

# Effective Cost Management in the Oil and Gas sector

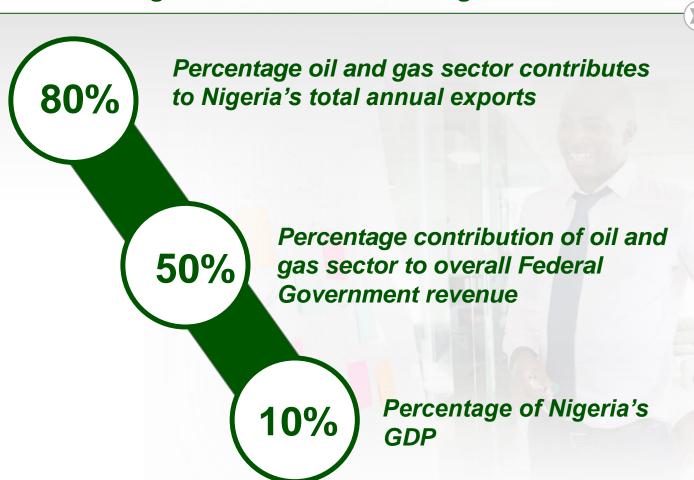
**Industry perspective** 

**OPTS** presentation

October 29<sup>th</sup>, 2019

### The Oil & Gas sector is critically important to Nigeria

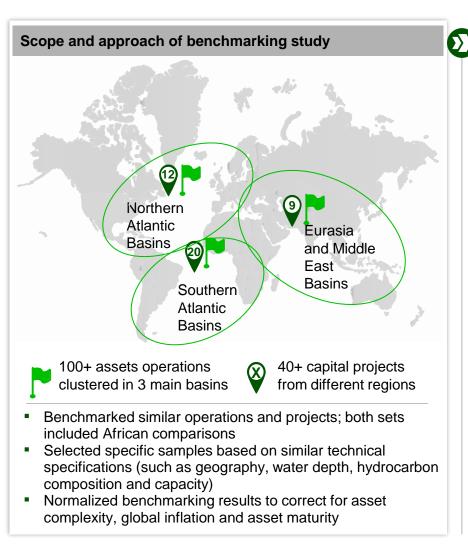
The oil and gas sector is critical to Nigeria

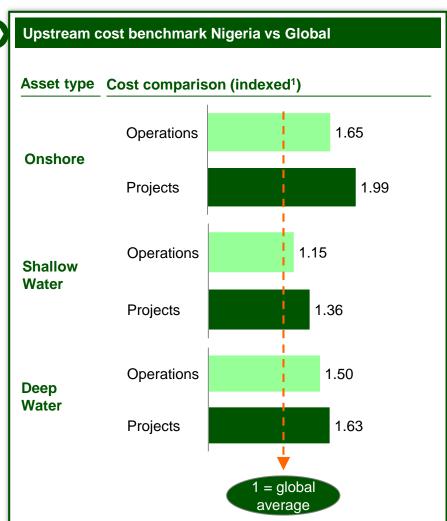


It is therefore crucial to ensure that Nigeria has a healthy and competitive oil and gas sector

