



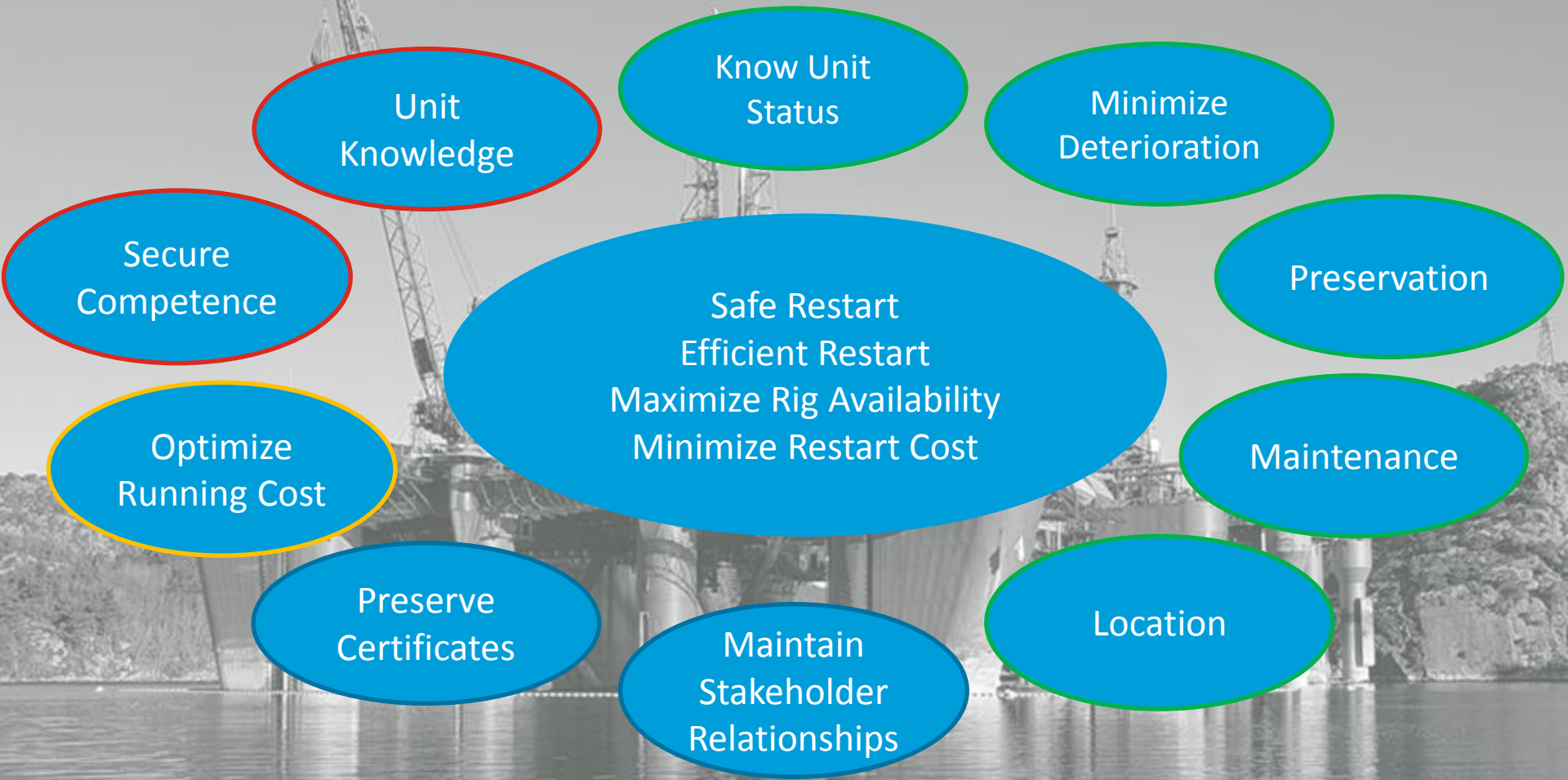
Smart Stacked

- and ready for return to Operation





How to be ready when the market returns?





Stakeholders



Shelf States



Flag States



Classification Society

Clients





Smart Stacking Philosophy

- Carefully selected follow-up regime
 - There are limits as to the efficiency of passive preservation
 - Regular testing of core systems is essential to knowing unit status
 - Documentation is key to being in control of unit status
- Maintain competence
 - Knowledge of the unit and its systems is a prerequisite to effective maintenance in lay-up and efficient restart
 - An experienced core crew is essential to restart
- Maintain relationship with key stakeholders
 - Preserve Certificates
 - Maintain Approvals





