Deployment and Implementation of National Data Centre: A Kenyan Story

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Outline

- About Noc-Kenya
- Our Journey
- NDC Drivers
- NDC Deployment & Implementation
- Conclusion
- Way Forward
Our Journey

DATA ASSETS

2002 Renewed interest in petroleum exploration

2012
Ngamia-1 Discovery + more Wells drilled

1985-92
14 Wells drilled

1960-84
Seismic surveys + 16 Wells drilled

1950’s
Start of Petroleum exploration

1950’s - 2006
Analogue Data Management

2007 - 2008
Developed NDC Master Plan
9-track tape transcriptions

2009 - 2011
Data scanning & Case 360
DMS implementation
PETRAD Support (scanners, maglars, 2500 tape drive)

2013-To Present
NDC Implementation
Digital Platform
Challenges

• Time inefficiency
• Data security
• Integrity
• Decentralized data set
• Data handling and quality control
• Legal framework
• Inadequate data storage
NDC Financing Model

Joint Venture- 2013

National Oil and Schlumberger acquired 9400 km Multi-client 2D seismic data
A National Data Center is an active, dynamic center where data lives.

It’s a hub that gathers, organizes, quality controls, and stores regional, national, or governmental Exploration and Production data.

NDC manages the country’s petroleum resources by:

- Preserving data resources
- Promoting investment
- Increasing collaboration between
  - Government bodies
  - IOCs and service companies
  - Research centers
NDC Implementation

**Foundation**
- Assessment
- Data Quality Control
- Offline data delivery
- Knowledge transfer (Training)
- Visualization Center

**Develop**
- Web services
- Data subscriptions
- Data standards and improved compliance
- Online data submissions & deliveries

**Enhance**
- Full web services
- Data completeness
- Enhanced data viewers
NDC System
National Oil NDC Architecture
Digital Data Store

National Oil is the custodian of oil and gas exploration data in Kenya and has extensive geophysical, geological, engineering and geochemical data obtained from Kenya’s petroleum exploration activities since the early 1950s.

Any oil exploration company working in Kenya is required by law to submit data copies to National Oil for safe custody.

The customers of NDC comprises of investors in oil and gas exploration, Government bodies, Research institutions, Public and National oil employees among others.
NDC Value

- Quick access to E&P data for decision making
- **Efficient** Data Management
- Promote transparency, attract investors & increase investment in the country
- Developing human assets - **Effective** transferring knowledge
- Protecting current investments, data and extracting value
- Reduction in the studies time
- Data **centralization** and **integration**
Way forward

- Launch NDC externally
- Strengthen data security
- Develop capacity and competence
- Benchmark with Mature NDRs/NDCs
- Assess and adopt new technologies
THANK YOU