

Ophir Energy  
Mid-Year Update  
August 2013





# Disclaimer



## THIS DOCUMENT IS CONFIDENTIAL

This document has been prepared and issued by and is the sole responsibility of Ophir Energy plc (the “**Company**”) and its subsidiaries for selected recipients. It comprises the written materials for a presentation to investors and/or industry professionals concerning the Company’s business activities. By attending this presentation and/or accepting a copy of this document, you agree to be bound by the following conditions and will be taken to have represented, warranted and undertaken that you have agreed to the following conditions. This presentation is strictly confidential and may not be copied, published, distributed or transmitted. If you do not accept these conditions, you should immediately destroy, delete or return this document.

The document is being supplied to you solely for your information and for use at the Company’s presentation to investors and/or industry professionals concerning the Company’s business activities. It is not an offer or invitation to subscribe for or purchase any securities and nothing contained herein shall form the basis of any contract or commitment whatsoever. This presentation does not constitute or form part of any offer or invitation to sell or issue, or any solicitation of any offer to purchase or subscribe for, any shares in the Company in any jurisdiction nor shall it or any part of it nor the fact of its distribution form the basis of, or be relied on in connection with, any contract commitment or investment decision in relation thereto nor does it constitute a recommendation regarding the securities of the Company. This presentation is for informational purposes only and may not be used for any other purposes. The distribution of this presentation in jurisdictions other than the United Kingdom may be restricted by law and therefore persons into whose possession this presentation comes should inform themselves about and observe such restrictions. Any failure to comply with these restrictions may constitute a violation of securities laws of any such jurisdictions.

This presentation and any materials distributed in connection with this presentation may include certain forward-looking statements, beliefs or opinions, including, without limitation, statements with respect to the Company’s business, financial condition, results of operations, plans, objectives and estimates, including, among others, resource estimates. These statements, which contain the words “anticipate”, “believe”, “intend”, “estimate”, “expect” and words of similar meaning, reflect the Directors’ beliefs and expectations and involve a number of risks and uncertainties because they relate to events and depend on circumstances that will occur in the future. No representation is made that any of these statements or forecasts will come to pass or that any forecast results will be achieved. There are a number of known and unknown risks, uncertainties and other factors that could cause actual results, performance and developments of the Company or industry results to differ materially from those expressed or implied by such forward looking statements, therefore, undue reliance should not be placed on forward looking statements. Past performance of the Company cannot be relied on as a guide to future performance. Forward-looking statements speak only as at the date of this presentation and the Company expressly disclaims any obligations or undertaking to release any update of, or revisions to, any forward-looking statements in this presentation, whether as a result of new information or future events. No statement in this presentation is intended to be a profit forecast or should be interpreted to mean that future earnings per share of the Company will necessarily match or exceed its historical published earnings per share. As a result, you are cautioned not to place any undue reliance on such forward-looking statements.

Certain data in this presentation was obtained from various external data sources, and the Company has not verified such data with independent sources. Accordingly, no representation or warranty, express or implied, is made and no reliance should be placed, on the fairness, accuracy, correctness, completeness or reliability of that data, and such data involves risks and uncertainties and is subject to change based on various factors.

No reliance may be placed for any purposes whatsoever on the information contained in this presentation or on its completeness. The Company and its members, directors, officers and employees are under no obligation to update or keep current information contained in this presentation, to correct any inaccuracies which may become apparent, or to publicly announce the result of any revision to the statements made herein except where they would be required to do so under applicable law, and any opinions expressed in them are subject to change without notice, whether as a result of new information or future events. No representation or warranty, express or implied, is given by the Company or any of its subsidiaries undertakings or affiliates or directors, officers or any other person as to the fairness, accuracy, correctness, completeness or reliability of the information or opinions contained in this presentation, nor have they independently verified such information, and any reliance you place thereon will be at your sole risk. Without prejudice to the foregoing, no liability whatsoever (in negligence or otherwise) for any loss howsoever arising, directly or indirectly, from any use of this presentation or its contents or otherwise arising in connection therewith is accepted by any such person in relation to such information.

