

An aerial photograph of an offshore oil rig at sea. The rig is a complex of metal structures, including a derrick, cranes, and a helipad. The rig is supported by a red and white platform. The sea is dark blue, and the sky is overcast. The rig is positioned in the center-left of the frame.

**GETTING OLD BUT
STILL ACTING YOUNG**
– are your wells as old as
they look?

Oyin Adeniji, Drilling Engineer



What am I here to talk about

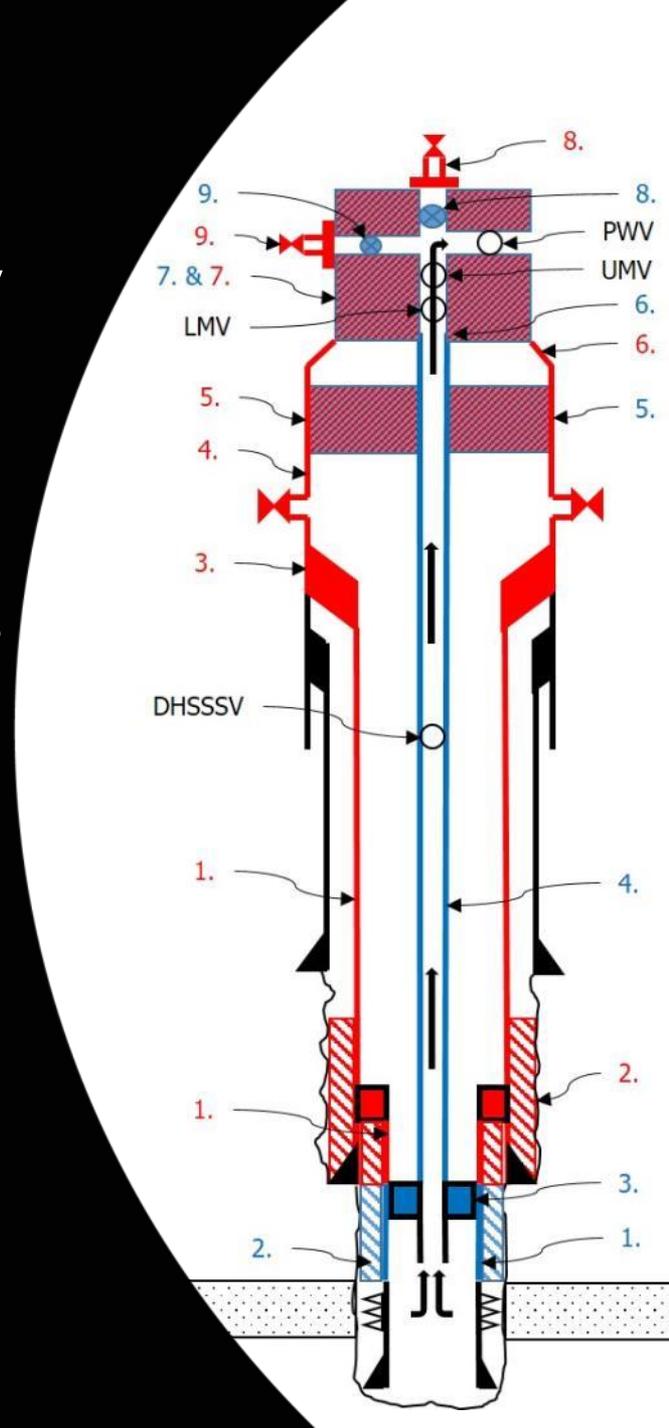
- METHODOLOGY

The What – Understanding well integrity risks associated with Spirit Energy wells

The Why – Managing the degradation, ageing and the potential extension of life of wells

The How – Engaging other operators on best practices for managing late-life production

