

Removing Large Offshore Platforms in a Single Lift: "Pioneering Spirit"

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51<sup>st</sup> Annual IPLOCA Convention 28 September 2017 Mexico City

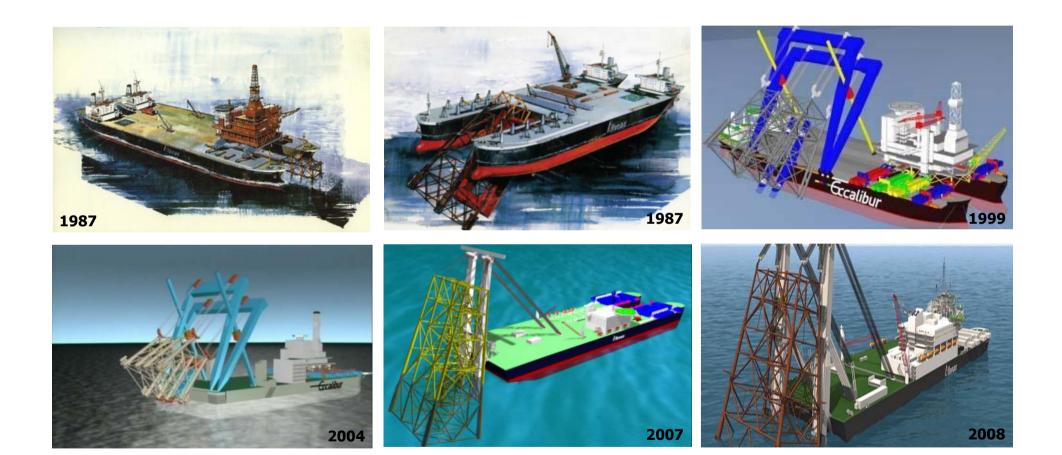






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### History of the *Pioneering Spirit* concept





#### Heavy lift capacities of *Pieter Schelte*

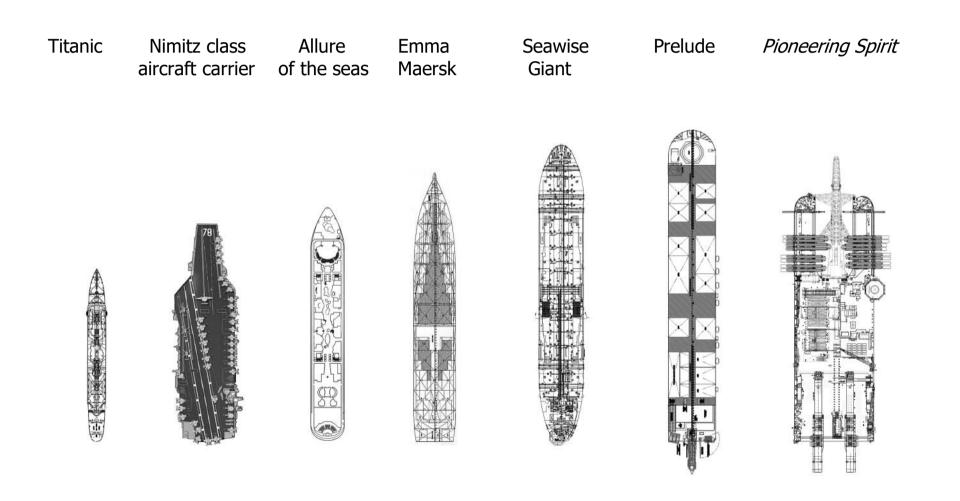
Topsides lifting:	48,000 t
Jacket lifting:	25,000 t

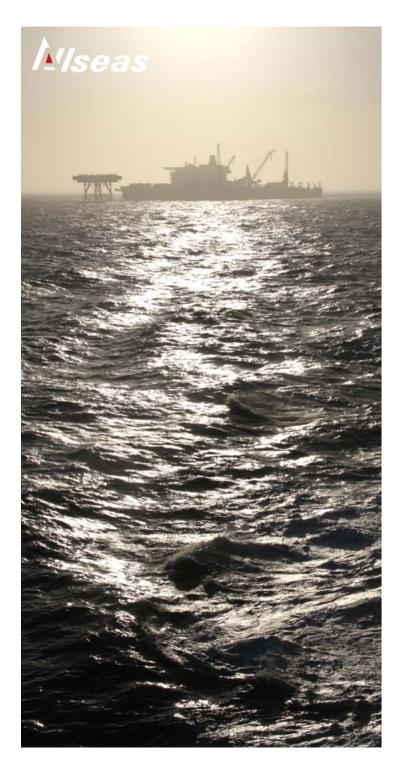
Single-lift installation and removal of

Steel jacket-based platforms, Topsides of gravity based structures, and Topsides of floating platforms, notably SPARs

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### Size of *Pioneering Spirit*





## **Construction of** *Pioneering Spirit*







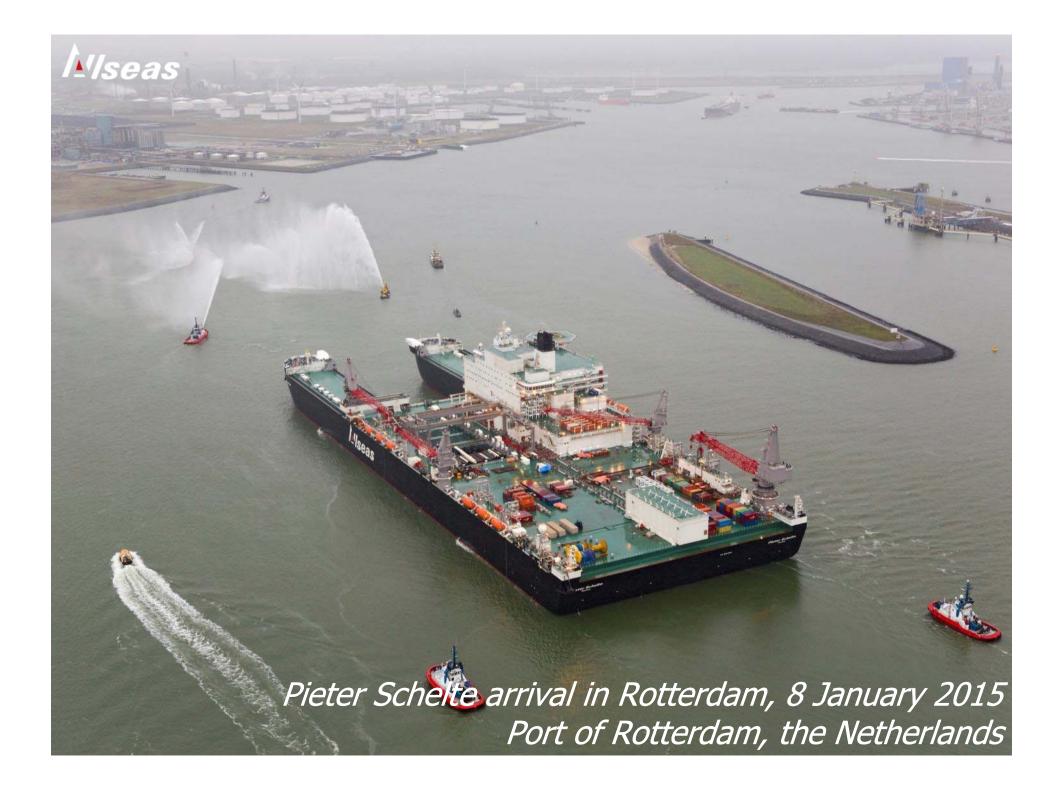


Positioning the portside hull and the starboard hull next to each other, November 2012 Daewoo shipyard, Okpo, South Korea





