

# E&P IN SUB-SAHARAN AFRICA: 2018-2019

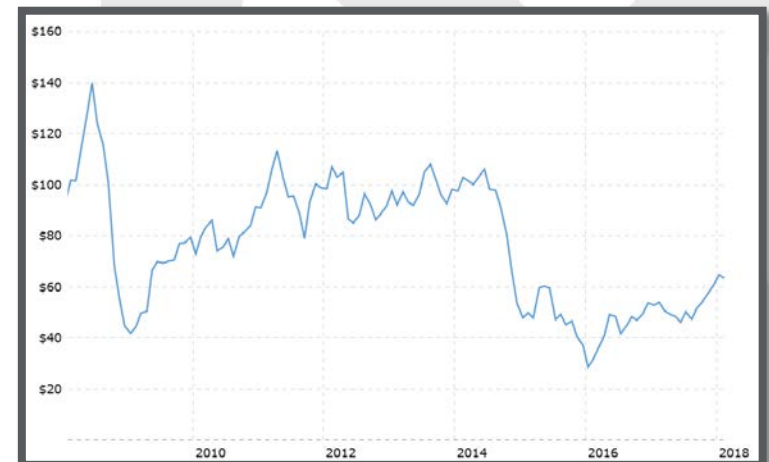
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11 September 2018

# INTRODUCTION

## Entered the next phase of the oil price cycle

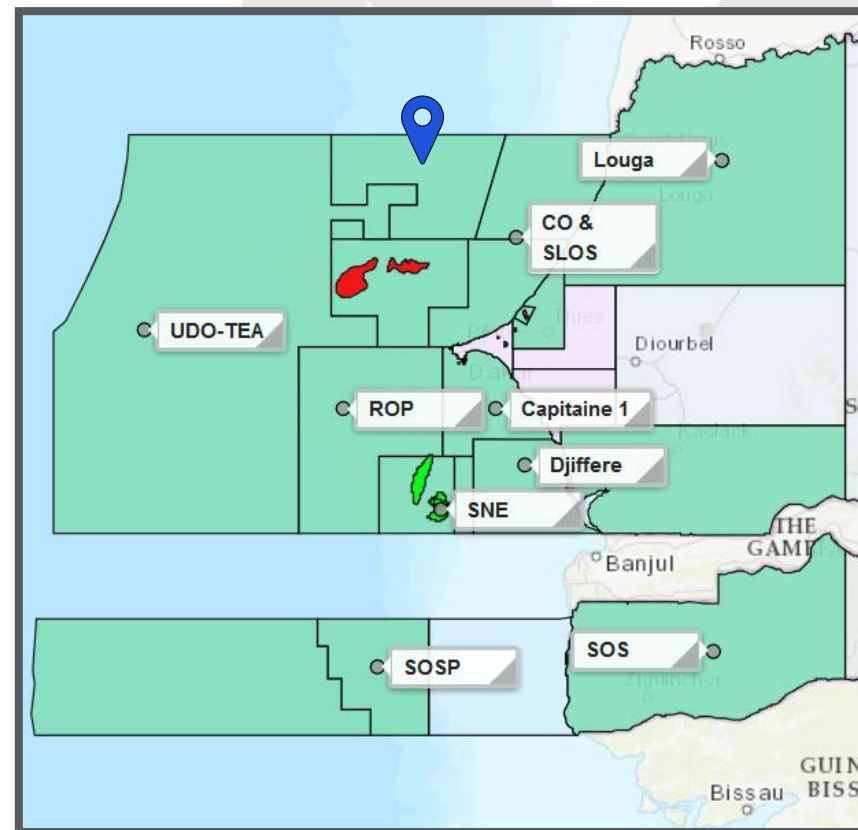
- Oil companies have generally either successfully reduced operational costs and budgets or gone under
  - Service costs significantly reduced
  - Great time for companies with cash to be undertaking exploration and development programmes
  - Seismic/rig companies still feeling strain
- Beginning to see more awards, acquisitions, farm-ins
  - Driven by majors/supermajors
  - Independents with healthy cashsheet will follow
  - Will lead to increase in seismic activity/drilling
    - Will *eventually* result in higher prices
  - And a renewal of the jobs market
    - Important for future of industry



