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GlobalScot

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UKCS Energy Technology Landscape & Focus

North Sea Transition Authority

NSTA

MER & Net-Zero Strategy / NSTA Technology Survey & Insights / Energy Pathfinder / Supply Chain Action Plans (SCAPs)



TLB

Technology Managers Forum / "Accelerate Deployment"



NZTC

Technology Roadmaps / TechX Accelerator / "Technology Development" & supporting Field Trials



UK Energy Technology Platform

Focused on NSTA Domains & Sub Domains
Supporting Technology "Adoption, Deployment & Replication"
Global Online Community Connecting End User Challenges to Innovative Technology & Tech-Experts 24/7



OEUK

Operator, Contractor and Supply Chain Members "Representation, Guidelines & Knowledge Sharing"

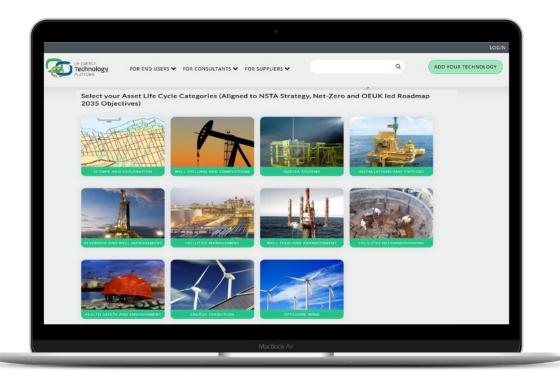
Leading Roadmap 2035, North Sea Transition Deal, ETF, CIN, Wells/SCM/SME/ESG/Skills Forums etc

Areas of Focus	HSE	Seismic & Exploration	Well drilling & completions	Subsea systems	Installations & topsides	Reservoir & well management	Facilities management	Well plug & abandonment / decommissioning	Facilities decommissioning	CCUS	Hydrogen -Blue -Green	Renewables & Offshore Wind
Knowledge sharing Conferences & Exhibitions	OGUK HSE Conf Step Change	OGUK Wells SPE Devex	OGUK Wells SPE Devex SPE / ICoTA	Subsea UK Expo	SPE Topsides UK EI Asset Integrity	OGUK Wells SPE Devex SPE / ICoTA SPE Sand Mgt	SPE Topsides UK EI Asset Integrity	SPE Well Abandonment SPE / ICoTA	Topsides UK Decom North Sea	SPE	ТВС	All-Energy

Industry Support Organisations HSE / STEP CHANGE / ACHILLES / SEQUAL / ONE / ETZ / NSC / NDC / SE / SDI / DIT / SPE / ICOTA / EI / EIC / GUH / DECOM NORTH SEA / AGCC / ABERDEEN CITY & SHIRE COUNCILS / NOF / EEEGR etc

SAFETY ON ENERGY TRANSITION

Proven technologies at your finger tips



www.uk.energytechnologyplatform.com



North Sea Transition Authority

NSTA Technology Survey & Insights

Technology Insights 2020 – Summary findings

Technology Priorities for the Industry

Lifecycle Categories

Seismic and Exploration

Well Drilling & Construction

Subsea systems

Installations and topsides

Reservoir & Well Management

Facilities Management

Well Plugging & Abandonment

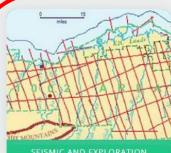
Facilities Decommissioning

Functional Categories

Data and Digital

Net Zero

Select your Asset Life Cycle Categories (Aligned to NSTA Strategy, Net-Zero and OEUK led Roadmap 2035 Objectives)



