



Asset Integrity – Underpinning Economic Recovery

- The need for far greater constructive collaboration between operators
- The need for better implementation of industry strategies
- The need for significantly improved asset stewardship

UKCS MAXIMISING RECOVERY REVIEW: FINAL REPORT

> 24 February 20 Sir Ian Woo

## Asset Integrity Task Group MERUK Forum & Governance



#### **MER UK Forum**

#### **MER UK Steering Group**

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Exploration

Exploration Task Force

**Technology** 

Technology Leadership Board **Asset Stewardship** 

Asset Stewardship Task Force

**Decommissioning** 

Decommissioning Task Force Efficiency

Efficiency Task Force

Supply Chain & Exports

Supply Chain & Exports Task Force Smaller, focused membership with industry chairs, government ministers and officials, OGUK & OGA leadership, with others invited according to the agenda.

Focus of this group will be to steer the six task forces, discuss & review key strategic issues such as industrial strategy, collaboration & OGA/ Industry interface.

The MERUK steering group will meet twice per year.

Six core areas highlighted by the WOOD report that would benefit from industry strategy.

Lead by appropriate industry leadership. The groups have been changed from "Boards" to "Task Forces" except in the case of the Technology area.

These groups are chaired by Industry Leaders

Eg Technology Chaired by RSRUK CEO Asset Stewardship Chaired by Apache MD

## Asset Integrity Task Group Asset Stewardship Task Force Priorities



Objective: To enhance and improve asset stewardship by maximizing value by improving safety and efficiency

Chair: Jon Graham - Apache Managing Director

Funded: OGA Support funded from OGA levy, industry Supported and funded through association

Key Relationships: MERUK Task forces especially technology leadership board, supply chain and exports.



### Asset Integrity Task Group **AITG Members**

















































## Asset Integrity Task Group AITG Objectives and Deliverables



Objective	To bring greater industry collaboration with the intention of solving common industry problems and setting a bench mark of Asset Integrity stewardship.	
Resources	Sponsor	Team
	Steve Gardyne – Operations Vice President RSRUK	16 X Duty Holders, HSE, OGUK, Step Change In Safety, OGTC.

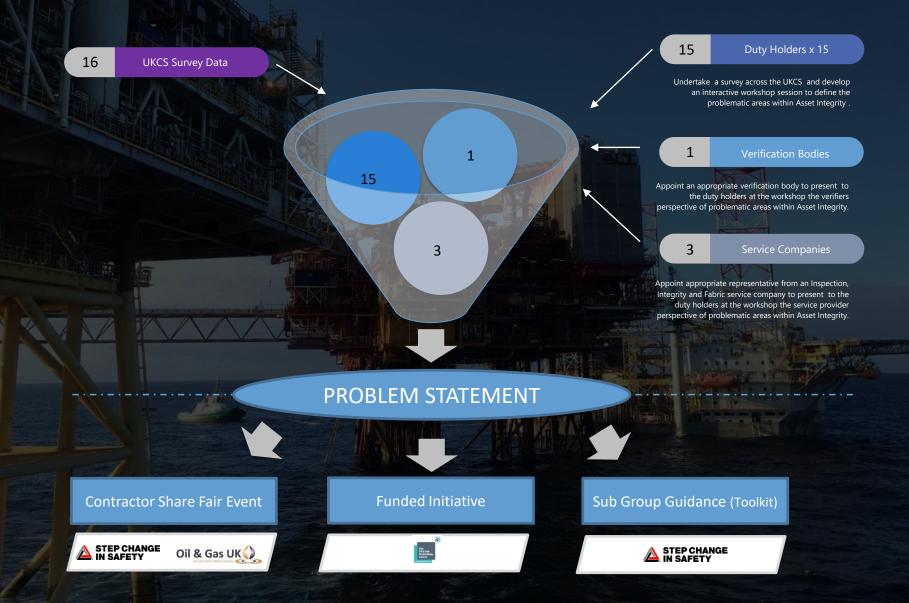
1. Define a list of problematic areas/ improvement opportunities within Asset Integrity that are common across the industry.

#### **Deliverables**

- 2. Develop a map of existing asset integrity initiatives and best practices showing industry ongoing improvements and future direction setting.
- 3. Develop a draft expectation relating to good integrity practise for consideration of the Asset Stewardship Taskforce/OGA

## Asset Integrity Task Group Objective 1 – Define Problematic Areas (WORKSHOP)







Survey Data - (From 45 assets / 80% UKCS Production)