# SENEGAL

## First mover advantage now gone

- New Petroleum Code in the making
  - Bid round planned H1 2019?
    - 10 blocks to be available
  - Government announces only majors will be awarded new acreage
- Total awarded ROP & UDO-TEA May 2017
  - ROP award still disputed by APCL
  - Seismic acquired Q2 2018
  - **PETRONAS farm-in August 2018**
  - Drilling 2019?
- UDO PSC
  - 10,000 sq km area to be selected
- Cairn/Woodside/FAR SNE development
  - 2C recoverable resources 563MMbo, + gas (~1.3 Tcf)
  - FID in H1 2019? First Oil in 2021-2023
    - FAR/ConocoPhillips dispute

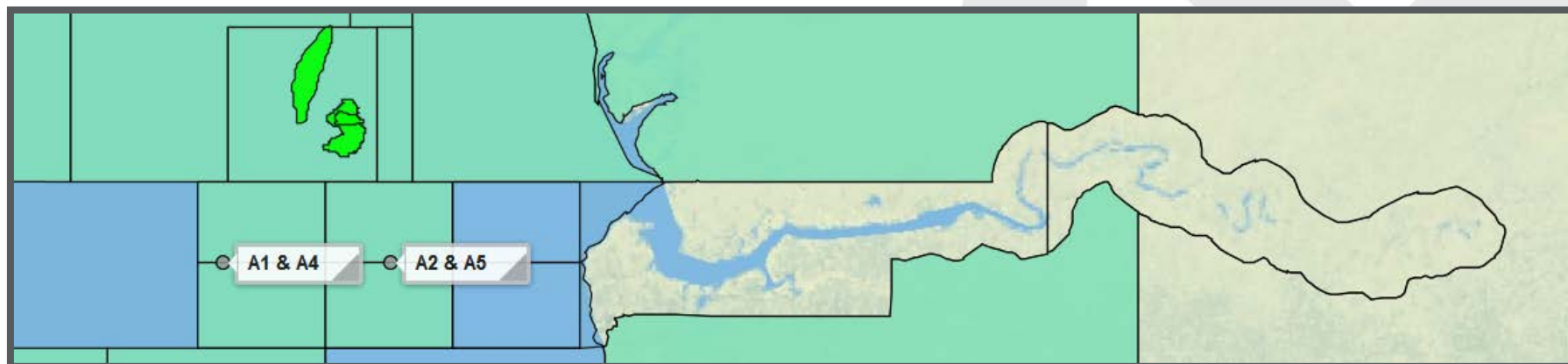


- BP/Kosmos blocks
  - FID for Tortue project expected end-2018
  - Further exploration drilling under consideration for 2019

