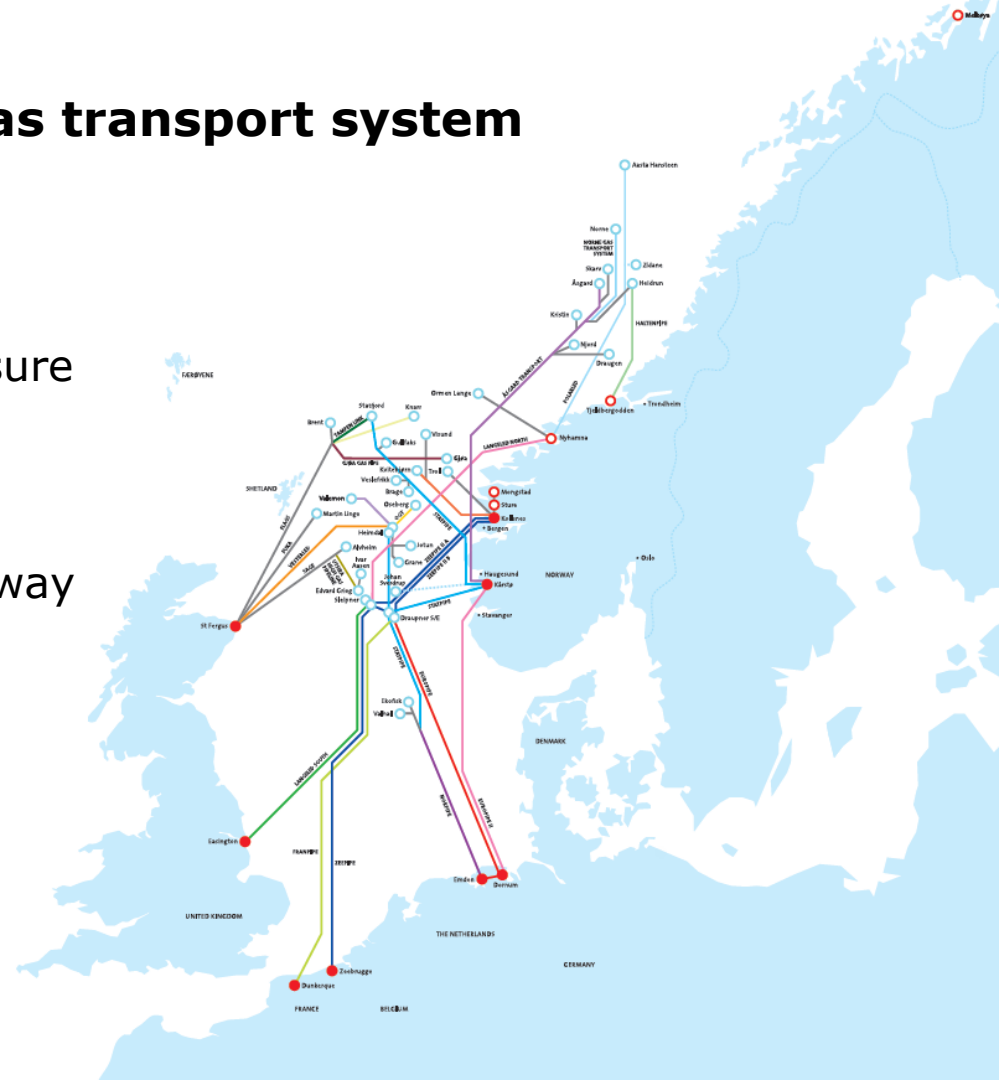


Heimdal junction – The future

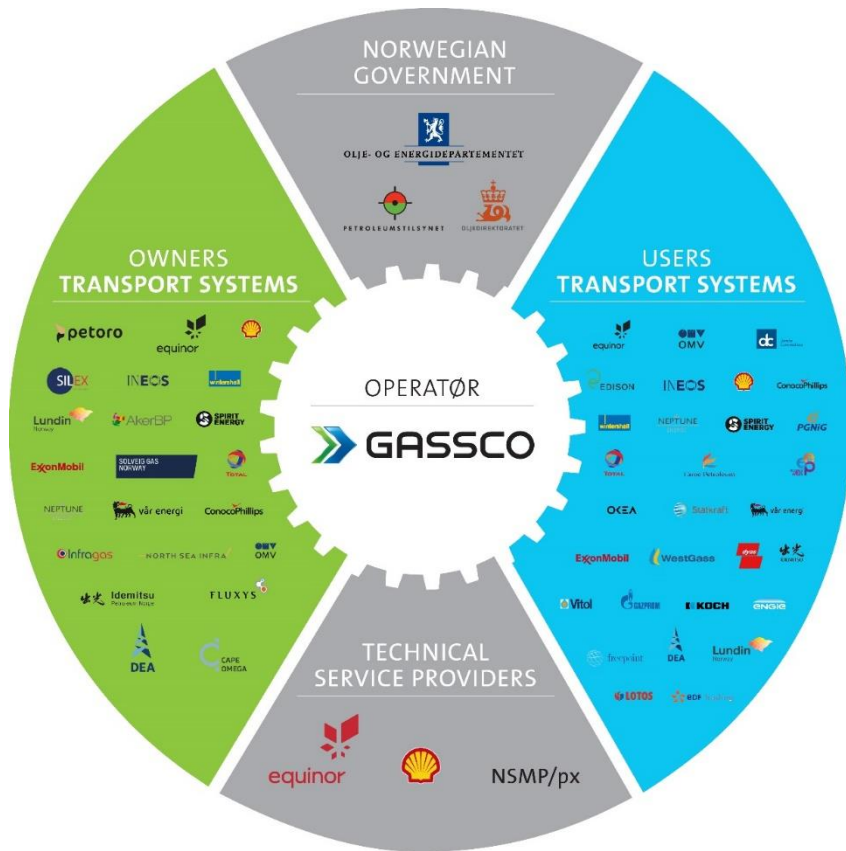


The integrated Norwegian gas transport system

- Connected to all major gas-producing fields on the NCS
- 8900 km of large-diameter, high-pressure pipelines
- Riser platforms
- Three large processing facilities in Norway
- Receiving terminals in four European countries
- Connected to major downstream gas transmission systems in Europe and the UK



