



FutureOn

See More. Make More.

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OFFSHORE DIGITAL - DRIVERS

2015-2017



440 000 jobs lost since 2015 Industry Reinvention Mandate M&A - Business Optimization

2018



Future



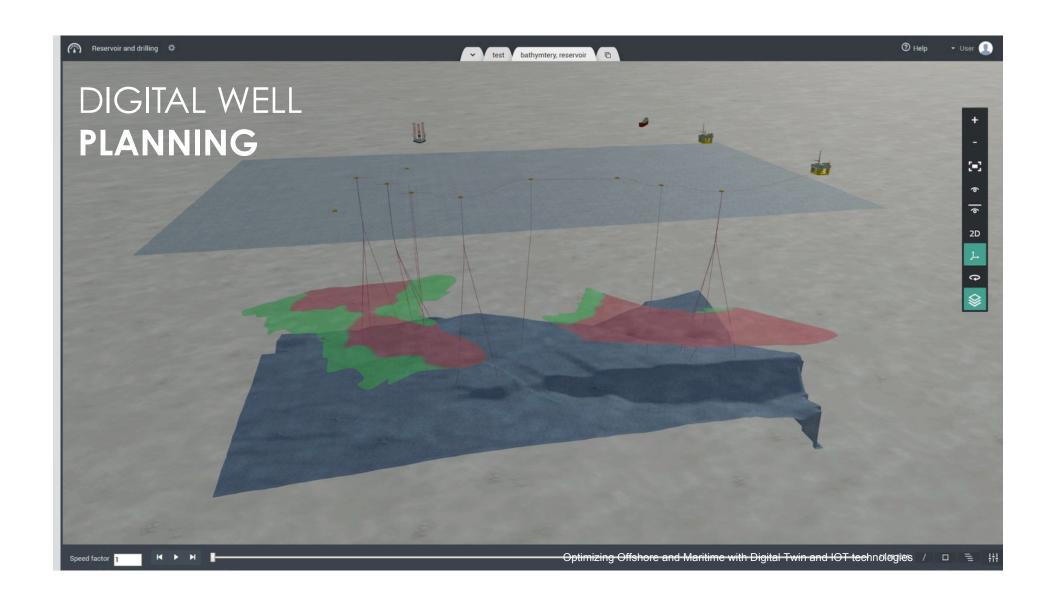
Huge potential for Innovation Efficiency gains Increased competitiveness





