"In short, the software solutions is for the management of conditions on a platform.

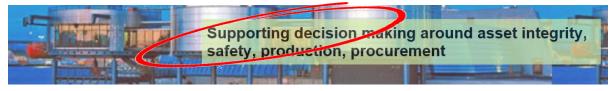
In the bottom of is a kind of search-robot, that after carefully programmed parameters continuously scans the entire 56 different data sources.

The system can also generate graphs showing development and the relationship between processes."

- digital background/next slide...



Transforming Offshore Operations - Working with Digital Technology



November 29, 2017 – Stavanger - Norwegian Petroleum Museum





We had a headstart on digital transformation ...



Used by 16 operating units at Hydro Production

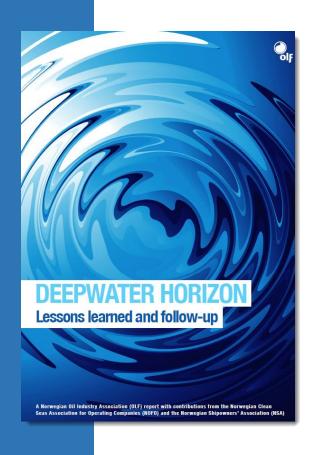


Speaker topic;

Supporting drilling crew and management's risk awareness in operations using digitech