# Summary: Year to date highlights

Adding recoverable resource in core assets, derisking forward prospect inventory

- ✓ Further drilling success in core portfolio, Blocks 1, 3 & 4 Tanzania
  - 4 wells completed, 2 DSTs performed, 3TCF gross added to resource base
- ✓ Equity raise of US\$838mn in March has secured the funding for drilling over the next 18 months
- ✓ Extension of the contract for the Deepsea Metro I drillship for East African exploration
- ✓ Progress made on commercialising our resource base in Tanzania and Equatorial Guinea
- ✓ Seismic interpretation across the portfolio helping confirm a number of key prospects
- X Unsuccessful Starfish-1 well in Ghana

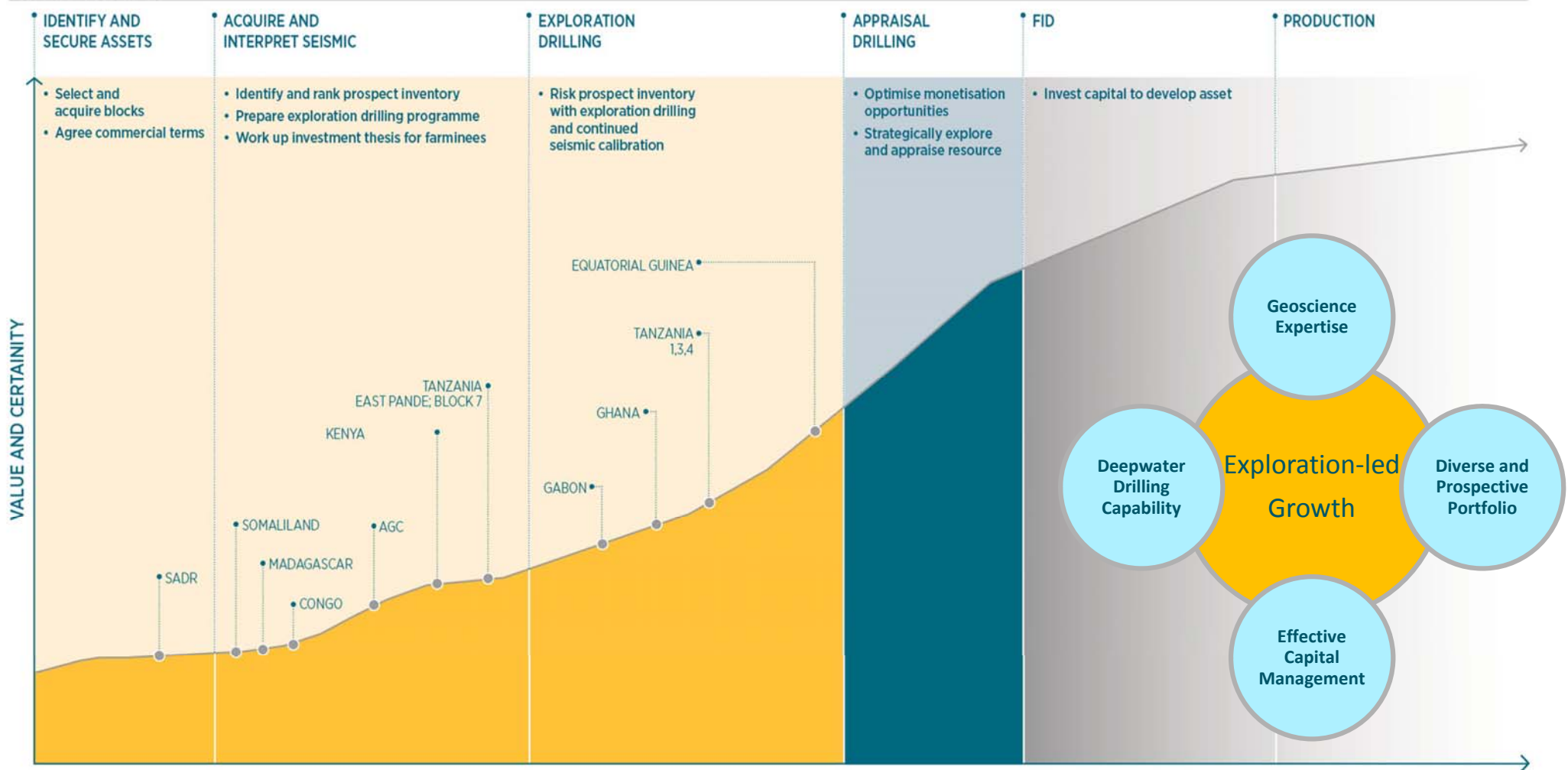
Forward programme focussed on high-impact exploration

