Offshore Energy Data Trust

Next Generation Well Interventions - "Driving Performance Through Collaborative Data Pooling"

Net Zero Technology Centre
Technology Driving Transition

technology leadership board

OEUK

WELLS TASK FORCE

Well Intervention Data Collaboration

Benchmarking & Data Sharing

0-20 intervention jobs per year

Events

Operator Specific per Job
Job Objectives, Cost, Runs, Challenges, Benefits, Lesson Learned, Best Practice

Hundreds of jobs per year

Trends

North Sea Transition Authority
Wells Insights Report 2025

UKCS Accumulated Trends
Job Type, Cost, Benefits, Success Rate, Intensity

Many thousand jobs multiple years

Underlying structures

Blockchain

DATA TRUST

Global Data Trust Trends
Operational Performance, Outcome / Activity / Objective - based KPIs

Mental Models

AI

Data Trust Secure Intelligence
Job specific tailored lessons and performance improvement insights

Problem Statement

Current Challenge

Lack of unified tools and standards for benchmarking and data sharing.

What is best in class?

Where Can My Company improve?

Goal

Improve P50 intervention performance by 5% through collaborative data pooling

By Inspiring and informing all parties involved with well intervention performance

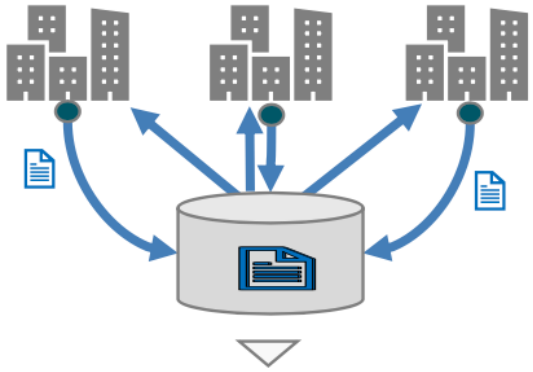
Potential Solution

"*Is there a use case for industry to collectively **pool their data** and by doing so generate the **opportunity for greater, shared, insights and value**.*

*If there is, and **4-5 companies are willing to start** the process by sharing and collectively pooling their data, then we have **a basis for a data trust**.*"

Data Trust Model and Governance

Concept of **data pooling** as opposed to **data sharing.**
Benefit of industry-wide learning but not the responsibility of any one organisation →
'trust' is needed to manage data on behalf of data owners to create the pool