Lessons: Underlying Organizational/Human Causes



Lack of major hazard leadership

Failure of MOC and SEMS

Compartmentalization of information

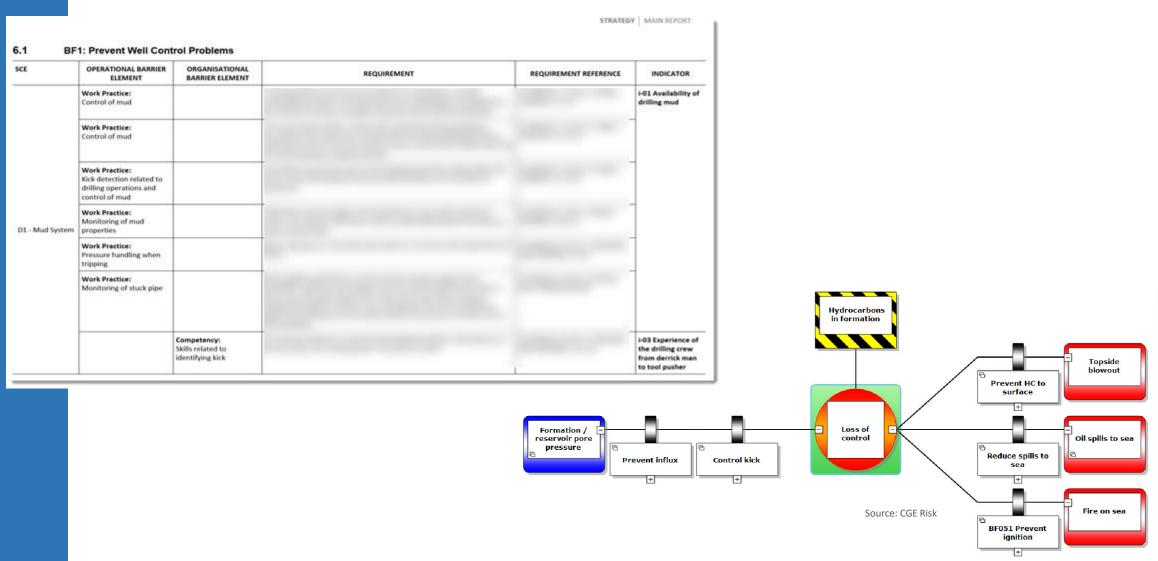
Ineffective management and oversight

Failure to analyze and appreciate risk

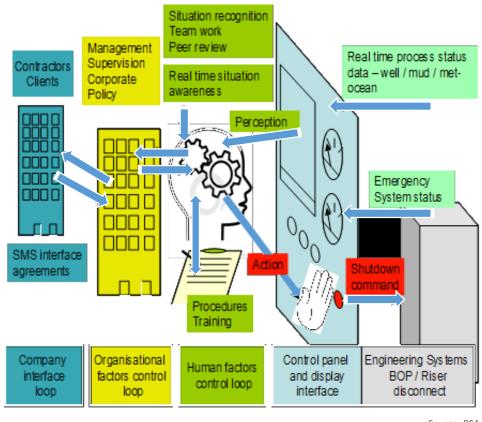
Failure of decisions support

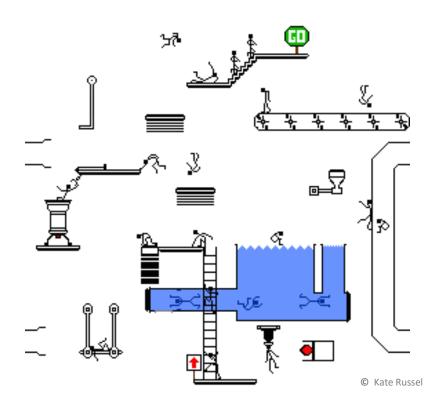


Industry responded - \$ investment in updating of documents and risk analysis









Source: PSA

Complex Adaptive Systems Challenge





Barrier strategy



Performance standards



Technical condition



Maintenance



Competence situation



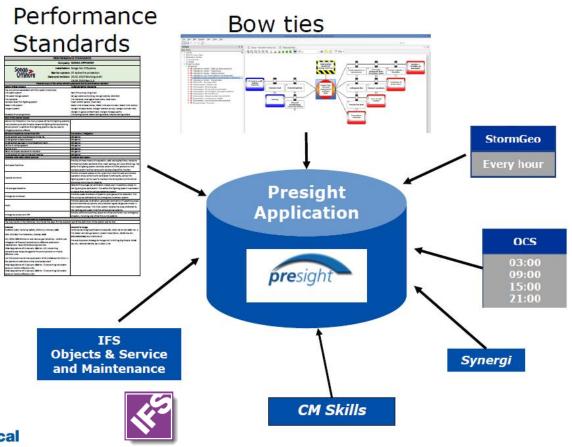
Weather condition



Simultaneous operation

Songa Offshore Build up



























Digitalised MTO performance monitoring – User context for decision making



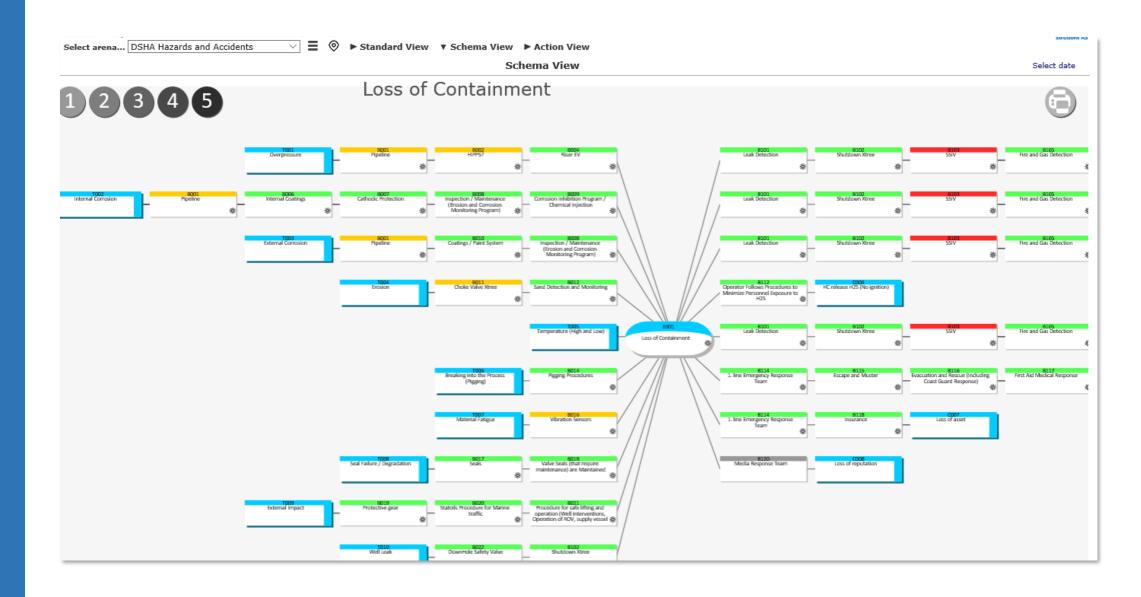


Decision support for operations – status today and situation ahead





Dynamic bowtie diagrams with drill-down through schema to source system





Importantly – digital approach making a difference in off- & onshore operations

"Has increased barrier safety and risk awarness across our operations"

"Displine leaders and offshore crew is now driving our safety improvements"

"Now achieving 'pull vs push' in our safety performance needs from onshore"

"Red is not bad – now we know and can do something about it!"

"As Songa's drilling environment becomes more complex, we will continue to improve, as all of us can now recognise the signal from the noise"

Rig Manager - Songa Delta







Presight Effect

Day-to day use through permit meetings offshore

Part of morning meeting presentation with client

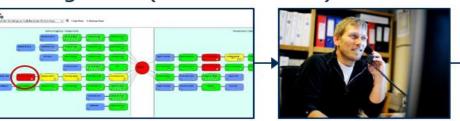
Heightened focus on barriers

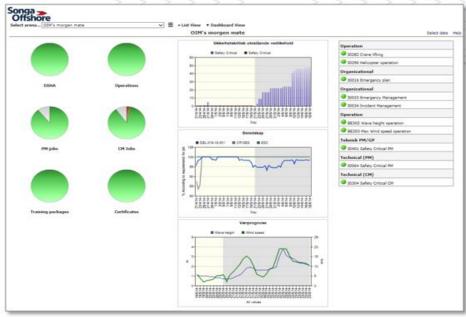
User-friendly. Information easy to access.

Quality in sub systems increase ("Big brother")

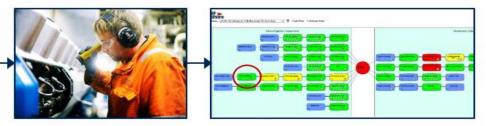
Seeing all elements of barrier management (Barrier functions)

Trust





Dashboard for OIMs morning meeting



Client network meeting January 2016



Extended Reality solution for operations status and spatial awarness in planning







Presight R3ality –
Digitalisation Innovation
with offshore energy
systems expertise and
experience



