

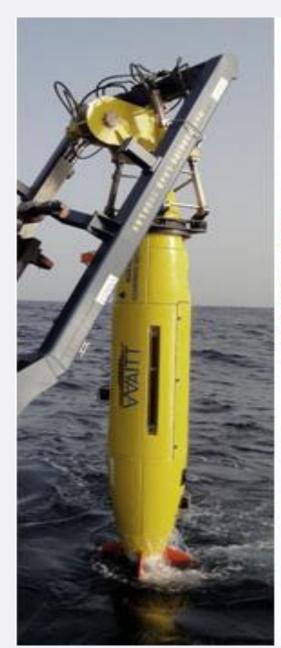
Digital Twin for unmanned facilities

Aberdeen 12-13 June 2018

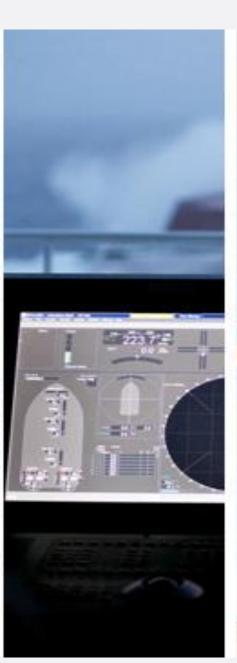


KONGSBERG group – Technology innovation



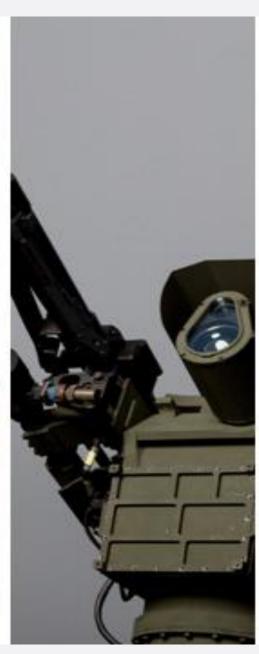


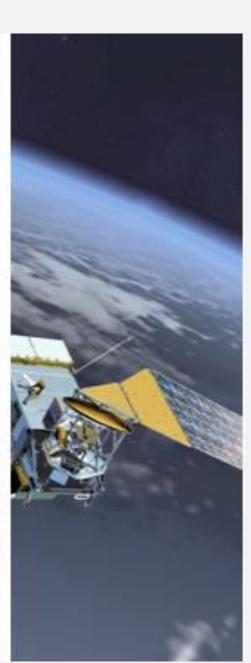










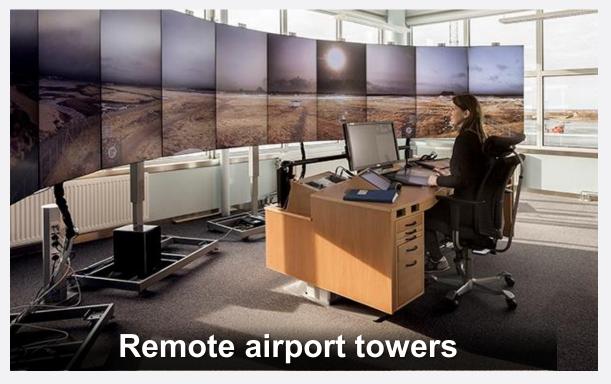




Disruptive digitalization projects













What is a Digital Twin?



