

# Oil & Gas Technology and Innovation

Aug 20<sup>th</sup>

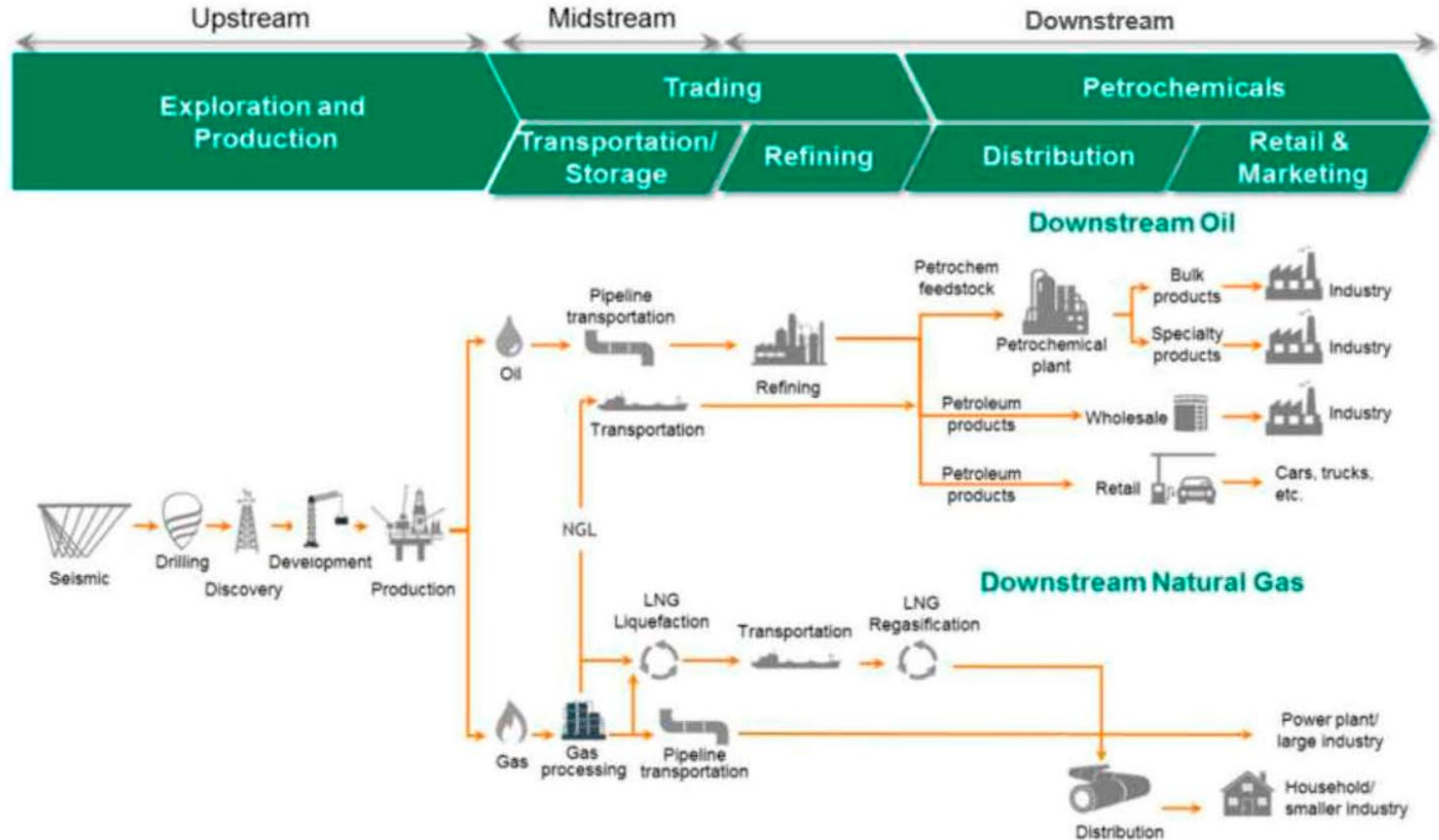
Arthur ENAME | Vice President – Africa | NOV