Stakeholders

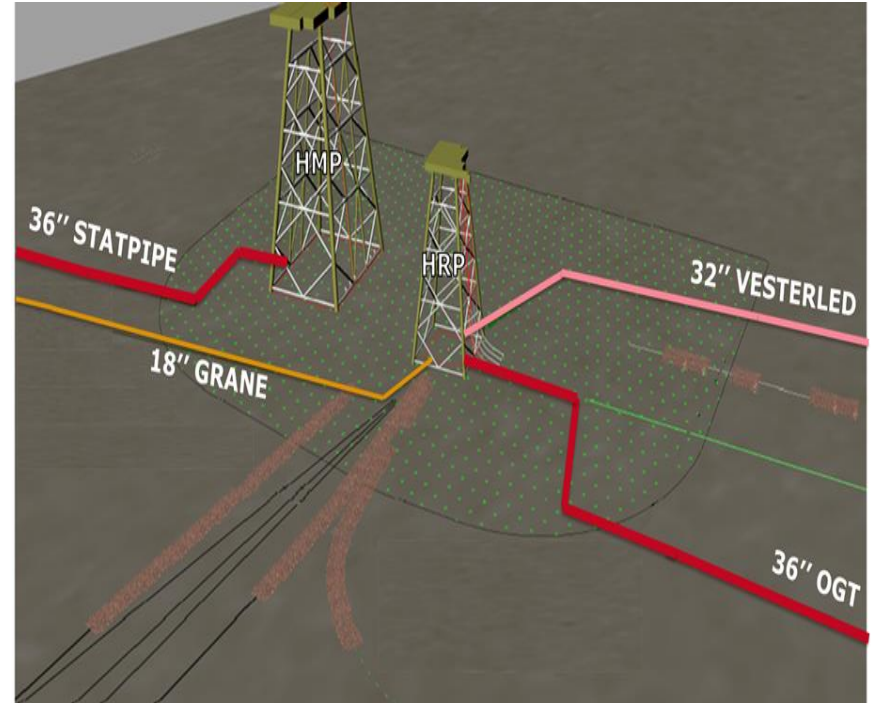
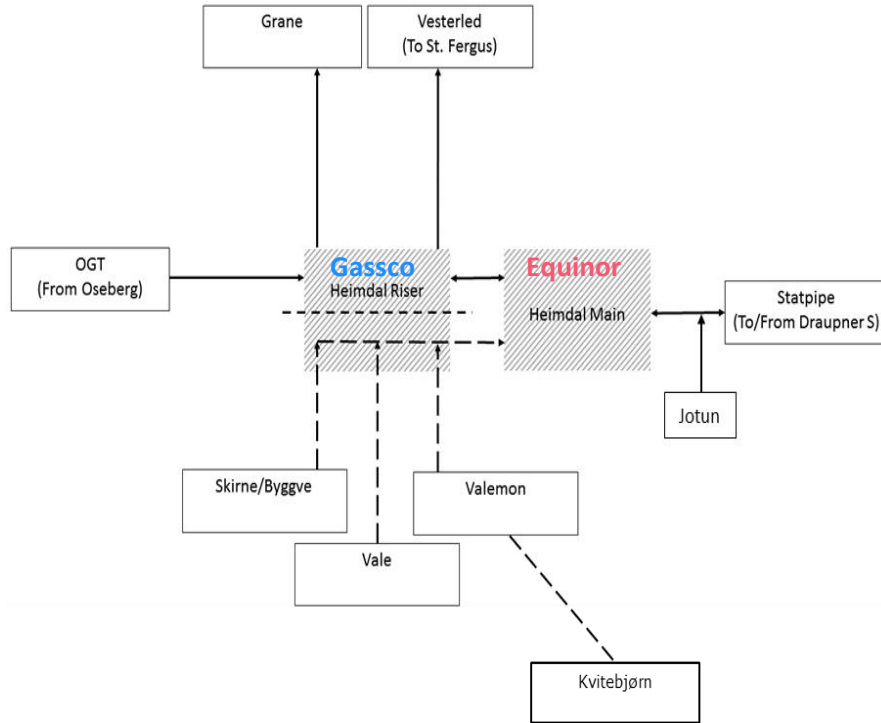


Heimdal – 2021 and beyond



- Architect's challenge: Optimal gas processing solutions for the Heimdal area for all stakeholders
- Long term issue: HSE and lifetime cost consequences for Heimdal riser platform for continued operations
- Project objective: Maintaining a safe, reliable and cost-efficient transport solution for dry gas in the Heimdal Area

