

BUSINESS MODEL

#### **OUR PARTNERS:**



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SS	CONSULTING	PROJECT MANAGEMENT SOLUTIONS
JL	OUR TEAM:	<ul> <li>Asset Integrity: Multi-discipline Engineers Multi-discipline Technical Authorities / Reliability Engineers / Process Engineers / Engineering Project Managers / Data Scientist</li> <li>Well Management: Well Integrity Engineer Geophysicist / Drilling Engineer / Petrophysicist Reservoir Engineer / Production Engineer Data Scientist</li> </ul>
Gen HER dos	<b>INVESTMENT:</b>	PROVE CONCEPT & MODEL
etHub.		<b>()</b> TIME
	<b>CLIENT RETURN:</b>	<ul> <li>Uptime equipment gains of at least 20%</li> </ul>
<b>ITY</b> WEB'		• <b>40-90% reduction</b> in deployment time in comparison with stand-alone APM solutions.
		<ul> <li>80-95% reduction in failure risks</li> </ul>
360		<ul> <li>30-60% reduction in opened equipment</li> </ul>
2000		<ul> <li>50-90% reduction in inspection points</li> </ul>
lisor		<ul> <li>Cost savings of up to 50% for inspection and maintenance of assets</li> </ul>
		<ul> <li>Typical return on investment would be &lt;1 year</li> </ul>
		<ul> <li>Compliance with government and industry guidelines and standards</li> </ul>
		Ongoing operational verification of safety critical elements
		O Class and certification of innovative decommissioning
		<ul> <li>Software delivery &amp; potential licensing</li> </ul>
2585974		O Dashboards
		O KPIS
		Supply chain co-ordination



## DATA CAPTURE

# POOR DATA COLLECTION

#### DATA INPUT

Physical Inspections Manual Entry Labour Intensive Time Consuming Rig Time / Bed Space

#### DATA OUTPUT



Equates to 20,000 bad data points requiring some sort of modification. QA executed only captures the obvious errors, it cannot possibly be able to check every single entry where there is a '1' or '1', or '0' or '0'.

#### MAINTENANCE METHODOLOGY

Calendar Based Monitoring Risk Maintenance

#### ASSET 4.0<sup>™</sup> DATA COLLECTION = GOOD DECISIONS

#### **DATA INPUT**

Integrated Real Time Agile & Enabling Optimising Technology Driven

#### DATA OUTPUT



Machine error is 97% due to bad quality documentation, where recognition is challenging even for a machine. But machine accuracy is 100% if character recognition is possible. This equates to 1,500 erroneous data points which are flagged by red mark ups on the electronic copy drawing.

#### MAINTENANCE METHODOLOGY

Condition Based Monitoring Predictive Maintenance



## INCREASE OF TECHNOLOGY vs TIME

### WHAT DOES THIS MEAN?

The calculations from projects showed that human error is high in manual data extraction and enrichment - the figure is actually in the range of 40-60% and machine data extraction is 97% accurate. The ultra-high human error percentile introduced means that every project then has to be intensively quality control checked at multiple critical control points throughout the project life cycle. Adding extra time, resources and cost, that either we as a company pay or have to pass onto the client. This contributes heavily to the high cost per year for an operator of \$14m.

## INDUSTRY

### Globally recognise problems corroborated with Operations. These are the root cause for notifications issued from the HSE and the PSA.

UKCS total 2,100 Wells,

with 600 Shut-In equals 33 million boe loss/year at \$67/barrel



UKCS Market is worth 300 million boe/year at \$67/barrel

Time spent seeking information used in order to solve problems



The average annual cost due to poor data for an operator

## **Global & UKCS Market Potential**



**B** for machine learning by 2020

Is the potential economic impact of the IoT by 2025

В

Is the global market for predictive maintenance by 2022



**UPHOLE / SURFACE**