

The Statoil CAP-X™ Solution

Next generation subsea

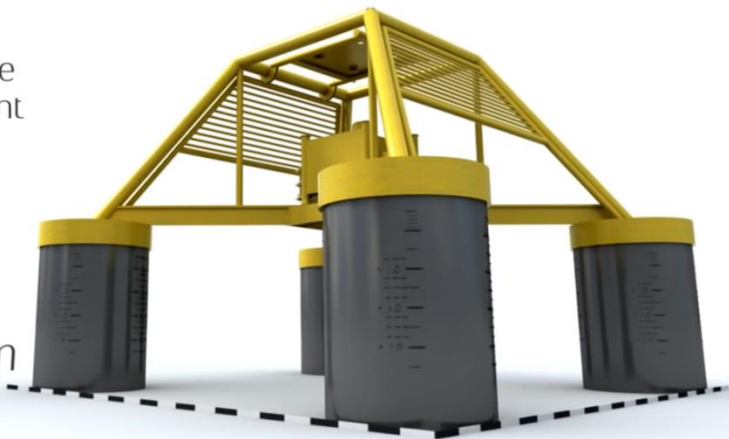
Kjell E Ellingsen, Leading Advisor, Statoil ASA

Cap-X™ is shaping the future

Conventional satellite

Single slot satellite with large footprint

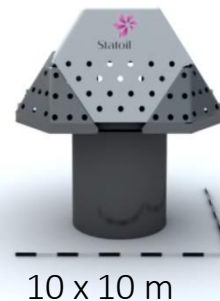
Approx
22 x 22 m



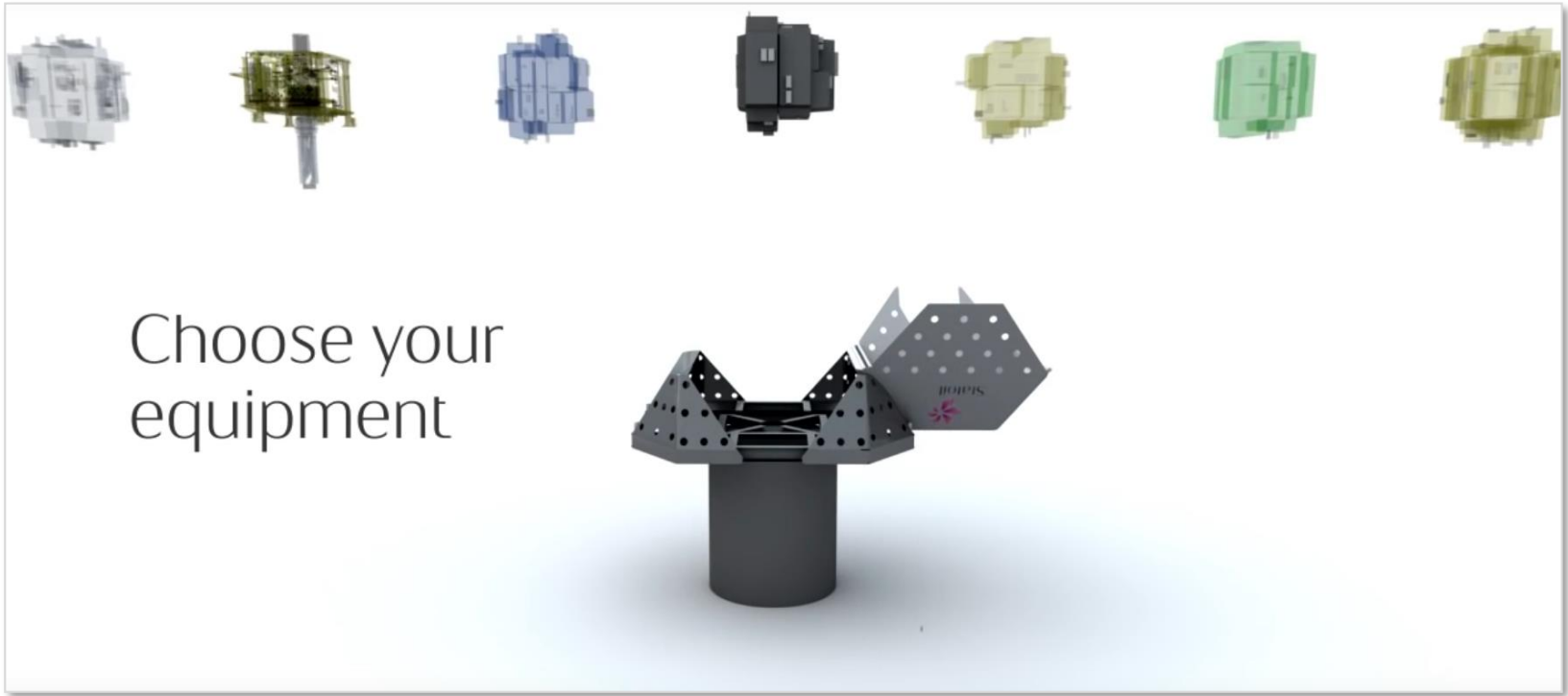