### There is a significant cost premium in the Oil and Gas industry in Nigeria vis à vis other oil producing geographies

2015 Data

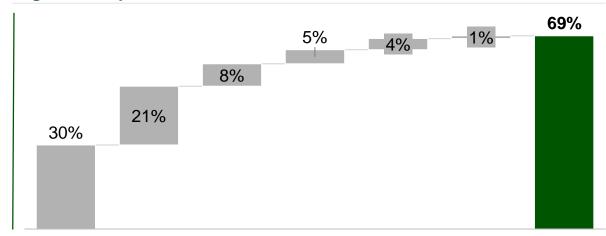


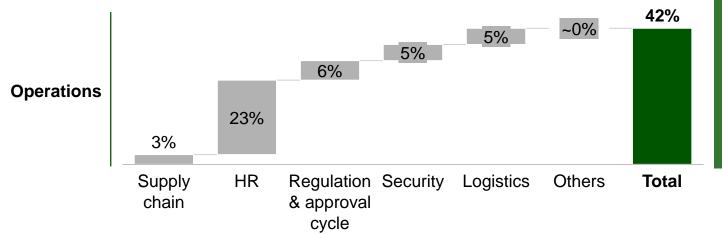


### Cost premium driven by multiple factors requiring action from both Government and Industry



**Projects** 



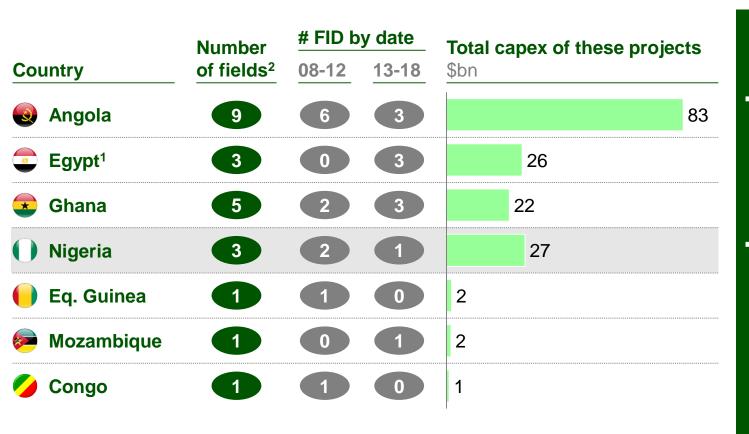


- Majority of cost premium related to legal and regulatory requirements that can be influenced by Government and public institutions
- ~20% of premium could possibly be addressed annually by cost efficiency optimization programs from the industry

### Cost competitiveness of the sector needs to increase if Nigeria is to compete against other geographies for capturing new investments

#### **Investment in African Deep Water projects**

Deep Water projects currently onstream or under development with production start date 2010 or later and >\$1bn in total capital expenditure



- Nigeria has seen a slow progression of projects compared to other geographies, and limited FIDs
- Projects without consolidation and tax benefits are not viable despite industry's significant reduction in costs

<sup>1</sup> Egypt is able to unlock gas developments by negotiating more favorable ad hoc fiscal terms 2 Parent-level & standalone SOURCE: Wood Mackenzie Upstream Data Tool 2019

### The industry is doing everything possible to reduce costs where possible



# Industry has been collaborating to reduce costs through the ICE program, with promising early savings Implemente

Areas of cost reduction

#### Sample initiatives

Implemented and ongoing initiatives

**USD Mn run rate** 

80

150



Logistics &

security

- Surplus inventory reduction: Utilizing surplus inventory across operators (e.g. OCTG pipes that are left over after a project)
- **Supply chain optimization:** Reducing transport costs by bundling volumes (e.g. methanol)
- Industry wide equipment and activity planning (IWEAP): Sub-leasing and sharing of high value equipment to increase utilization (e.g. sharing of rigs, dive support vessels etc.)
- Industry Wide Standard Tariff (IWST): Renegotiating rates with Intels on logistics services
- Helicopter sharing: Sharing helicopters between (e.g., successful pilot for sharing an S92 in Lagos)
- NPA and OGFZA: Engaging with stakeholders to prevent increase in operational costs paid to stevedores and charges due at the Free Zone Area
- Joint security convoy: Exploring shared convoys across IOCs to increase utilization of security vessels and optimize cost

Contract approval process optimization: Introducing global best practices to accelerate contract approval process while maintaining the required oversight

Collaboration and support during the implementati on phases will be necessary to deliver on the ambition and opportunities

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Contract approval

Recommendations
are yet to be implemented

# In addition, each IOC has put in place several individual initiatives to further optimize costs















### **Experience**

- IOCs always strive to optimize operations in a cost effective manner by;
  - Instilling a performance and cost saving culture across operated and non-operated assets
  - Encouraging a culture of disciplined implementation and bias for action
  - Collaboratively implementing cost saving initiatives, with and across the 5 IOCs