# THE GAMBIA

## Growing interest from oil companies

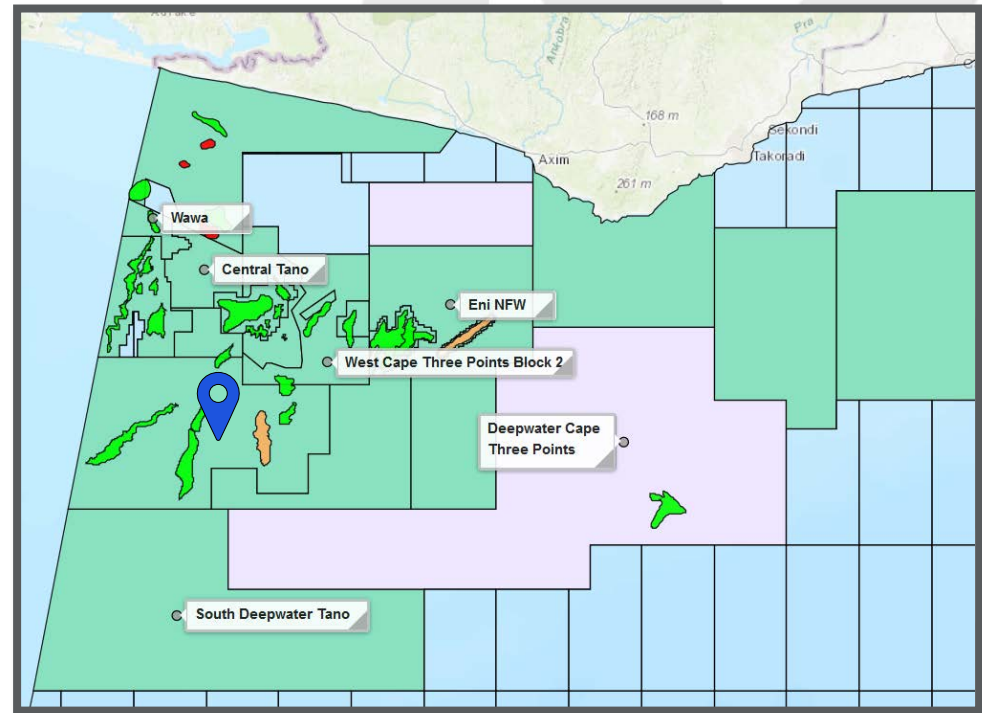
- Government requested information from parties interested in acquiring open blocks
  - All acreage available
    - APCL dispute regarding A1 & A4 ongoing
  - Government now reviewing submissions & will invite its chosen parties to negotiate for licences
- **PETRONAS farm-in with FAR & Erin Energy (blocks A2 & A5)**
  - FAR planning Samo 1 in October 2018
    - P50 unrisked prospective resources – 825 MMbo
    - 55% CoS (FAR estimates)
    - Erin Energy bankruptcy



# GHANA

## New phase of exploration

- ExxonMobil awarded Deepwater Cape Three Points
  - Local partner to be identified before licence ratified
- Petroleum Code 2016 states bid rounds must be held going forward
  - **2018 Licensing Round planned**
    - To be launched 5 October
    - Six blocks to be made available
    - 3 via competitive bidding
- Multiple farm-ins available
  - Springfield – WCTP Block 2
    - NFW in 2019?
  - AMNI – Central Tano
    - 2 planned wells before 2020
  - AGM Petroleum – South Deepwater Tano

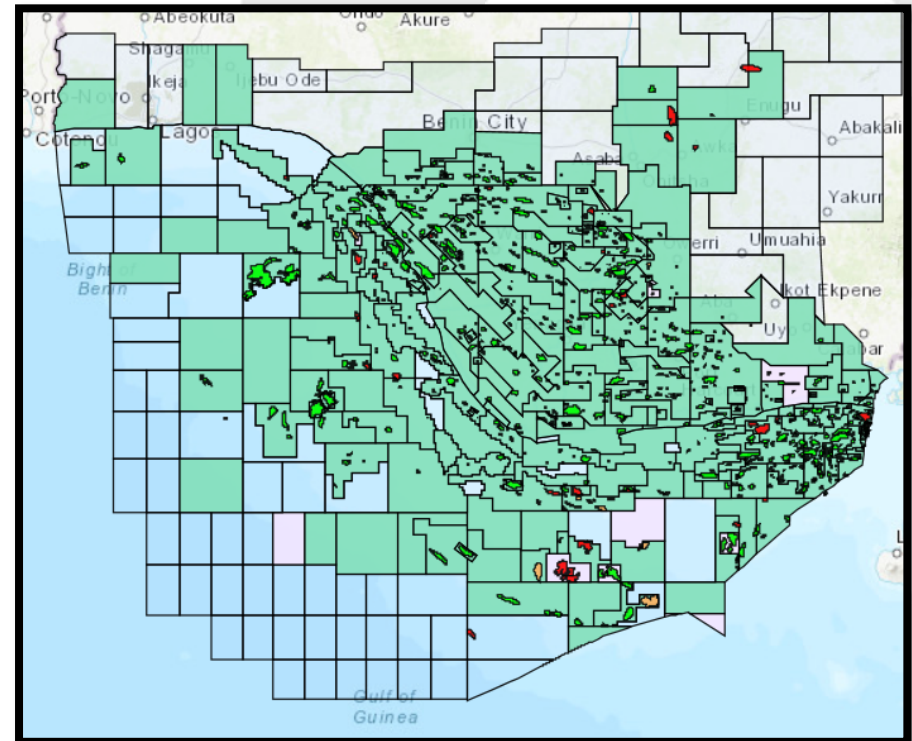


- Aker Energy to commence appraisal drilling in October 2018 on DT/CTP 
- Eni to drill NFW?