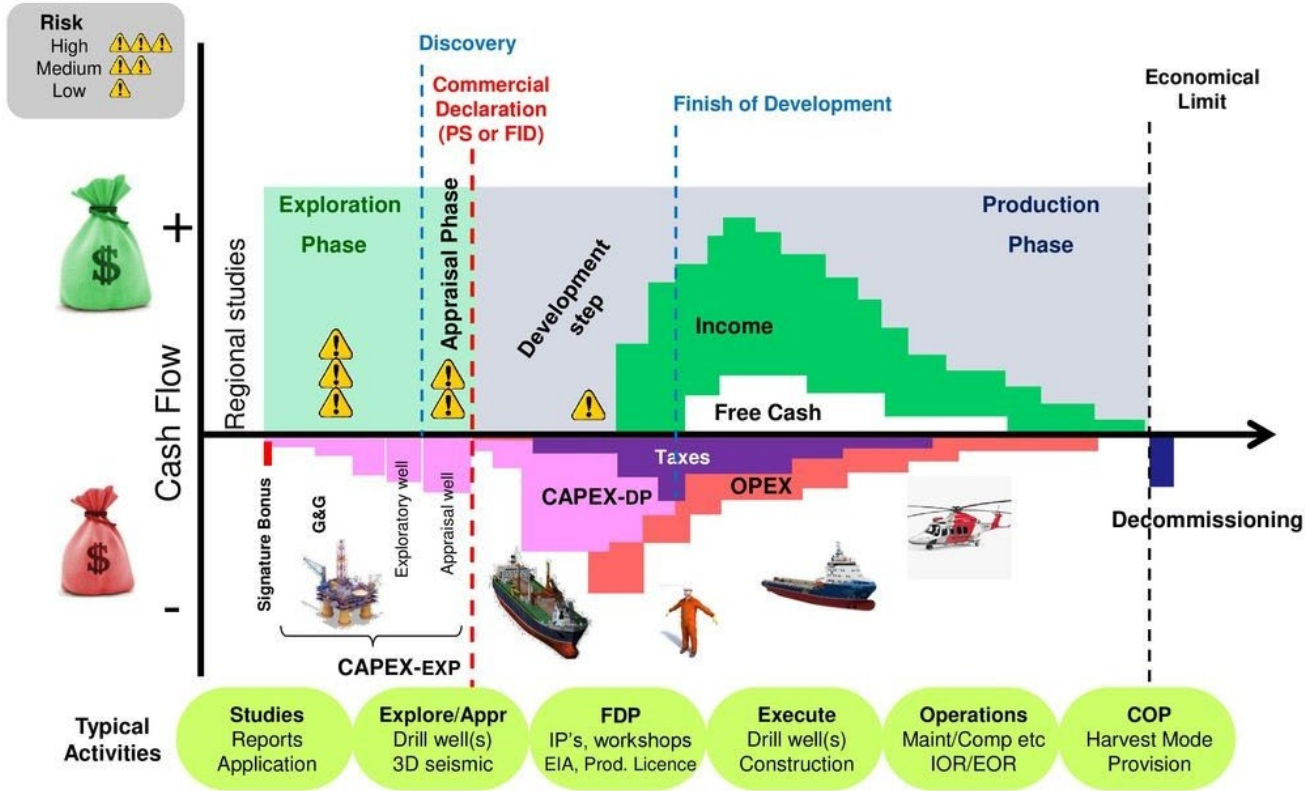
# Summary

- Introduction to the Oil and Gas Industry
- Impact of innovation in the O&G industry
- 5 Key Advancements in Oil and Gas Drilling space
- Sustainable Drilling with NOV leading technologies
- Conclusion