Pieter Schelte in Cape Town for crew change, December 2014 Cape Town, South Africa



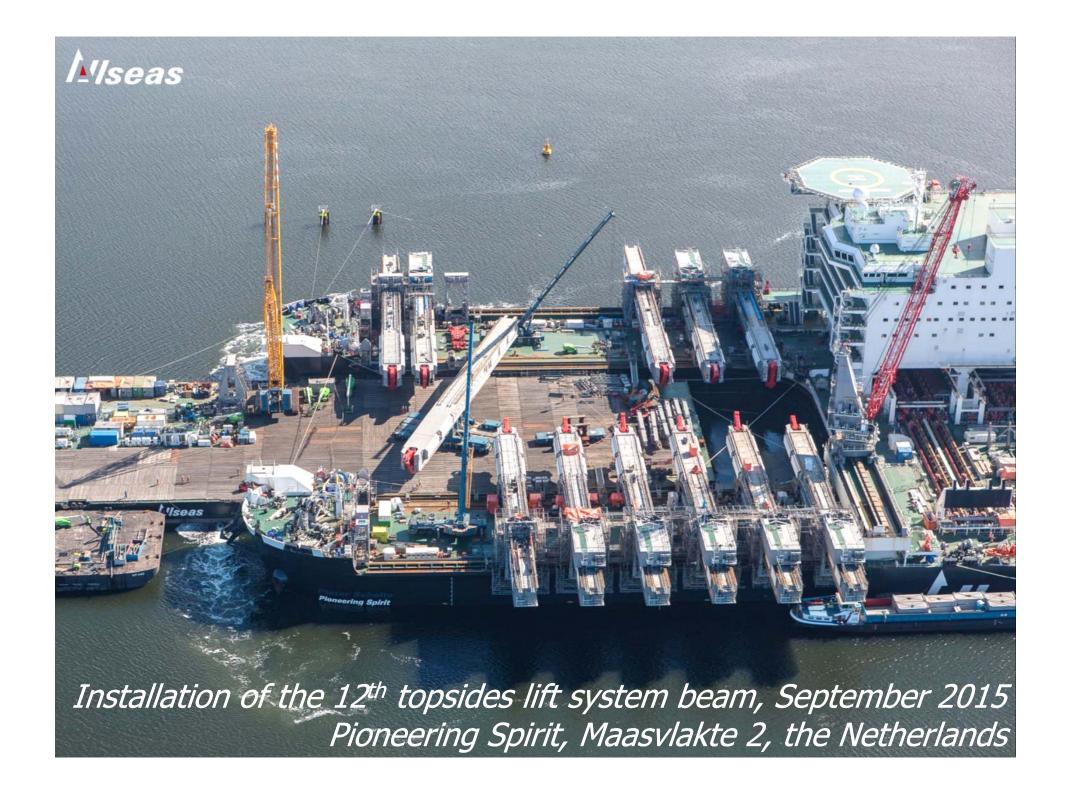
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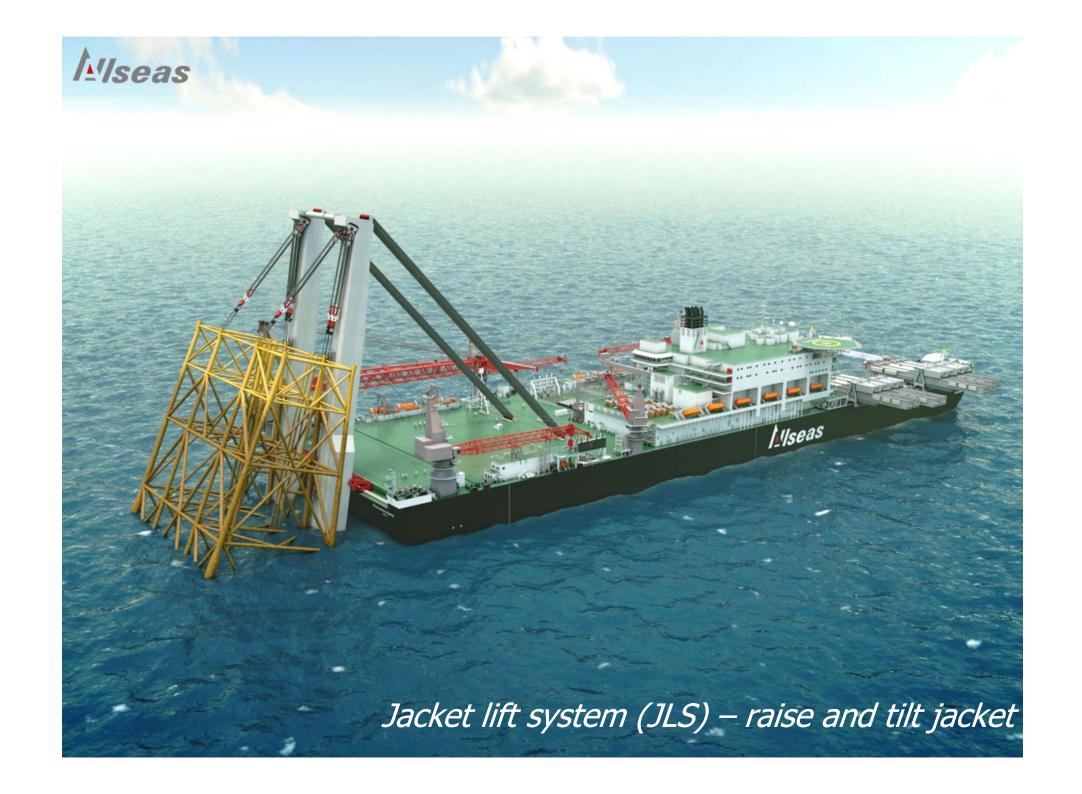
Inauguration of Pioneering Spirit, 27 February 2015 Alexiahaven, Maasvlakte 2, the Netherlands

