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Asset Integrity Management

The need for technical experts
in a digital(ising) world

Introduction



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- 15+ years in Oil and Gas industry
- Subsea and Topside Instrumentation and Controls specialist
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SMS – Services



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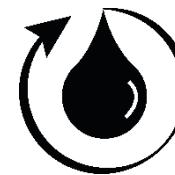
The design, manufacturing and service experts for electrical, hydraulic and pneumatic control systems in the energy industry.



Inspection
Services



Hose Manufacture
and Supply



Hydraulic
Services



Electrical and
Instrumentation



Repair,
Refurbishment and
Decommissioning



Obsolescence / Spares
Management and
Component Supply

Overview



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Asset integrity

- Digital is here (and here to stay)
- Digitally enhanced inspection services
- The need for technical experts in a digital(ising) world
- SMS case studies: Hose management and EX electrical inspection

We live in a digital world



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The first fully integrated
digital oilfield

Industrial IoT

Digital transformation is key to
operational excellence

Industry 4.0

Fracking in the Cloud

Artificial intelligence

The need for inspection



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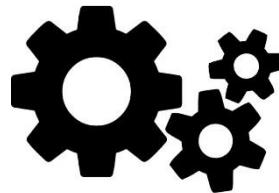
Faulty equipment causes costly disruptions



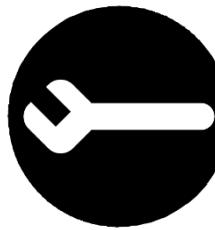
Health, Safety
and
Environmental



Mandatory
compliance
with regulations



Optimal
operation of
products



Spot and
eliminate
faults



Cost saving
potential

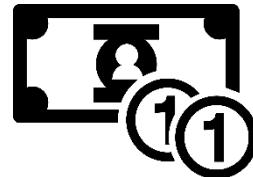
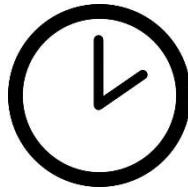
Analogue issues



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Paper-based solutions face significant limitations



Inefficient use
of time

Expensive in
operation

Highly labour
intensive

High error probability;
Risk of information
loss

Digital performance



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Innovative. Intuitive. Instant.

What?

Reduced inspection costs

Minimal disruptions

Secure, transparent and auditable data transfer

Improved planning effectiveness

How?

- Accelerated data input, analysis and reporting
- Improved access to information
- Greater inspector mobility

- Live status updates through regular syncing
- Instant fault identification to prompt action

- Regular storage and analysis of input prevents data loss
- Reliable protection of confidential information

- Prompt data feed
- Daily reports allow for progress monitoring and effective planning

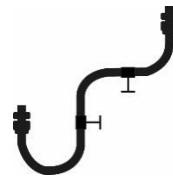
Only part of the solution



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Digital augments processes, but technical experts are still required



Close and detailed inspection

Component inspection

Compliance

Speed of resolution

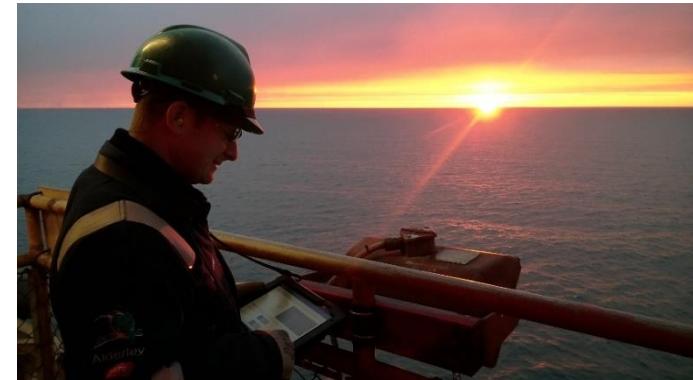


Case Study: Hose Management Contract



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- Inspection costs reduced through electronic reporting
- Disruptions minimised by pro-active quotations and replacement supply via MAXIMO integration – reducing downtime
- Planning effectiveness improved by increased clarity of hoses requiring inspection during each site visit.

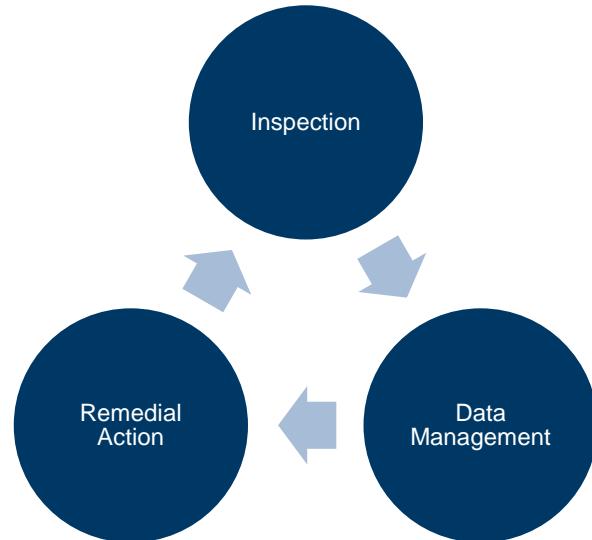


Case Study: EX Electrical Inspection and Remedial Works



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- Inspection costs reduced through electronic reporting
- Fully auditable data from inspection reports to create an Ex equipment register
- SMS Inspection team + Inspection Manager resulted in common fault trends being quickly identified
- Informed remedial actions and preventative measures to reduce unplanned downtime.



Summary



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- Digital technologies are essential to improve asset integrity management processes
- But they are not a solution on their own
- Digital should always be used to augment the experts

SMS **Inspection Services**

Powered by



**INSPECTION
MANAGER**



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