

SUBSEA CONTROL SYSTEM TIE-BACKS TO LATE-LIFE ASSETS

Managing the unknown



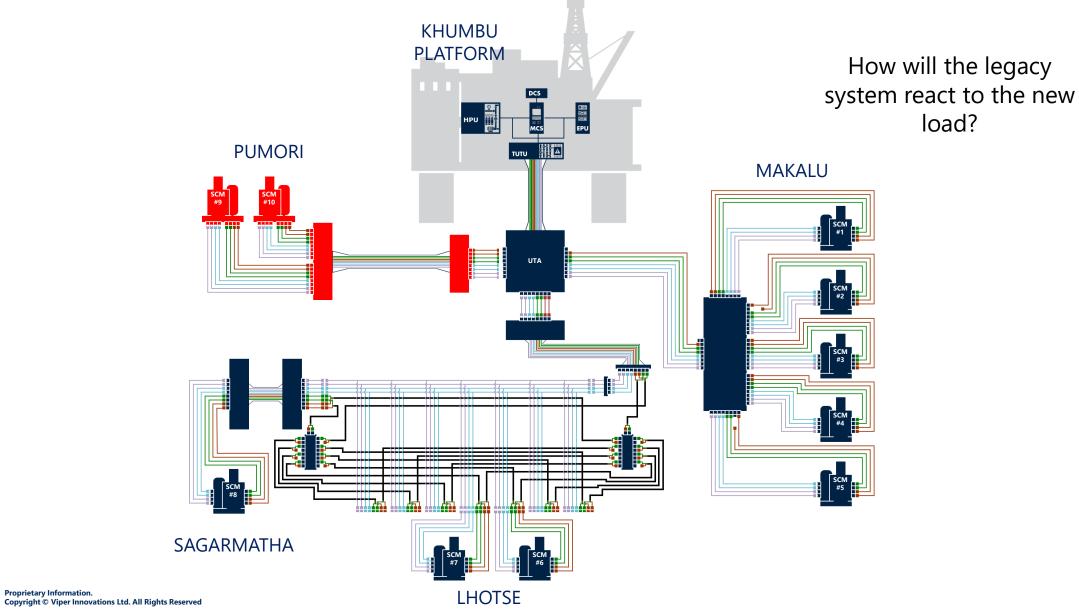


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Proprietary Information.

SUBSEA CONTROL TIE-BACKS



load?



THE UNKNOWNS

ESD closure time?

Operating

System futureproofing?

Additional LP accumulation?

What precharge pressure is left?

Electrical tie-in points at UTA?

Insulation Resistance?

MCS capacity for addition well pages?

Subsea comms bandwidth?

Control fluid contamination at SCMs?

Control fluid leakage?

HPU reservoir capacity requirement?

Sub-system redundancy?

Component fault history?

Proprietary Information.

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ANSWERING THE QUESTIONS

From Analysis

From Integrity Management

ESD closure time?

Additional LP accumulation?

Electrical tie-in points at UTA?

Subsea comms bandwidth?

HPU reservoir capacity requirement?

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Operating
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Control fluid contamination at SCMs?

What precharge pressure is left? Control fluid leakage?

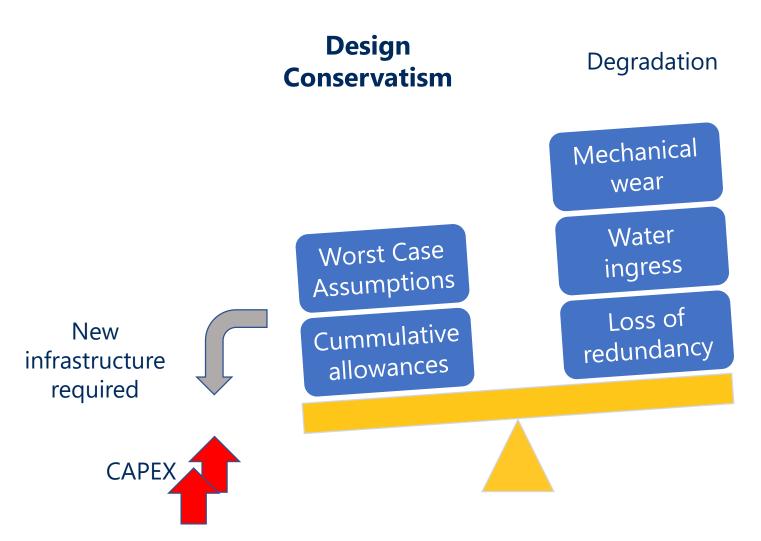
Insulation Resistance?

Sub-system redundancy?

Component fault history?