# NIGERIA

## Another electoral cycle almost over: PIB still not passed

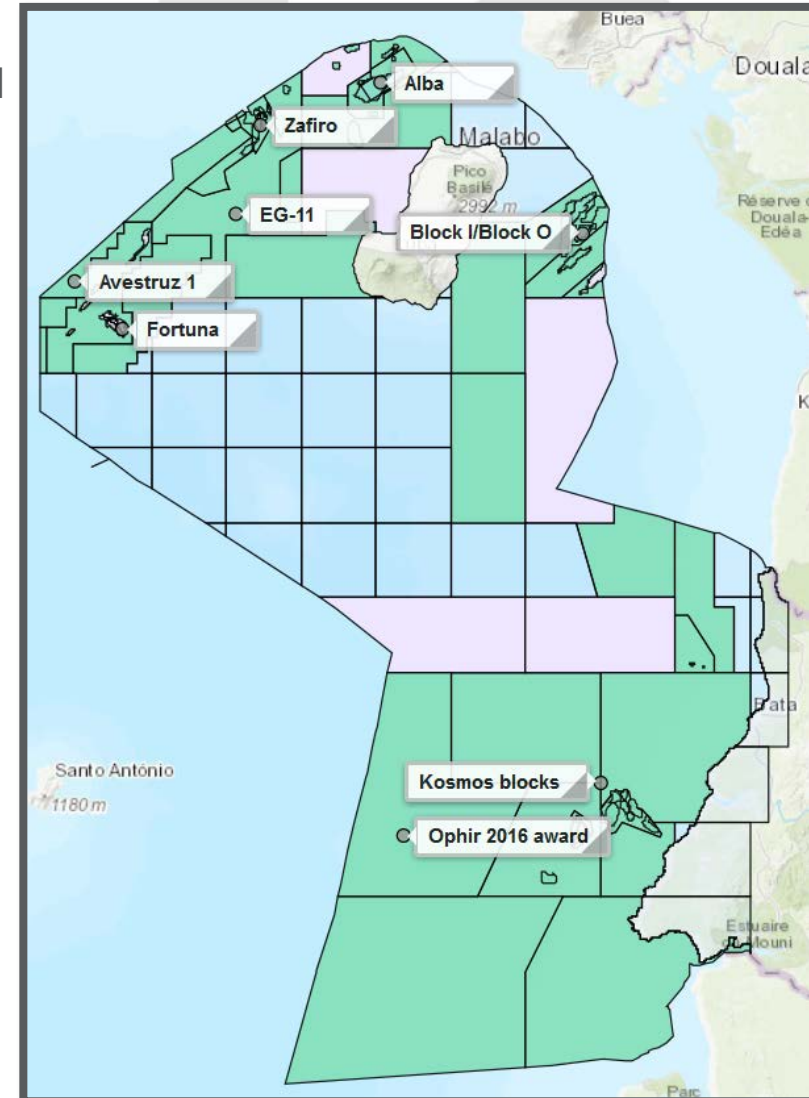
- Presidential elections February 2019
- Petroleum Industries Bill split into four parts
  - Petroleum Industries Governance Bill passed by Senate & House of Representatives
    - **President Buhari refuses to sign it off**
  - Petroleum Industries Administration, Fiscal and Host Communities Bills published
- Nigerian production has declined, due to terrorism & lack of investment
  - IOCs are not expected to invest significantly until PIB passed
- Future deepwater licensing round?
  - Multi-client seismic planned