- 10+ wells targeting almost 5.0 BBOE (unrisked)
- 8+ potentially operated
- 5+ with oil potential

# Business Model: Adding value through the drill bit



## OUR BUSINESS MODEL



# Discovered resource base and near-term upside

Over 200 MMBOE added to net 2C resource base in H1



## Contingent resource base grows

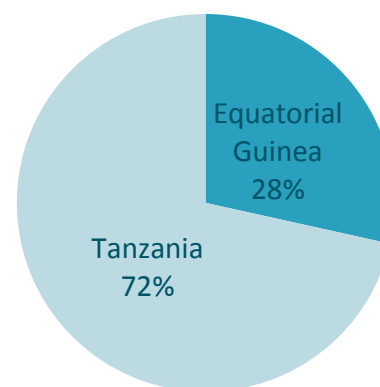
- Net contingent resources have increased to 1.22 BBOE<sup>1,2</sup> from 1.00 BBOE<sup>4</sup> at end 2012 due to further successful drilling in Tanzania

## Exploration upside in H2 2013 - 2014

- 10+ exploration and appraisal wells planned between now and the end of 2014
- Unrisked upside estimated at 4.7<sup>1,2,3</sup> BBOE (0.92 BBOE risked)
- Upside dominated by Mlinzi prospect in Block 7 Tanzania but Gabonese wells also high-impact
- Contingent resource base 100% gas but exposure to significant oil resource upside in Gabon, East Pande and possibly Kenya and Equatorial Guinea

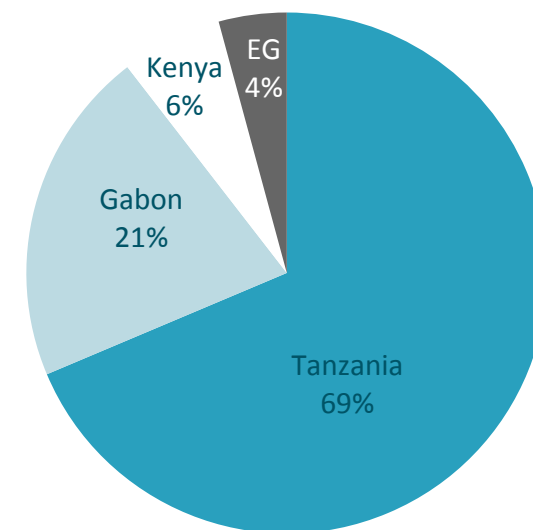
## Net Contingent Resource

Total = 1.22 BBOE <sup>1</sup>



## Net Unrisked Prospective Resource<sup>3</sup> Targeted H2 2013 – 2014

Total = 4.7 BBOE <sup>1,2,3</sup>



- Ophir Energy management estimates as of August 2013
- Ophir Energy working interest share before any Government back-in
- Target resource estimate subject to change post farm-downs
- Ophir Energy 2012 Annual Report

# 2013-2014 Drilling Programme<sup>1\*</sup>

10+ wells proposed targeting 920 MMBOE of net risked resource (4.7 BBOE net unrisked)<sup>2,4</sup>