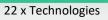
13 x Technologies

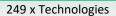






27 x Technologies







RESERVOIR AND WELL MANAGEMENT

36 x Technologies



171 x Technologies





27 x Technologies

33 x Technologies



103 x Technologies





22 x Technologies

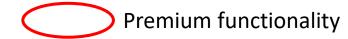
Facilities Management

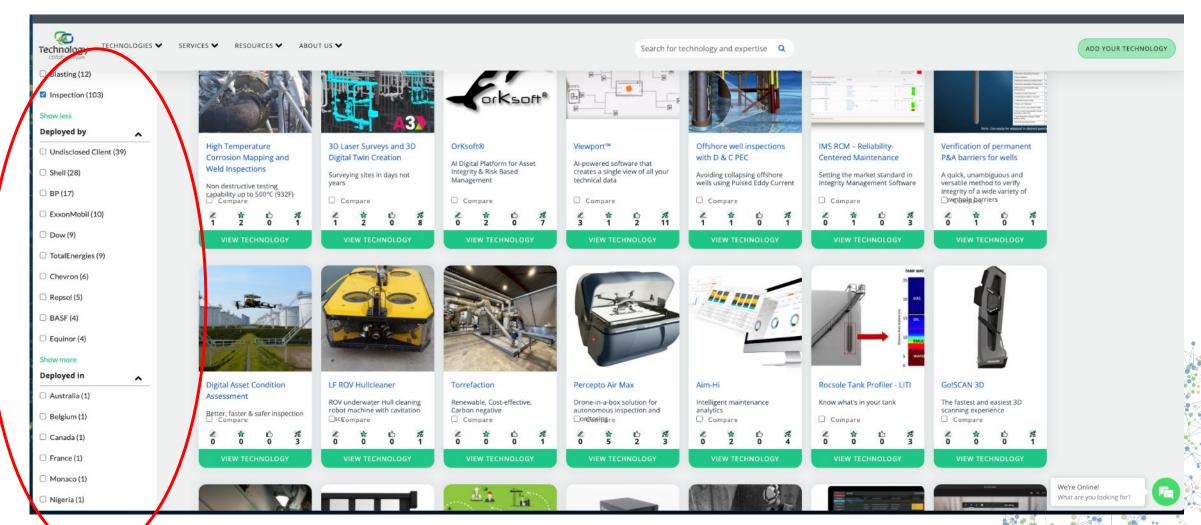




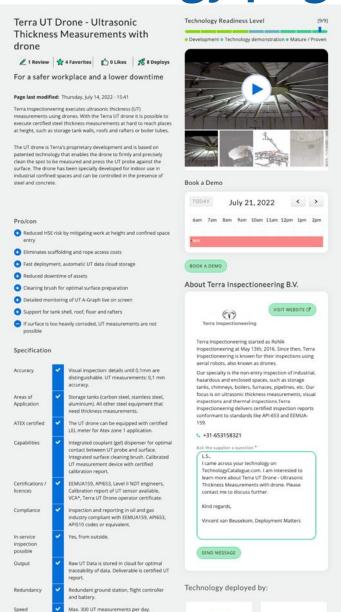


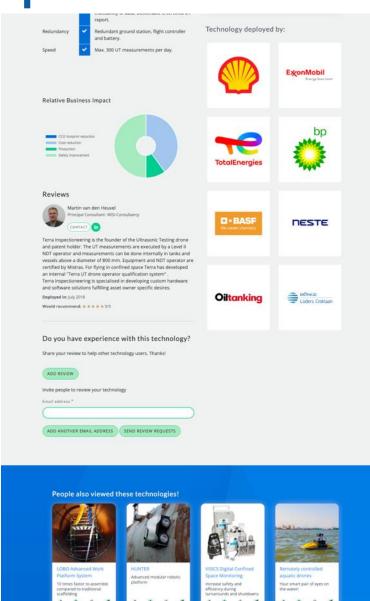






Technology page Example







Example: turnaround optimisation

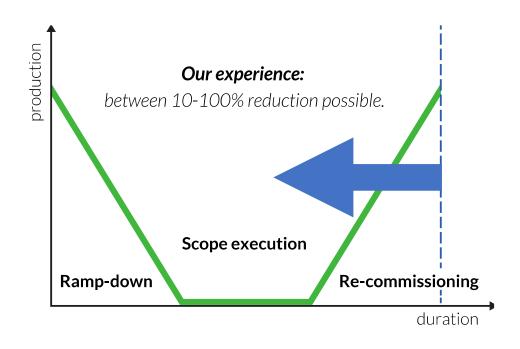
Turnaround optimisation through deployment of <u>proven</u> technologies, selected from TechnologyCatalogue.com

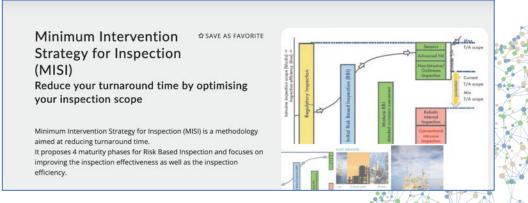
Our experience: between 10-100% duration reduction is possible.