Statoil Cap-X™

New solution enabling subsea standardisation

Footprint reduced to 1/4 of regular satellites

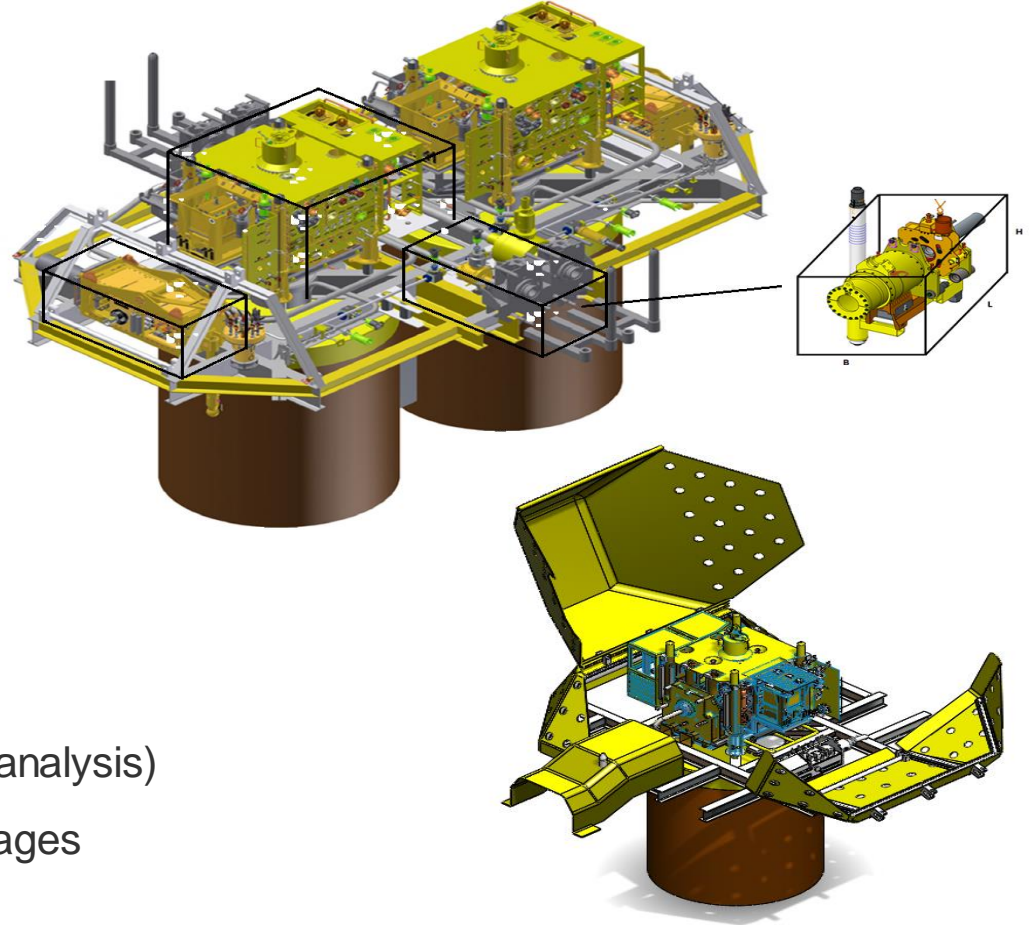


Standard interface

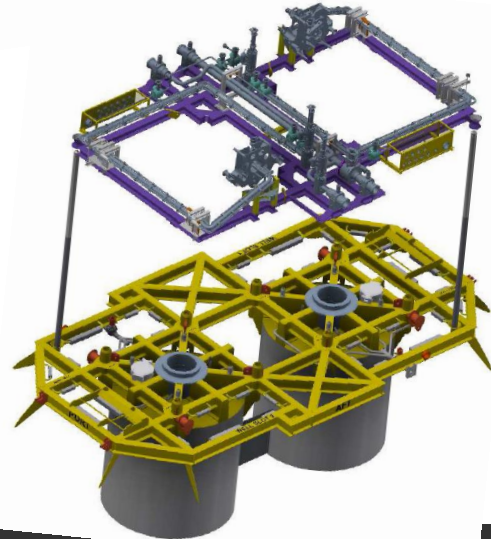
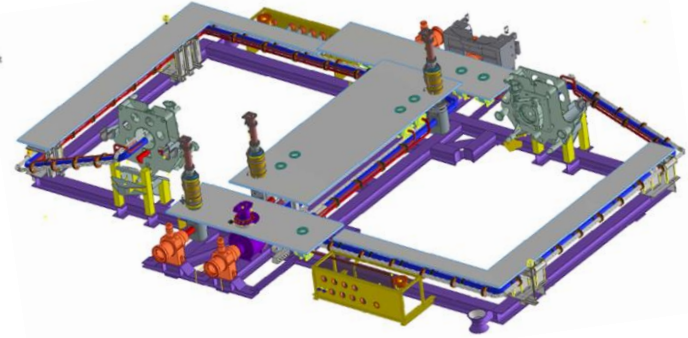
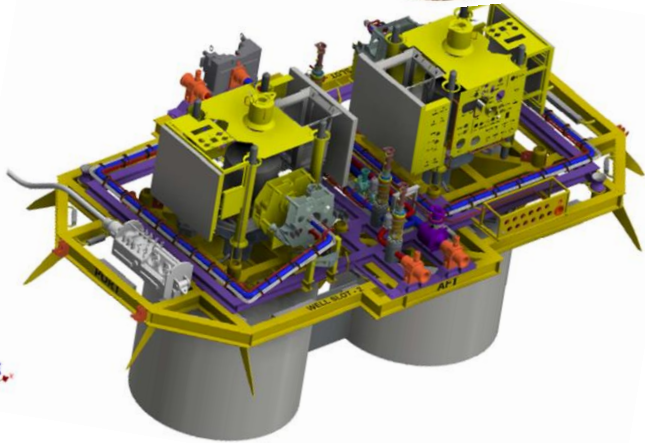
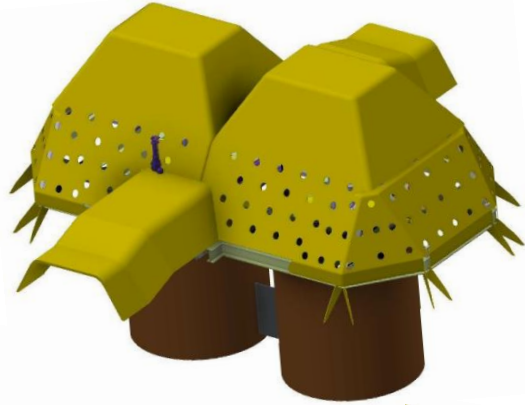


Cap-X Features:

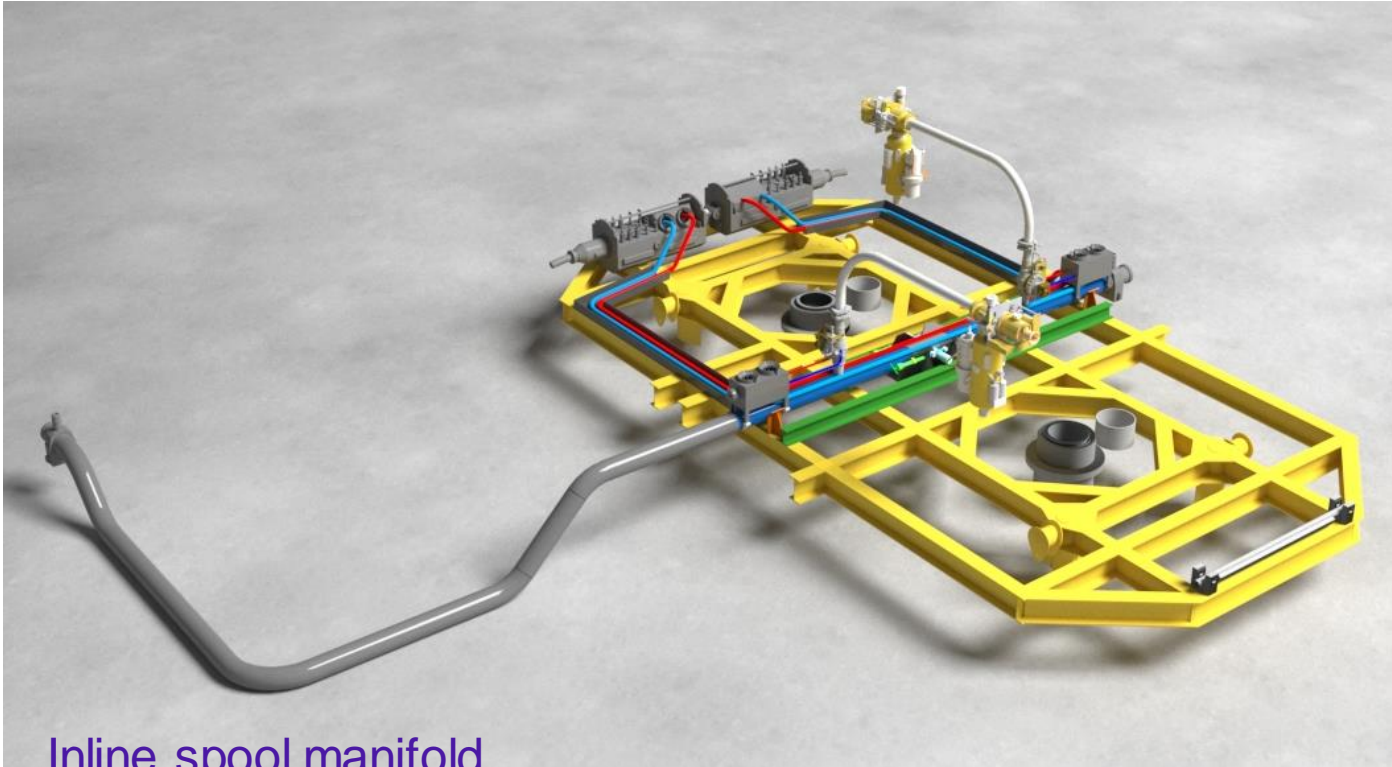
- Std foundation and protection
- Std equipment envelopes
- Snag free design
- Full access when hatches open
- Optimal well design and location
- Flexibility to change (Tech & Com)
- Re-use equipment
- Marine operations improved
- Generic engineering (Procedures and analysis)
- Allows for market competition on packages
- Provision of local content



Cap-X Dual:

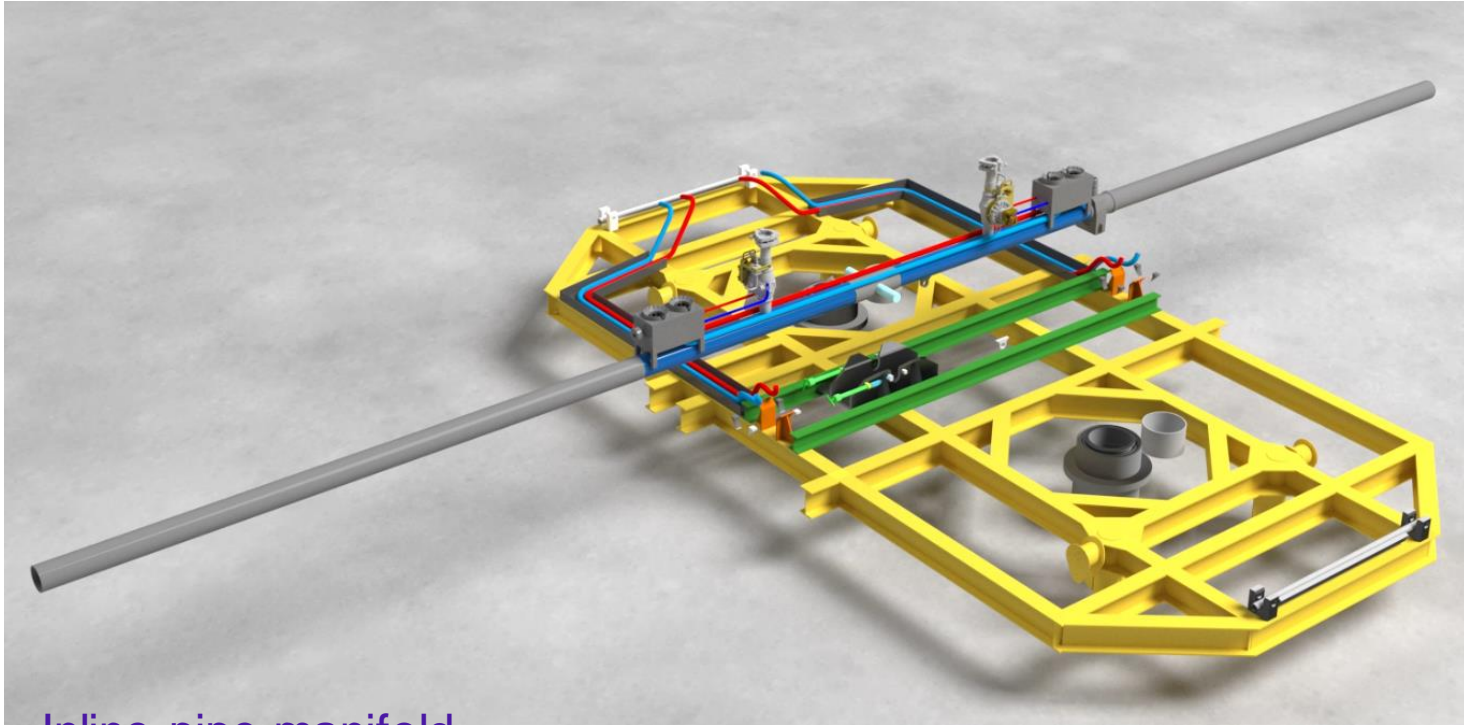


Inline spool with branch valves and dist. panel



[Inline spool manifold](#)

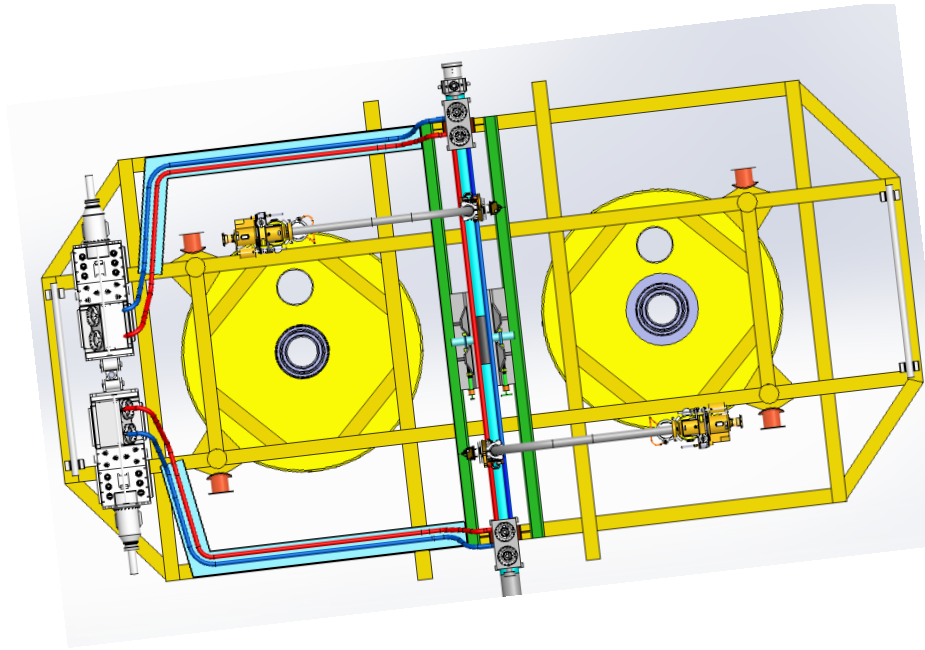
Inline pipe section with branch valves and dist. panel



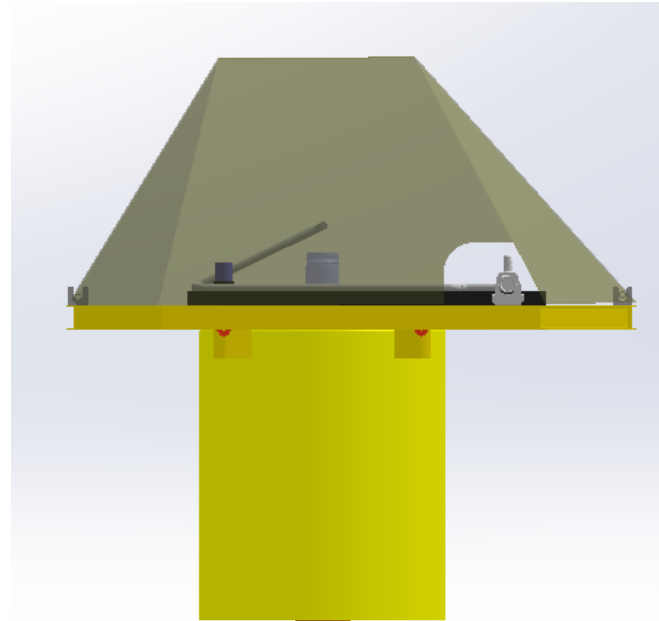
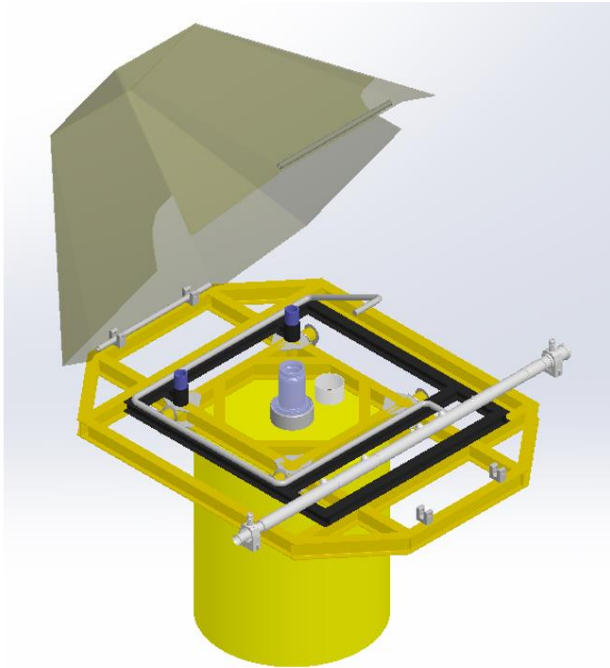
[Inline pipe manifold](#)

Application:

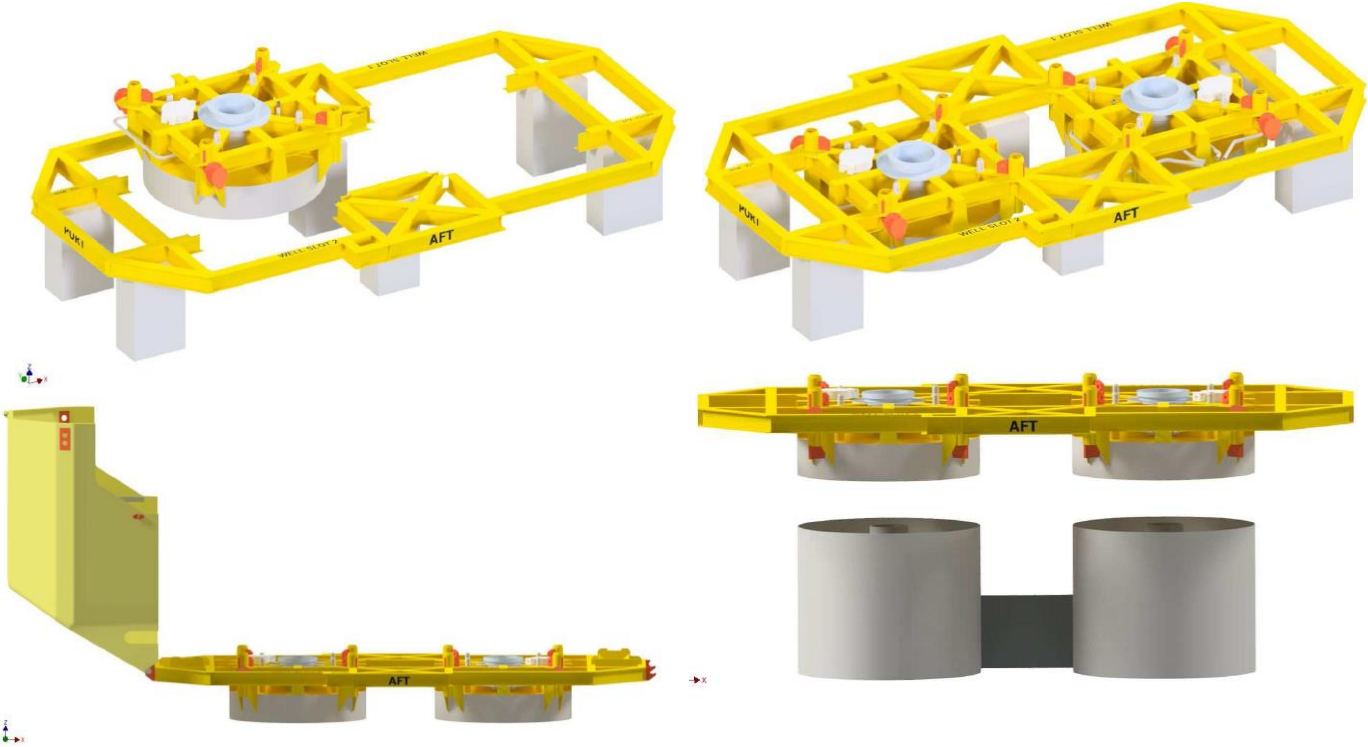
- Cap-X In-line pipe manifold and choke bridge can be used for single, 2 slot, 4 slot configuration etc
- The UTA can be placed on the balcony as shown or outside the Cap-X next to pipeline connection point. The jumpers will then be piggy backed on the spool and relocated, from parking panel on spool, to UTA.



