

## Sustaining the Benefits from Collaborating in the Management of Subsurface Data in the UK

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London 6th March 2019

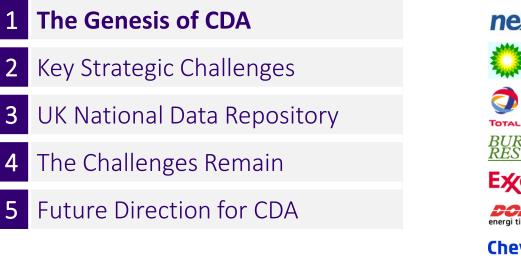


## Agenda



1	The Genesis of CDA
2	Key Strategic Challenges
3	UK National Data Repository
4	The Challenges Remain
5	Future Direction for CDA

## The Genesis of CDA







# The Genesis of CDA





• Drivers



- CDAI Building Consensus
- Challenges
  - Convincing Business Case
  - Suitable Delivery Vehicle
  - Equitable Funding Model
  - Operating Model
  - Security and Confidentiality
  - Corporate Governance

### **Data Management in 1995**

- Uncontrolled data duplication
- Confused data ownership and rights
- Well identity crisis
- Absence of naming and exchange standards
- Incomplete data transfers and stranded data
- Data quality issues and lost data
- Cost of released data
- Inadvertent data trading and repurchasing
- Time taken to find data

### **Business Consequences:**

- Inflated costs
- Risks to decision-making speed and quality
- Inefficiency and slow cycle-time
- Breaches of IPR
- Breaches of regulatory compliance

## **Key Strategic Challenges**





- 2 Key Strategic Challenges
- 3 UK National Data Repository
- 4 The Challenges Remain
- 5 Future Direction for CDA



## **Key Strategic Challenges post-launch**

### **1. Business Continuity**

- Costs underwritten for 5 years to 2000 only
- Loss of key members constituted an existential threat

### 2. Business Value and Competency

- The value of data was poorly understood
- The competency of those who managed data was uncertain

### 3. Regulations

- There was no formal relationship between CDA and the regulator





#### Key Strategic Challenges

# **1. Business Continuity**



### **Challenges**

- Management by an unqualified board
- Risk of losing executive support
- Loss of membership
- Unsuccessful re-tendering
  - Timing, scope, functionality, price

## **Solutions**

- → Chief Executive Officer appointed in 1998
- → Sale to UKOOA in 2000 and board reorganisation
- $\rightarrow$  New evergreen agreements
- → Commitment terms obtained from participants in advance and reflected in the ITT

# 2. Business Value and Competency



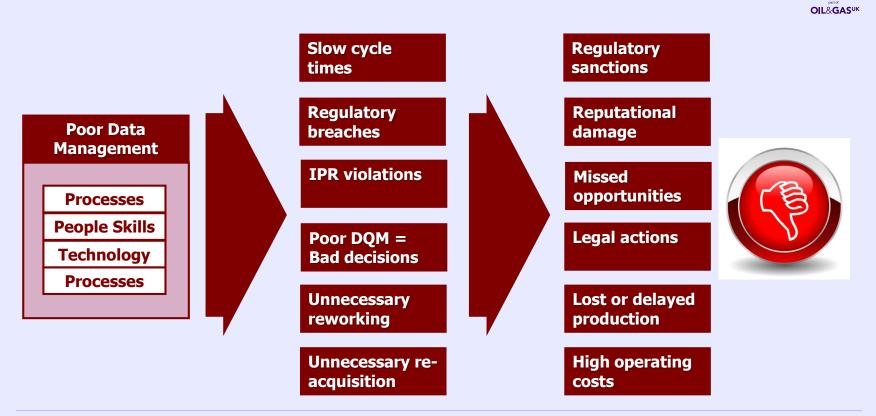
### **Challenges**

- The business contribution by data was not recognised
- The business impact of data management not understood
- Data Management not seen as a professional discipline