# Introduction: The Oil and Gas Industry



# E&P Value Chain and lifecycle



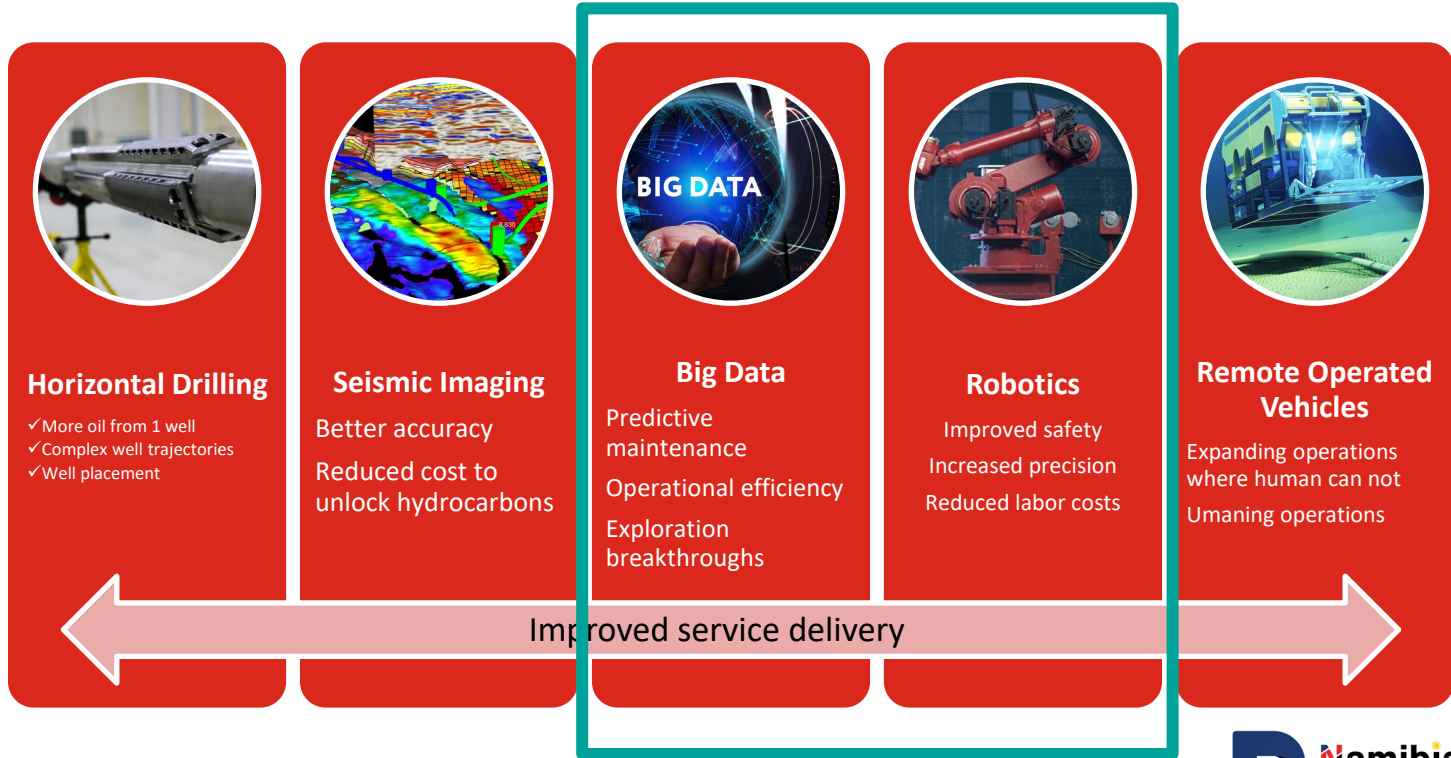
# Purposeful innovation

A hand holding a blue marker is shown in the foreground, drawing a technical diagram on a dark surface. The diagram consists of various lines, circles, and rectangular shapes, suggesting a complex engineering or architectural plan. The background is dark and slightly blurred, with some faint text visible on the left side.

We see where our customers' needs are not being met and we act. Through business innovation, product creation and service delivery, we are driven to power the industry that powers the world better.

- Projects technical viability in new frontiers...
- Enable lower emissions ...
- Access to funding...