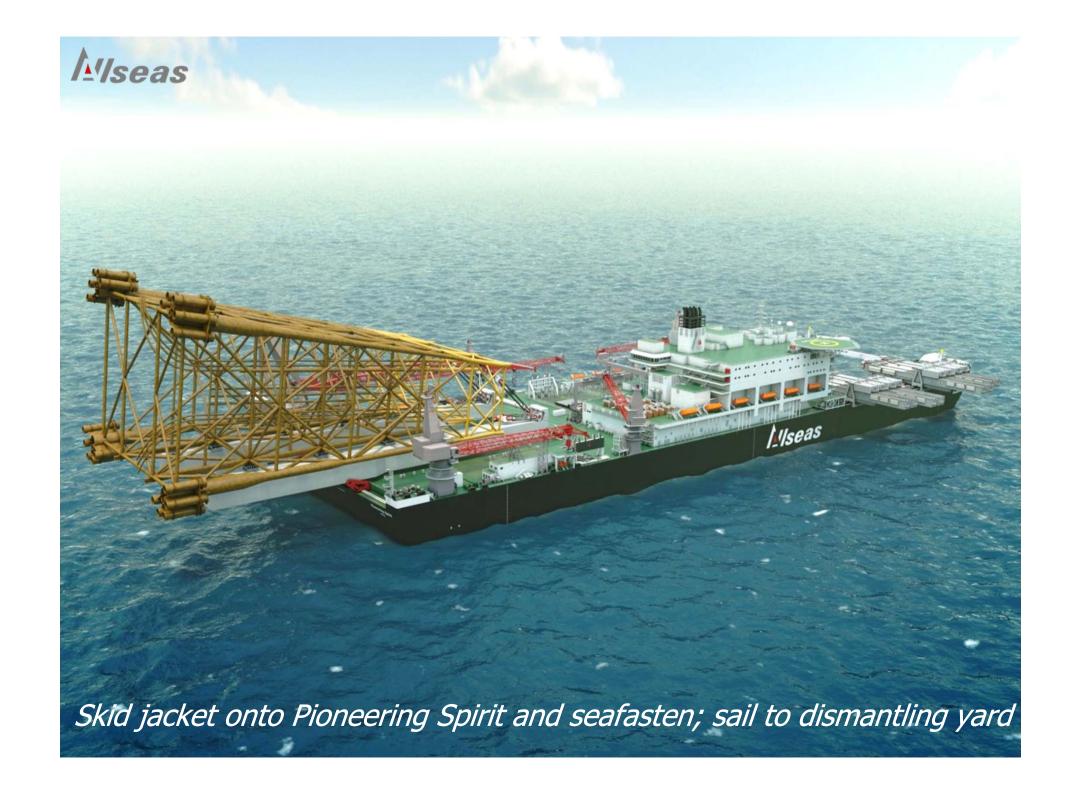
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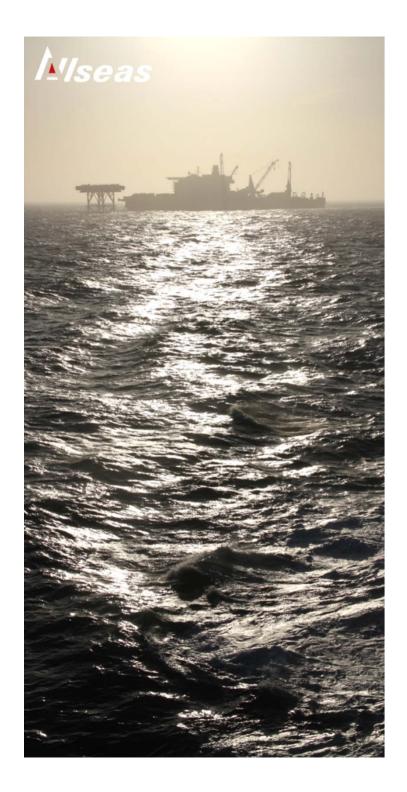
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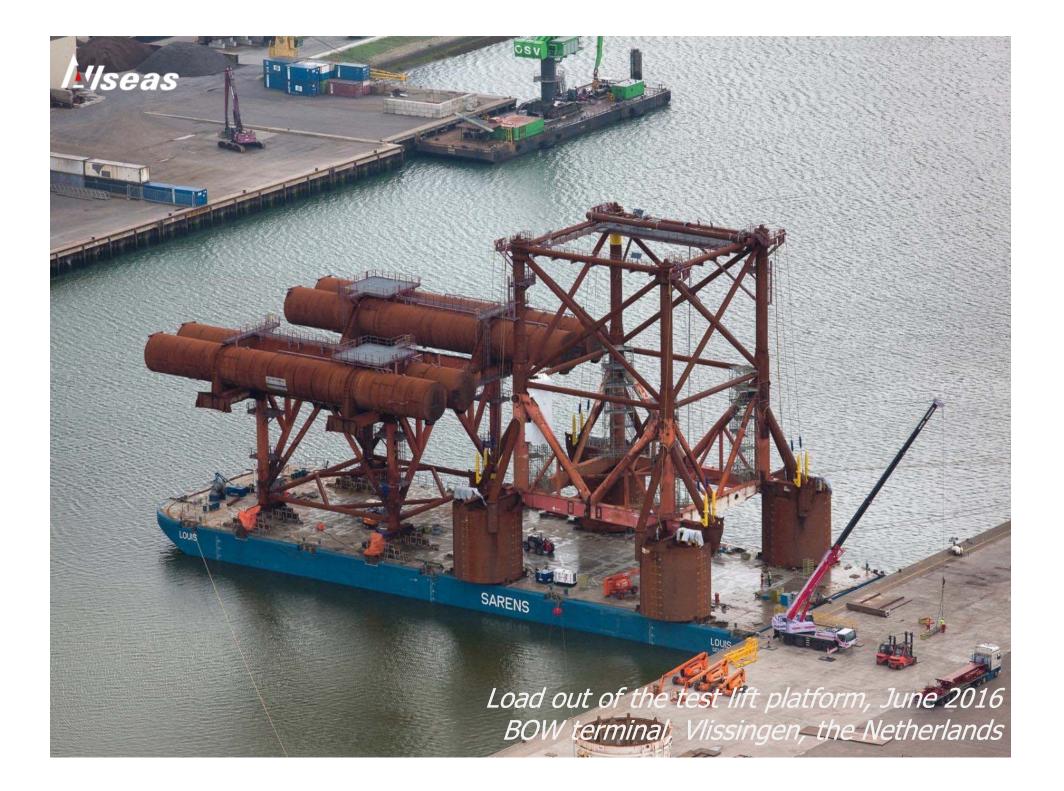






Installation and removal of test platform topsides of 5500 t in the Southern North Sea