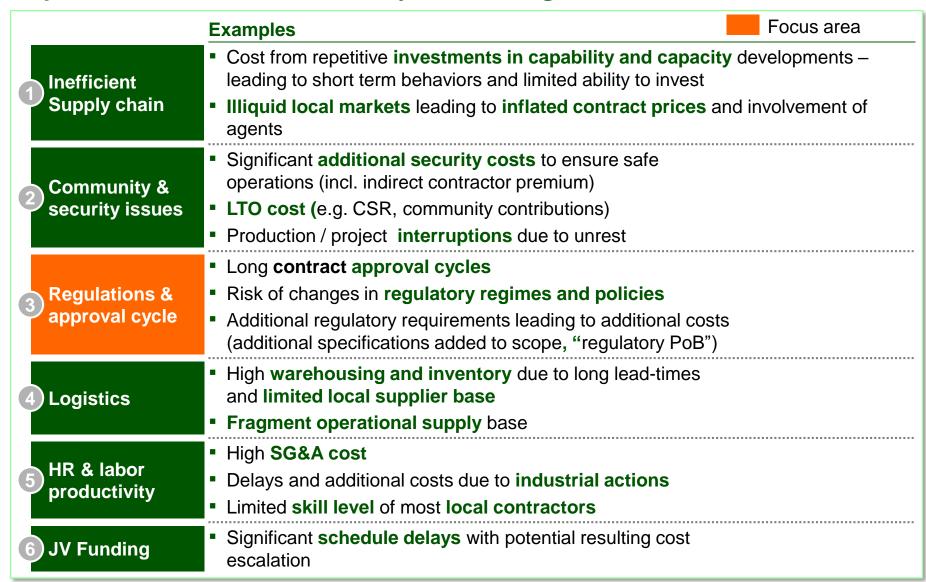
### **Programs**

- Lean "production" operations: extensive waste elimination ('Zero Waste') campaign leveraging Change Ambassadors
- Inventory reduction initiative:
   Reduce overall levels of inventory and hence reduce cost of warehousing and of holding inventory
- Vendor management and long term contracting: Re-tendering and rationalizing vendor engagement; bundling services and awarding contracts on longer term basis
- Digital transformation: Implementing High Impact Technologies and Digital Transformation initiatives

### **Progress**

- Over \$200M¹ cost reduction from various
   Opex initiatives across IOCs
- Each IOC already implementing ~100 -600¹ cost reduction initiatives

### However there are still multiple structural cost premium root causes that require Government and Industry to work together



### One of the biggest drivers of the cost premium is the long and ineffective contract approval cycle

### Challenge

- It takes an average of 38 months to award an oil and gas contract in Nigeria, which is significantly longer when compared with any of Nigeria's international peers
- The long and cumbersome process increases the cost and uncertainty for both operators and suppliers, contributing to the cost premium

#### **Root Causes**

Many approval steps and long approval timelines

- 13 separate approval steps consume significant approval time
- IOCs also contribute to inefficiency
- Lack of supplier qualification alignment (NIPEX)

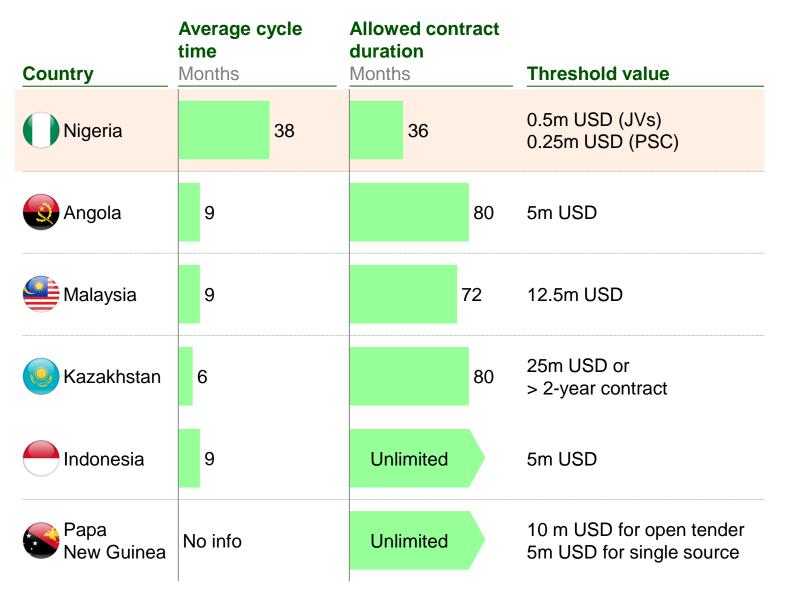
High workload for approval teams

- High number of tenders go through the process every year (100 – 150)
- Driven by low tender value threshold that has not been increased since 1991 despite cost inflation and allowed contract duration of only 3 years

Process
differentiation
between
approval teams
and high
number of
bidders

- Process differs from tender to tender and does not match the Joint Operating Agreement
- All contractors listed on the NIPEX system are entitled to bid in open contracts

## The contract approval cycle time is much longer in Nigeria and the tendering threshold value is significantly higher vs. other geographies



NNPC's drive to achieve 6 months will not be feasible if alignment between NAPIMS and NCDMB is not achieved