| Country | Block Name | Well Name               | Ophir                   | Pmean (MMBOE) <sup>4</sup> |      | CoS (%) | 2013 |    | 2014 |    |    |    |
|---------|------------|-------------------------|-------------------------|----------------------------|------|---------|------|----|------|----|----|----|
|         |            |                         |                         | Gross                      | Net  |         | Q3   | Q4 | Q1   | Q2 | Q3 | Q4 |
|         | Tanzania   | Block 4                 | Pweza Appraisal/Test    | 40%                        | -    | -       | -    |    |      |    |    |    |
|         | Tanzania   | Block 1                 | Mzia-3                  | 40%                        | -    | -       | -    |    |      |    |    |    |
|         | Tanzania   | Block 7 <sup>3</sup>    | Mlinzi <sup>6</sup>     | 80%                        | 3500 | 2800    | 20%  |    |      |    |    |    |
|         | Tanzania   | Block 1                 | Terrace TBD             | 40%                        | 467  | 187     | 15%  |    |      |    |    |    |
|         | Gabon      | Ntsina                  | Padouck Deep            | 50%                        | 990  | 495     | 15%  |    |      |    |    |    |
|         | Tanzania   | East Pande <sup>3</sup> | Tende                   | 70%                        | 379  | 265     | 15%  |    |      |    |    |    |
|         | Tanzania   | Block 1                 | Mzia-4                  | 40%                        | -    | -       | -    |    |      |    |    |    |
|         | Gabon      | Gnondo <sup>3</sup>     | Affanga Deep            | 100%                       | 317  | 317     | 20%  |    |      |    |    |    |
|         | Gabon      | Mbeli                   | Okala                   | 50%                        | 354  | 177     | 23%  |    |      |    |    |    |
|         | EG         | Block R3                | EG Phase 1 <sup>5</sup> | 80%                        | 250  | 200     | 35%  |    |      |    |    |    |
|         | Kenya      | Block L9 <sup>3</sup>   | Kenya-1                 | 90%                        | 330  | 297     | 15%  |    |      |    |    |    |

## Multiple Campaigns

### Tanzania 1-3-4: Non-operated

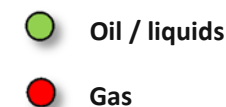
- BG-operated
- Appraisal and DSTs in Blocks 1 & 4
- Further exploration planned including Outboard Block 1

### East Africa: Operated

- 3 wells
- High-impact Mlinzi prospect, Block 7 Tanzania

### West Africa: Operated

- 3-6 wells
- Gabon pre salt play key focus



1. Programme is subject to change (prospect, order and timing)
2. Target resource estimate subject to change post farm-downs
3. Pre-Drill Farm-out Planned
4. Ophir Energy management estimates as of August 2013
5. Includes appraisal drilling and DSTs
6. Mlinzi-1 will target c.10TCF but success would potentially derisk c.21 TCF

\* All numbers are pre-government back-in unless otherwise stated

# Blocks 1, 3 & 4: 2013 Exploration and Appraisal Programme



Firming up existing discoveries, adding resource and derisking commerciality

## Programme delivered in H1

- 15.0 TCF<sup>1</sup> mean recoverable resource discovered to date after successful Jodari and Mzia appraisal wells and Ngisi and Mkizi discoveries
- Strong flow tests with Jodari DST (70 mmscf/d constrained) and Mzia DST (57 mmscf/d constrained)
- Significant unrisks upside remains in the prospect inventory >50 TCF<sup>1</sup>

