





# Improving operational efficiency with technology

Colin Black

Managing Director, Carjon-NRG Ltd

UK Partner, UK Energy Technology Platform

Vice Chairman, OGUK Led Efficiency Task Force (ETF)

Erik Nijveld

Managing Partner, TechnologyCatalogue.com





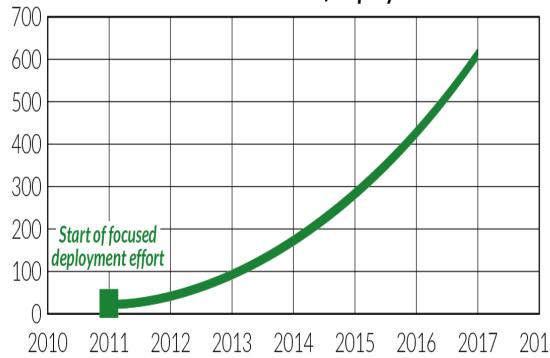
# Technology deployment is challenging...

- (Perceived) risk-averseness
- End-users are keen, but simply don't know where to start with technology.
- End-users don't have the time and/or expertise to assess the available technologies.
- No incentives for contractors to introduce technologies.
- Technology competes with many other things that can be done to improve performance.
- Suppliers have difficulties to get access to the right people in the end-user company and/or struggle to make a convincing case.

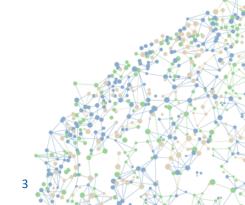
And many other challenges...

## ... but it can be done!

## Cumulative number of deployments

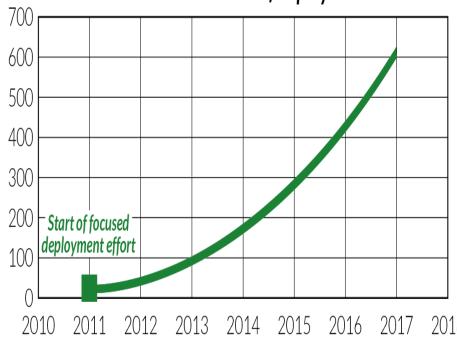


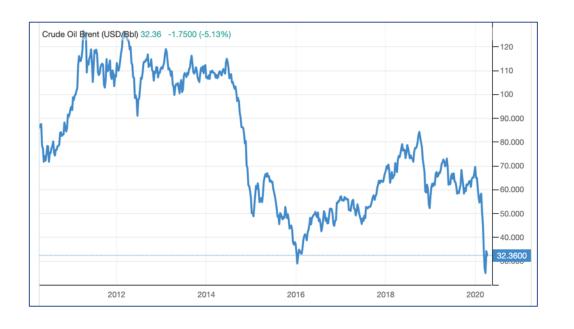
The plot shows the technology uptake as a result of the activities we led in a major Oil & Gas operating company.