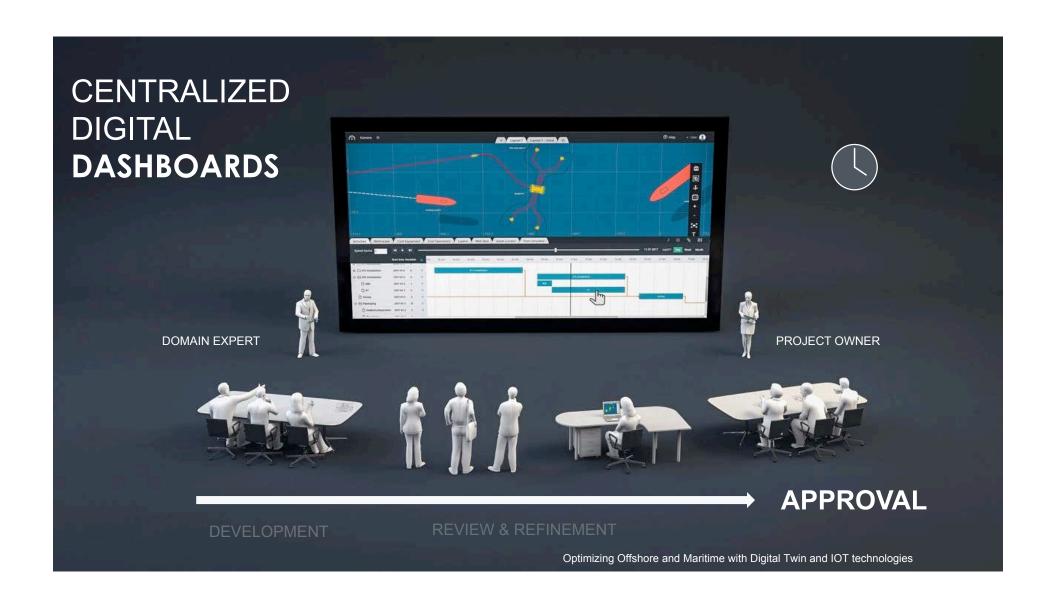


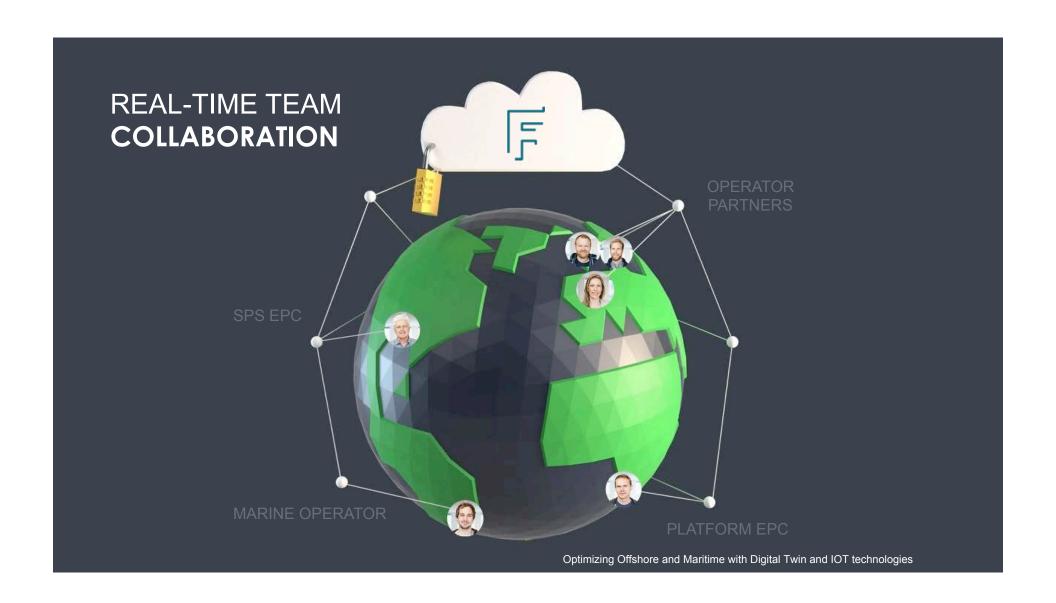














- for the operations by finding the best solution in the design phase

IMPROVED OPERABILITY

- Enabling digital working environment
- Instant global collaboration
- Cloud based and secure access





REDUCED TIME TO MARKET

- Faster design process
- More efficient project iterations
- First Oil is accelerated

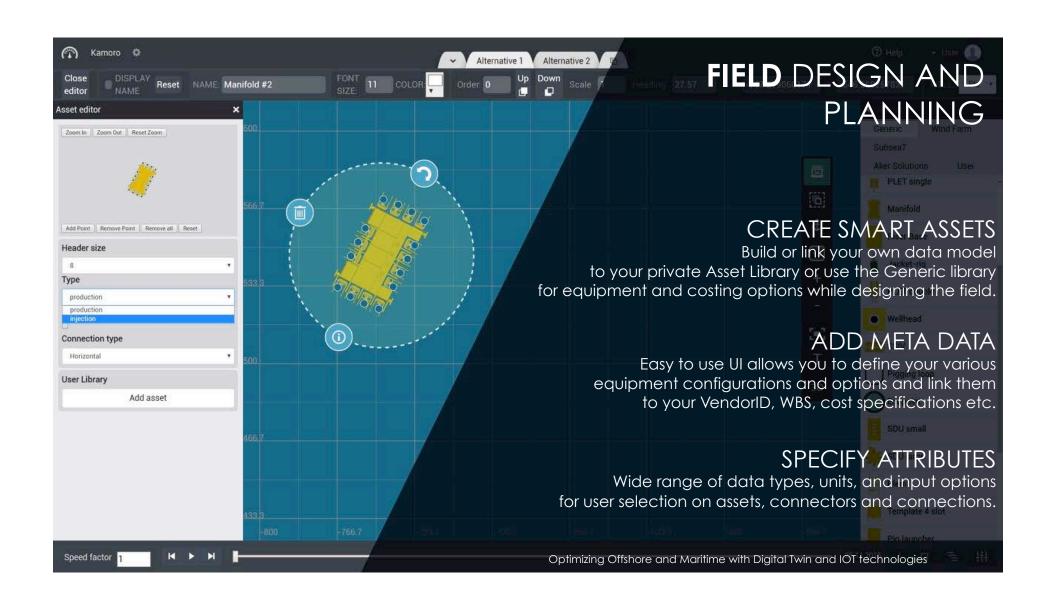
STRENGTHENED RISK MANAGEMENT

- Improving the quality of coordination
- Securing zero accidents tolerance
- Faster Knowledge of Integrity issues.