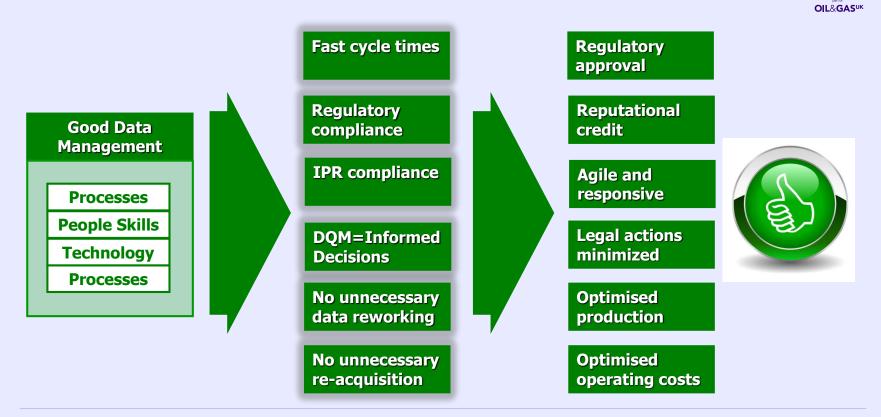
## **Solutions**

- → Study\* commissioned, published and promoted
  - Data contributes between 25% and 33% of all company value generated by E&P activities each year
- $\rightarrow$  Competency mapping
- $\rightarrow$  Academic courses
- → Professional Society

## Business Value and Competency Poor DM is bad for Business



### Business Value and Competency Good DM supports Business Success



CDA >

# Key Strategic Challenges **3. Regulations**



- Informal DTI relationship
- Well and survey naming
- No link with well or survey consenting
- Regulations not enforced
- No formal NDR for the UK

### **Solutions**

- $\rightarrow$  Deed executed in 1998:
  - Relief of regulatory obligations for data reported to CDA
  - Feed of consented wells
- $\rightarrow$  Naming standards
- $\rightarrow$  Energy Act 2016
- $\rightarrow$  CDA a proxy for the UK NDR
- $\rightarrow$  UK NDR launched in 2019

OII & GASUK

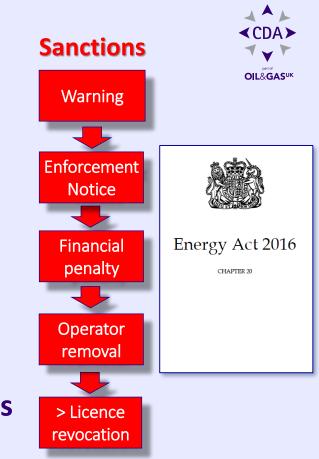
Regulations

## Energy Act 2016

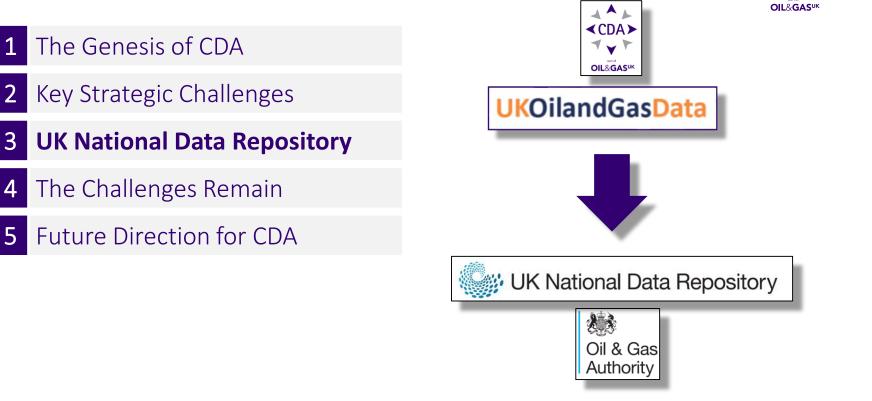
- **1. Retention Regulations** ...manner and period of retention
- 2. Reporting Notices ....what reported, when and how
- 3. Disclosure Regulations