Organisations transfer to a trusted 3rd party who aggregates data

3rd party aggregates and (ensures) anonymised data

Industry data set returned + potential shared dashboards/analytics

- ✓ No duplication
- ✓ Read only
- ✓ Consistent
- ✓ Secure access

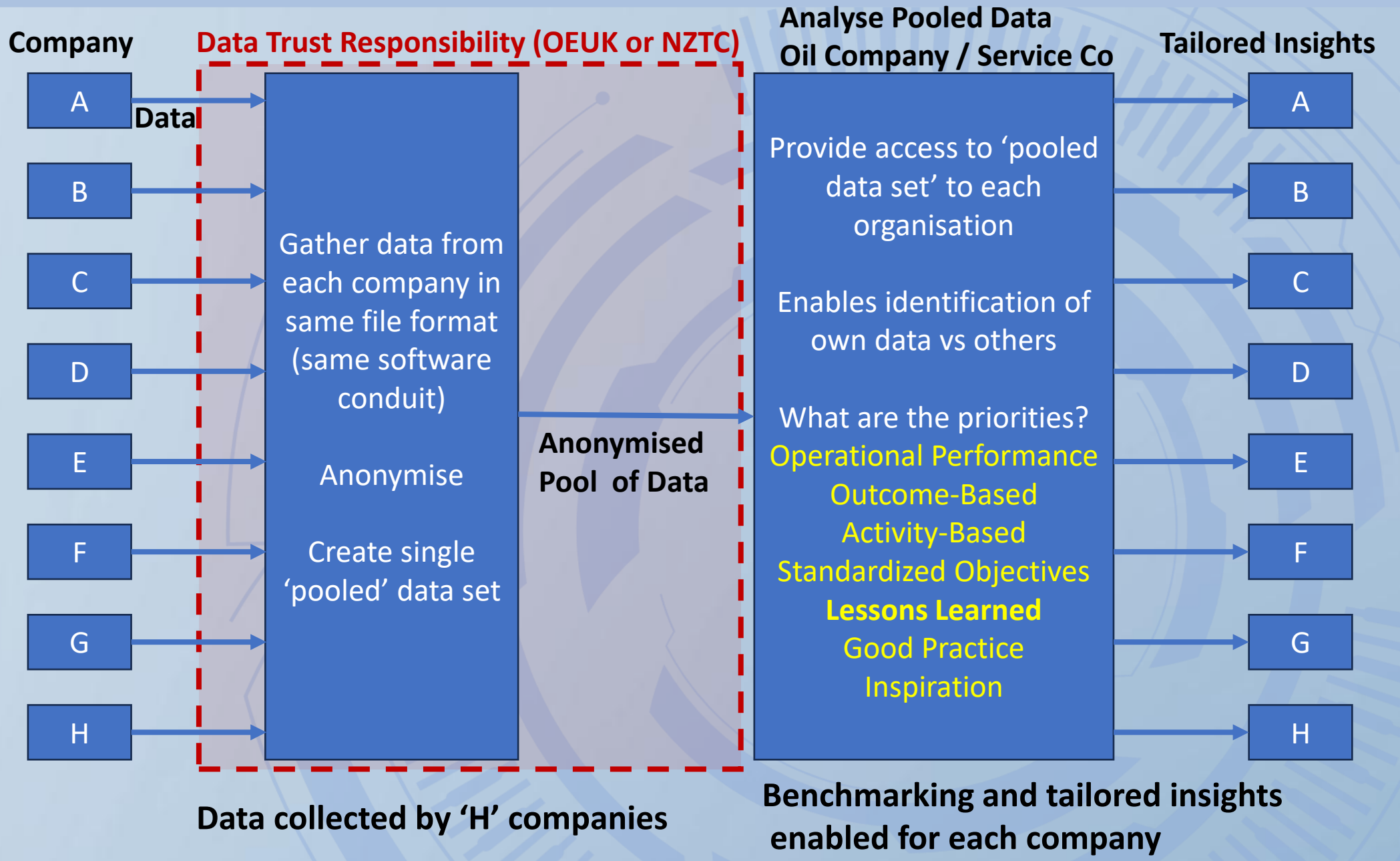
+

- ✓ Larger data population
- ✓ Benchmarking
- ✓ Industry view
- ✓ Common insights

- × Not core business or activity for a data owner to operate
- × Require legal agreements to share data with 3rd party and to operate/act on data on behalf of data owner
- × Require trust in the process to anonymise data