See case study:

https://www.technologycatalogue.com/case-study-how-uk-operator-optimises-turnarounds-technology

Example: Minimum
Intervention Strategy for
Inspection → optimise
your inspection scope





Technologies for Non-Intrusive Inspection

Case study



non-intrusive inspection

a



















VIEW TECHNOLOGY





welds at pre-heat temperature

VIEW TECHNOLOGY









VIEW TECHNOLOGY





VIEW TECHNOLOGY

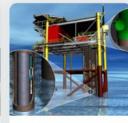






VIEW TECHNOLOGY















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	r O					
Avoiding collapsing using Pulsed Eddy Compare Compare						
In-service storage tank inspection PEC technology						
Mistras PHAT Scan© Offshore well ins	Offshore well inspections					
	1000					

Technologies for Non-Intrusive Inspection

Example

Mistras PHAT Scan®

Ø 0 Reviews
 ☆ 0 Favorites
 ☐ 0 Likes
 ॐ 5 Deploys

In-service storage tank inspection

Page last modified: Thursday, July 14, 2022 - 15:40

PHAT Scan@ is a NDT examination technique used for non-invasive and in-service inspection of the internal shell-to-bottom connection (corner weld) on above ground storage tanks and/or the annular critical weld region of the annular plate.

With PHAT Scan © local corrosion damage caused by a tear-shaped storage medium and crack like indications, in which the crack orientation perpendicular to the vessel wall is due to low cyclic fatigue, can be recorded. (On-stream / NII technology)

Pro/con

- With PHAT Scan © the storage tank still remain operational
- PHAT Scan© has a high level of reproduce ability, measurements from the past can be compared with current measurement data
- With aid of PHAT Scan© reports and plots, local repairs can be scheduled in advance of planned "out-of-service" inspection
- With PHAT Scan © crack-like indications, pit shaped corrosion and pitting of shell plate can be detected and sized from an indication depth/height of approximately 1,5 mm (0,06")
- ◆ With PHAT Scan © local corrosion damage caused by a tear-shaped

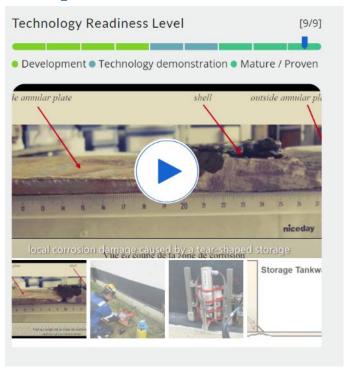
 Output

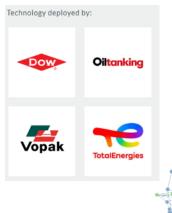
 Description:

 Output

 Descript storage medium and crack like indications, in which the crack orientation perpendicular to the vessel wall is due to low cyclic fatigue, can be recorded. (On-stream technology)
- A level of cleanliness is required
- Not ATEX proof