...after the prescribed confidentiality period

- **4. Information and Samples Plans** ... before licence transfer and relinquishment
- 5. Information and Samples Coordinators ...single point of contact/responsibility



## **UK National Data Repository**



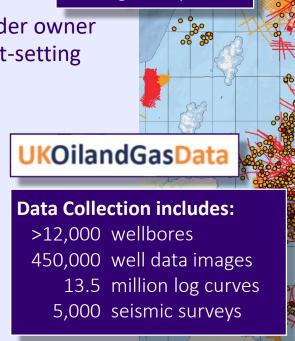
# UK National Data Repository UKOilandGasData pre-NDR

### **Data Collection & Activity**

- A secure, collection of well and seismic data under owner control, reported and distributed by entitlement-setting
- 24/7 online access; globally available
- >1 million well data item downloads annually
- Data for >1,000 surveys downloaded annually
- More than 6,000 user accounts
- OGA 2015 and 2016 seismic data

### **Data Management**

- Known data ownership and entitlement
- Distribution and data transfer via entitlement
- Automatic reporting to the OGA
- Standards and best practices



Membership:

59 licensees (most)

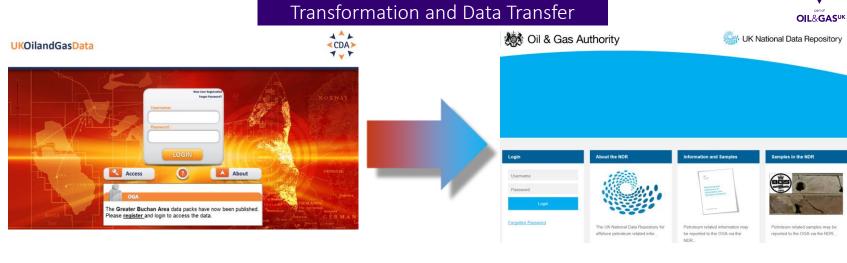
9 commercial 7 universities

6 regulatory

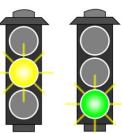
OIL&GAS<sup>UK</sup>

## The UK NDR





NDR Go-live:		
Licensees	20th February	
General Public	25th March	



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## The Purpose of the UK NDR



### • Regulatory enactment

- Reporting by licensees
- Disclosure by the OGA

### • Data access

- Data of known quality
- Ready-to-use data
- Online for free, on media at cost
- Fewest possible use conditions (ideally OGL)

- Value-add Opportunity
  - Studies and analysis
  - Reprocessing
  - Data analytics



- Platform for Collaboration
  - Data distribution
  - Data transfer
- Shop Window
  - Inward investment



## **The Challenges Remain**



The Genesis of CDA
 Key Strategic Challenges
 UK National Data Repository
 **The Challenges Remain** Future Direction for CDA



## **The Challenges Remain**



### **Risk to the NDR**

- Funding challenges
- Failed NDR tender exercise
- IPR/confidentiality breaches
- Neglected collaborative services



- Dilution of the Regulations
- Undeveloped scope

### **Mitigation**

- NDR Advisory Committee
- Reinforce recognition of the value of data
- Demand for data by new technologies
- Academic and professional qualifications for Data Managers

## **Future Direction of CDA**







## **Future Direction of CDA**





- Stay closely and fully involved in NDR governance
- Stay engaged with industry stakeholders to keep the NDR services current and relevant



The Society for Petroleum Data Managers

- Promote new technology in data management
- Actively support the new Society for Petroleum Data Managers
- Work with OGA and licensees to keep regulations relevant
- Work with OGA on longer term data strategies
- Identify other opportunities for collaborative services





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