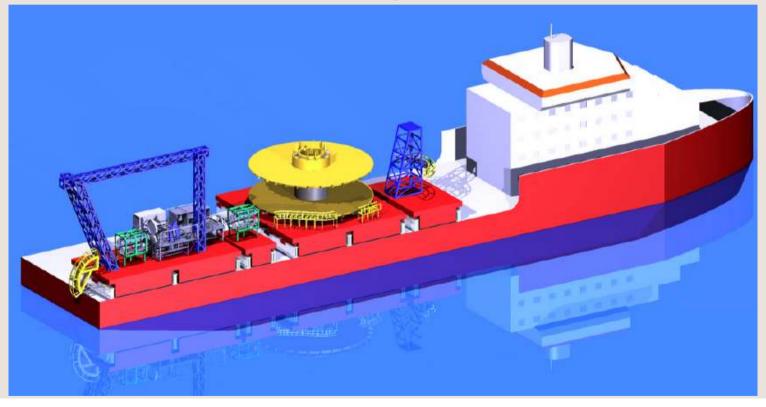
- No jacking procedures
- Fast installation
- High-end hydraulic system
 & automation
- Superior weather window

<Concept>, Floating type Length: 160 m, Weight: 12500 t



6 Integrated modular multi-purpose offshore vessels

Integrated design and turnkey delivery of vessel & modules Avoids expensive and time consuming rebuilds



<Concept>, Skid-type modular vessel



END

Thanks for your attention

Questions are welcome

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