









OLSO – PARIS CONVENTION





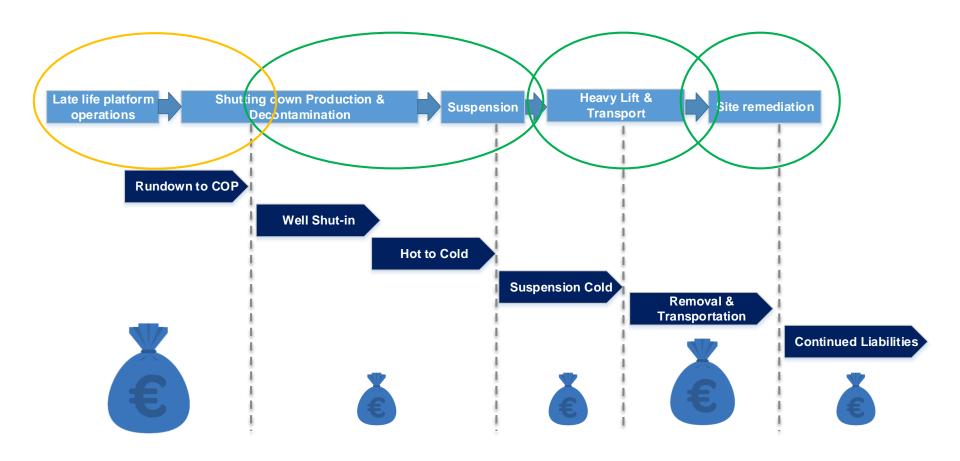
Decision 98/3 on the disposal of disused Offshore Installations:

The dumping, and the leaving wholly or partly in place, of disused offshore installations within the maritime area is prohibited.





DECOMMISSIONING PROCESS



From: http://www.atlanticmo.com/assets/images/DecommissioningProcess.png



BACKGROUND

THE MARKET



From Infield: Offshore structures North-Sea < 1600 ton



BACKGROUND

THE MARKET



From Infield: Number of Offshore structures Southern North-Sea to be removed per year





TOPSIDE LIFTING - TODAY







Pioneering Spirit

Versabar 10000

All sorts of reverse Installation operations. Small-piece removal

In common:

- Aiming at very large platforms
- And / or very small operation window



MAIN REQUIREMENTS

- Capable of lifting of offshore topsides <1600 tons</p>
- Low-cost
- Regions:
 - Primarily North Sea
 - Spin-off to other regions
- Preferred lifting method: from below
- Good operability
- Suited for other functions in the decom chain as well



MAIN CHARACTERISTICS

DAMEN DECON

Motion-compensated topside lifting system

"Portable" equipment:

- offshore gangway
- **ROV-LARS**

1100 m² free deck area Strengthened for wheeled loads

> 55 cabins; suitable for 70 -100 persons on board. Easily expandable

Loa: 95m

Boa: approx. 43m

Azimuth propulsion Self-propelled Closed-bus DP-2, DP-3

Offshore auxiliary crane

Column-stabilized semisubmersible.

Result: very low

motions

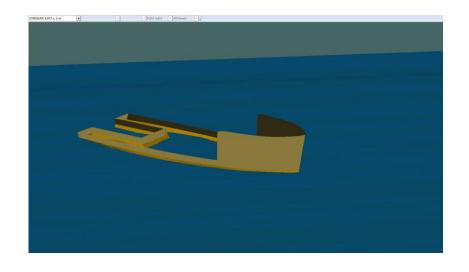
Lifting capacity: 1600 tons at 30m above sea level Weather conditions during lifting: Hs 2m (Sea state 4) Station keeping performance: Hs 3.5 m (Sea state 5)

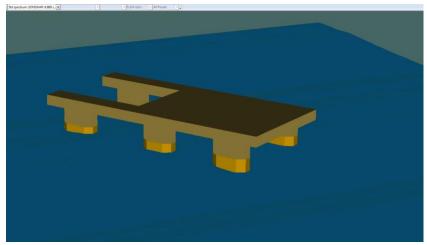
Free sailing speed: 10 kn





WHY A SEMI-SUB?



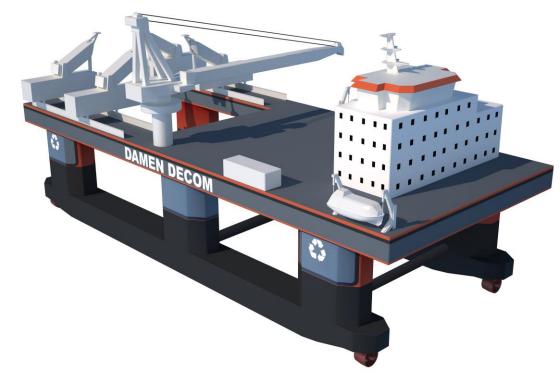


MONO HULL

SEMI-SUBMERSIBLE



THIS IS...