Heimdal facilities

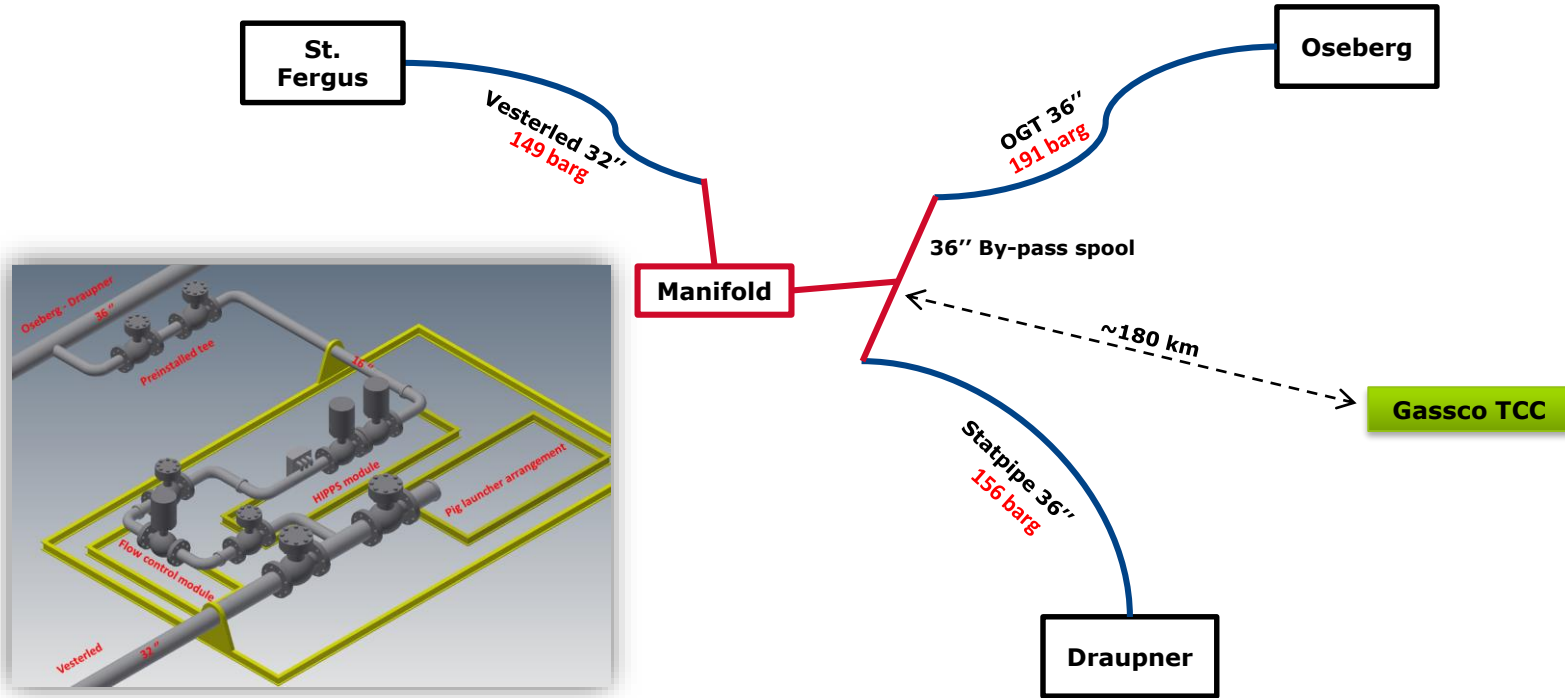


Anno 2010 - 'Throw us a Challenge'