CREATING THE **DIGITAL TWIN**START WITH YOUR **DATA**



HISTORICAL ARCHIVES
GIS AND MAP DATA
BATHYMETRY SURVEYS
RESERVOIR MAPS
PIPELINE / WELL PATHS
AS-BUILTS - P&ID'S
EQUIPMENT ASSET DATA





INSTANT COST ESTIMATES

Changes in the field layout are immediately visible in the cost module, allowing for interactive analysis.

COST TABS & CATEGORIES

Separate Tabs for Cost Equipment & Operations. Costs are automatically grouped into categories; SPS, SPP, PIPING & INFRASTRUCTURE, etc.

IMPORT/EXPORT DATA TO ANY FORMAT

Export cost and Bill Of Materials to MS Excel from the cost module with the click of a button. Or use the API direct with Excel macros.

COST SERVER INTERFACE

Interface with your own back-end on premise cost/ calculation software for instant and accurate up to date cost calculations.

Optimizing Offshore and Maritime with Digital Twin and IOT technologies

Infrastructure

Sur

oplier	Cost	Curre
	30,000,000	USD
	1,250,000	USD
	6,500,000	USD
	6,500,000	USD
A.		

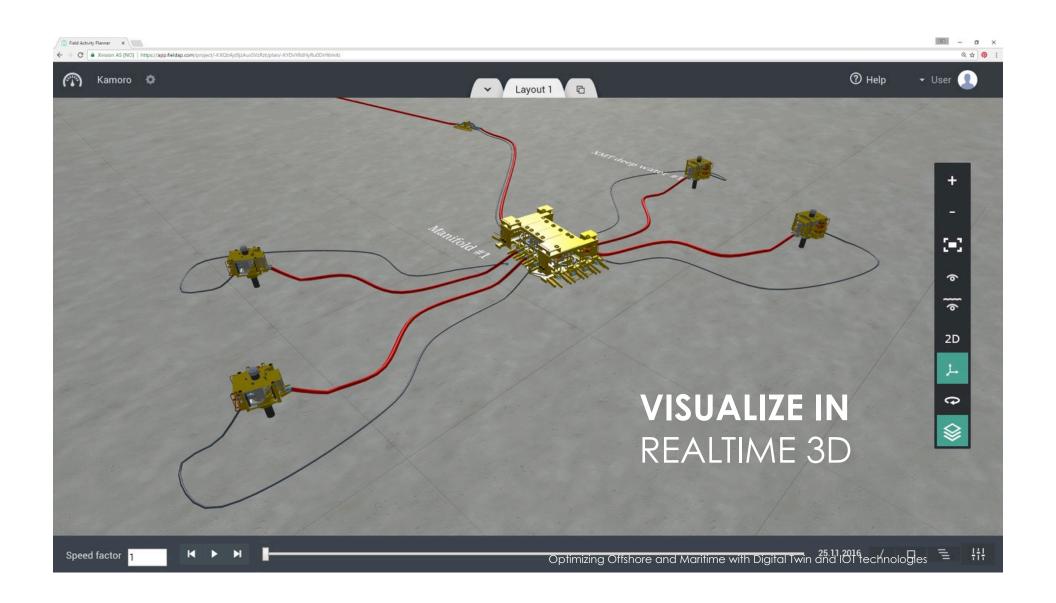
		Export	n
Umbilicals		2 _m	
Name	Supplier	Cost	Curre.
▶ Umbilical		1,260,000	USD
▶ Umbilical		1,260,000	USD
▶ Umbilical		1,260,000	USD
▶ Umbilical		1,260,000	USD
▶ Umbilical		6,800,000	USD
▶ Umbilical		1,260,000	USD
+ Add item			