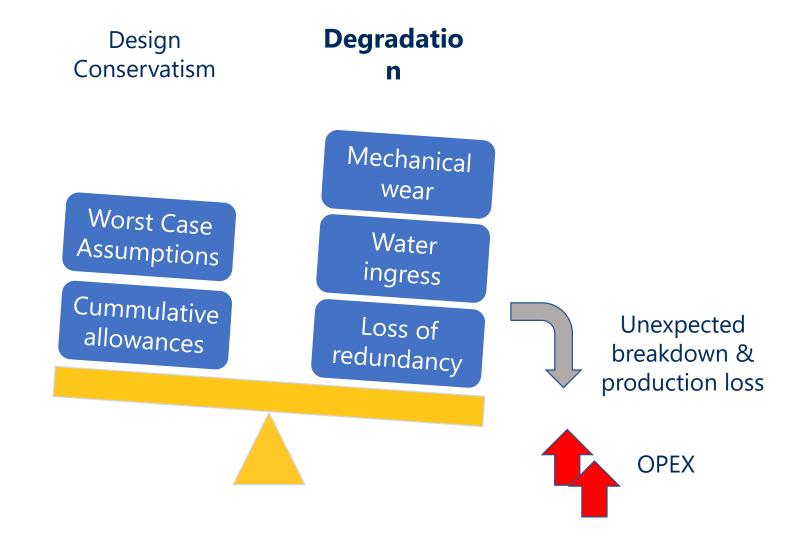


THE UNCERTAINTY BALANCE





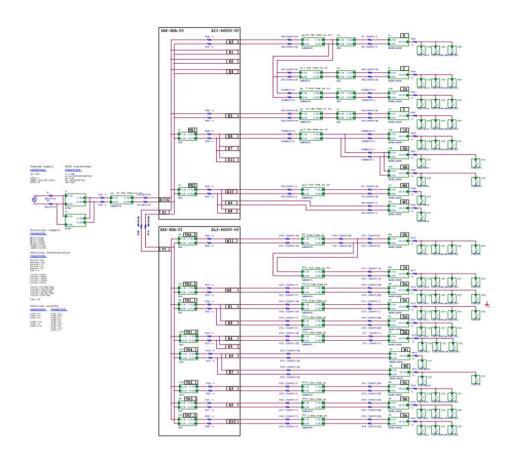
THE UNCERTAINTY BALANCE





ADDRESSING THE CAPACITY QUESTIONS

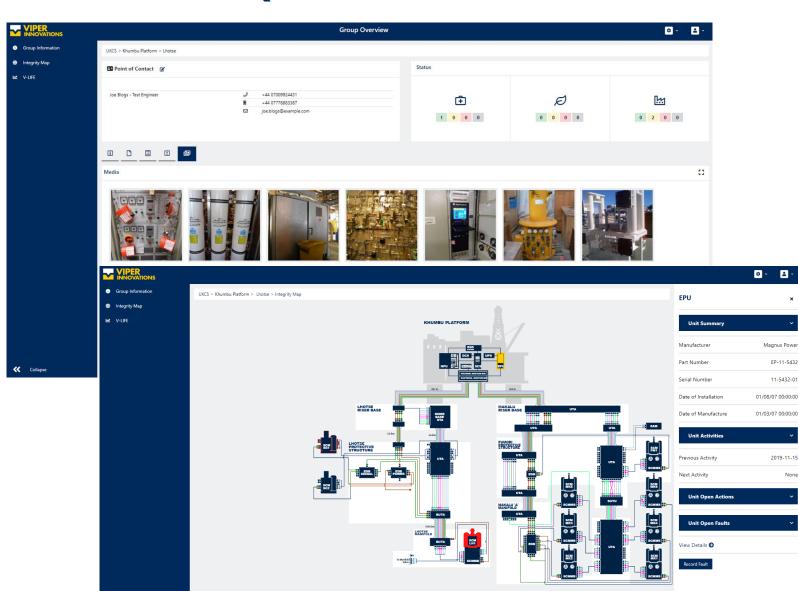
- Validation of the electrical and hydraulic analyses with real-world input / output data.
- Refining the software models to quantify the actual operational headroom.
- Interface and set-up optimisation.





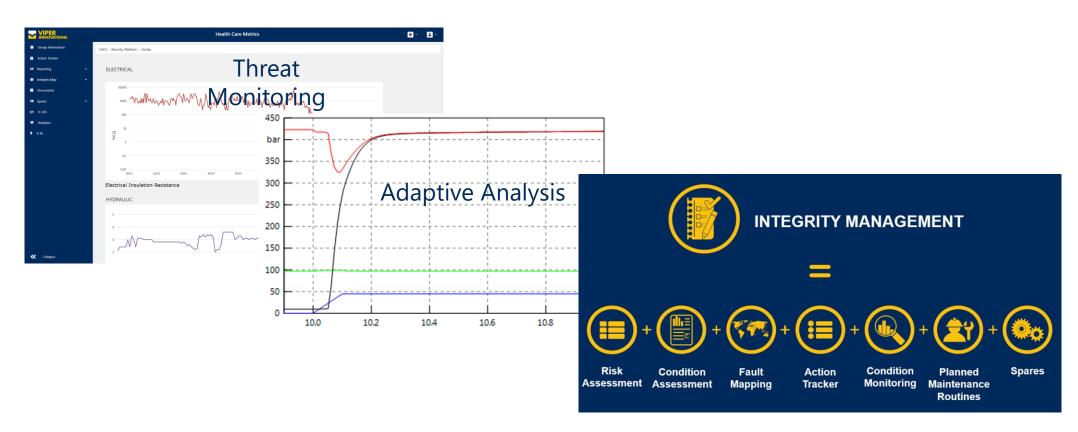
ADDRESSING THE INTEGRITY QUESTIONS

- Systematic collection of data.
- Turn data in meaningful KPIs.
- Record fault history.
- Record the maintenance & repair history.
- Compile all the information in one place.
- Identify and monitor threats levels.





THE PRIZE



Informed investment decisions based on the best use of the available evidence.



Enabling Subsea Assets to Work Better for Longer

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