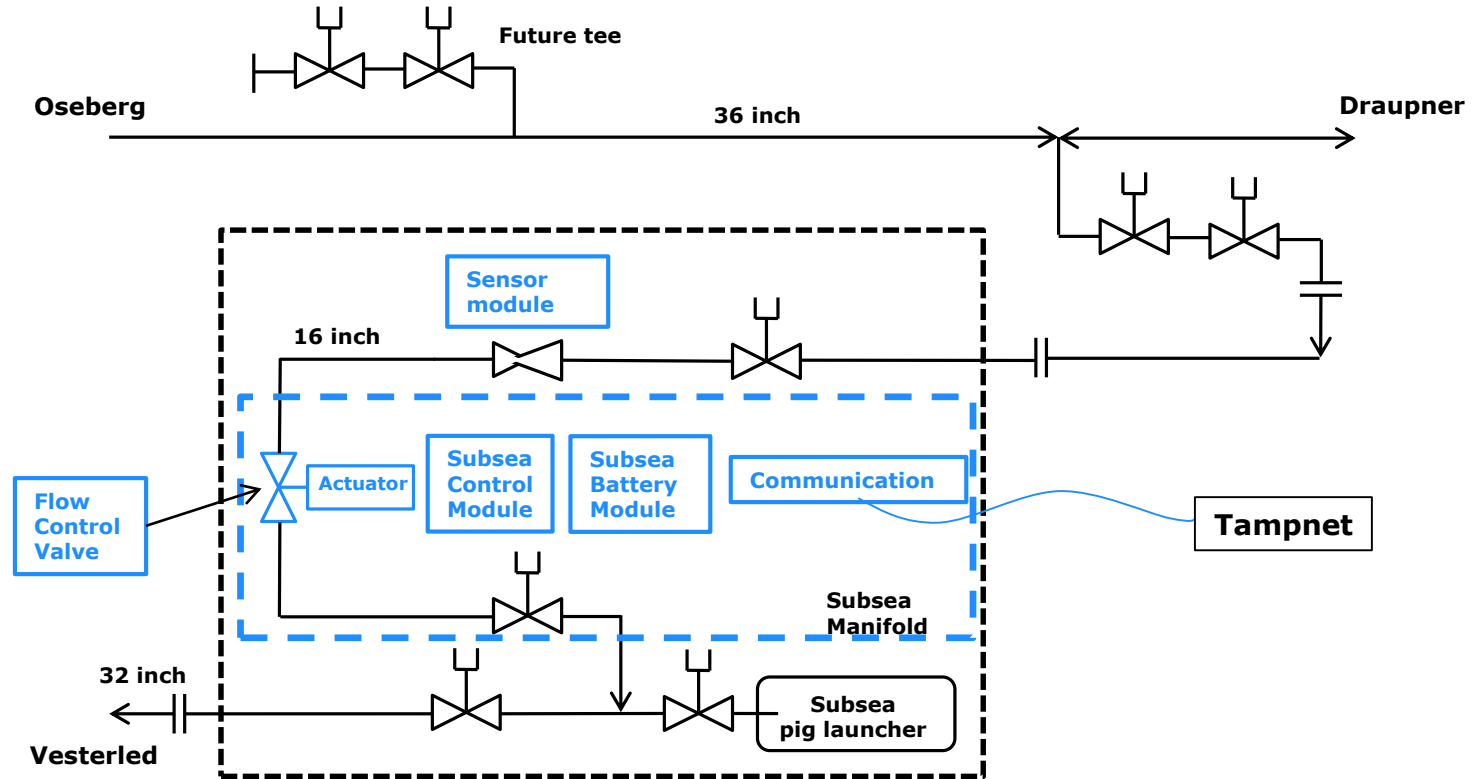
- Is it feasible to convert HRP to an autonomous subsea solution?
- Is it feasible to convert the platforms to unmanned or 'not-normally manned' operations?



Anno 2012 – 'Dream big, think new'

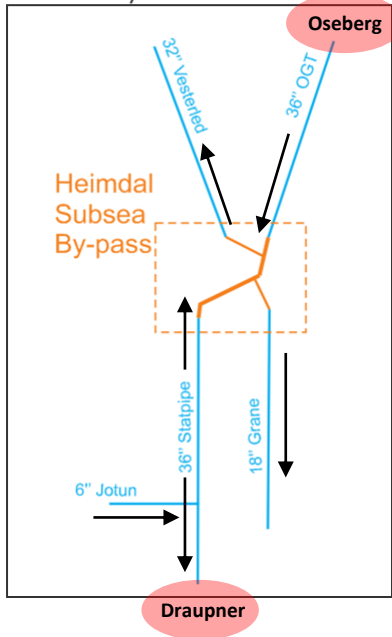


Anno 2014 - 'Subsea Manifold Concept'

