

## Topics I will cover today



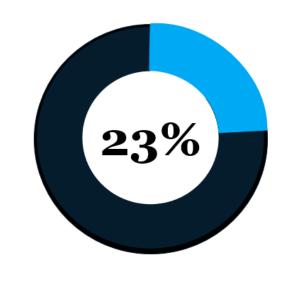
- 1. Digital Transformation landscape
- 2. Oil & Gas Industry Re-skilling
- 3. Data Science Up-skilling & Re-skilling
- 4. Data Science CoP
- 5. Data Science Accelerator
- 6. DataX Team
- 7. Data Science Project Snapshots



### Digital Transformation landscape

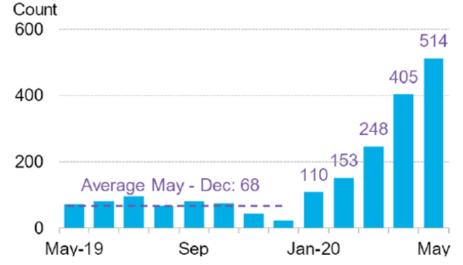


### Share of digital transformations that succeed

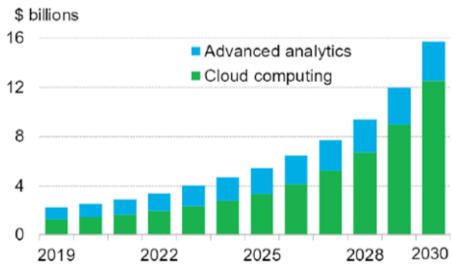


Source: McKinsey's Digital Survey, 2019; N=3,800;

### Mentions of remote operations in industrial company filings



# Forecast oil industry spend on advanced analytics and cloud computing

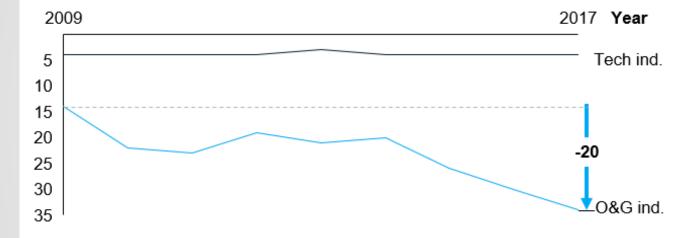


### The O&G industry needs to step up to attract and retain top talent

Many of our O&G clients struggle with attracting talents at scale

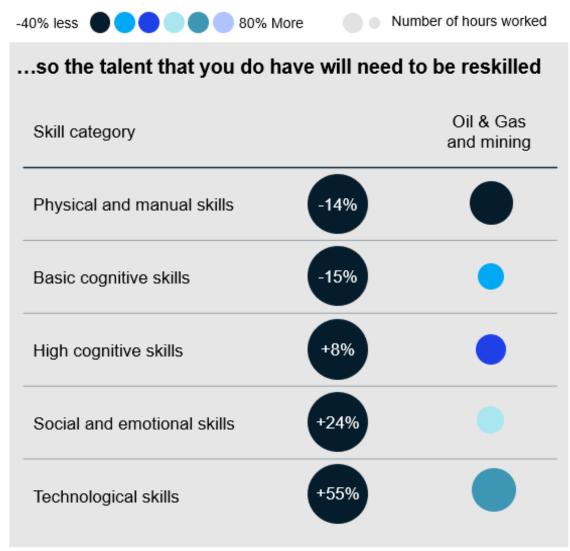


Ranking of most desirable industries for digital talent, lowest is best



# Top 5 Most Desirable Employers Among Global Engineering/IT Students





Source: McKinsey & Company

Rank

# Data Science Up-skilling and Re-skilling



Our digital transformation is driven by a people transformation and our development is based on 70:20:10.



Formal Learning

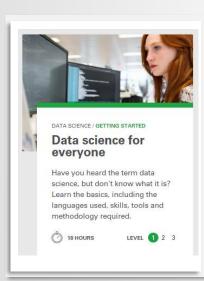
20 Exposure

Community of Practice



Data Science Accelerator

Our employees continue growing their careers with formal learning and career development resources.



### **Upskilling**

One-stop portal simplifies access to digital skills learning. Data science paths provide structured learning journeys tailored to all skill levels.



### Career development

Clear expectations are set across roles and levels to support career growth. Employees complete self-reflections and use dashboards to plan development.



### Reskilling

Reskilling promotes growth from within while helping us perform while transforming – example focus areas are data scientists and agile coaches.



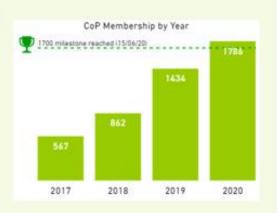
## **Data Science Community of Practice**

### 18 August 2020





1786 Members 24.55% Growth YoY%



# **Community**







### **Data Science Accelerator**



Total Items

9

23



### the marketplace for data science supply & demand

The Data Science Accelerator app enables anyone in bp to both identify and work on data science opportunities. Projects can also be added to raise awareness and promote reusability of existing data science code.



Search





Participate



Collaborate



Analyze



Admin

#### **FAQs**

#### What is the purpose of this app?

The primary purpose of this App is to capture data science opportunities across bp which will enable anyone in bp with the appropriate skills and time to deliver the business value. In addition, the App captures data science Projects with applicable code enabling anyone in bp to re-use which accelerates time to value.



#### What is an Opportunity?

An Opportunity is a business idea that can apply data science to deliver ongoing business value. Once an Opportunity is captured in the Accelerator, anyone in bp can choose to work on the Opportunity by contacting the applicable Opportunity owner.



#### What is a Project?

A Project is an Opportunity where someone has decided to apply data science to deliver the success criteria. A Project contains a link to the data science code and if applicable, the Project Repository that was used to manage the Project.





Got a question? Go to our Yammer site for help.



Opportunities



Projects



My Data

Re-use



Add

Edit



Access

Join



Feedback



### The DataX Team



#### What is DataX?

- A team of 12 data scientists with oil/gas domain expertise, who are deployed onto cross-functional, multi-disciplinary digital product teams
- They create value by turning data into actionable insights by melding business domain knowledge with analytics and machine/deep learning modelling

### Team Principles

- Impact focus on our user's needs to create solutions that address the business challenge; deliver value quickly using MLOps framework and strategic partnerships
- Speed test and iterate to deliver accelerated impact; fail fast and share learnings quickly
- OneTeam collaborate to create code that is shareable and reusable; cultivate an open, transparent and enthusiastic data science community

### Team Working Style

- 70% Delivery create data science solutions to businessfacing challenges
- 20% Development explore personal development opportunities for up-skilling / re-skilling (courses, conferences, collaborations)
- 10% Dividend re-invest into bp's data science community (team materials, CoP engagement, mentoring)



# **Project Snapshots**