**August 2016** 



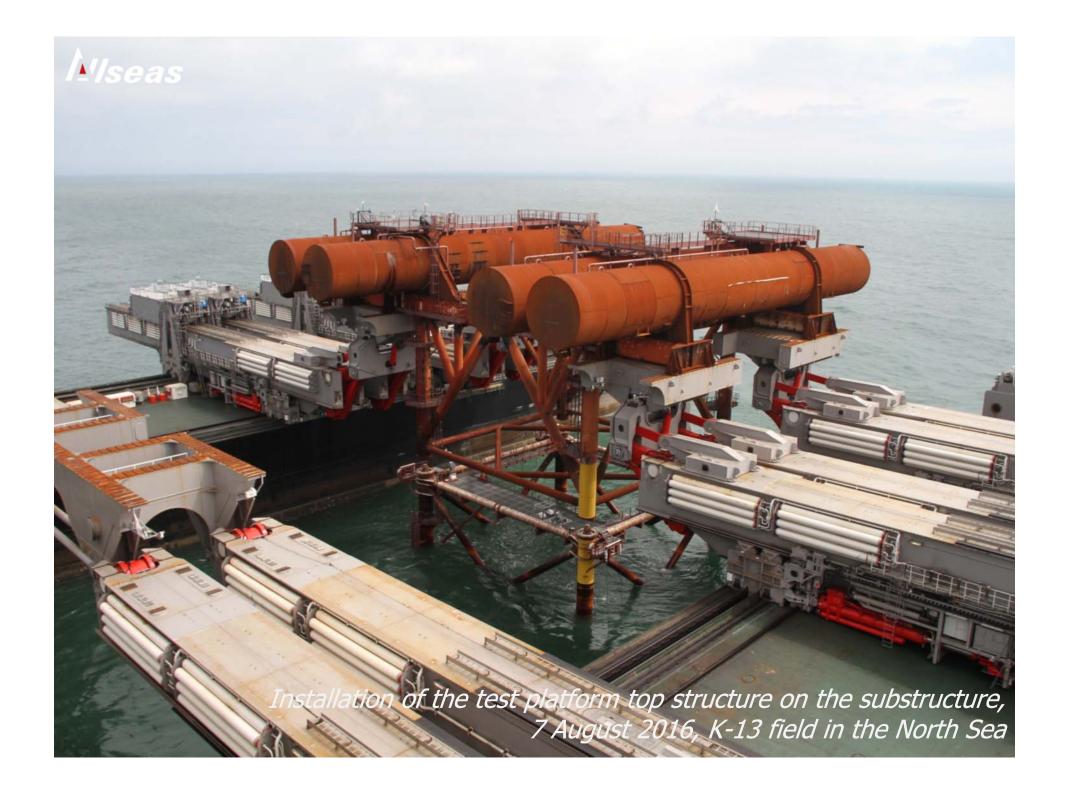
Transfer test platform to *Pioneering Spirit,* August 2016, Alexia haven, *the Netherlands* 

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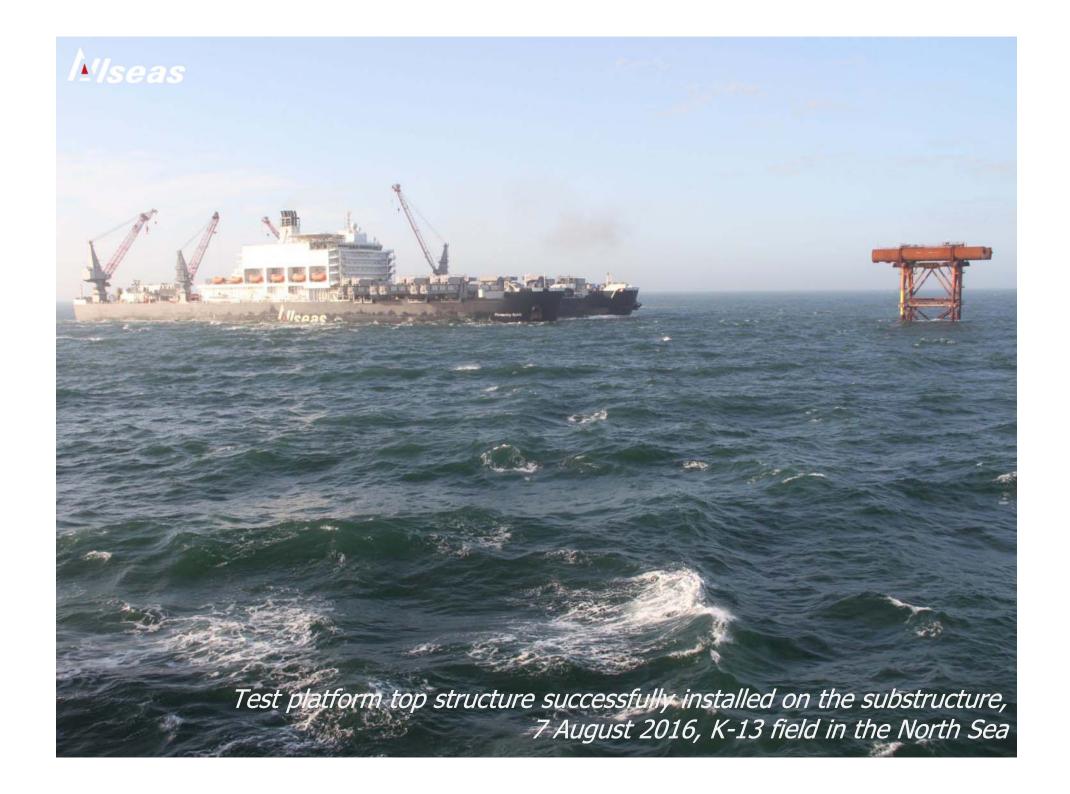
Preparing the test platform substructure for installation of the top structure, 6 August 2016, K-13 field in the North Sea

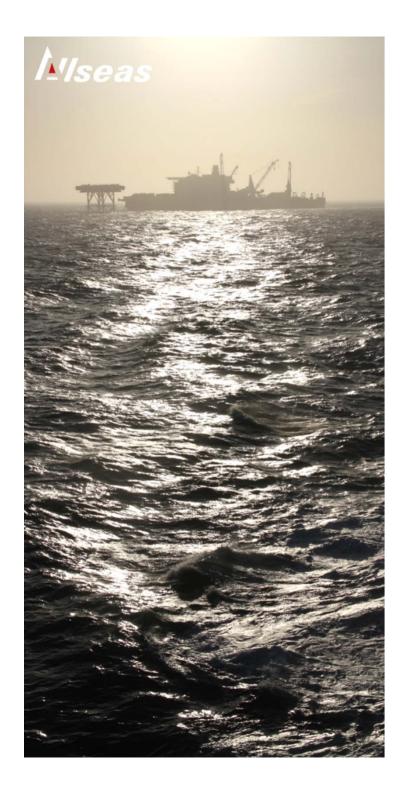
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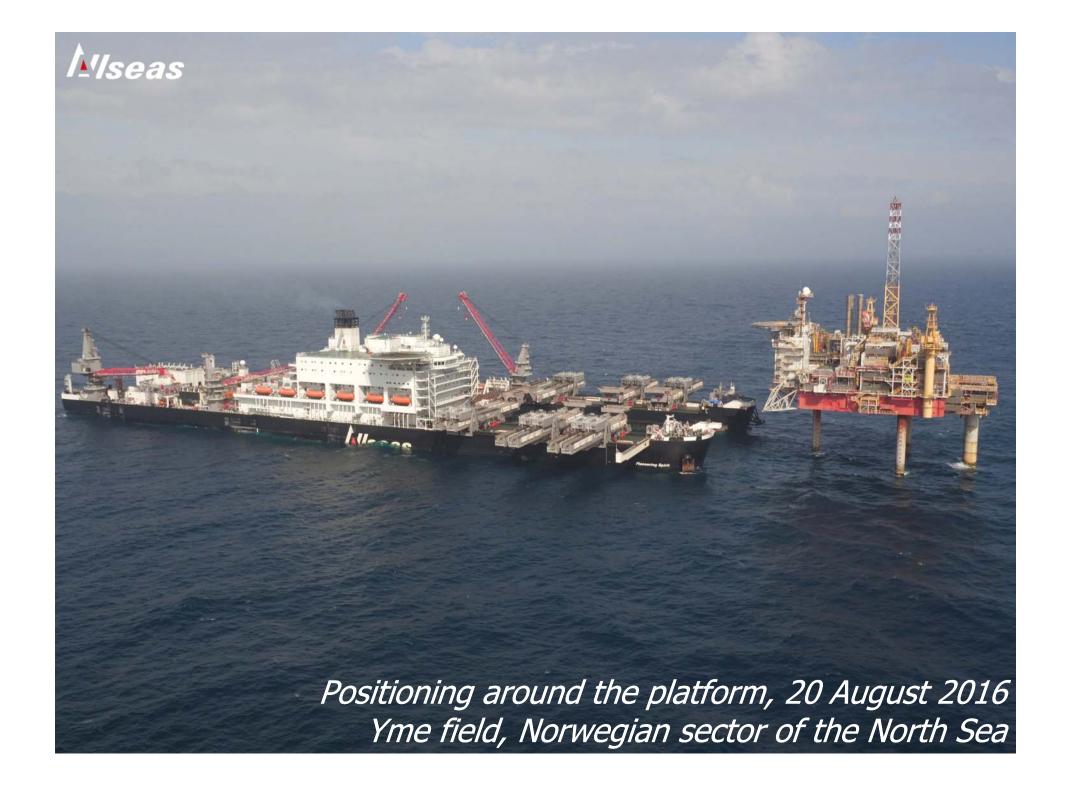
Installation of the test platform top structure on the substructure, 7 August 2016, K-13 field in the North Sea