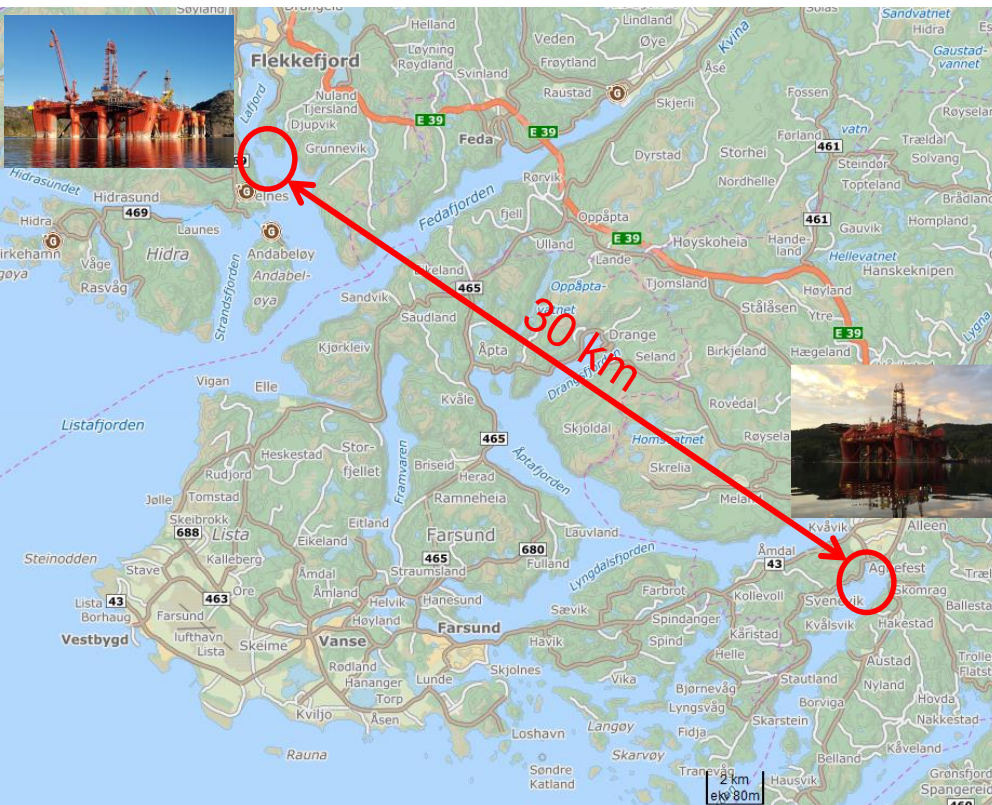
Lay-up activities

Passive Preservation	Preventive Maintenance	Integrated System Testing	Corrective Maintenance
<p><i>Removing sources of deterioration</i></p> <ul style="list-style-type: none"> • Cleaning • Draining • Dehumidification <p><i>Protect against future deterioration</i></p> <ul style="list-style-type: none"> • Anti-freeze • Grease and lubrication • Preservation additives, emitters and inhibitors • Wrapping 	<p><i>CMMS in operation</i></p> <ul style="list-style-type: none"> • All activities are logged <p><i>Tailor operational maintenance activities to activity level</i></p> <ul style="list-style-type: none"> • Adjust frequencies • Remove activities • Add activities <p><i>Inspections</i></p> <ul style="list-style-type: none"> • Hull and structure • OEM 	<p><i>Test core systems</i></p> <ul style="list-style-type: none"> • SIT 1: Control, Communication and Navigation Equipment • SIT 2: Power Supply • SIT 3: Fire Fighting and Life Saving Appliances • SIT 4: Drill Floor Systems • SIT 5: Marine Systems • SIT 6: Cranes and Material Handling • SIT 7: Mud & Bulk Systems 	<p>Perform corrective maintenance required to maintain lay-up activities</p> <p>Be in control of corrective maintenance scope at restart</p>





Selection of lay-up locations



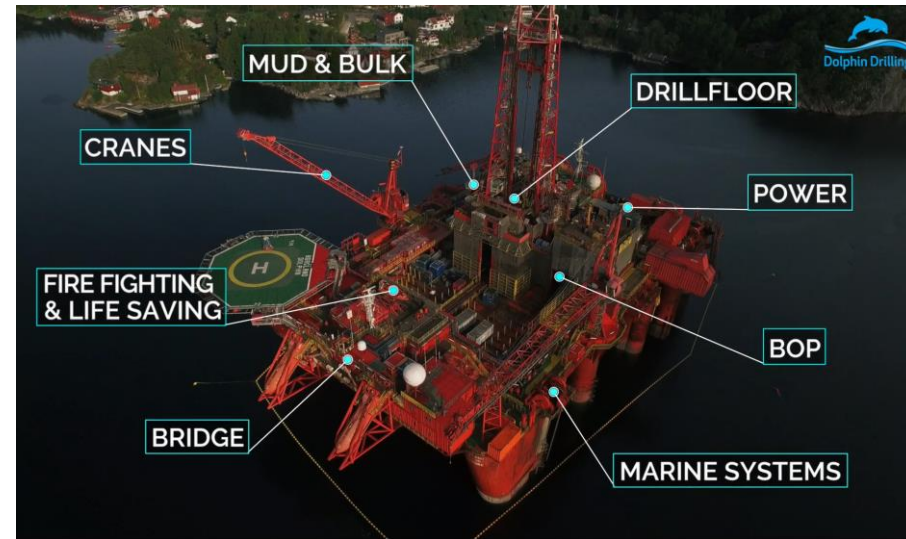
- Clustering of units to reduce logistics and optimize time spent on the units
- Fresh water and power available from shore
- Sheltered areas to minimize wear on unit in lay-up
- Deepwater locations to enable stacking at operational draft
- Efficient local emergency response





Lay-up team

- Operational experience
- Covering all core disciplines
 - Drilling
 - Technical
 - Marine
 - E&I
- Visiting the units at regular intervals
- Living onboard





Certificates

- Prolong survey intervals

"...possible to prolong the time between consecutive surveys if sufficient preservation and maintenance is carried out to minimize deterioration of the vessel, its systems and equipment. The total time in actual operation should however not exceed 5 years between consecutive surveys."

DNVGL-RP-0290

- Maintain basis for Shelf State Approvals
 - UK Safety Case
 - Norwegian AoC





Return to Operation

- Keeping competence
 - Retaining core rig team onshore and offshore
 - Maintaining competence assurance programs and training matrices
 - Using modern media to stay “In touch”
- Be in control of restart scope
 - De-preservation
 - Reinstatement
 - Delayed corrective maintenance
 - Testing of safety functions
 - Structural and OEM inspections
- Phased mobilisation