ture : 48,000,000.00 USD Cost Umbilicals: 13,100,000.00 USD

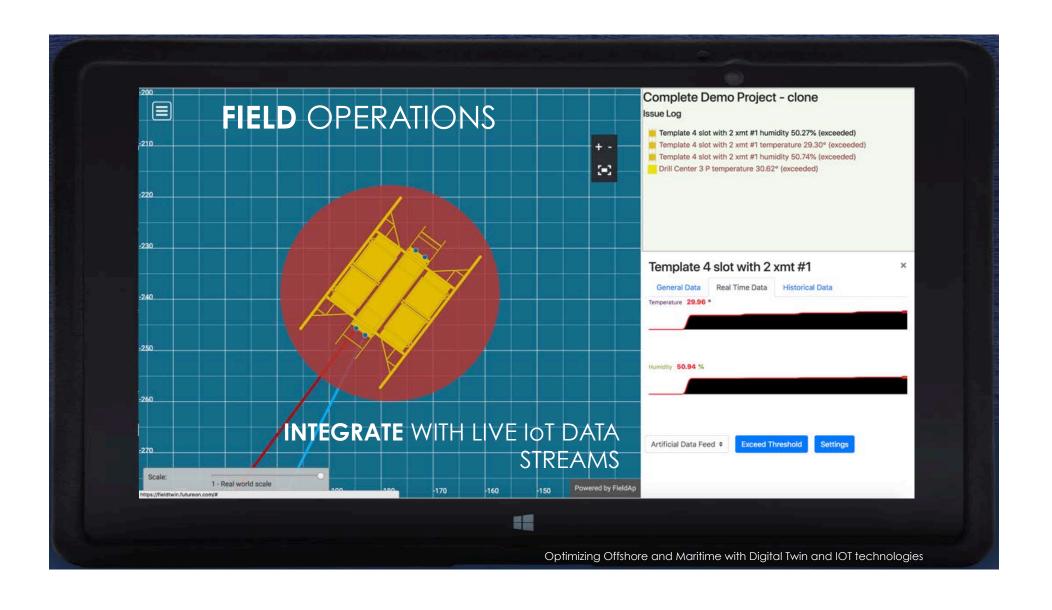
Total sum:

Equipment: 193,600,000.00 USD

Operations: 0.00 USD









DIGITAL TWIN LIFE CYCLE USE CASES

Well Planning

Field Development Installation, completion & Intervention

Offshore and Marine Operations

P & A

Innovation through Collaboration

Identify optimal well

Run Offset Simulations

Test models with Analytics

Field Layout Optimization

Predict installation types & costs

Run Field Simulations

Benchmark to select the best equipment for your

environment

Familiarization

Training

Forecast planned activities

Avoid unplanned interventions/ downtime

Minimize planned downtime

Benchmark your installation success rate

Marine Planning

Custody Transfer

Optimise installation, modifications, intervention and maintenance

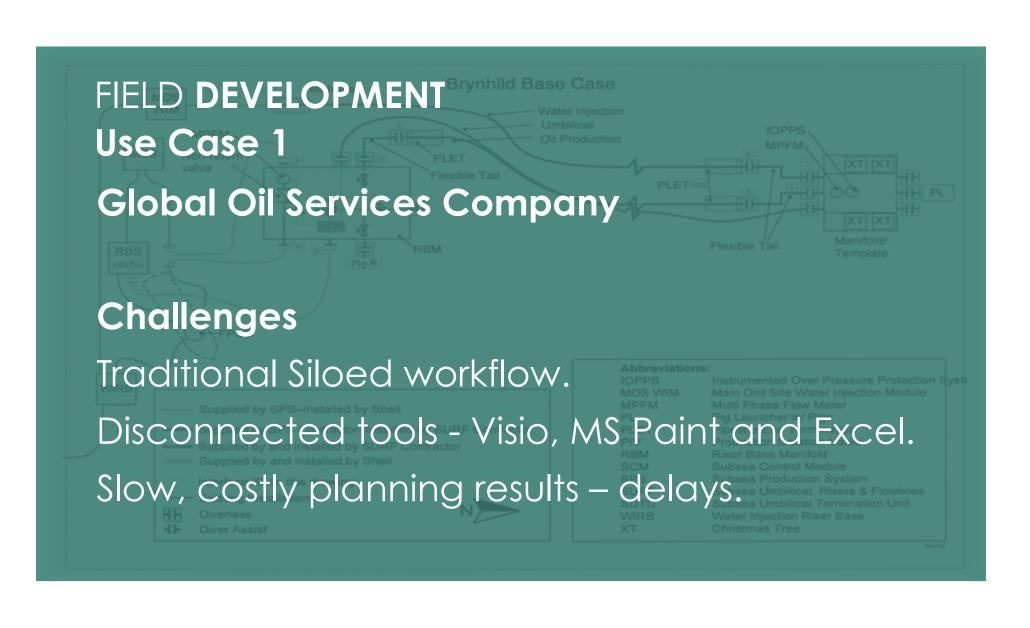
Connecting information

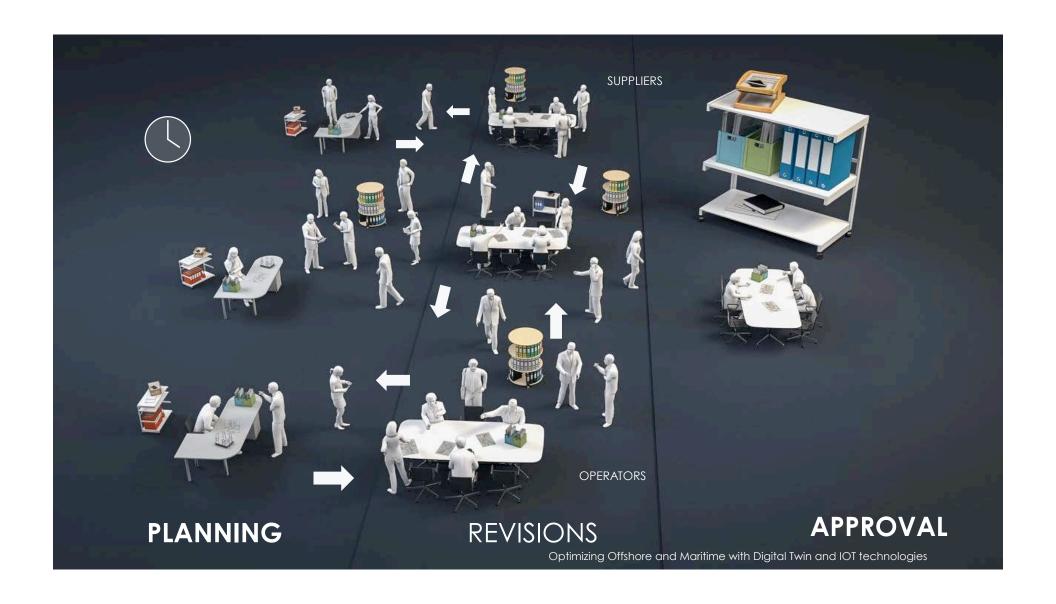
Activity tracking and measuring

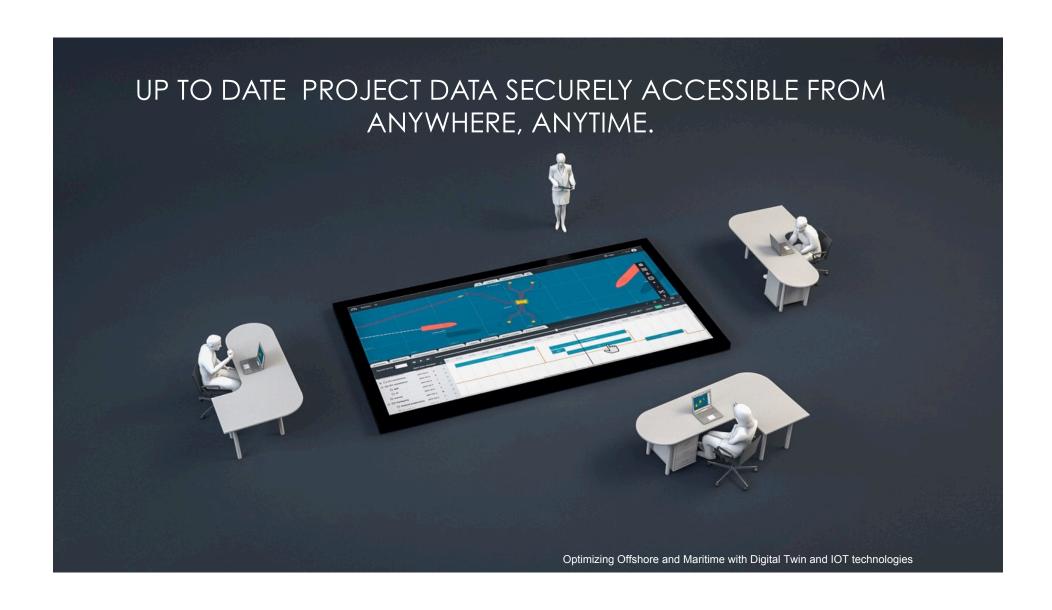
Schedule P&As according to risk picture

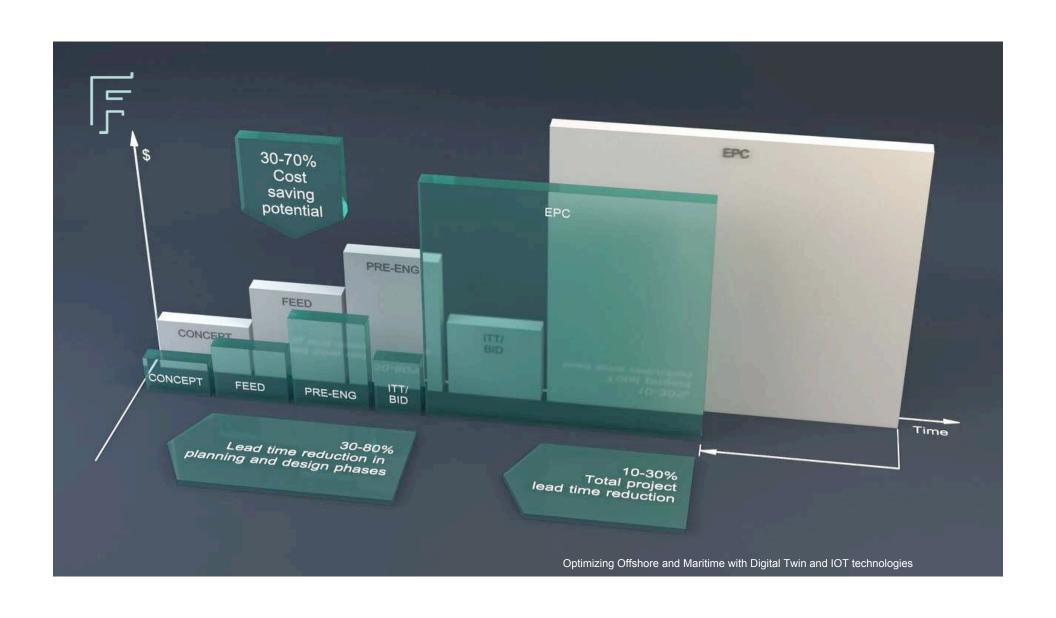
Decommissioning plan

DIGITAL FIELD OF THE FUTURE









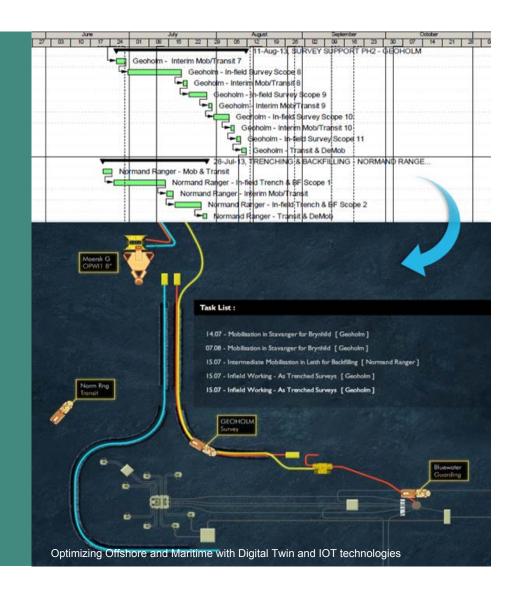


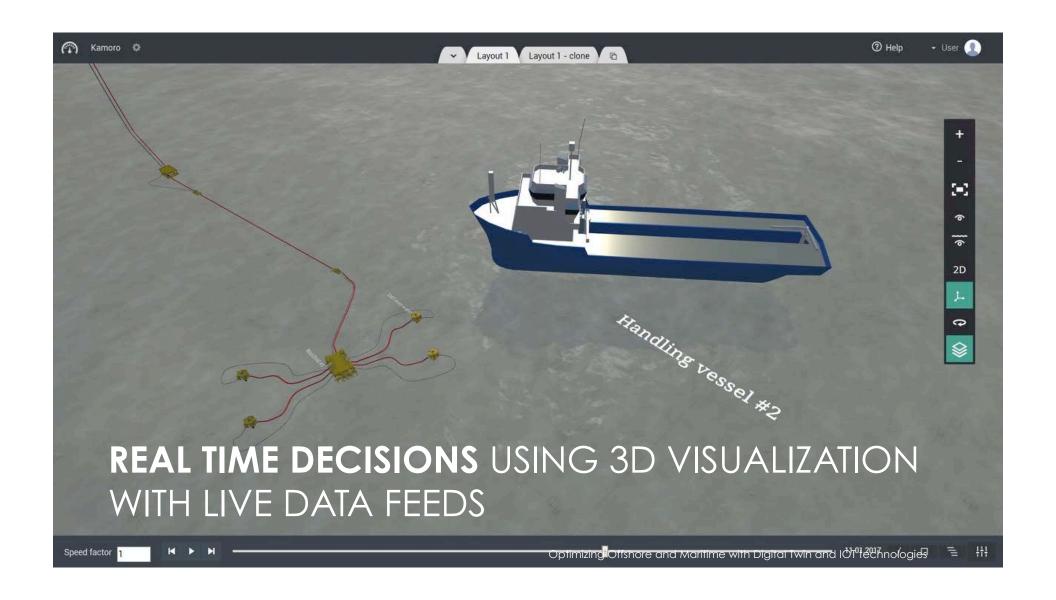
CHALLENGES

Planning Conflicts