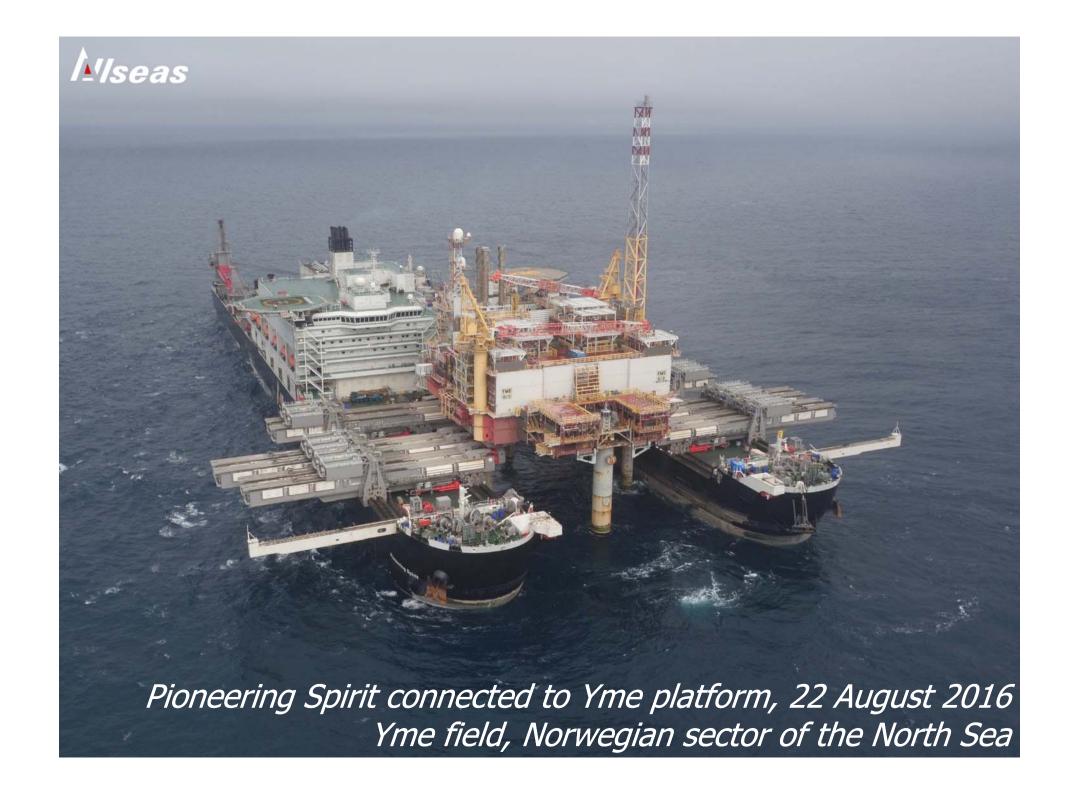
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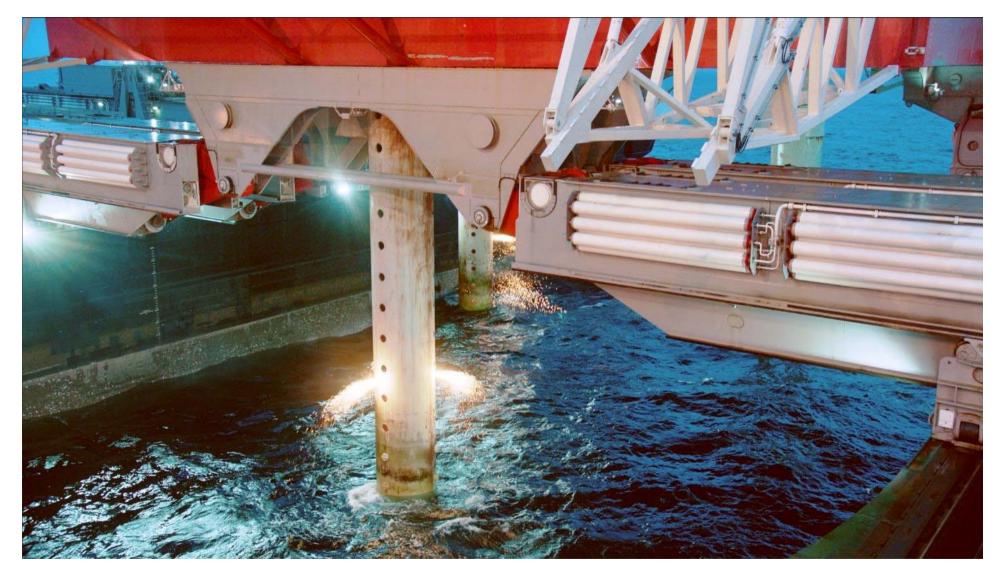