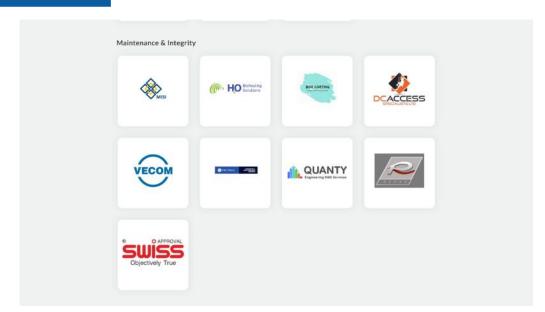


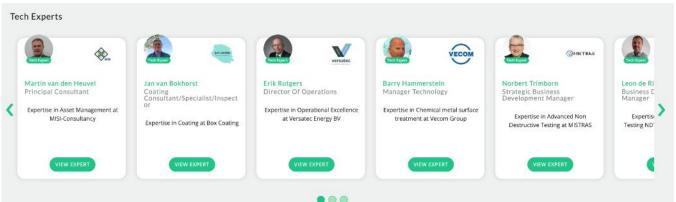




Tech-Expert support for Non-Intrusive Inspection

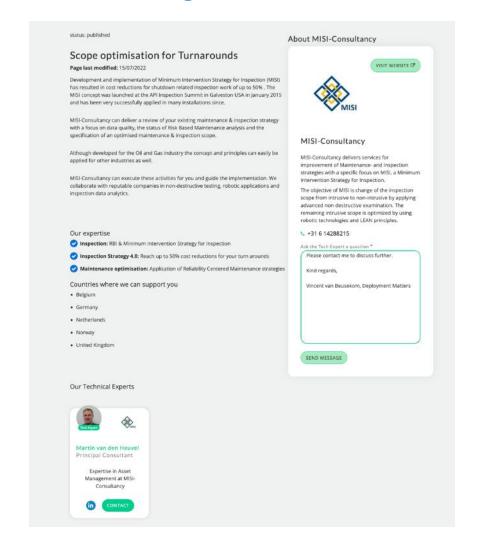
Not limited to technologies: Access to experts

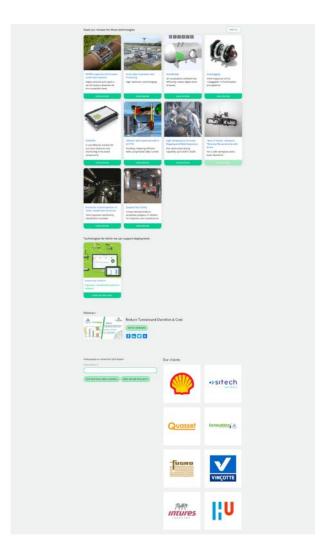




Tech-Expert support for Non-Intrusive Inspection

Not limited to technologies: Access to experts





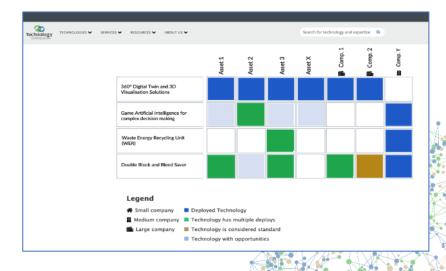
Summary of access options

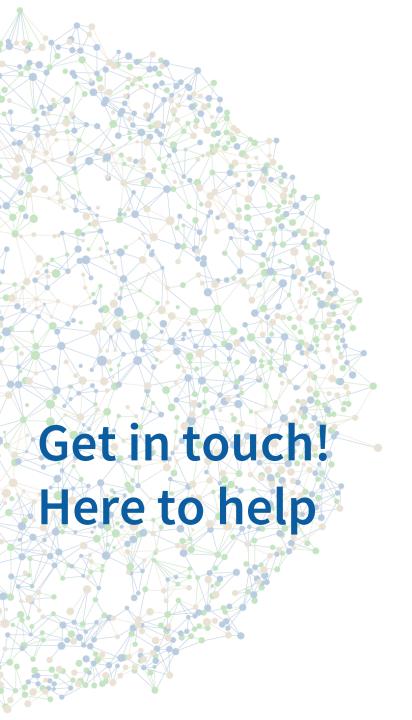
Basic access (Working with NSTA to provide this level of access to all UK operators)

- Access to technologies in line with structure as used in UK by NSTA
- Access to reviews and deployment references
- Access to Insightful Knowledge sharing Blogs, Webinars, Newsroom & Tech Features
- Working with NSTA to increase no. of UK suppliers
- Potential to create a "UK Technology Company" filter (depending on NSTA requirements)

Premium access (Through company subscription)

- Secure and private technology platform powered by TechnologyCatalogue.com
- Custom modules based on your company's needs, with relevant tech mapped against your needs
- Scouting support to find technologies to address your company's needs
- Access to advanced data & insights:
 - Track the technologies deployed by other Operators
 - Discover what technologies were deployed in your country/region
 - Share your business needs
- Share technologies with your colleagues
- Optional additional features include:
 - Deployment tracker
 - Internal technology reviews
 - Uploading internally developed technologies











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