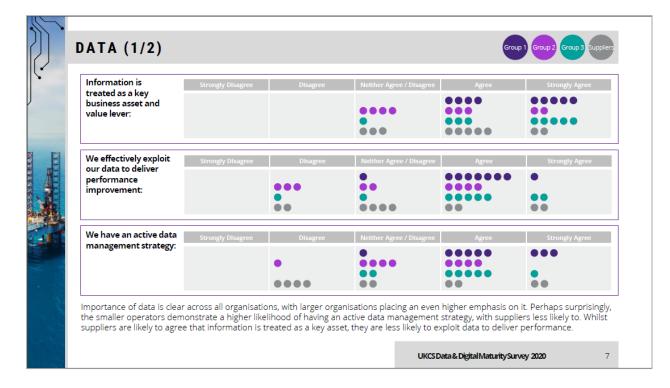






- Integrating the Digital Landscape
- Surveying Stakeholders
- Collation of Data to Generate Insight
- Presenting back as Sector Leadership
- Validation of Actionable Recommendations
- Inspiring a Data & Digital Network





Phase 2

- Tailored play back to Participants
- 1:1 Engagement with Customers Confirm Hypotheses, Better understand Positioning, Opportunities, Needs & Asks,
 - Can we facilitate under an Integrated Digital Landscape
- Sector Recommendations
 - Data
 - People
 - Innovation
 - Technology

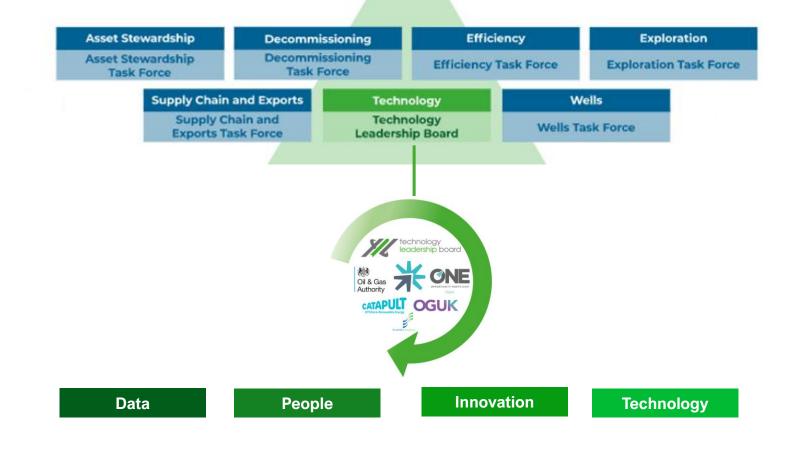


"Sector Review"
Issue → June '21



DAT. PEOPLE INTOVATION TECHNOLOGY Description	Data	People	Innovation	Technology
TECHNO Description	StandardsArchitecturesPolicies	Skills/TrainingCompetenciesBottom-Up Leadership	 Top Down Leadership Sector Innovation Strategies & Platforms Sharing Ideas & Value 	Machine LearningOffshore Energy 4.0RAS & SMART Basin
Key Figures	 61% of CPYs have a Data Mgmt. Strategy, with 49% stating data is well owned and 44% "Users Satisfied" 5% NOT willing to share 	 54% of CPYs have Digital Roles identified 35% of CPYs hold dedicated Digital Training 	 59% of CPYs hold a Digital Strategy 53% CPYs operate an E2E Innovation Process 	On AVG a CPY has "widely utilised" 12% of the listed Technology (equates to 40039 Inc. Power BI & Dashboards)
Observations	 Quality Data is key, Data Management is frequently overlooked, Operators are often perceived to monopolise data, (creating a supply chain knock on) Need is recognised to facilitate Offshore Energy competition, innovation and markets through data availability and transparency. 	 Skills are a shared responsibility Skills are generally bottom-up sourced by the individual, CPY skills mindset often limited to tools, rather Digital Fluency, Digital Strategies are frequently too narrow (Data, People, Innovation and Technology) 	 Progressive CPYs can demonstrate C-Suite commitment, strategy and drive, E2E Innovation is a strong indicator of Digital Maturity, Many Innovation processes appear immature, underutilised or non-core. Sector led Digital Disruption by Innovation is weak 	 Technology is often "solutions in isolation" unmapped to a CPY digital strategy, Delivery is often misunderstood, lacking process, causing poor utilisation, Significant focus is placed on "physical" technologies, rather than how associated data is connected for better decision making.

North Sea Transition Steering Group

















- Success requires UKCS Leadership to support and add weight by validating the final recommendations, consolidated and mapped to the objectives and oversight offered through respective DDaT organisations
- Recommendations are proposed to include:
 - 1. Short Term → "Digital Moon-shot", update in Roadmap 2035
 - Data Influences must use their roles to accelerate the adoption of data standards, by exemplifying a data access and delivery strategy, designed to be 'Discoverable, Searchable, Understandable', with common 'Structures, Interfaces and Standards' that are 'Secure and Resilient'
 - People Data & Digital forums offer the foundation for significant Bottom-Up Leadership. A new "Heads of Digital" forum, should become established to work in synergy with the existing forums - In support, sector skills demand should be driven through the newly launched regional "Digital Training Portal"
 - Innovation The "Energy Tech Programme" should be championed as part of top-down leadership. Initiate sector "PoC Consortia", supporting a Data Centric Culture established through innovation programming and physical activities, prioritised toward impactful delivery and the building of relationship networks.
 - **Technology** Digital Technology requires *classification*. The "Offshore Energy 4.0" thematic of OCTC will harmonice with OCUK 2035 "Digital Moon Shot" pathways, where prioritised programmes can be mutually communicated and supported by the sector. To avoid technology as "solution in isolation" a greater pull-through of inclusive conversations are necessary to validate and prioritise the detail within technology pathways/roadmaps. The wider use of informal, "coffee house" *cases study sharing*,
 - 2. Mid Term → An Offshore Energy Data Strategy Taskforce Delivery

(ONE Tech Hub) with the inclusion of start-ups is recommended.