The Now – Plan for life cycle management strategy



Risky business

- WELLS RISK INDEX

Risk Ranking

To determine well risk profile



Collaboration

Inputs from other operators



Ranking Results

Well database of information



Collaboration is Key - INDUSTRY RESEARCH

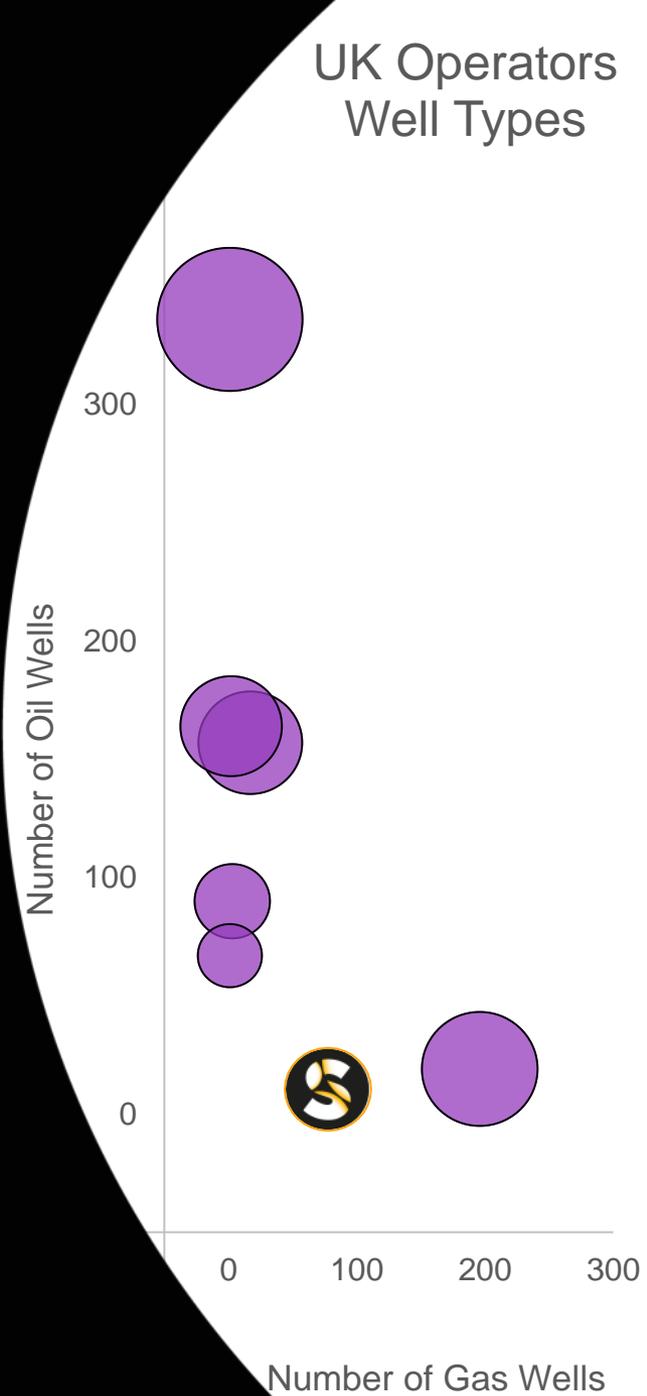
Integrity
Risk
Criteria

Risk
Based
Inspection

Proactive