- Not the largest
- Not the strongest
- Not a down-scaled Pioneering Spirit
- But: Efficient for the lower end of the market





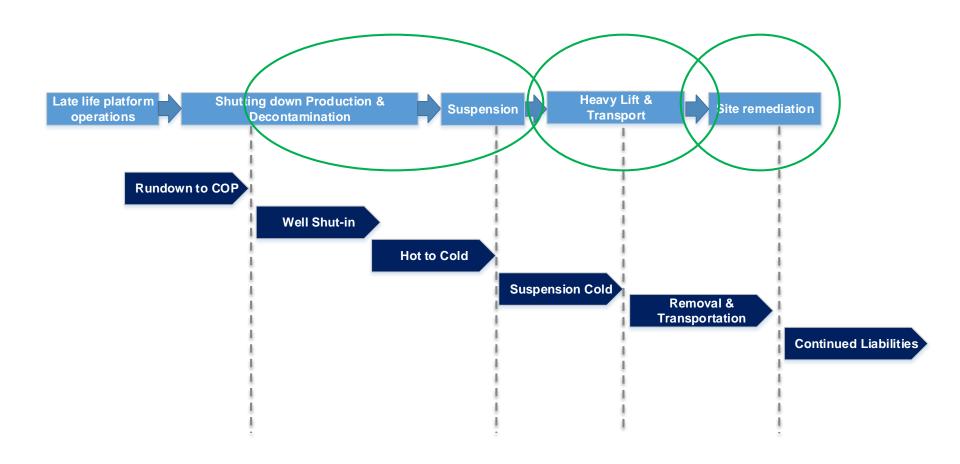


THE FUNCTIONS





THE DECOM PROCESS

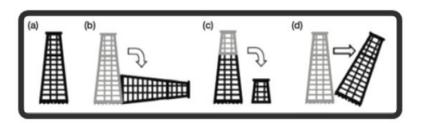


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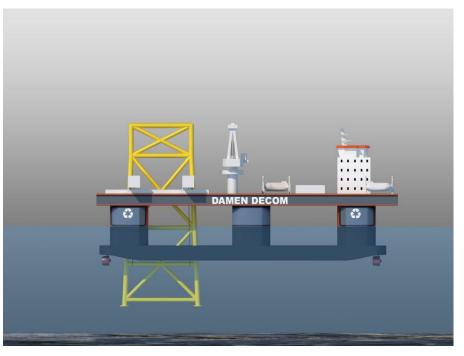
JACKET HANDLING

Lifting and tilting jackets for complete removal



From: DECOM North Sea – alternative decommissioning options – Rigs To Reef

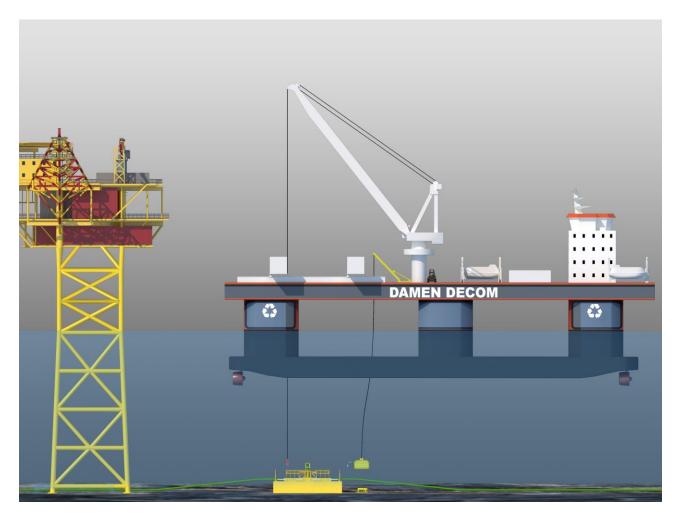
- a) Leaving jacket in place
- b) Tilting and sinking
- c) Cutting the upper part and placing it on the sea bed
- d) Towing to another location and tilt / sink it







SUBSEA OPERATIONS





LIGHT (DE)CONSTRUCTION





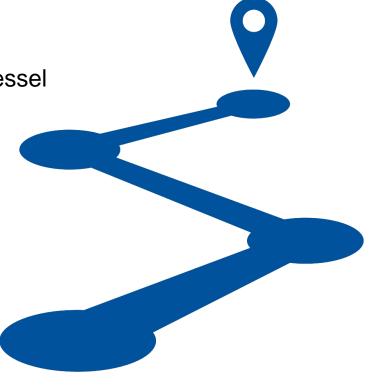
CONCLUSION

What do we have:

- Concept design for a versatile offshore lift vessel
- It fullfills main market demand for efficient topside removal
- Capable of many other offshore tasks

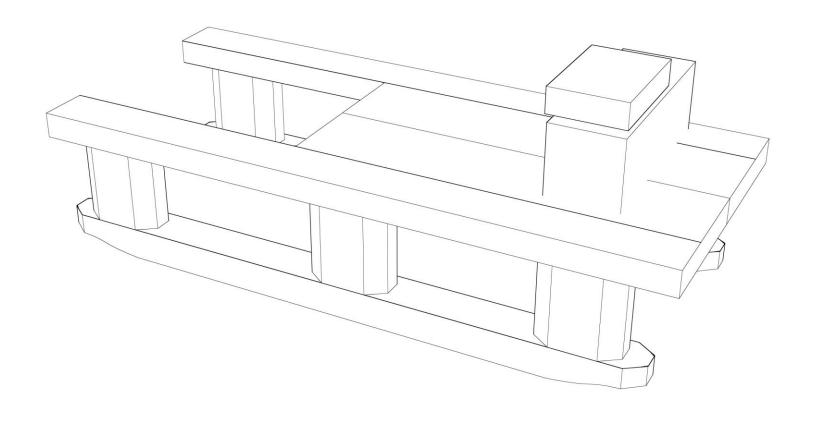
What's next:

Further development with market partners



WHERE ARE WE?





THANKS FOR YOUR ATTENTION