Removal of the 13,500 t Yme platform North Sea, August 2016





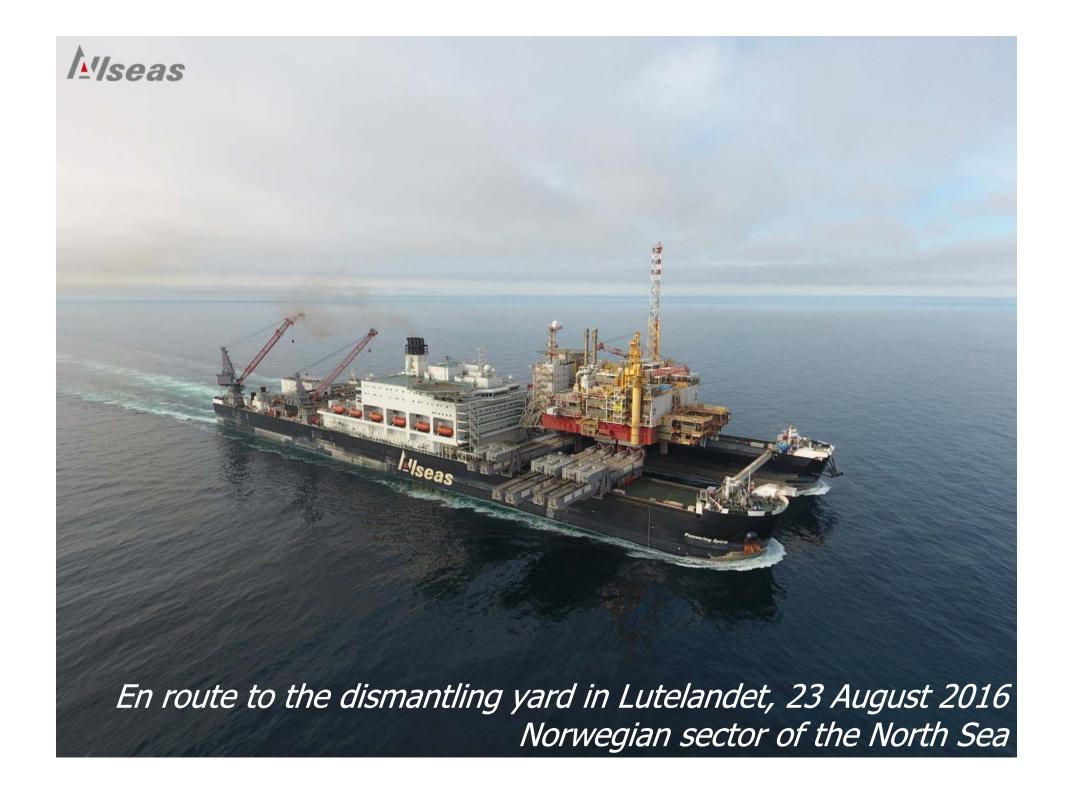
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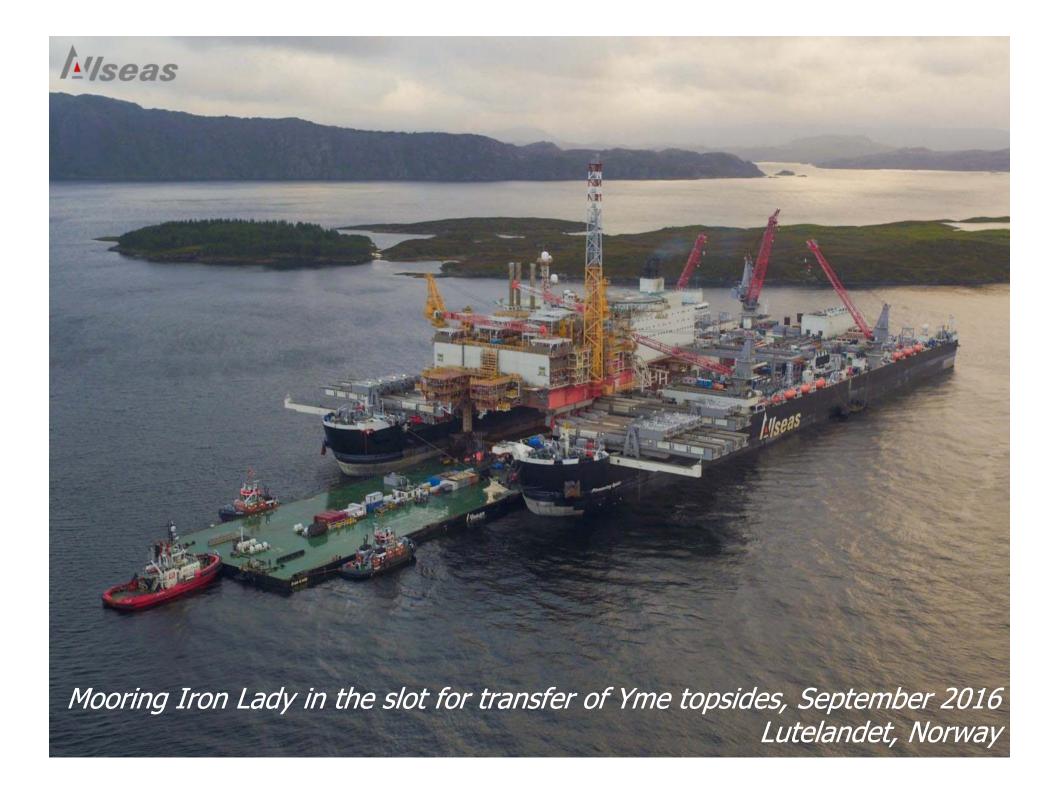


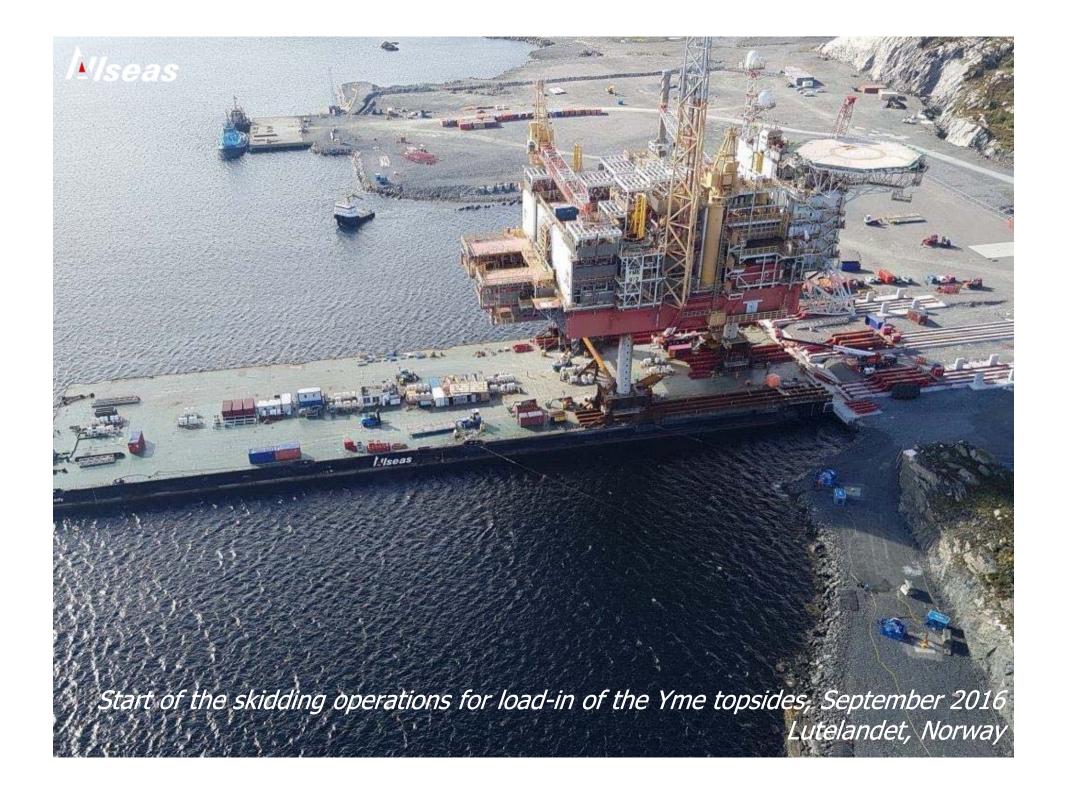
*Cutting the three platform legs, 22 August 2016 Yme field, Norwegian sector of the North Sea* 