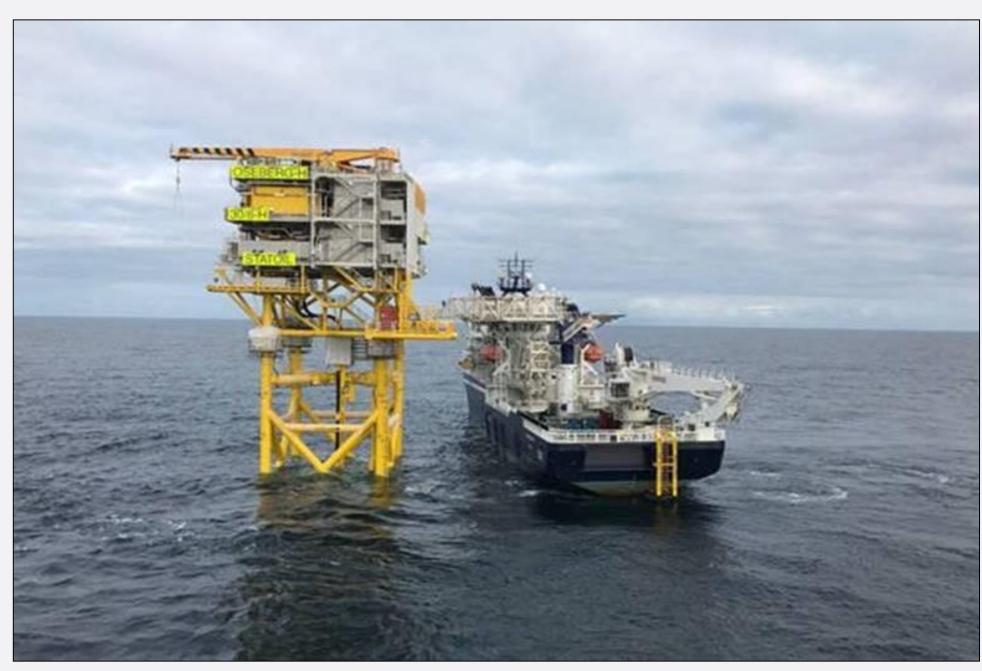


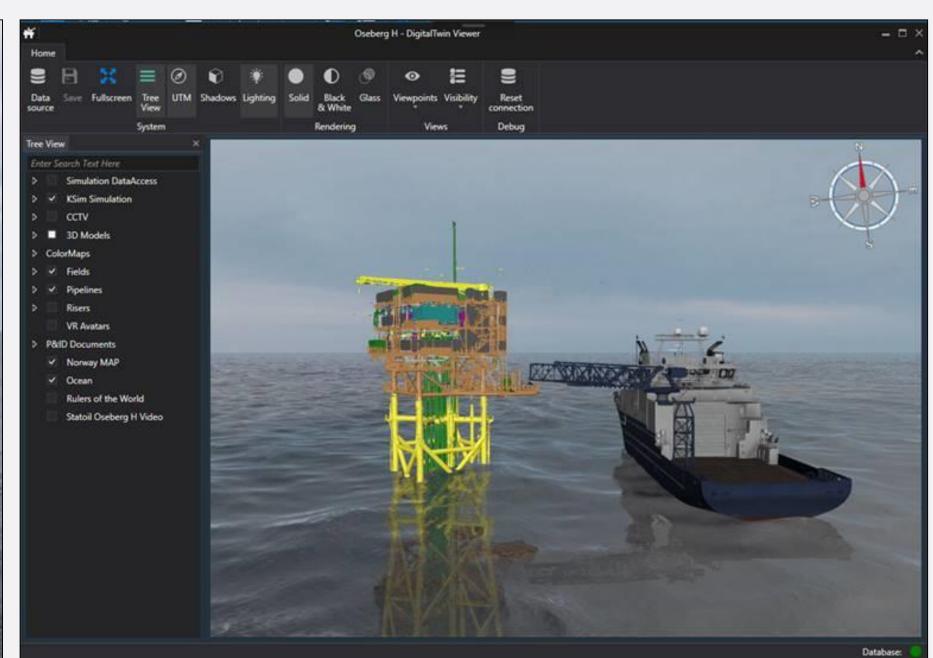
- Comprehensive replica & accurate representation
- Advanced analytics and machine learning
- Static, historical and <u>real-time data</u>