Oil & Gas, Net Zero (CCS & H₂), Renewables, & Other Sectors

















Heads of Digital

Potential new group, fo those leading digital transformation in operators and supply chain – addressing a need identified in the Data & Digital Survey



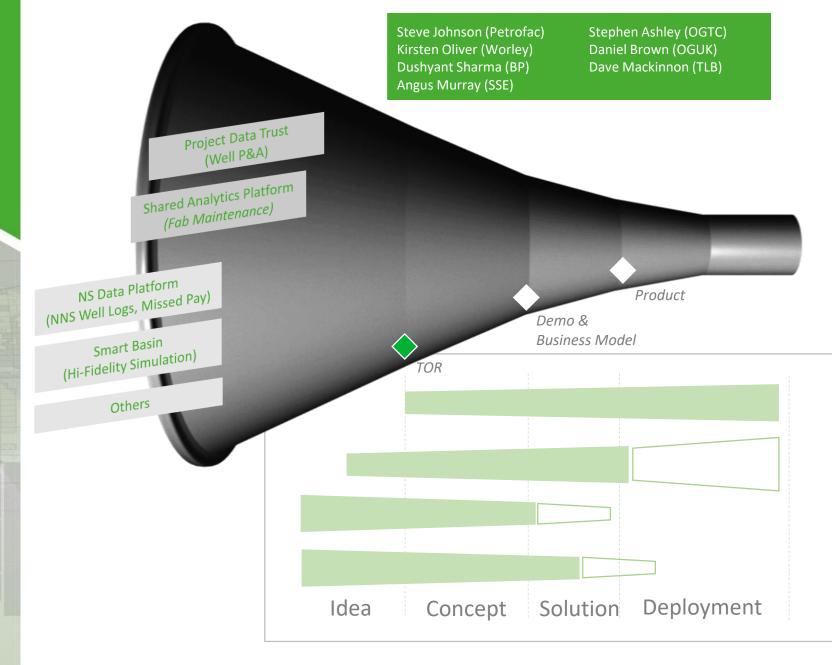


Scalable Proof of Concepts:

- . Fabric Maintenance
- 2. Well P&A
- 3. Subsurface
- 4. SMART Basin







- **1. Idea**: collection of innovation potentials, derivation of ideas, evaluation and release of ideas.
- Concept: Extensive analysis and derivation of concepts for the solution, implementation and user by-in/marketing.
- **3. Solution**: Development and testing of the solutions to the finished product.
- 4. Deployment/Market: transition from onetime solution, to a rolled-out product, accepted and owned within the organisation



Projects Data Trust (Well P&A)

technology leadership board

■ Project Data Sharing

- Recognised Need
 - Transparency
 - Collaboration
 - Business Model
 - Robust Data

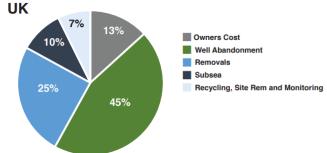
Performance Step Change

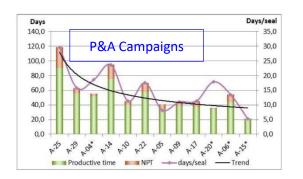
- UK'20 Decom Est = £48Bn
- Avg. O&G Cost Overrun = 31%
 - Exposure Risk £14.8n
 - Seek to offer 10% saving?

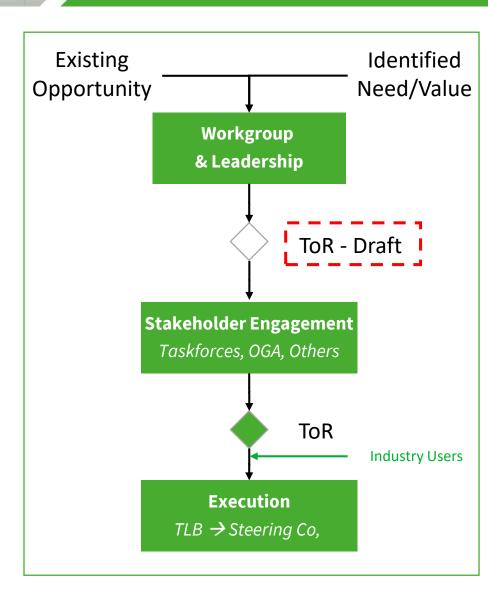
Use Case - P&A Campaigns

- 45% of the Decom Cost Estimate
- Offers multiple data sets,
- Follows a repeatable process,
- Demonstrate productivity learning
- currently project data is not shared nor pooled
- is relatively benign to its owners.









Shared Analytics (Fabric Maintenance)



"Object" Data Sharing

- Recognised Need
 - Machine Vision Data Source
 - Other Payload Data Source
 - Algorithm Training/Blind Test Data
 - Business Model

Performance Step Change

- Vision Identification & Classification
- Inspection Automation
- RAS SLAM, Digital Twin & Prediction
- Efficiency, De-Manning/Transitioning,
 Campaign Optimisation
- Wider Operations & Integrity Markets

Use Case - Fabric Maintenance

- Single Operator £1M/yr (оом) saving
- Anonymous datasets shallow entry
- Data currently not shared/pooled
- Is relatively benign to its owners.
- Drives into wider NII & Inspection data algorithms/Business Models