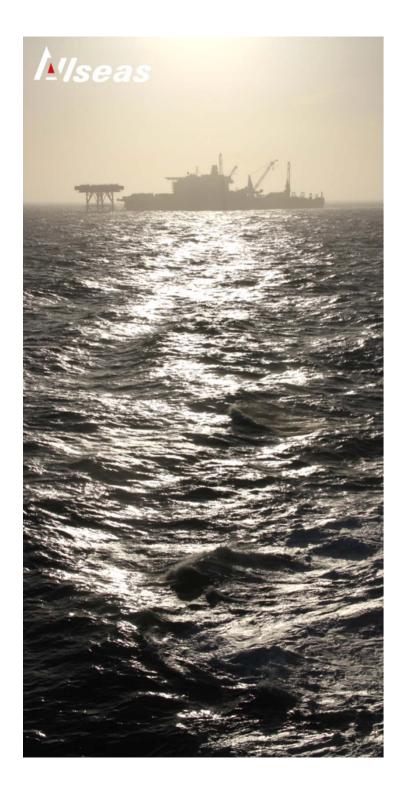










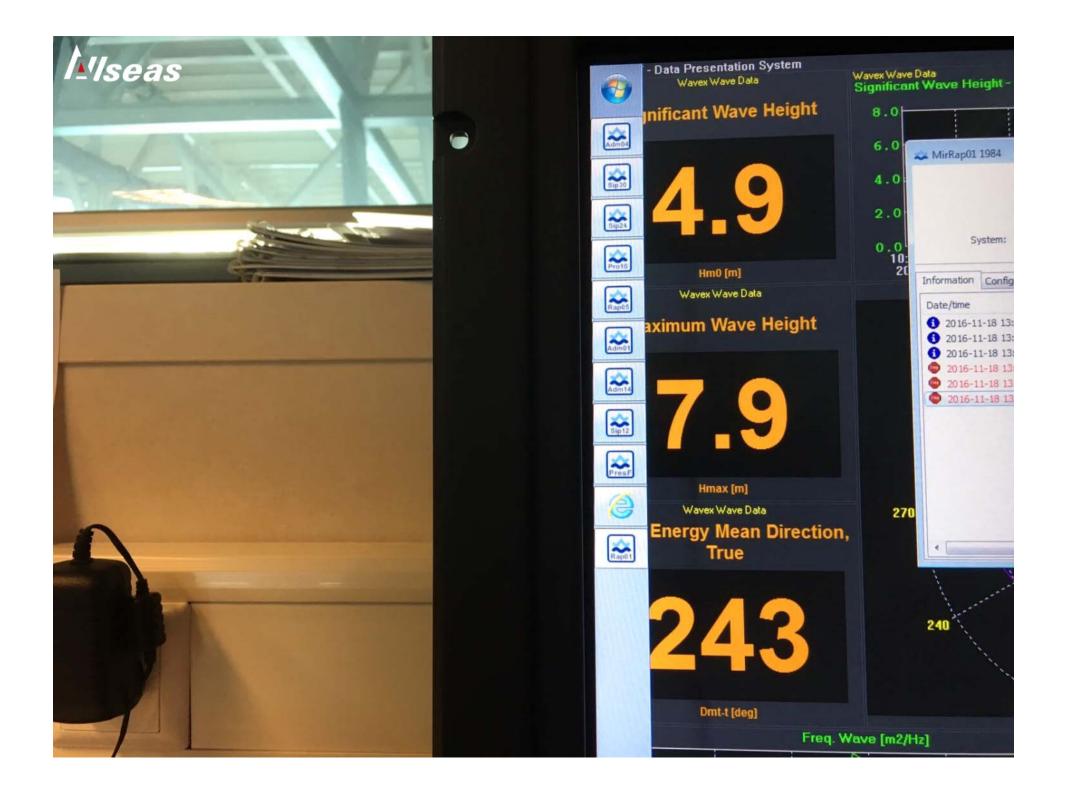


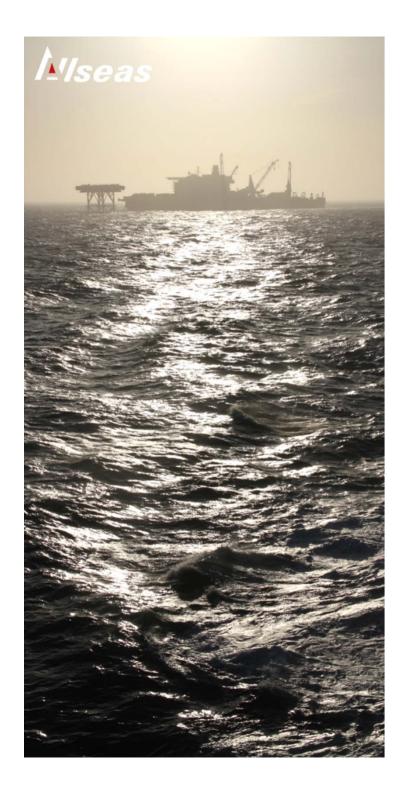
## Offshore trials of the topsides lift system North Sea, November 2016

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Preparing for the second series of offshore trials, November 2016 K-13 field in the North Sea





Removal of the 24,000 t Shell Brent Delta platform North Sea, April 2017

## **Shell Brent field removal**

Shell Brent Drilling/Production (Brent Alpha, Bravo, Charlie and Delta) Block 211/29 North Sea 140 m 16,000 – 31,000 t 2017-2023



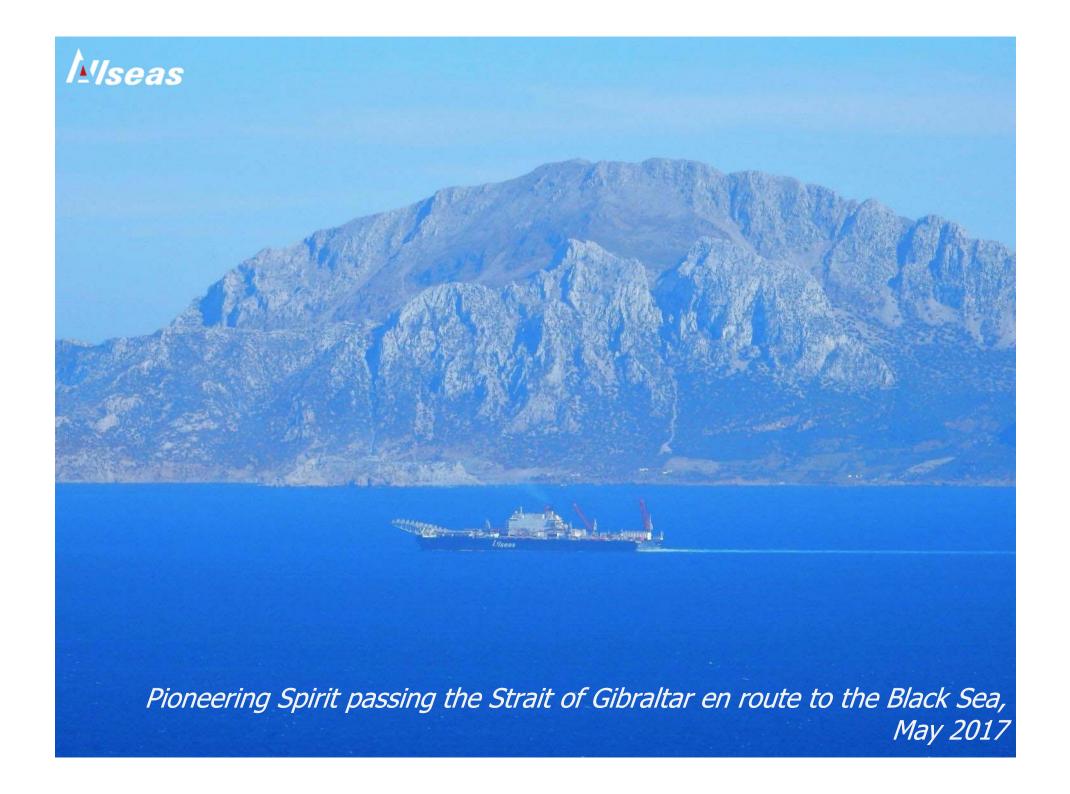
## Installation of the first TurkStream pipeline in the Black Sea