# In good and bad times!

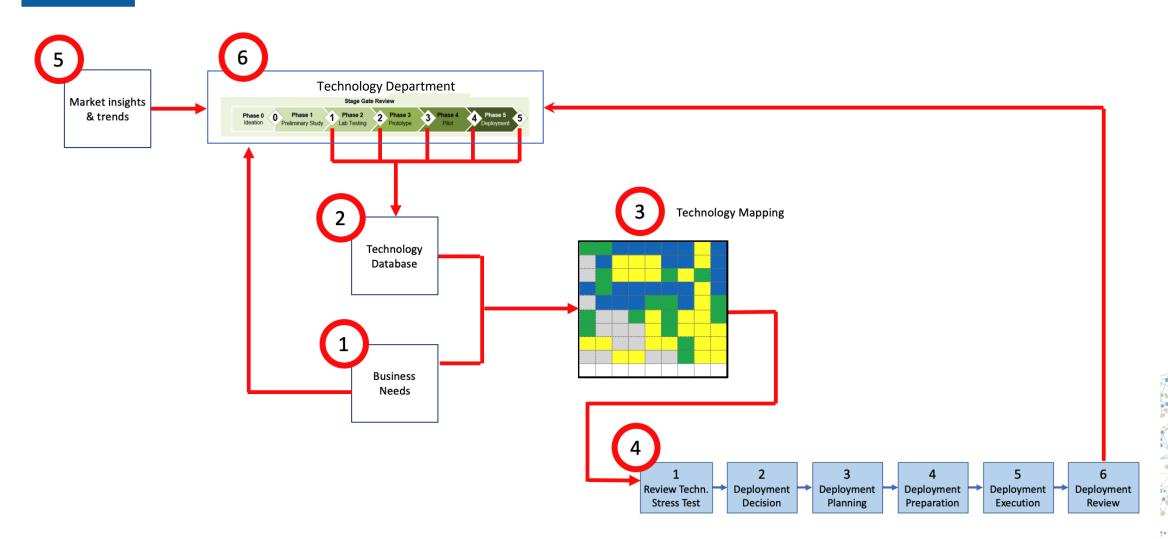
## **Cumulative number of deployments**



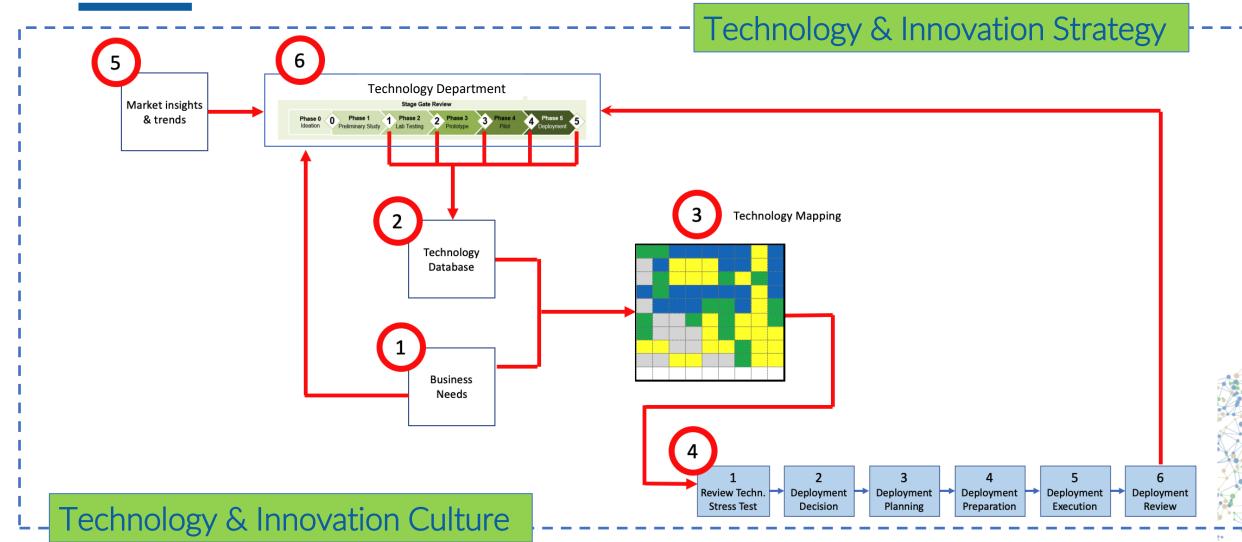


Source: tradingeconomics.com

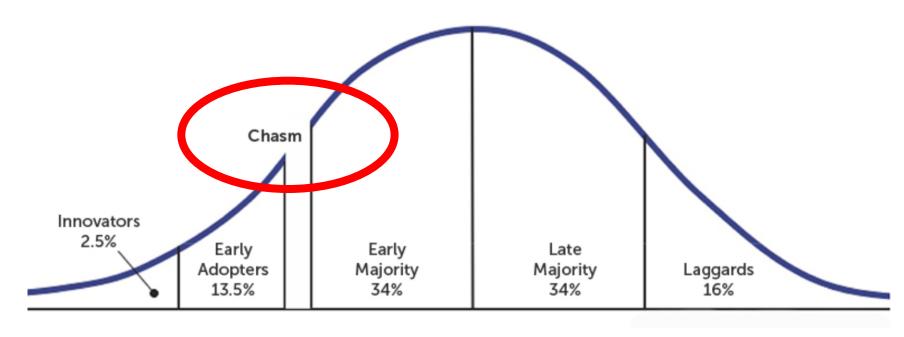
# **Technology & Innovation framework**



# **Technology & Innovation framework**

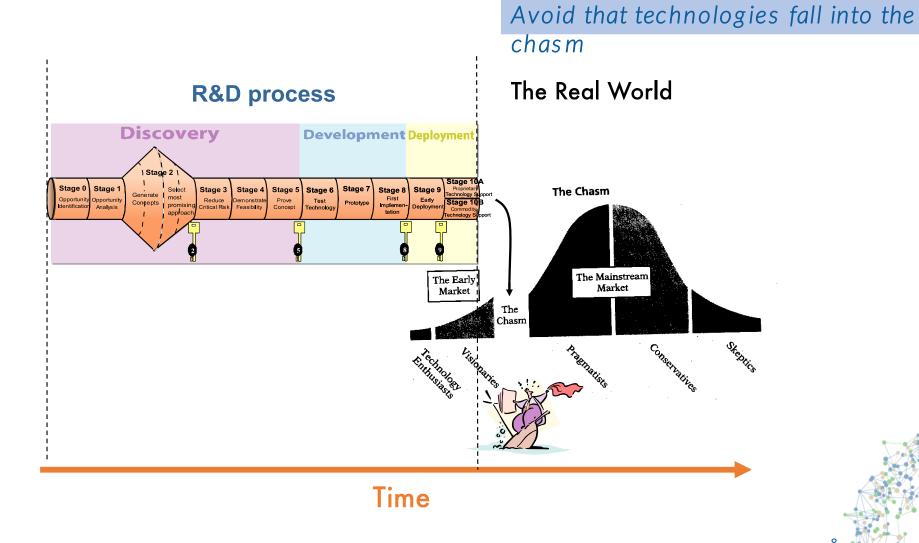


# The chasm

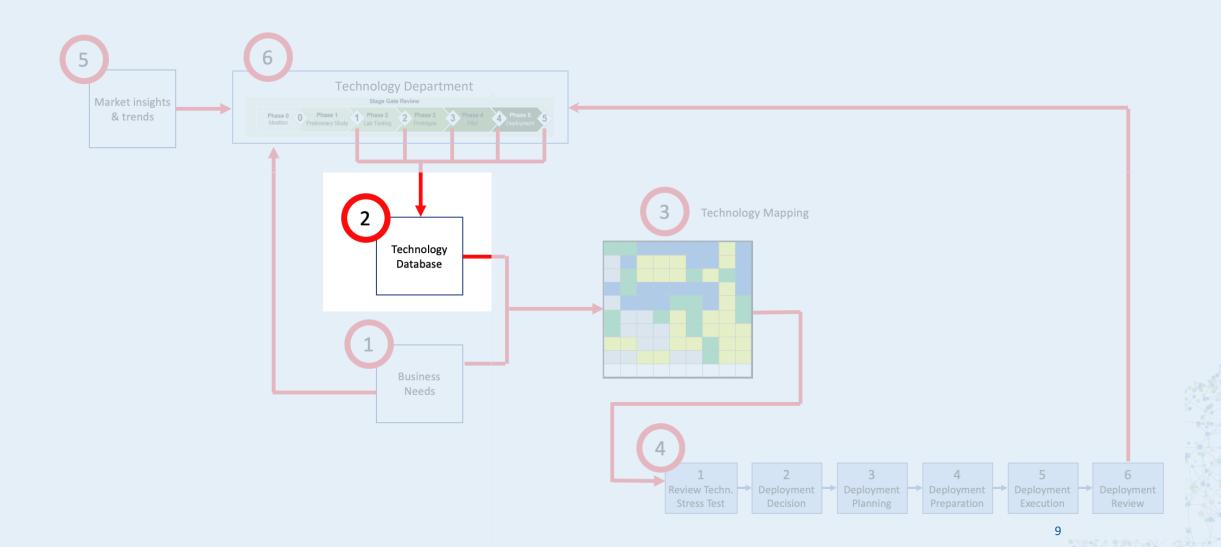


Source: "Crossing the chasm", Geoffrey A. Moore

## The chasm



# Technology & Innovation framework



# Finding the right tech...



remote surveillance

Shopping

News

: More

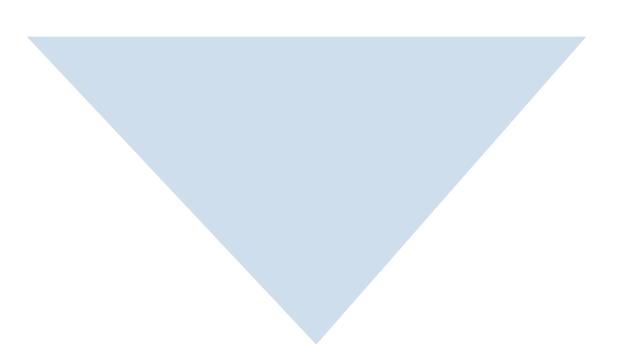
About 259.000.000 results (0,93 seconds)





## Transparency in the market is important

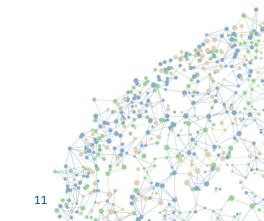