Pooling of data as an improved method of sharing

Data Trust Model and Governance



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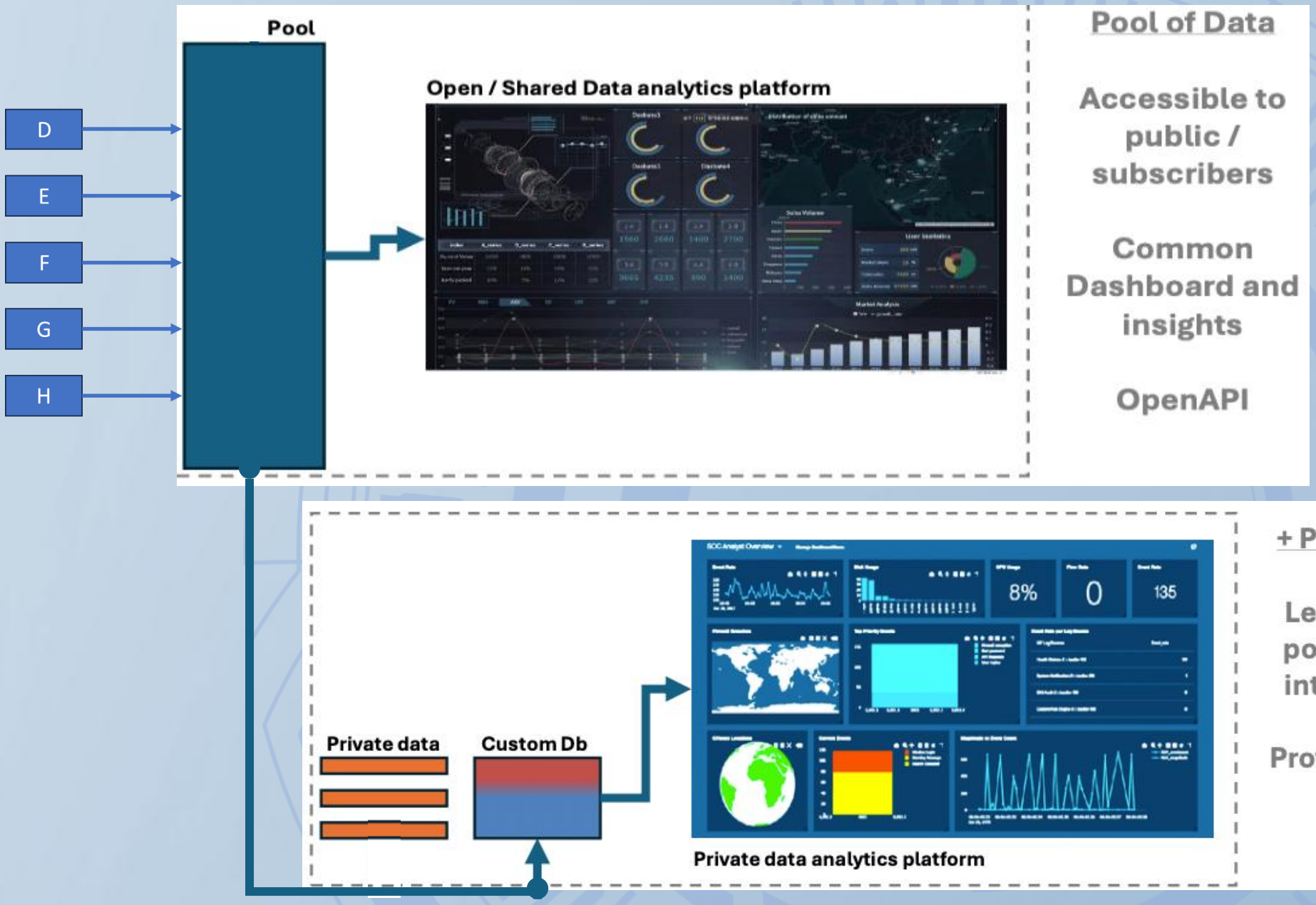

Context: Well Intervention Benchmarking History

Gas Well Deliquification Conference (GWDC) 2004-

Shell /NAM hosted free yearly event in Groningen, Netherlands	Openly share / collaborate the challenge of gas well deliquification in wells with DHSVs

Voluntary

Well Intervention Excellence Network (WIEN) 2010

Set up by Shell to replicate the success of GWDC but for all European operators. Great to see what RAG / Petrom and other European land operators were doing	Hosted by OGUK (OEUK) a yearly benchmarking workshop and special initiatives was founded Tailored Operator Reports initiated in 2012

Voluntary

UK Stewardship / Reservoir & Wells Optimisation Team (RWOT) 2017

Full UK data set provide by OGA/NSTA stewardship. Rest of European Operators excluded	Benchmarking categories / KPIs limited by stewardship survey.

Mandated data submission

Time for more Volunteering and Collaboration

Dreaming Big Digital Dreams Benchmarking KPIs

Potential key metrics, standardization, and sharing.

Operational Performance KPIs

- Non-Productive Time (NPT) – % of total intervention time
- Waiting on Weather (WOW) – total hours per job
- Equipment Failure Events – count per job
- Running Speed – ft/hr or m/hr (CT, WL, etc.)
- BOP / Equipment Test Duration – total hours
- Rig Up / Rig Down Time – hours per phase
- Swab Open to Swab Closed Duration – full operation window

Activity-Based KPIs (Time & Execution Efficiency)

- Mobilization to First Lift – hours
- Spotting Duration – hours (with clear start/stop definition)
- PCE Test Time – hours
- Make-up BHA Time – hours per run
- RIH / POOH Time – hours per run
- Rigging Between Wells – hours
- Demobilization Time – hours

Outcome-Based KPIs

- POP (Put On Production) Time – time from job end to well flowing
- Intervention Objective Fulfillment – yes/no
- Production Uplift – BOPD or BOE added post-job
- Time to Deliver on Intervention Objective
- Budget Adherence – actual cost vs. estimated
- POB Efficiency – hours saved vs. baseline enabling other ops

Standardized Objective KPI Examples

- Time to Replace X Gas Lift Valves
- Cost and Duration to Run Caliper + Set Plug
- Time to Restore Production After Scale Cleanout
- Time and Success Rate for Water Shutoff Interventions
- Cost per Objective Type
- $/bbl – Cost per barrel (12 month benefits)

The Journey - Concept Roadmap to Rocket Launch

NZTC Proof of Concept Data Trust for P&A 2024
Legal ✓
Software ✓
Participants not enough

NZTC RWOT Workshop 18/6/25
Attendance 8 Operators
OEUK to facilitate data trust
Problem statement made
Let's progress!!