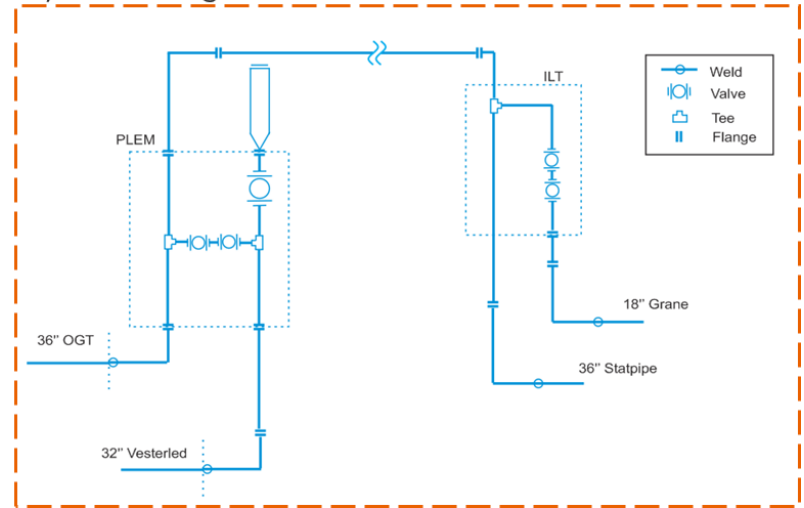


Anno 2016 – 'Get real'