# Suppliers Attract buyers



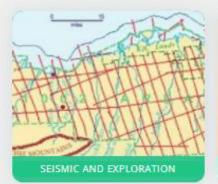
End-Users
Select and deploy the right technologies

**Tech Experts** 

Deliver support to select & deploy tech



#### Select your Domain (Aligned with The Oil and Gas Authority (OGA) Strategy & OGUK Roadmap2035)

























Search for technology



**Key Words** "Safety" "Asset Integrity" "Emissions Reduction" Etc

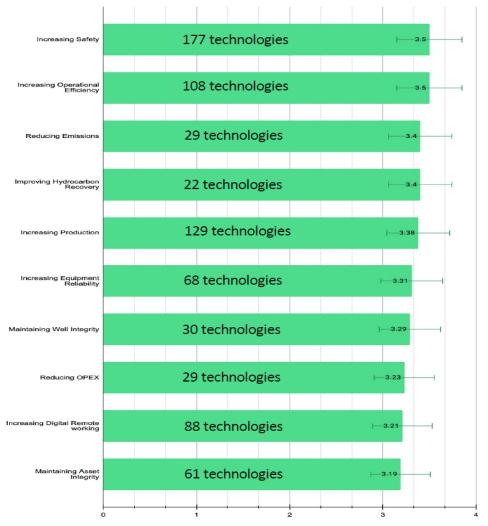




### **Industry Report:** Operator Survey



Top 10: Interest in Operational Challenges (# of technologies present per module on the platform)



#### **Survey Summary**

- 264 senior professionals from Operators and Contractors across the globe were interviewed by the <u>UK Energy Technology Platform</u> about the energy industry.
- They rated their interest in >20 operational challenges on a scale of 1
  (not interested) to 4 (very interested) on the left is the top 10 based
  on the average score of interest.
- The numbers per bar show the amount of technologies per category present on the platform.

#### **Survey Impact**



For suppliers, this research allows the <u>UK Energy Technology</u>

<u>Platform</u> to support them in identifying the right target markets as well as connect them to potential clients (12k visitors/month).



For End-Users, this report will help to grow the portfolio (800+technologies) according to the most relevant challenges.

Furthermore, the <a href="UK Energy Technology Platform">UK Energy Technology Platform</a> is able to provide customized recommendations based on indicated challenges to each End-User.