Socialise Cause
RWOT Workshop
30/10/25

Socialise Cause
ICoTA Conf.
19/11/25

Today

When can you or your company get involved?

JIP Framing Workshop
2nd December '25
bp Dyce 1-4 pm
Where do we start?
Who is involved?
Any funding / grants?
Operators / Advisors / Potential Partners

Destination:
Interstellar All Energy Data Trust!

Goal:
Improve Well Intervention Performance 5%

Committed Operators & Initial Objectives = **Joint Industry Project Initiation**

The Journey - Concept Roadmap to Rocket Launch

	UKCS 2024	PRIZE Move the dial 5%	Top 5 UKCS Operators 2020-2024	Top 5 PRIZE Move the dial 5%
Operators	20 tbc	20 tbc	Undisclosed top 5 4 years performance	top quartile performers
Job Count **Rest**oration (Integrity) **Opti**misation Rate Adding	166 Jobs 90 Rest 76 Opti	**+ 10 jobs**	622 Job 402 Rest 220 Opti	**+30 jobs**
Costs	£244M	**£12M saved**	£790 M	**£15M saved**
Rest bbls **Opti** bbls	Rest 13mmboe @£10.1/boe Opti 12.8mmboe @£8.8/boe	**+1.3mmboe**	Rest 61.3mmboe @£7.7/boe Opti 38.7mmboe @£8.1/boe	**Rest +3mmboe** @7/boe **Opti +2mmboe** @£7.3/boe

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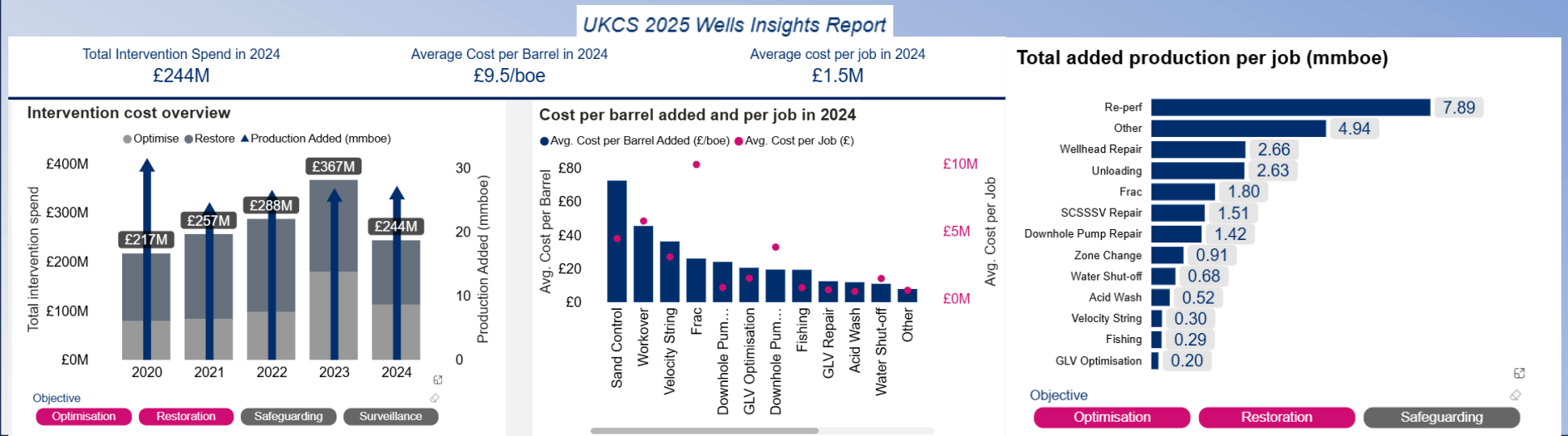

The Crew – What do they Want from the Mission?