# EQUATORIAL GUINEEA

## Seeking to expand regional influence

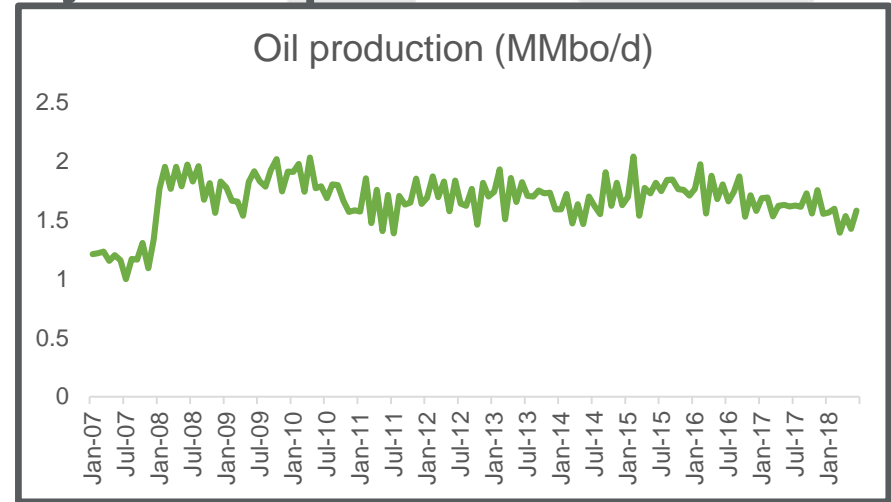
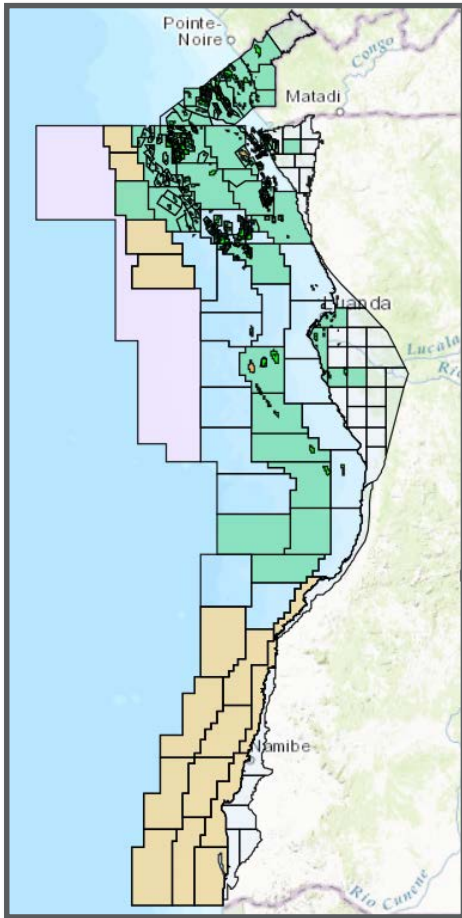
- Demanding IOCs met work commitments & local content requirements
  - Renewals could be refused
- **New Licensing Round in 2019**
  - Previous round only resulted in one award
    - Government more successful in attracting partners through direct negotiations
- LNG developments
  - Noble signs agreement for Alen gas (Block I/O) to be processed at EGLNG plant
  - Ophir Fortuna project fails to attract funding
    - Licence expires December 2018



# ANGOLA

## Action needed if economic recovery to take place

- Angola production expected to begin decline after 2020
  - Currently around 1.5 MMbo/d
  - Expected to be 1 MMbo/d by 2023