Field Layout



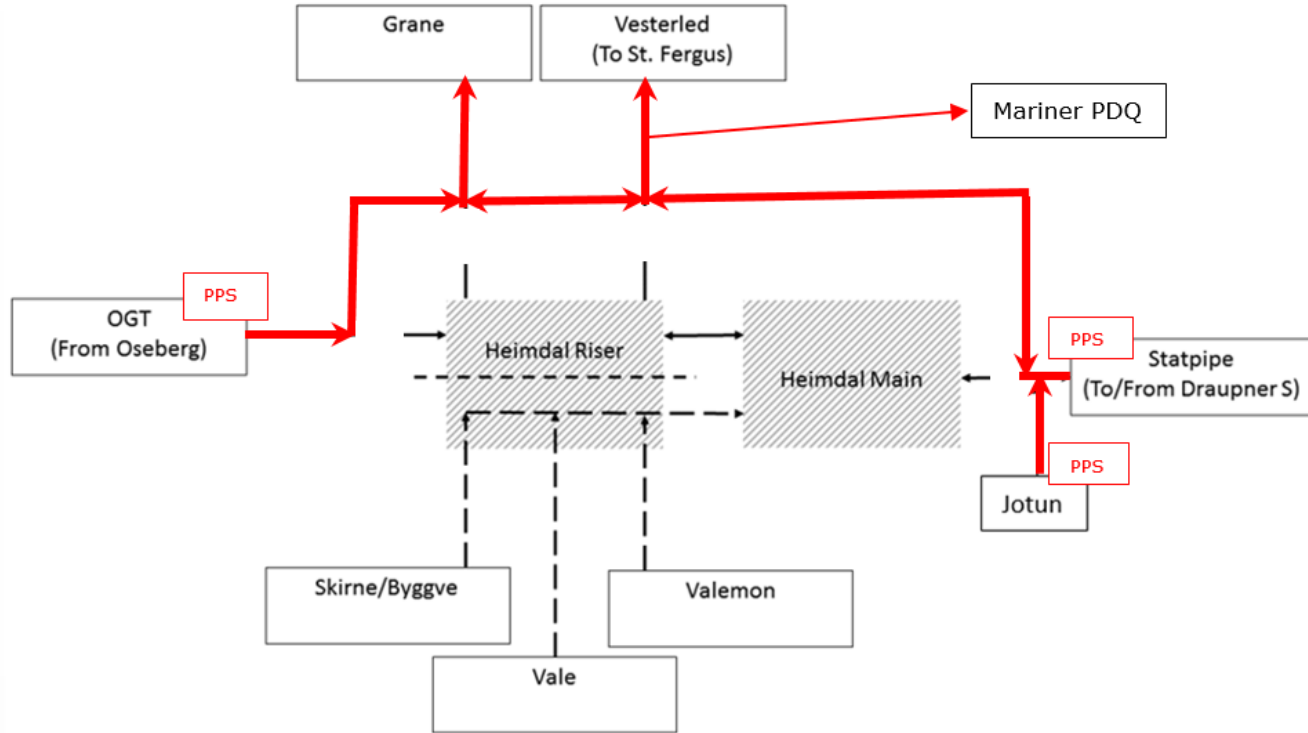
System Design



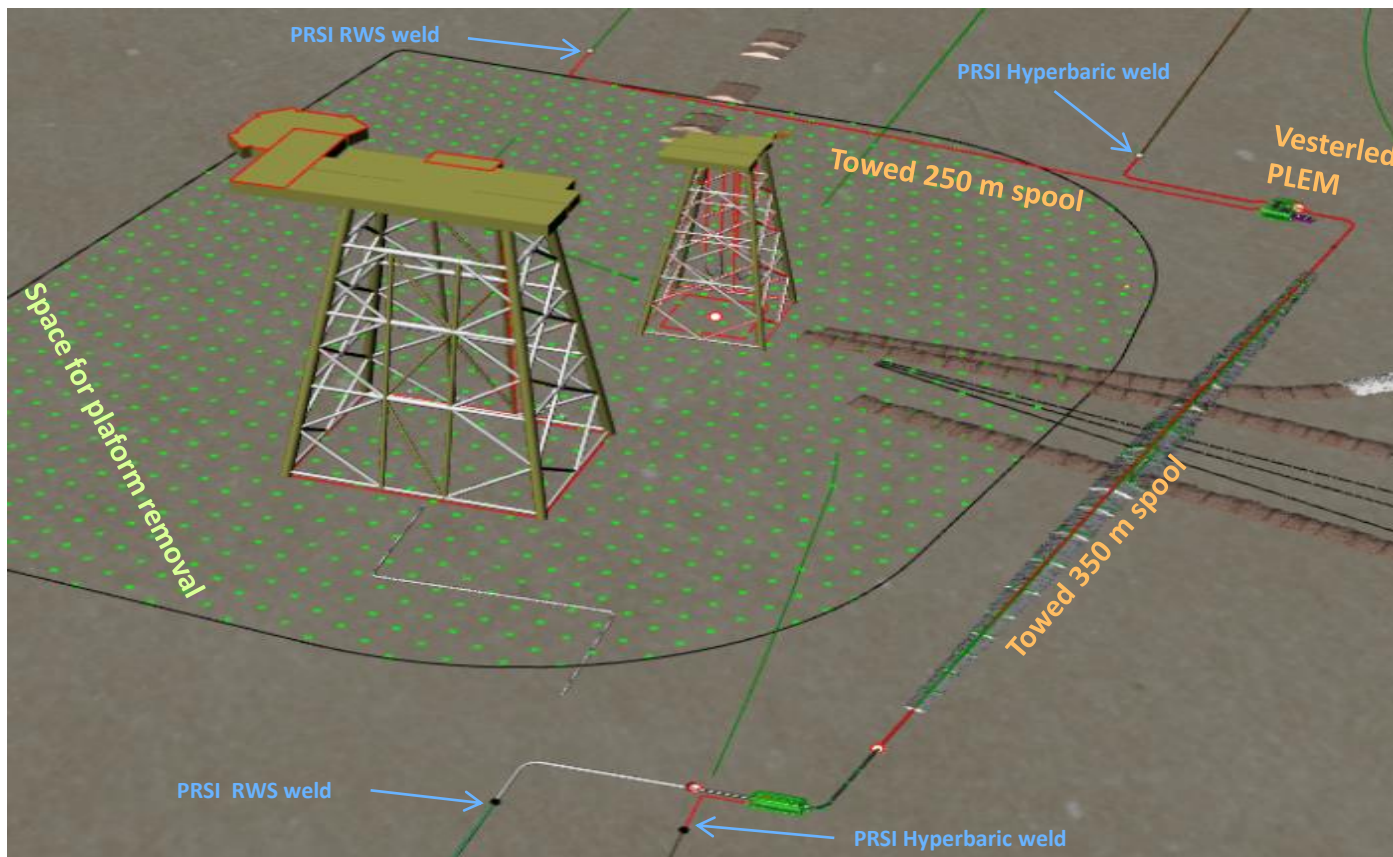
Can we deliver all booked capacity with 149 barg?.....

Anno 2018 – ‘Good enough’

Yes - we can..... 😊



Anno 2020 - 'Simplicity is Beauty'



Summary: Look left, look right and keep it simple



Thank you for your attention – Questions?