Wells Manager	Petroleum Engineer	Well Operations Engineer	Industry Body Leader (OEUK / NZTC)	Supply Chain Service Provider VP	Operator CFO
For Honour & to build the Best 'GD' Wells Team in the World	Insatiable 'best in class' Production & Reserves Hunter	Delivering Perfection at Depth	Doing for the Industry, the All-Energy Transition and Livelihood of the Community	Improved Company Peformance, Partnership, Future Growth and Global Market Potential	Well interventions have the best return on investment. Doing it for the money & to push out COP

JIP for Rocket Launch

- Problem Statement
- Data Trust Model/Governance
- Benchmarking History
- KPIs
- Roadmap
- The Crew
- **Call to Action**

Join the Well Intervention Data Trust Initiative

Contact us today to shape the future of well interventions.

When can you or your company get involved?

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Goal: Improve Well Intervention Performance 5%

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Back Up Slides

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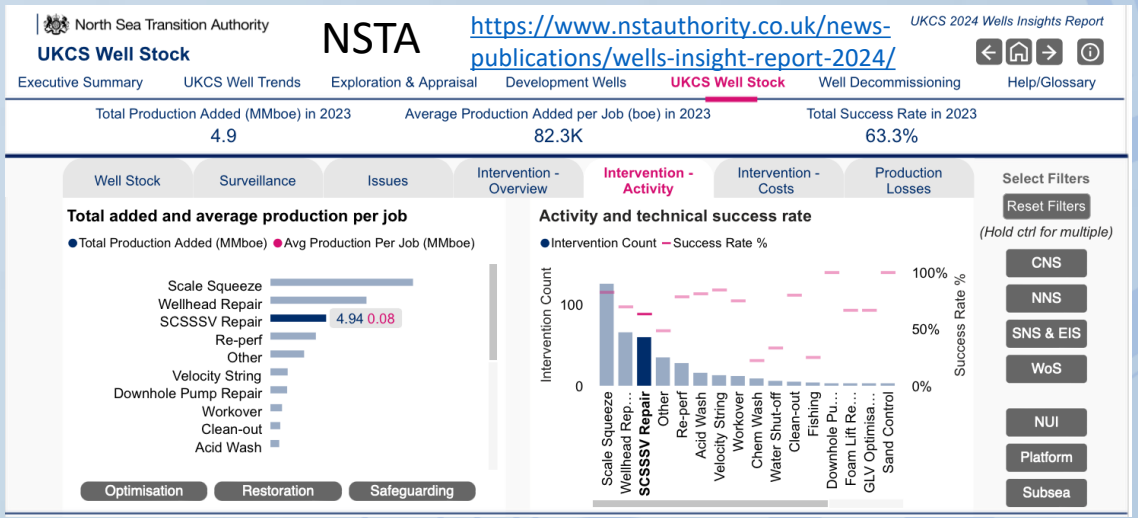
Roadmap