# 5 Key Advancements in Oil and Gas Drilling



# NOV at a glance



550

Locations worldwide

\$8.5B

Market capitalization<sup>2</sup>

29k

Employees<sup>1</sup>

\$7.2B

Annual revenue

61

Countries

120+

Acquisitions

1. Full Time Equivalent workers

2. Market Capitalization recorded as of Feb. 24, 2023

# Supporting wells across their lifecycle



# NOV Global Presence

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# Applications with data...

# IntelliServ

Only commercially-available wired drill string  
and associated telemetry network

Instantaneous, two-way  
transmission of critical  
downhole data at 57,000bps

High-definition MWD and LWD  
data available real-time  
regardless of flow rates

Provides clarity and confidence  
in downhole conditions and  
enables full drilling automation

# M/D Totco

The technology leader in real-time digital solutions,  
trusted for 90+ years in data management

Your Data – Made Easy™

Sensors, edge devices, data  
services, and software solutions  
across drilling and completions

High-speed data from surface  
and downhole sensors,  
delivered at the edge and in the  
cloud

Digital solutions for harsh  
environments, supported by a  
24/7 global field service  
organization

# Tuboscope

Leading provider of tubular services for drilling, production and line pipe applications

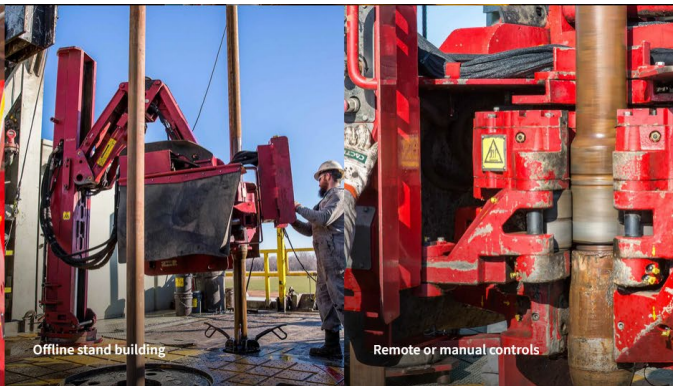
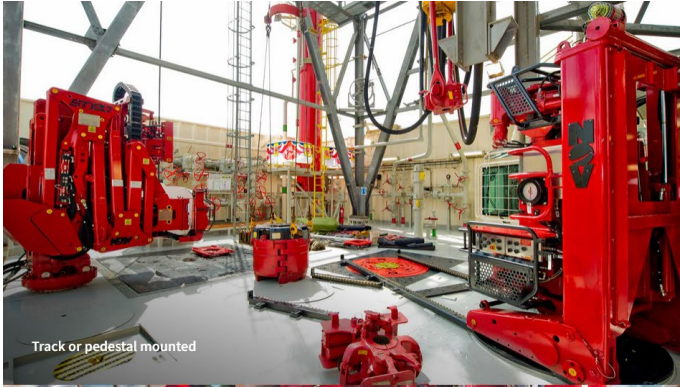
Leading provider of large-diameter conductor pipe for onshore and offshore wells through XL Systems

Integrated inspection, corrosion control, wear prevention, machining, and repair services

Complete drill pipe lifecycle management using TracID™ RFID technology

# Robotics / Automation ...

# NOV Robotics



# NOV Process automation platform: NOVOS...

NOVOS™ is the industry's only reflexive drilling system, automating repetitive drilling activities, benefiting contractors by allowing drillers to focus on consistent process execution and safety, and benefiting operators by optimizing drilling programs.

## Key Benefits



Consistency   Simplicity   Efficiency   Speed   Safety   Economy

## NOVOS by the Numbers\*

Over  
**2 million**  
feet drilled<sup>†</sup>

**Most widely**  
deployed  
automation  
system

Over  
**6,000 days**  
of operation

\* With multiple rigs actively drilling in Texas, Oklahoma, Pennsylvania, the Alaskan North Slope, and Canada.

<sup>†</sup> April 2018



 **Namibia**  
Oil and Gas Conference



**Questions?**