SOURCE: Expert interviews 10

### The industry's recommendations would reduce current contract cycle time from ~38 to 6 months



Proposed solutions	Approval cycle duration	# tenders in NIPEX
A Increase the threshold value for the tendering process – Increasing NAPIMS threshold to 5m USD (or Naira equivalent)	0%	- 36%
Increase allowed contract duration - Increasing maximum contract duration for capital intense / high risk contracts to 5+5 years	0%	- 30%
C Rationalize NIPEX listing and ensure consistency with NCDMB database – Making NCDMB qualification pre-requisite to register in NIPEX	- 20%	0%
Improve NIPEX set-up and interfaces – Creating one platform for all interaction (submission and approval)	No direct impact; enabler for other initiatives	
Recommit to faster approval and response times – Issuing SLA with response times of 2-3 weeks (in line with NCDMB SLA)	- 35-55%	0%
Simplify approval process and synchronize steps – Taking out, simplifying and streamlining process steps	<b>- 25-30</b> %	0%
Total impact after correction for double counting <sup>1</sup> :	- 55-85%	- 55%

Considering all tenders in scope, the quick-wins could deliver **75-90%** reduction on tendering time, resulting in equivalent contract cycle time of **4-9 months** 

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<sup>1</sup> Approximated correction consists of: i) 18% for cycle time reduction, ii) 11% for number tenders reduction



### Increasing threshold value ensures regulators are focused on key contracts and operators can be agile to leverage market conditions

#### **Situation**

- NAPIMS' current tender approval thresholds stand at:
  - 0.5m USD for JVs
  - 0.25m USD for PSCs
- Additionally, there is a threshold for Naira spend of 10m NGN which is not linked to the USD threshold by current exchange rates

### Challenge

- Disperses
   regulatory oversight
   and leaves
   NNPC/NAPIMS short
   on resources to
   analyze high-value
   contracts that
   determine most value
   sharing
- Slows down
   operators and limits
   ability to leverage
   market conditions
   to lower costs (e.g.
   idle capacity in the
   market)

#### Recommendation

- Request NNPC GMD to issue directive to increase threshold value to 5m USD for both JV and PSC to reduce the number of tenders in the process by ~36%
- Increase Naira approval threshold to 5m USD as well based on equivalent Naira amount at day of tender submission
- Industry to provide NAPIMS with quarterly list of tenders below new threshold



### Increasing the allowed contract duration would reduce the number of tenders in the process, as well as associated workload and costs

#### **Situation**

- Currently,
   contract duration
   is capped at 3
   years for most
   projects
- This is less than the average process cycle time of ~38 months

### Challenge

- Slows down projects and production due to continuous services have to be re-tendered regularly
- Creates significant extra workload for the industry which in turn generates higher overhead costs
- Limits ability for contractors to invest and be more efficient due to short contract duration (typically 3 years)

### Recommendation

- Request NNPC GMD to issue directive to increase maximum allowed contract duration for high investment / high risk tenders (e.g. sea wharfs, aircraft, rigs, marine vessels) to 5+5 year contract length duration for simpler contracts can remain unchanged
- This will increase opportunities for Nigerian local content development



## Moving to a single contractor database with stricter quality and performance criteria would enable efficiency gains and lower costs

#### **Situation**

- Inconsistency between contractors listed in NIPEX and NCDMB database
- Relatively high number of contractors in registered in NIPEX that do not meet pre-aligned category criteria they are listed for in NIPEX

### Challenge

- Lower quality

   and
   performance
   contractors

   leading to
   inefficiencies and
   extra costs
- Unnecessary slows down in the tendering process as unqualified contractors (e.g. not registered by NCDMB)

### Recommendation

- Short term: request NIPEX and NCDMB to collaborate in applying NCDMB registration a pre-requisite for listing of contractors in NIPEX (i.e. remove contractors not meeting this criteria from NIPEX) eliminating the need for two parallel databases to be used in tendering process
- Medium term: set up a team consisting of NCDMB, NAPIMS, NIPEX, PETAN and OPTS representatives to rationalize contractors listed in NIPEX by removing contractors not meeting the previously agreed category criteria

The competitiveness of the Nigerian Oil and Gas sector is of paramount importance to the overall economy and needs to be urgently addressed to ensure its sustainability

Cost premium challenges are structural and largely beyond the control of any individual institution resolving these challenges requires leadership and joint collaboration

**THANK YOU**