Cokebusters























BALMORAL

**ACOUSTIC DATA** 

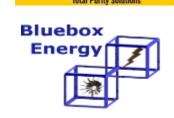
ClearWELL Oilfield Solutions











Ocean Team Scandinavia as

**GM FLOW** 



**₽**Pipetech

Innovative UK Technology

Companies already on

the Platform include:-







≤ SafetyGrip















































Vulcanud V

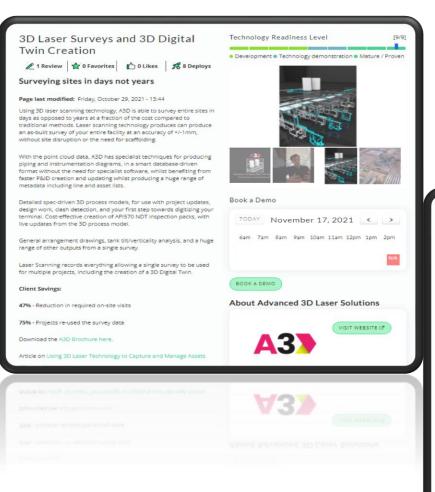


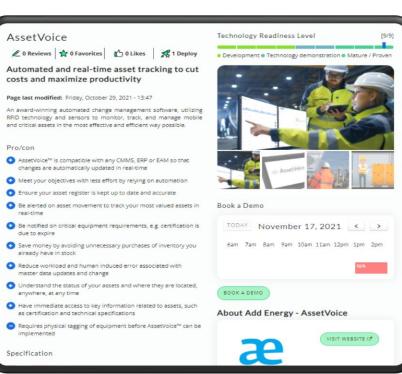






# Innovative Asset Integrity Technology Examples:-



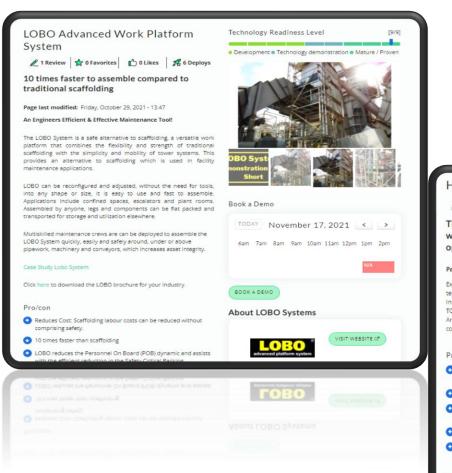


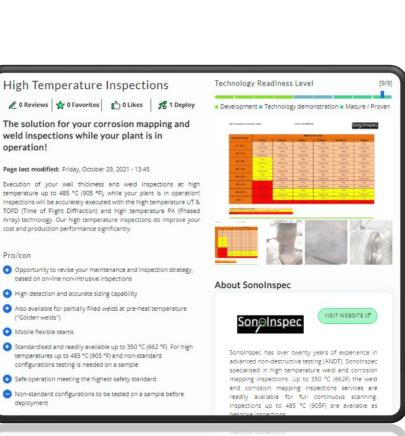


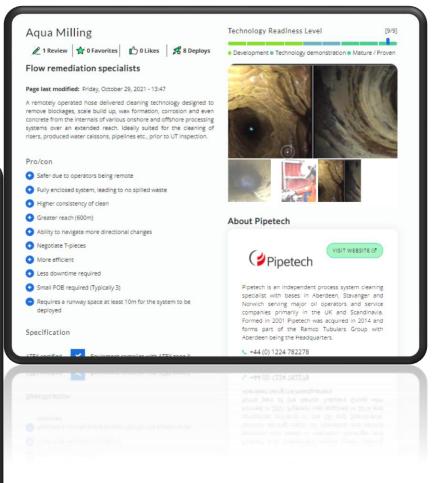




# Innovative Asset Integrity Technology Examples:-

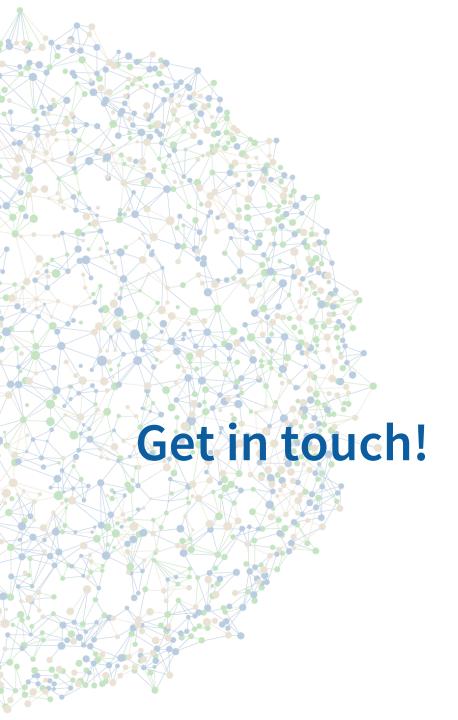


















#### **EMAIL**

Colin Black:- colinb@carjon-nrg.com

Erik Nijveld:- eriknijveld@technologycatalogue.com

### **WEBSITE**

www.technologycatalogue.com www.uk.energytechnologyplatform.com www.carjon-nrg.com