Measures

Actions or
Interventions

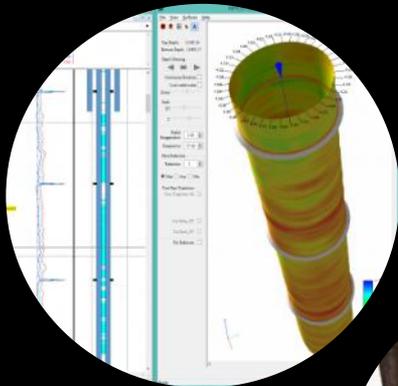
Condition
Monitoring



The plan moving forwards

- WELL LIFE CYCLE STRATEGY

Intervention Data



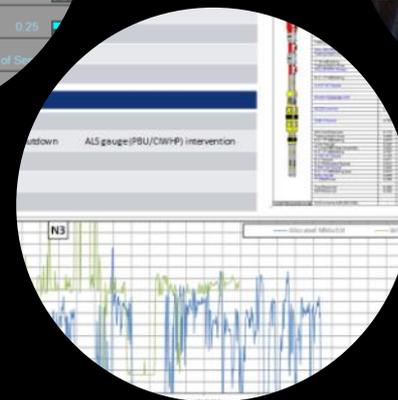
Annulus Monitoring



Conductor Study



Post Abandonment Inspections



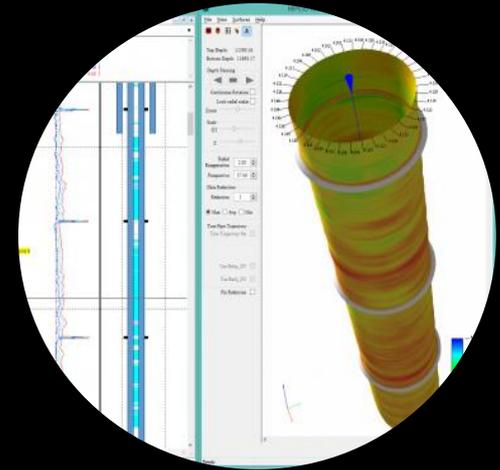
Annual Well Reviews

Hello down there...