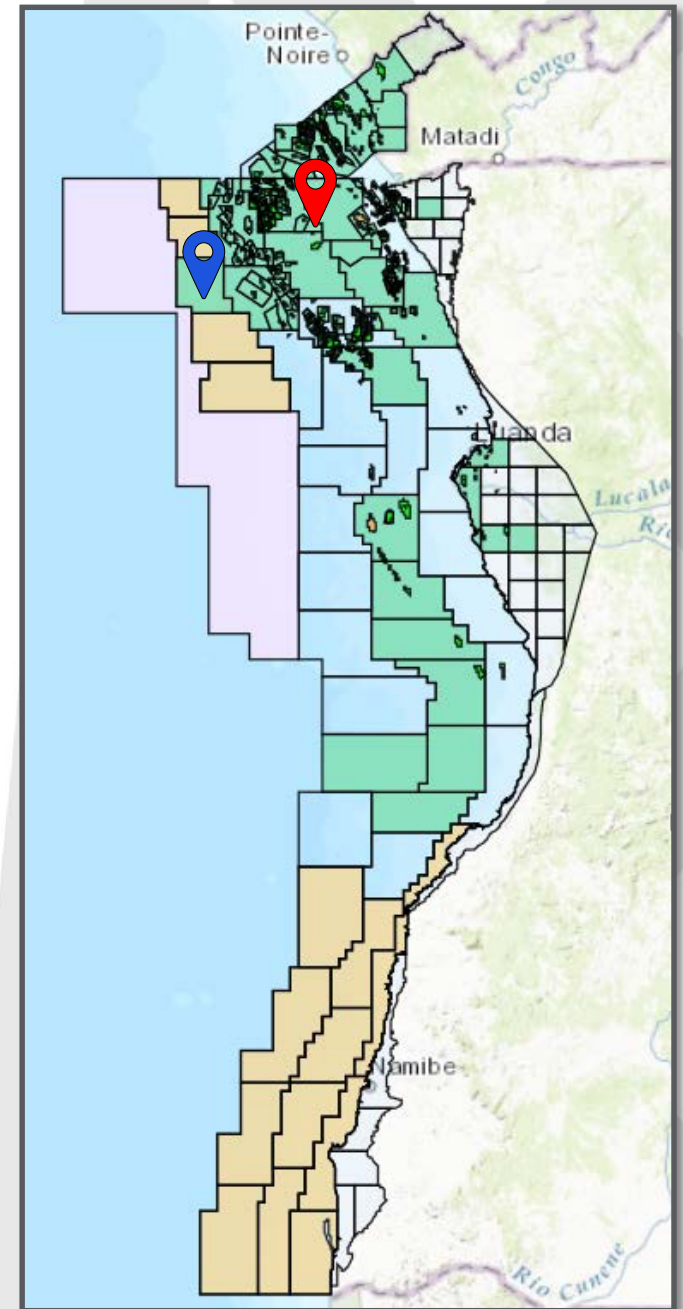
- Three new laws passed
  - Addressing development of marginal fields
  - Clarifying gas terms & ownership
  - New regime for additional exploration in development areas
- New Oil & Gas agency created
  - To take over from Sonangol as concessionaire
  - Will be responsible for future bid rounds
  - Transition to take place through to December 2020
  - Reorganisation at Sonangol
    - Sonangol divesting other business areas
- Future licensing round?