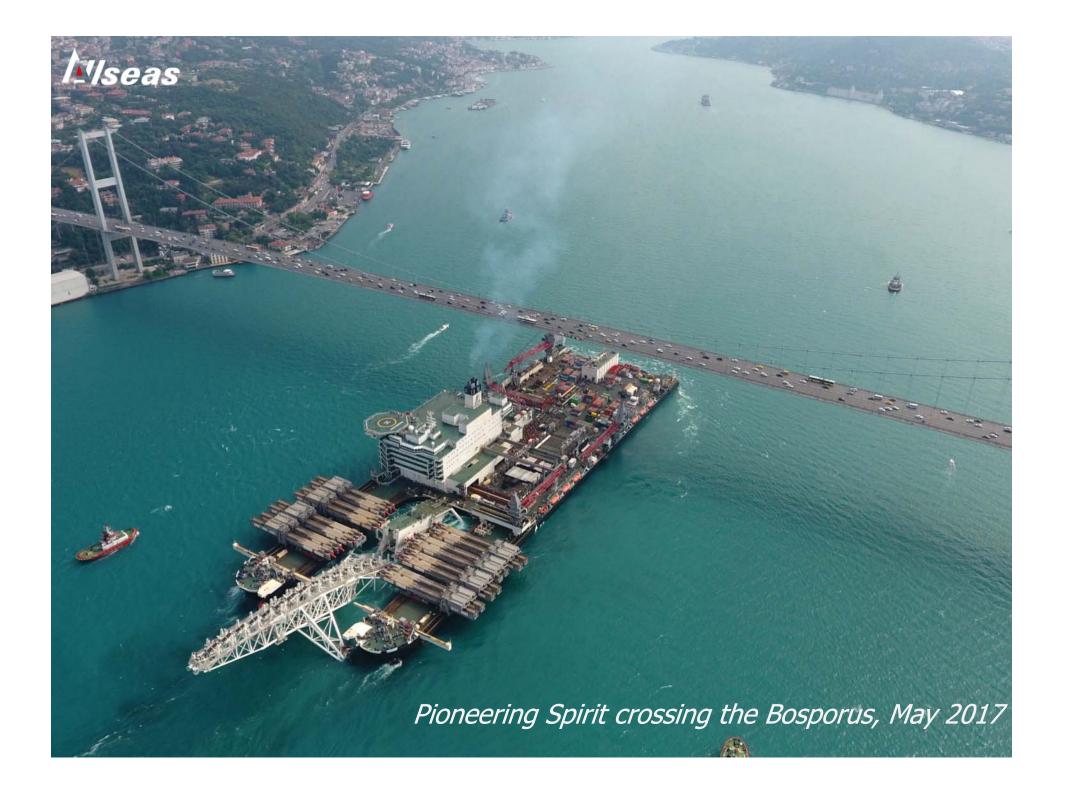
## 900 km of 32" O.D. pipe with 40 mm wall thickness

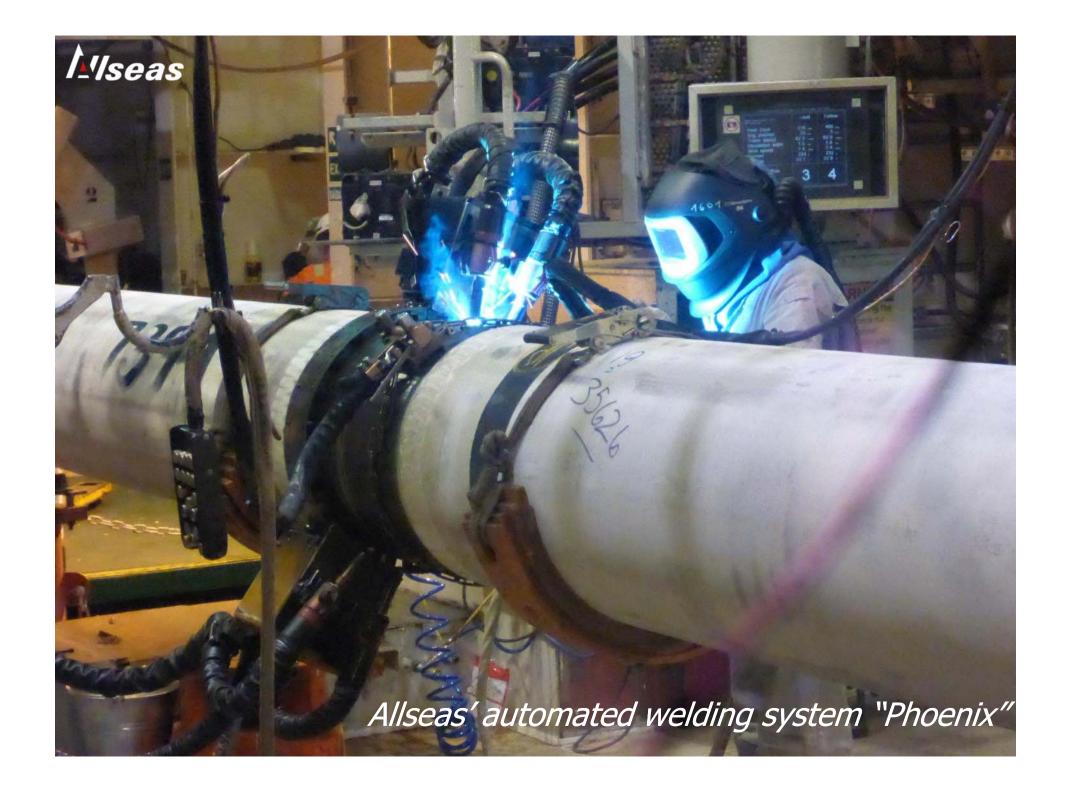
from June 2017 onwards











Triple torch welding in firing line, March 2017 Pioneering Spirit, Maasvlakte 2, the Netherlands

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