- OPPORTUNISTIC INTEGRITY INTERVENTIONS

Cost Effective Tools

Compatible with existing
Intervention plans



Adding Value

Providing valuable data

The autopsy

- POST ABANDONMENT INSPECTIONS

Wellheads

Casing

Trees

SSSV

Tubing



What's trending? - ANNULUS MONITORING

Enables
Annulus
Trending

Improved
Engineering
Focus

Accurate,
Continuous
Pressure
Data

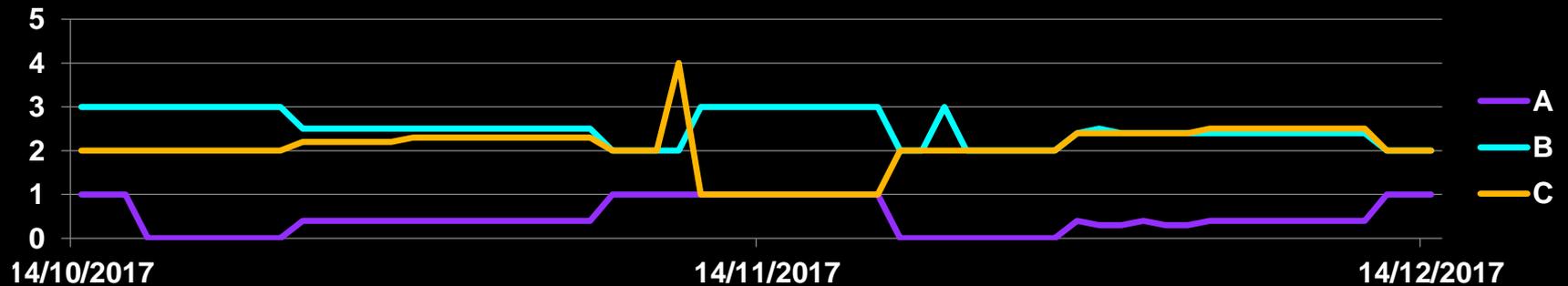
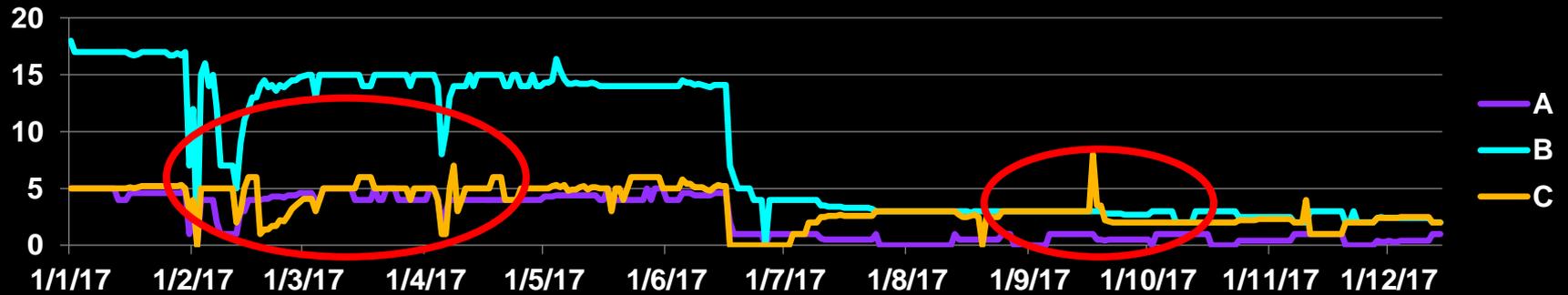
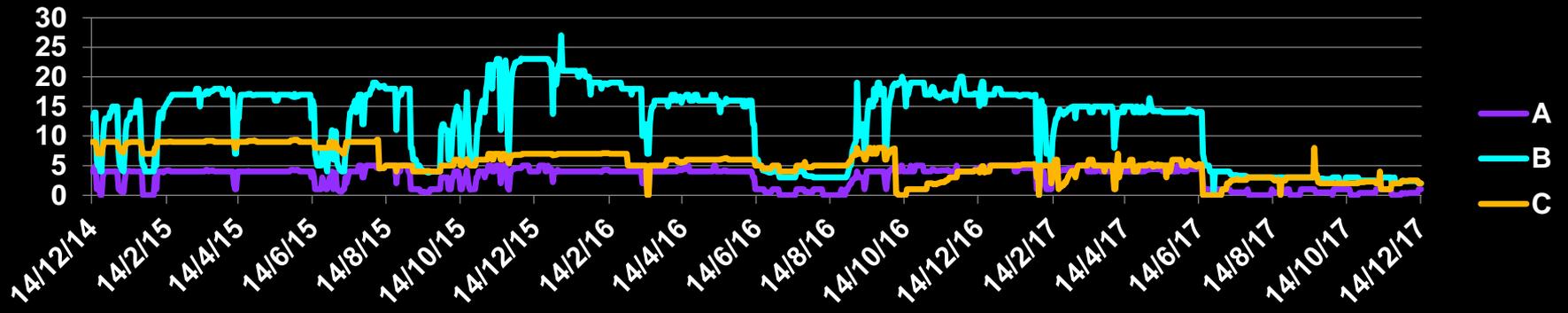
One
System

Condition
Monitoring



What's trending?