- Technical to business operations usage
- Context dependent user interface









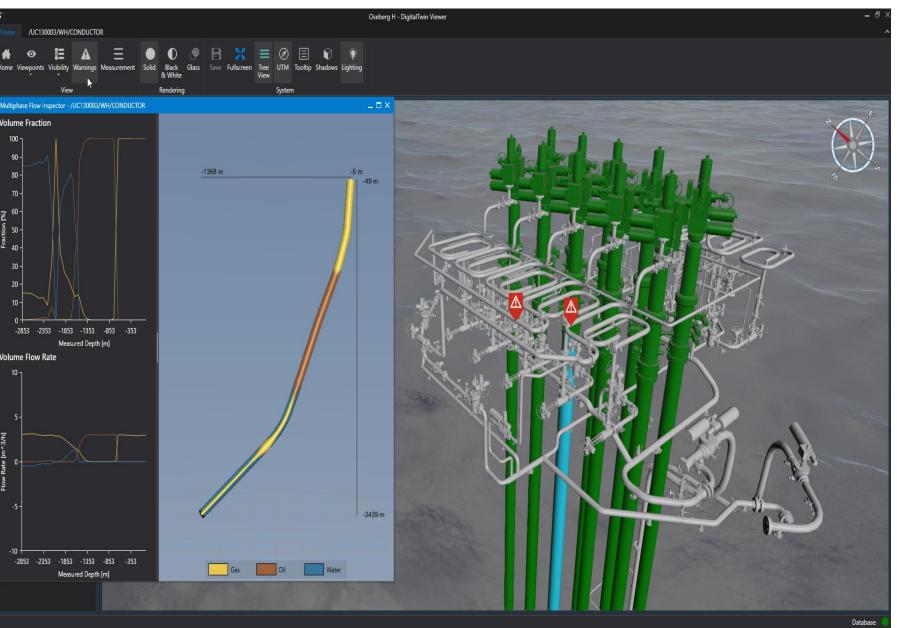
The installation

The Digital Twin

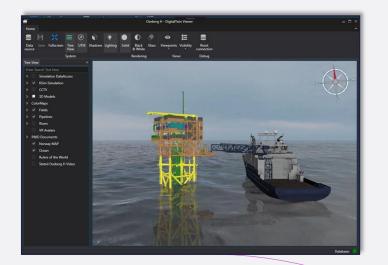
Digital Twin Screenshots













Integrated Field Development Team

Control Room,

Operation Center

Integrated

Operation Center

Plan & Expert

Centers

Maintenance

Team

Vendors Others

Application Areas

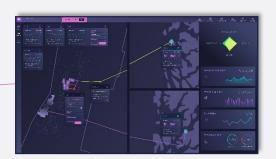
Field Development & Modifications

& Wells

Optimization

Operations & Maintenance Maritime Ops & Logistics

Lifecycle Management



Client Data Platform

kognif ai

Visualization & Collaboration

Digital Infrastructure & Simulators

Cyber Security



Physical Asset



Topside

Subsurface



Models & Services Application Programming Interfaces (API) Simulation Engines Visualization Engine Data Services GIS AIS Analytics & ML Engines Asset Models Business Data 3D Models