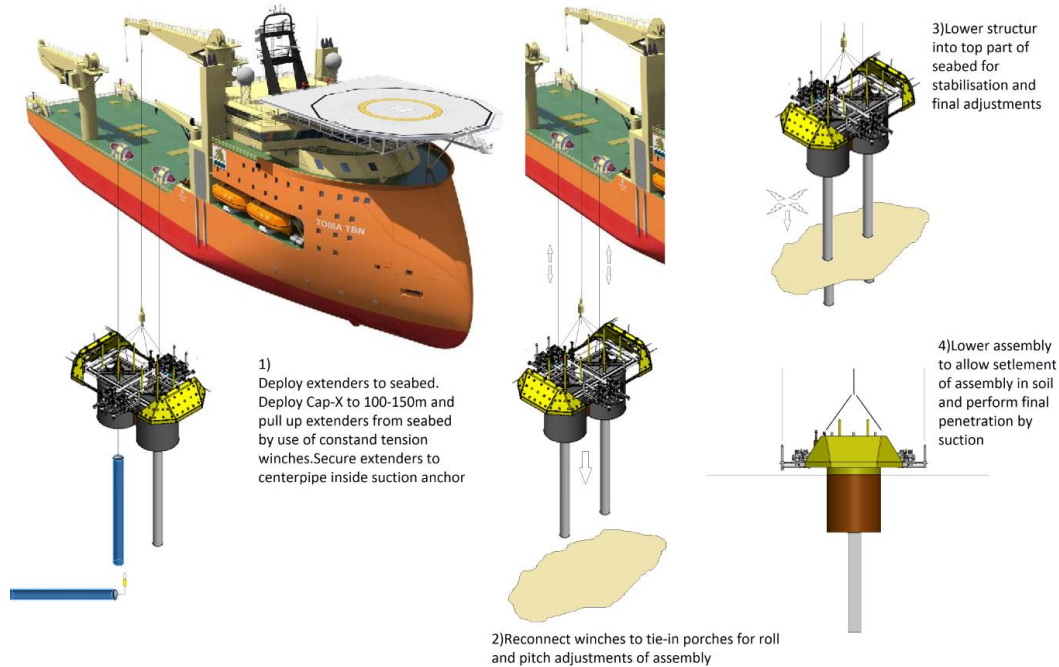
Single Cap-X



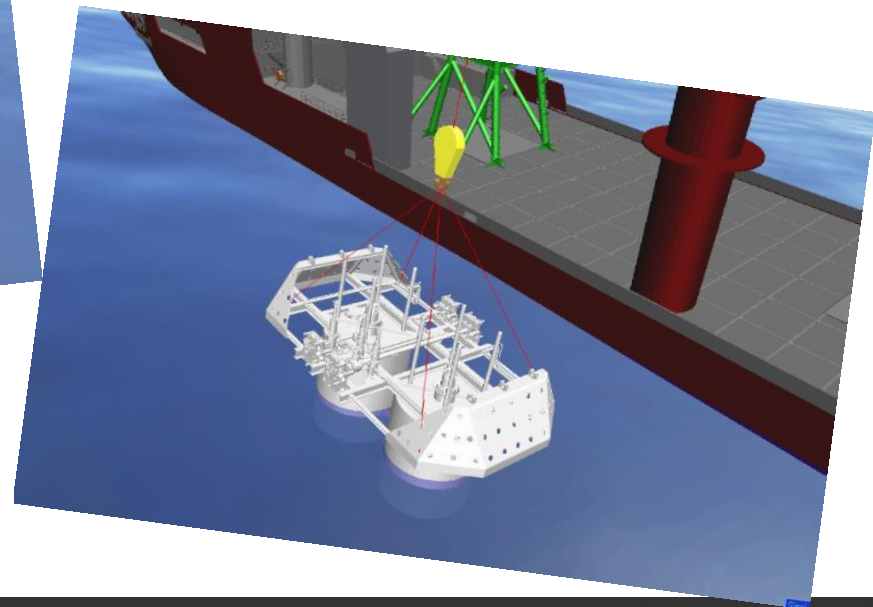
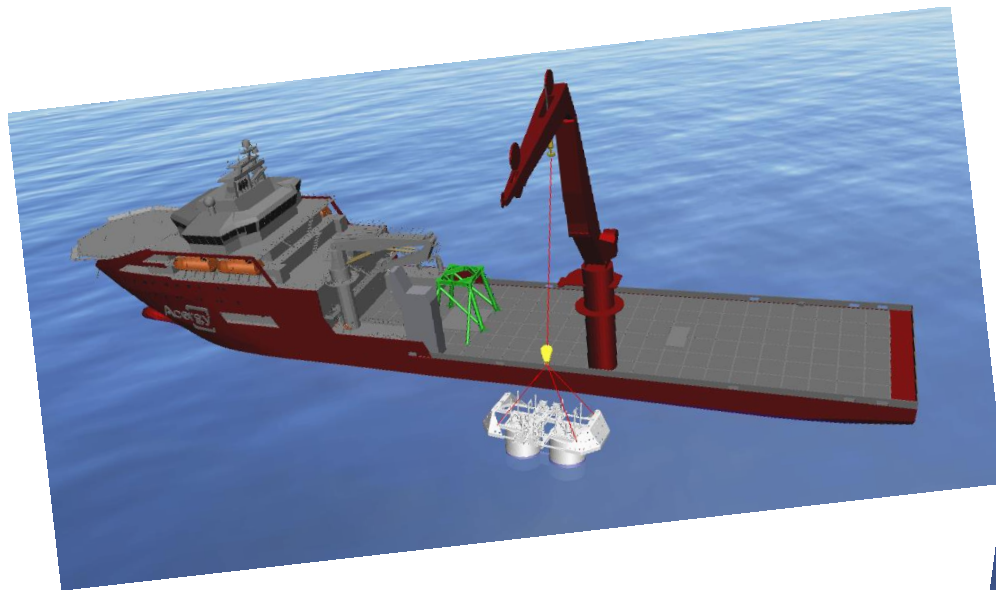
Fabrication:



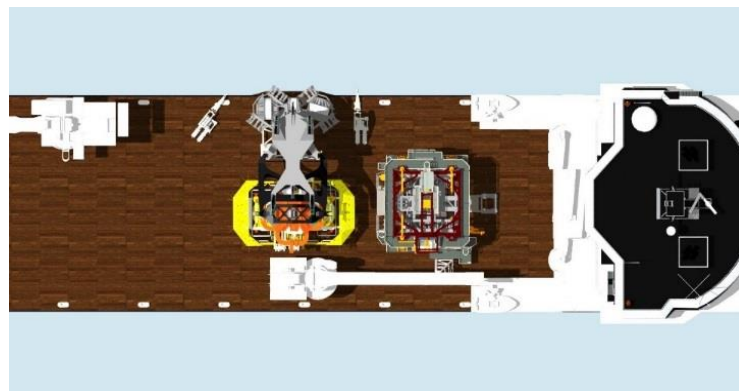
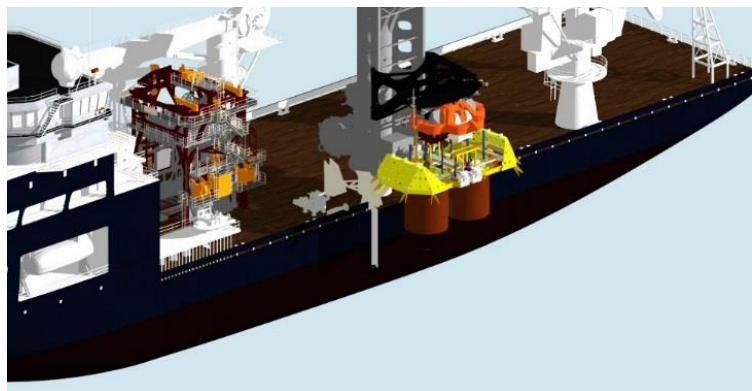
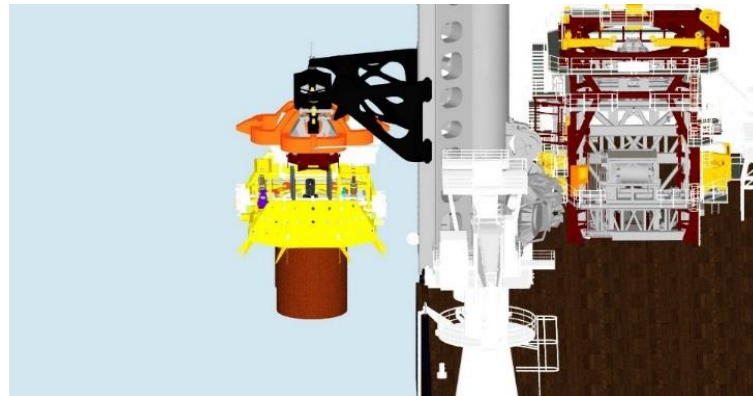
Marine Operations:

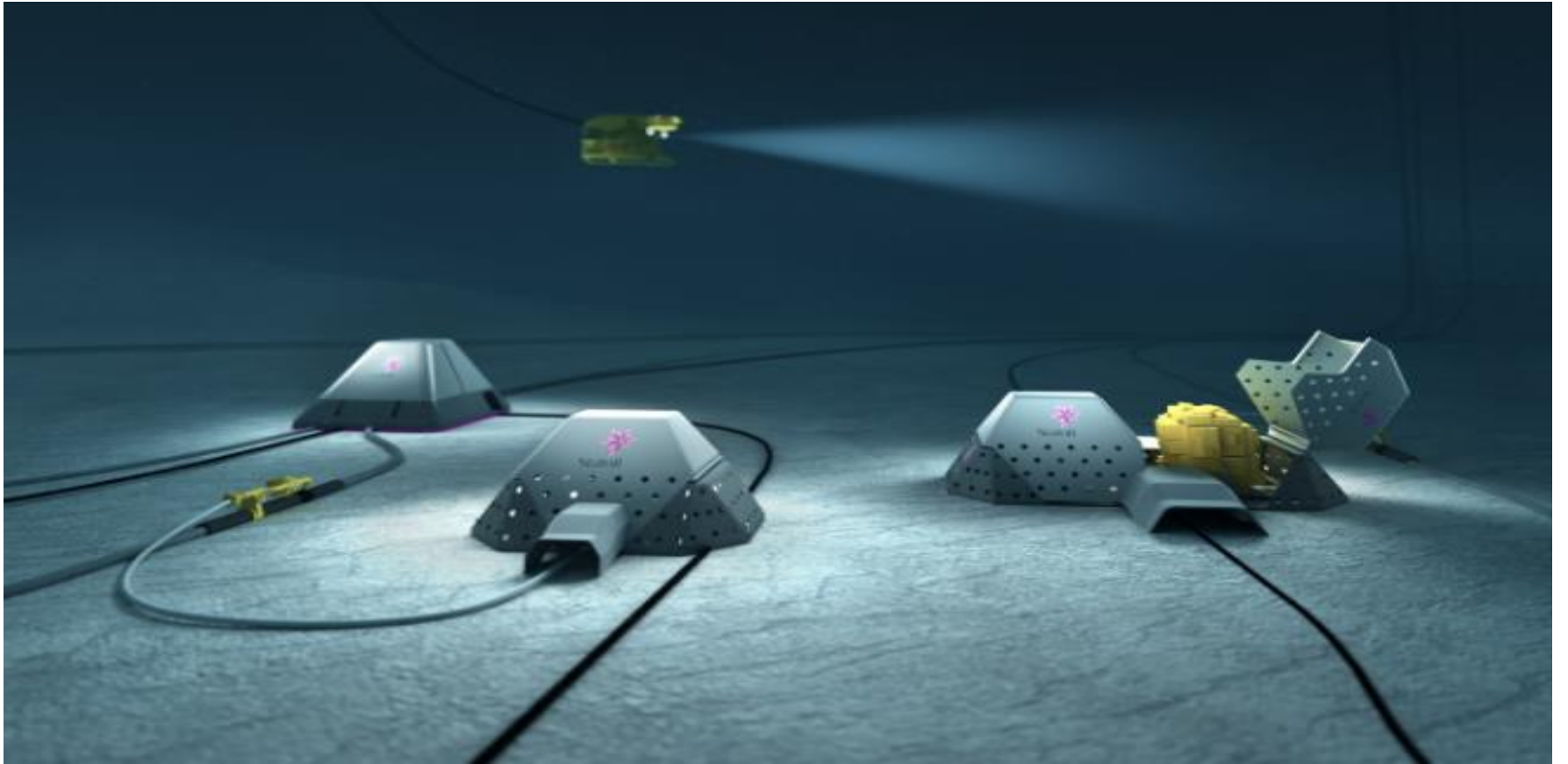


Hydro dynamic analysis performed by Plat Tech TPD

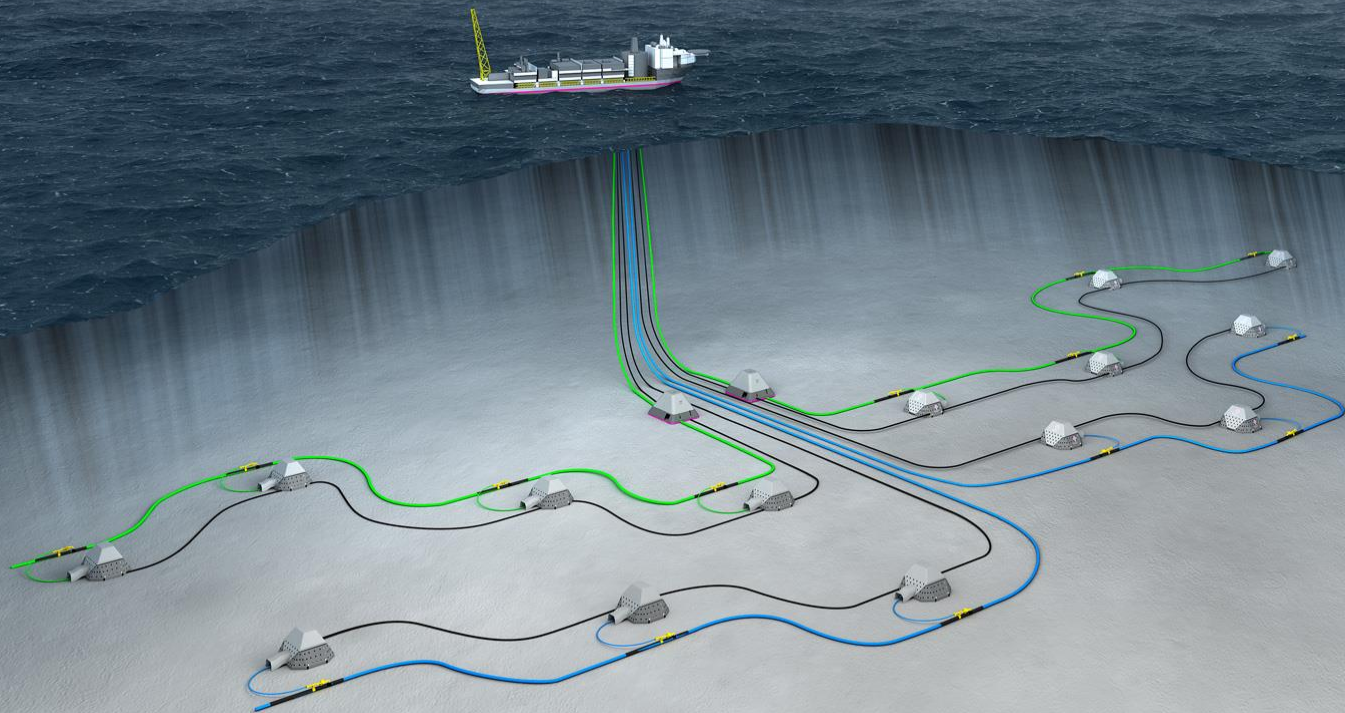


Opportunity using SHS

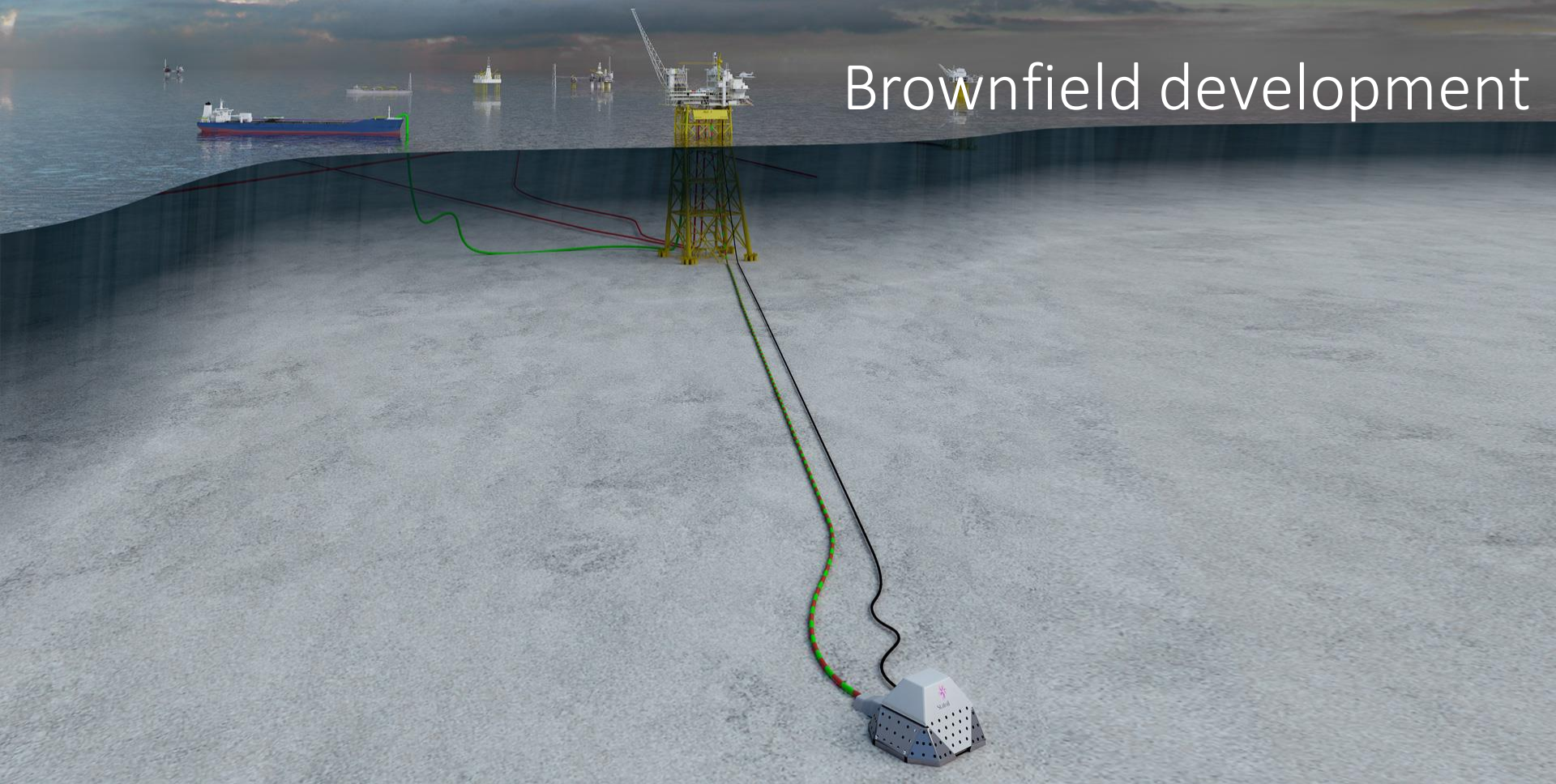




Greenfield development



Brownfield development



Total field development cost reduction:

Simple design : Reduced fabrication cost, potential for local fabrication

Reduced footprint: Installation can be made with less cost and increased flexibility

Reduced rig scope: Covered by installation vessel

Open structure: Direct tie-in saves cost

Standardization: Open SPS platform with standard interfaces

Fit for purpose: Field development optimization with reduced SURF scope

Statoil. The Power of Possible

The Statoil Cap-X™ solution Next generation subsea

Kjell E Ellingsen

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Valves

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