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**ASSET INTEGRITY
MANAGEMENT
SUMMIT ASIA 2012**
26 - 27 September 2012
www.assetintegritysummit.com

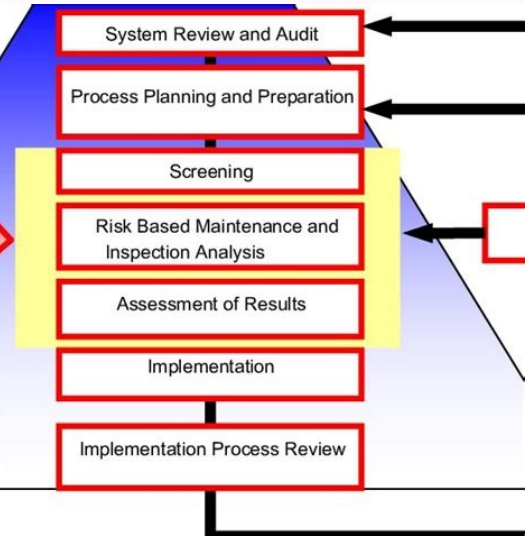
4 Steps **Plan-Do-Check-Act**

For an optimal management of assets over the whole life cycle:

What are the right questions to ask to increase the life of your assets?

| Plan | Do | Check | Act |
|--|--|---|--|
| 1. Find out where you are and where you want to go. How are you established as asset management framework with clear objectives and processes? How will you ensure consistent performance of assets, throughout their lives and still deliver corporate objectives profitably? How will you determine the criticality and value of assets? Do you have a toolbox of techniques to manage all asset related risks? How will you develop inspection, test and maintenance plans? | 2. Learn how to get there. How will you execute inspection, test and maintenance plans? How will you allocate roles and responsibilities to the right people? Is there proper communication and coordination between asset stakeholders? | 3. Evaluate the actual performance. How are you monitoring and managing deviations? What tools or processes are you using in assessing and improving performance? How can you continually improve the performance of the Asset Integrity Management System with the data collected? | 4. Management review of operations. Have you achieved your objectives in your asset integrity management process? How can you perform even better next time? What went wrong? What needs to be changed going forward? How will these results, help identify resources, competency needs and the processes needed for the asset's life cycle? |

Seems Easy... But Implementing this 4 step Process is a challenge
Visit www.assetintegritysummit.com to learn more



BY THE NUMB3RS

ASSET INTEGRITY

In the wake of the oil price descent, oil and gas operators have become more conscious than ever of the importance of asset performance.

Keeping a facility that may have gone past its original lifespan in optimal operational conditions has gone from being a compliance obligation to a necessity.

The mantra of "more with less for longer" is being heard in boardrooms from Aberdeen to Abu Dhabi as companies adjust to the \$50 per barrel oil price environment.

In the North Sea, certain factors make the scenario more acute. Below, we look at some of the key figures that underpin asset integrity on the UK and Norwegian Continental Shelves.

\$60 per barrel, the break-even price of North Sea oil

51 % of oil and gas professionals are working on installations

30 years old or even older

1357 offshore installations in the OSPAR maritime area

545 are fixed steel assets

80 % of these will come out of service by 2030 with a

£47,000,000,000 decommissioning bill

25 % of professionals can be engaged in maintenance at once

750,000 work orders on a rig in its lifetime equating to

9,000,000 man-hours of maintenance at a cost of

£2,000,000,000, which is roughly the price of

2 brand new 7th generation semi-submersible rigs or

£182,648 spent every day on maintenance for 30 years

5.4 /10, the average rating for asset integrity effectiveness

58 % of professionals said their programmes were less than 5/10

Oil & Gas IQ has a legacy of producing world-class asset integrity events and working with dozens of partners to craft bespoke online campaigns for lead generation that doesn't have to abide by geography, time zone or physical space.

If you would like to showcase your asset integrity solution to our database of 148,000 oil and gas professionals, email us at OnlineSponsorship@igpc.co.uk now.

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With thousands of physical assets - pipelines, plants, installations and equipment - connected to the Internet, these legacy workflows can not keep track of the amount of operating data being generated and are not proposition to provide visibility in time critical production processes. Need to update Why change? Global Positioning System (GPS): Always know where all your fixed and rotating assets are, and spare time and effort following your movement or on the location of the equipment at the time of inspection O. When accelerating digital transformation and ensuring the digital robustness of its AIM environment, O & G companies would be able to redistribute the scarce financial and human resources in an effective way, helping them to achieve their business objectives and prosper World Vuca today. The software will serve as an unique platform to manage all types of equipment and provide updated data for risk-based inspection. The answer is: slowly. Also from the point of view of organizational productivity, paper-based processes, Excel spreadsheets and monthly report cycles are not more sustainable. Integrity operation windows: Follow the operational conditions in almost real time with early warning notification and take immediate corrective measures to mitigate the of stops. As margins shrink and demand falls, the obvious way to ensure profitability would be to cut unnecessary costs. unnecessary. Is also a lack of qualified resources in the space due to technological updating over the years and a shortage of new talent. Inspection Data Management (IDM): Migrate all legacy data to a reliable, digital IDM database and implement standard processes to digitally collect, populate and analyze new asset data within the IDM software. O&G companies can leverage a range of technology solutions to enhance their AIM capabilities, starting with: Mobile Technology: Streamline maintenance operations by providing operators with access to real-time data from oilfield sensor networks and Supervisory Control and Data Acquisition (SCADA) systems. US diesel margins are currently at \$11 per barrel, the lowest, seasonally, in the last decade. Some parts are regularly moved from one location to another, making inspection planning a difficult task. The launching of the Oseberg H hammers that point home, as the platform cost 20% less than expected and was built to ensure that oil production costs will remain below \$20 per barrel for the next 22 years. Using augmented reality, guide field workers through the oilfield, reducing average repair time. The writer is Executive Vice President, Digital Consulting, HCL Technologies Published June 29, 2020

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