# ANGOLA

## Will investors be reassured by changes?

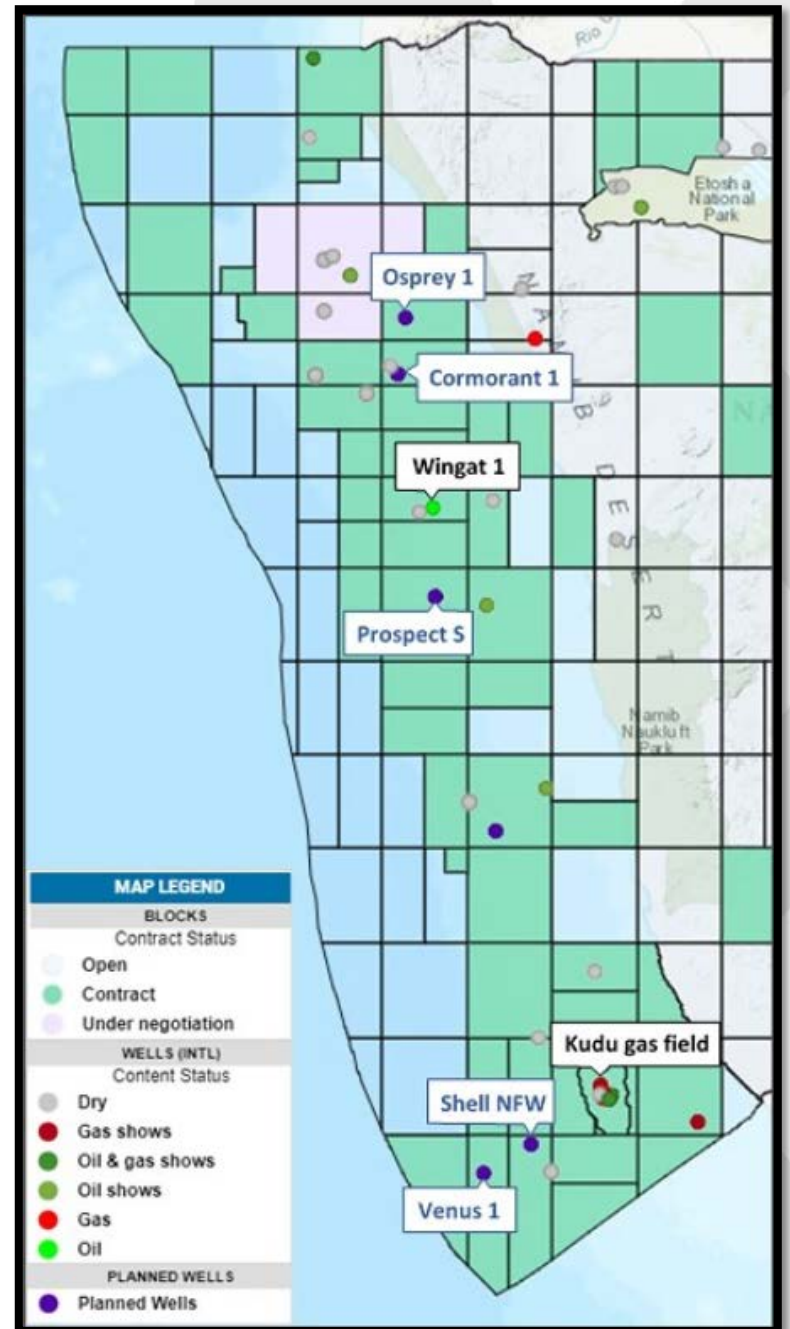
- Don't expect to see new exploration in Kwanza Basin in near-term future
  - Activity likely to be focused in Lower Congo
- Sonangol/Cobalt dispute settled
  - Sonangol hosting “mini bid round” for Block 20 & 21
- Total enters Block 48/16 with Sonangol
  - Commitment well in first 2 years
    - However 2 year extension now granted
  - Also agrees contractual terms for Zinia Phase II (Pazflor, Block 17)
    - First new development project since downturn
- **Eni oil discovery**
  - **Kalimba 1, Block 15/06**
  - **230-300 Mmbo *in-place* in Miocene sandstones**



# NAMIBIA

## Renewed interest

- Namcor good at extending/modifying work commitments
  - Also hosted data promotions through 2017
- Supermajors beginning to grow footprint
  - Still plenty of farm-in opportunities available
- Upcoming wells
  - **Tullow – Cormorant 1, PEL 37 – Spudded**
  - Chariot – S1, PEL 71
    - Chariot secures funding
  - Eco Atlantic/Tullow – Osprey 1, PEL 30
    - Subject to Tullow completing second part of farm-in
  - Total/Impact – Venus 1 – PEL 56 - 2019?
  - Shell – PEL 39 – Planned 2020?
  - Serica – PEL 47
    - Subject to farm-out