- ANNULUS MONITORING



Chiswick C3 Annulus data, 3 years, 1 year, 2 months

Annual health check

– ANNUAL WELLS REVIEWS

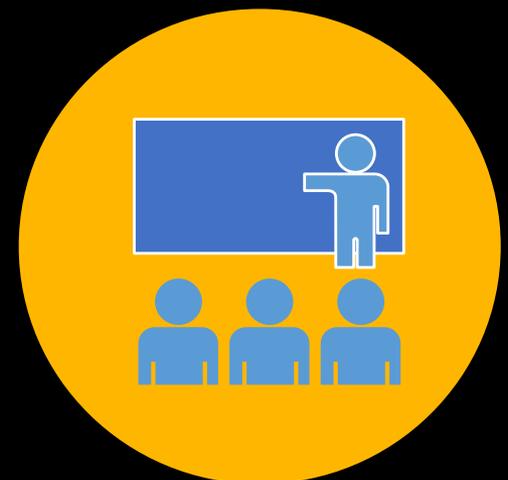
Well Production

Understanding conditions and operation of the well



Cross Functional

Inputs from production and well engineers



Compile Information

Well database of information



Not to be overlooked - CONDUCTORS

**Load
Cases
Evaluation**

**Review
Subsea
Inspection
Data**

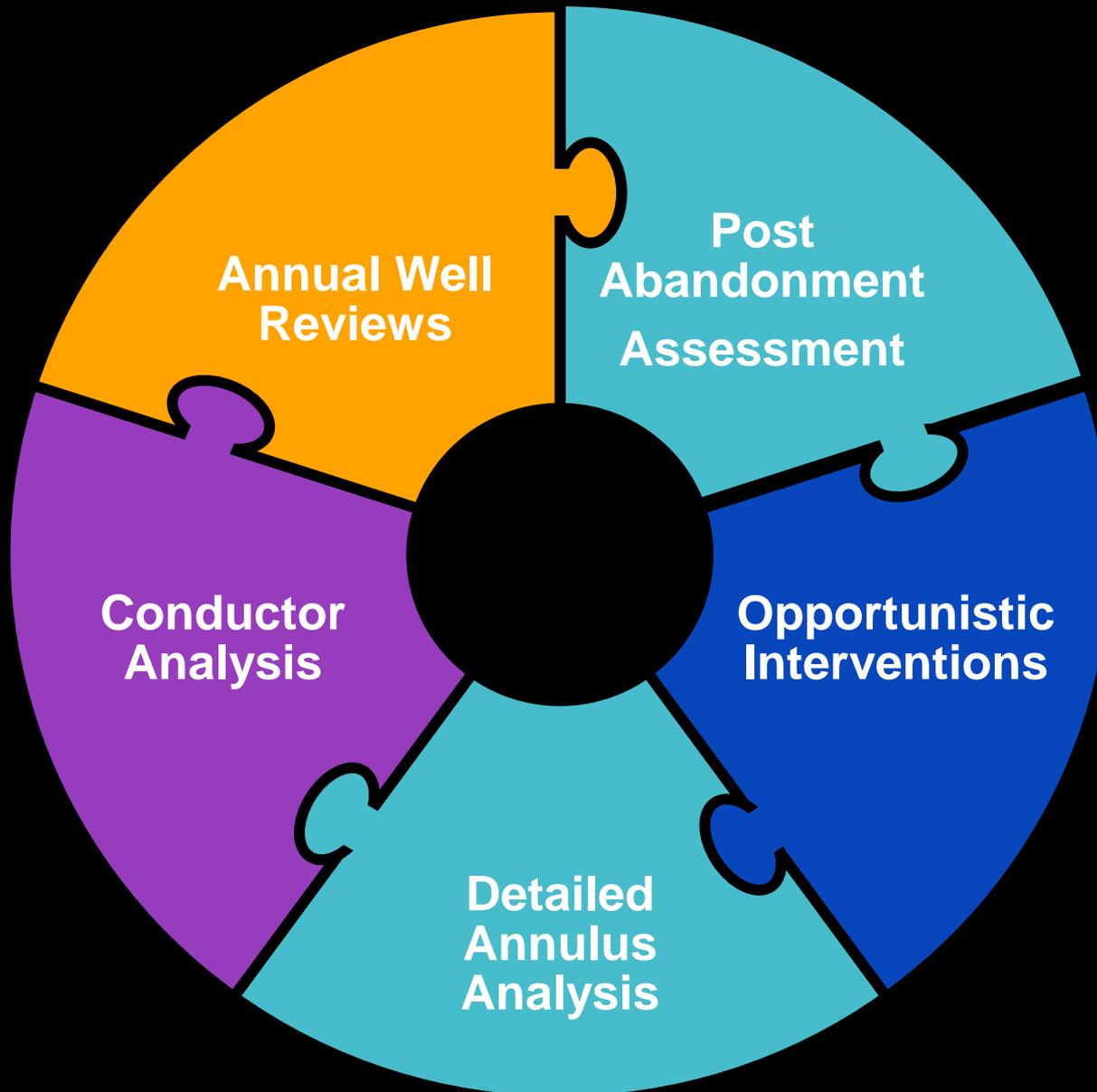
**Failure Mode
Driven
Inspection**

Research

**Recommend
Risk Based
Inspection**



Adding pieces to the puzzle - CONCLUSION



THANK YOU