Asset Integrity losses in 2017: 14.7 MMboe



Rise in Production Efficiency from 2016 to 2017 contributed circa 11.8 MMboe



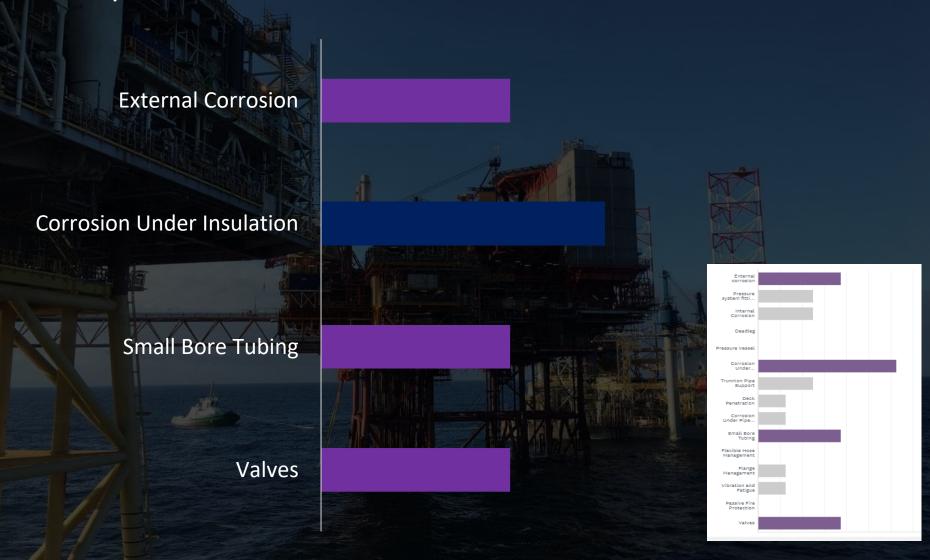
Asset Integrity related production loss across 45 assets surveyed is roughly equivalent to PE gains from 2016 to 2017.



**14.7 MMboe** is equivalent to about the UK's 8<sup>th</sup> largest producing asset.



Survey Data - (Top causes of asset integrity related production loss)



**OIL&GASUK Data** 



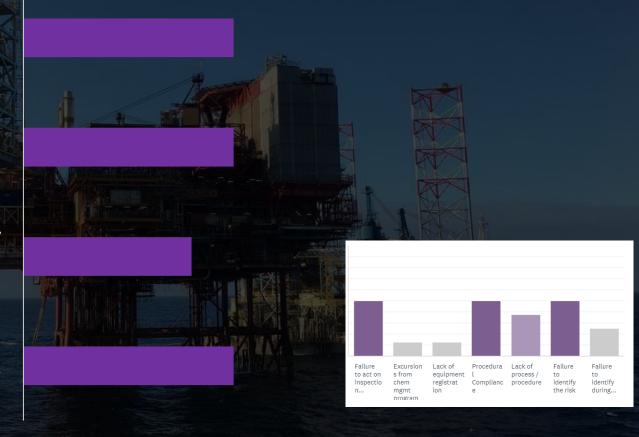
Survey Data - (Top root causes of asset integrity related production loss)

Failure to act on inspection findings

Procedural Compliance

Lack of process / procedure

Failure to identify the risk





Improvement Opportunities- (Some Common Theme's)

Overly onerous/ Inadequate CRA & RBI Manual,

Excel-based work packs. Lack of software & tablet tech

Lack of trust in new inspection techniques resulting in intrusive inspections

Lack of integration between databases

i.e. IM to SAP/MAXIMO

Cottage industry of Work pack creation

Duplication in inspection reporting & review cycles

Chasing external corrosion

## Asset Integrity Task Group Deliverable 1 – Map Common Opportunities



14 Reportable HCRs
95 Loss Of Containment Events
14MBOE Production Loss Within A Year

#### Plant Process Valves **Industry KPIs** Safe Space workshops (Al Managers) **Knowledge Share Risk Based Inspection External Corrosion** (Standard) Live Line blasting -CUI (Standard) Temporary Repairs A STEPCHANGE Verification **Trunnions** Learning

### People

MAH Leadership (Senior Leader Engagement)

A STEPCHANGE

MAH Understanding (videos & e-learning)

- New opportunity
- Existing activity, opportunity to embed the correct industry personnel (AITG) into these workgroups.

Existing guidance /
Resources required to
update – Good
practice output from
other activities

**Asset Integrity Toolkit Update** 

Data driven identified improvement areas



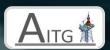


- To monitor progress of the roadmap
- To test ourselves annually to understand effectiveness of improvements
- To provide support to industry efforts in completing these tasks (Funding, Steering & adopting)

# Asset Integrity Task Group MERUK Roadmap Launch



## Asset Integrity Task Group Summary



- Our objective is to pull existing industry efforts together and connect the efforts to those who can make the improvements real
- We have used a data driven approach to direct, guide and steer industry improvement efforts
- We have connected industry efforts to those who can gain benefit. This
  creates opportunity for funding, steering but most importantly commitment
  for adopting.
- The Asset Integrity task group meet quarterly and will discuss progress against the roadmap and constantly challenging ourselves to ensure its validity.





driving improvements in Asset Integrity across all UKCS facilities