Roaming Assets

Helicopter



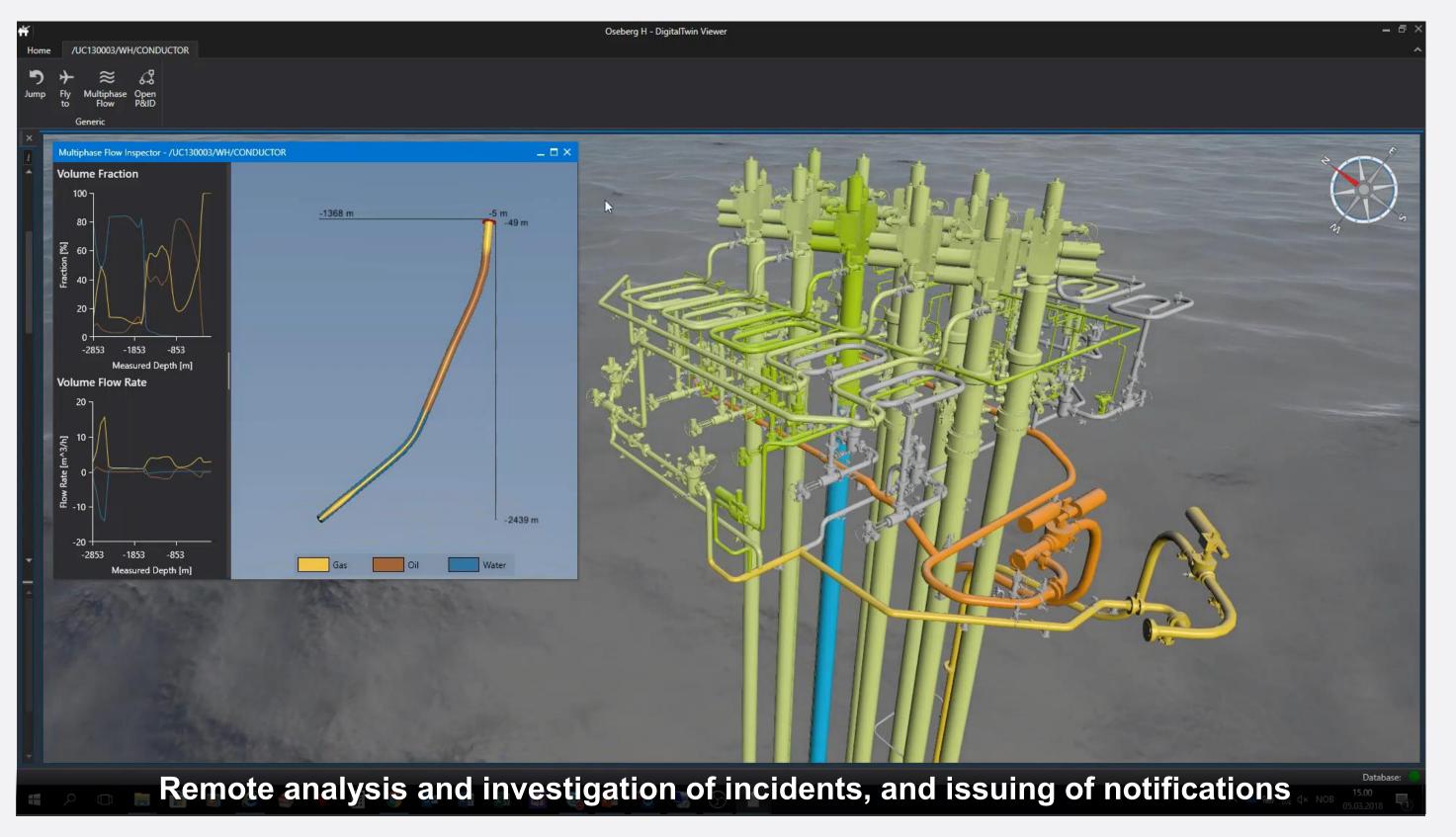


Well & Reservoir

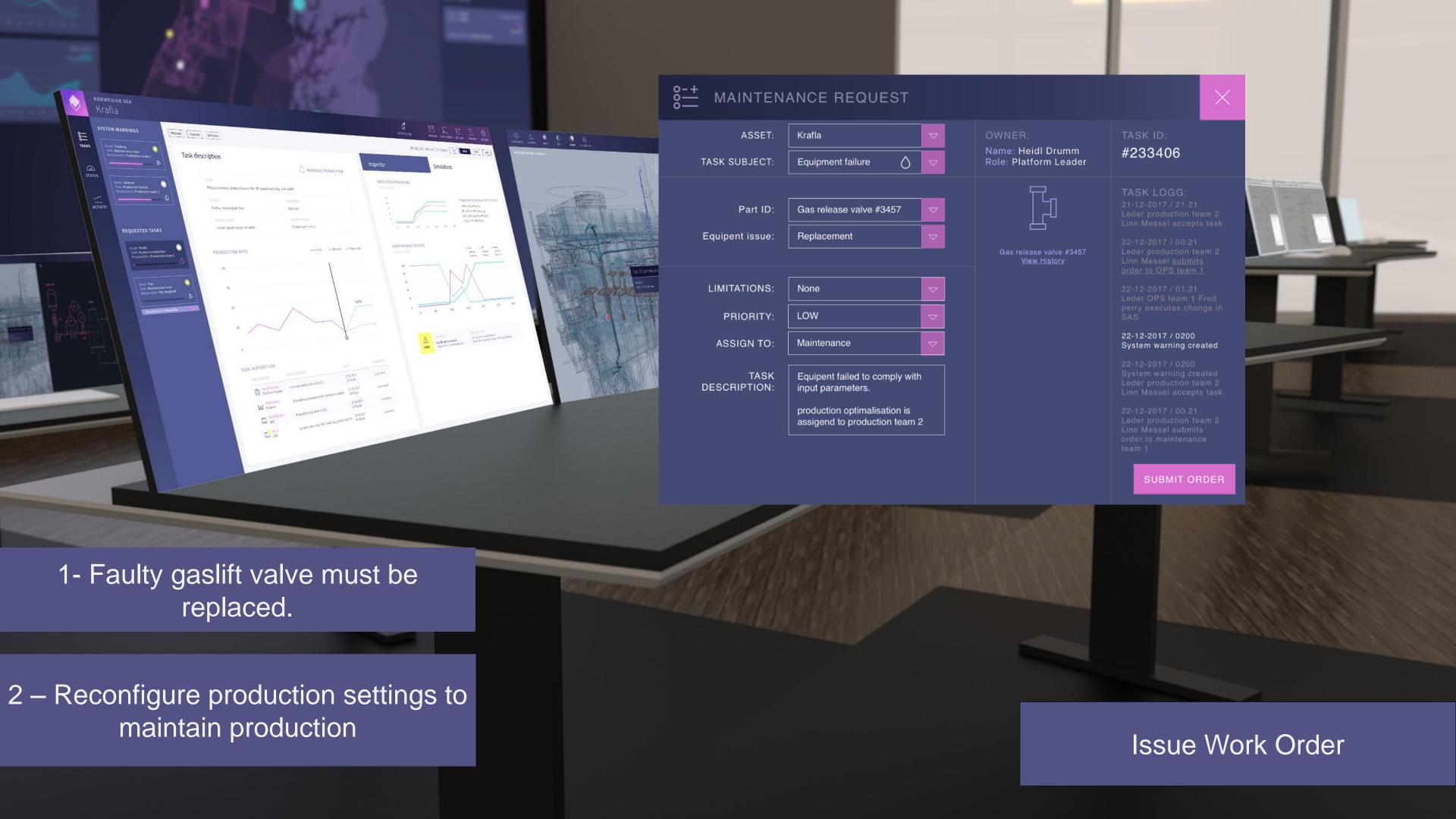




Monitor performance and solve problems











What is a Digital Twin?





- Comprehensive & Accurate
- Advanced Analytics and Machine Learning
- Static, historical and real-time data
- Technical to business operations usage
- Context dependent user interface
- Significant CAPEX/OPEX savings