The Crew

Call to Action

Today's Landscape

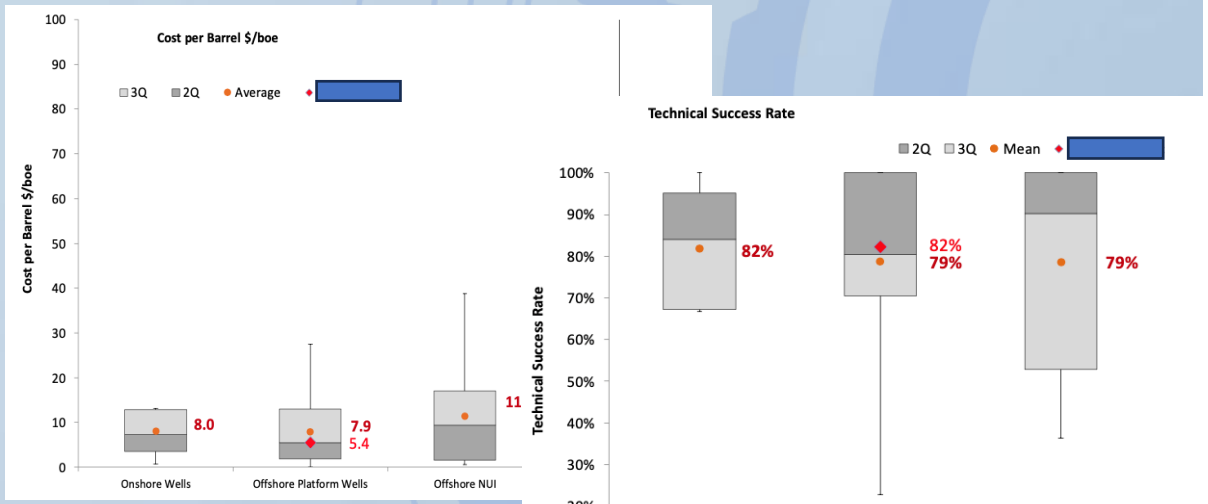


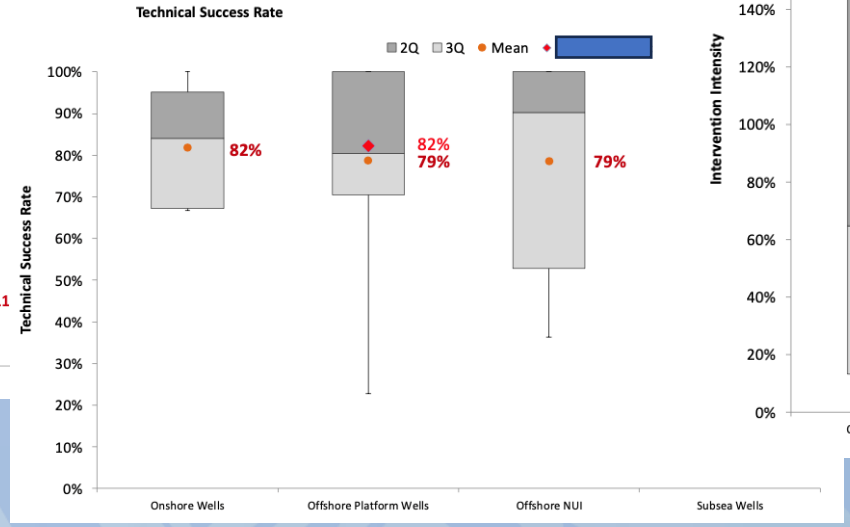
Future Landscape

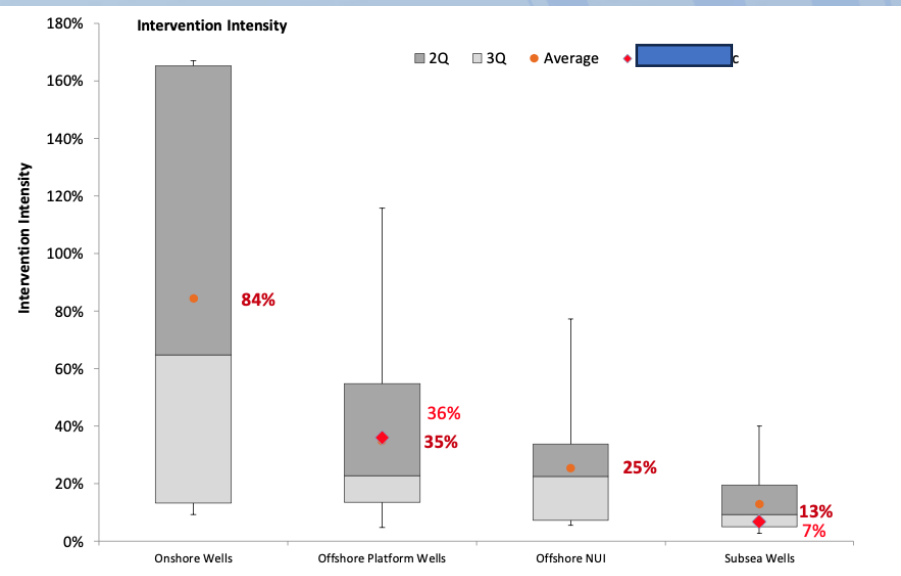
Detailed benchmarking and ability to

- Compare specific job e.g. Gas lift valve reconfiguration
- Ability to compare with like for like jobs
- Lessons learned from 'the pool'
- What were the challenges – scale, wax, specific toolstrings? How much NPT?
- Technical success rate, average uplift, timings of phases
- What secondary objective / surveillance was also achieved

Inspire / promote / warn / continuous improvement







OEUK Benchmarking – Operator Packs