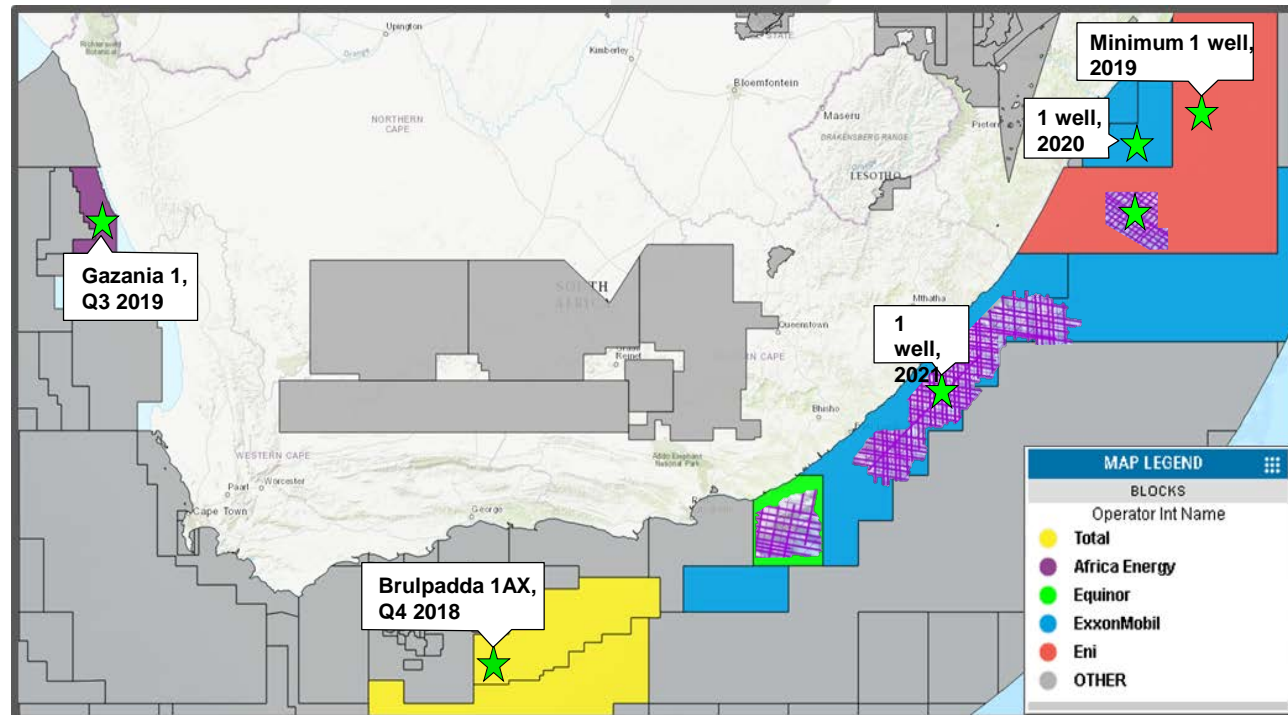
# SOUTH AFRICA

## Political upheaval, but lots of E&P activity

- Political upheaval
  - New President & Minister of Mineral Resources & Energy
  - Delays to legislation (MPRDA)
  - Country still not close to meeting energy demand
- Majors betting on deepwater
  - ExxonMobil, Equinor, Total & Eni taking offshore acreage

- Total: re-drill of Brulpadda 1AX
  - Block 11B/12B, end 2018 / early 2019, rig contracted

- Eni, ExxonMobil & AEC planning wells
  - Will depend on successful farm-outs/passage of legislation



# CONCLUSIONS

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- MSGBC Basin only major area of E&P activity through downturn
  - Operations elsewhere were generally depressed
  
- E&P activity is now picking up
  - Supermajors, some majors and “Asian majors” acquiring vast amounts of acreage
    - Including Frontier & deepwater areas
      - Ultra-deepwater MSGBC, deepwater Cote d’Ivoire, STP, South Africa, Madagascar
  - Expect larger independents to follow suit
    - Minnows not yet returned to the game
  
- Drilling/seismic activity expected to increase in 2019
  - Including in frontier areas
    - eg, Namibia & South Africa
  
- East Africa still sluggish
  
- Many government remain behind the curve
  - eg, Angola & Nigeria still resolving legislation issues dating to before downturn
    - Severely hampers E&P operations

# THANK YOU

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