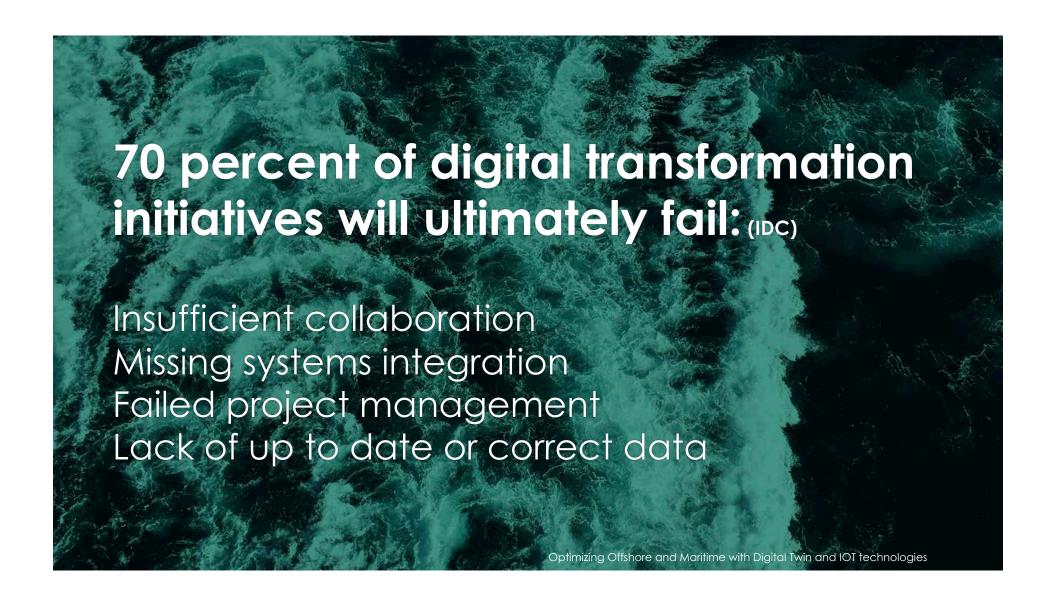
Lack of connected data sources.

Idle vessels













SUCCESSFUL ADOPTION OF DIGITAL TRANSFORMATION



Collaboration across the board



Single Source of the data truth



High Quality of communications



Accelerated decision making



Always on, cloudfirst architecture



Open access to all data



100% digital working environment



Substantial cost saving



Reduced time to market



Improved operability



Strengthened risk management







IMPROVED OPERATIONAL PERFORMANCE INCREASED FIELD PROFITABILITY



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