## Pweza Field Appraisal – Q3 2013

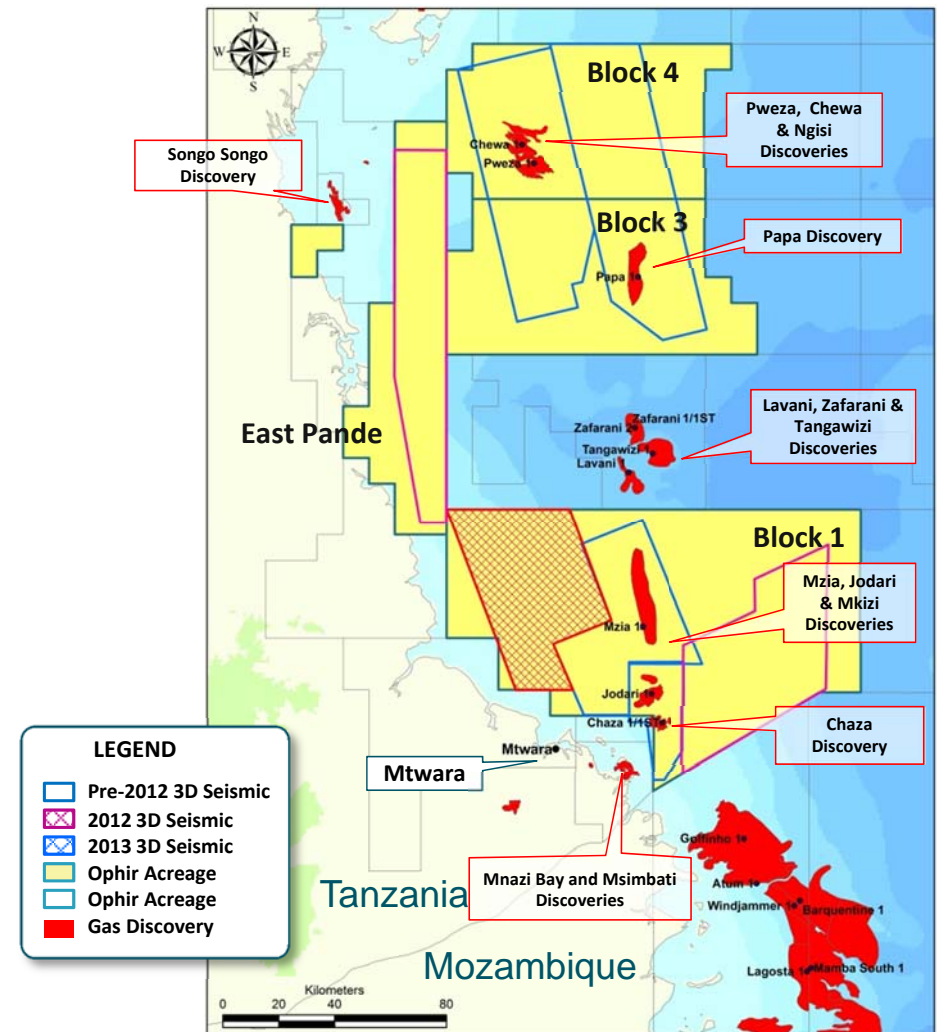
- 2 well programme looking to firm up 1.7 TCF<sup>1</sup> discovered to date
- First flow test on Block 4 discoveries

## Mzia Field Appraisal – Q3/Q4 2013

- 1-2 well programme to test upside in the northern part of the field to the 4.5 TCF<sup>1</sup> discovered to date

## Forward exploration programme – Q4 2013 and into 2014

- Discussions ongoing with BG over the forward exploration and appraisal programme
- Block 1 Outboard test being considered, likely to be a Terrace well
- Significant potential being reviewed Inboard on Block 1 with recent 3D seismic survey being interpreted, possible target for 2014 drilling



1. Ophir Energy management estimates as of August 2013





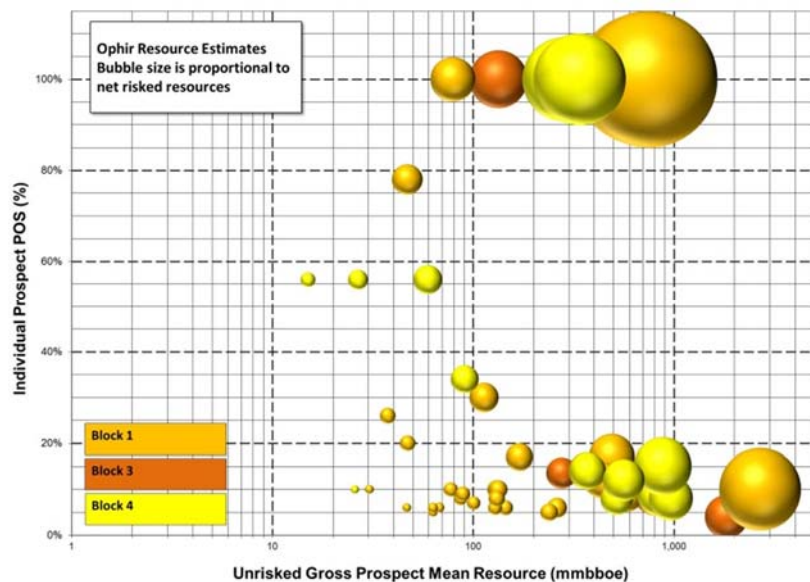
# Block 1 Outboard/Terrace Exploration

## Targets under review

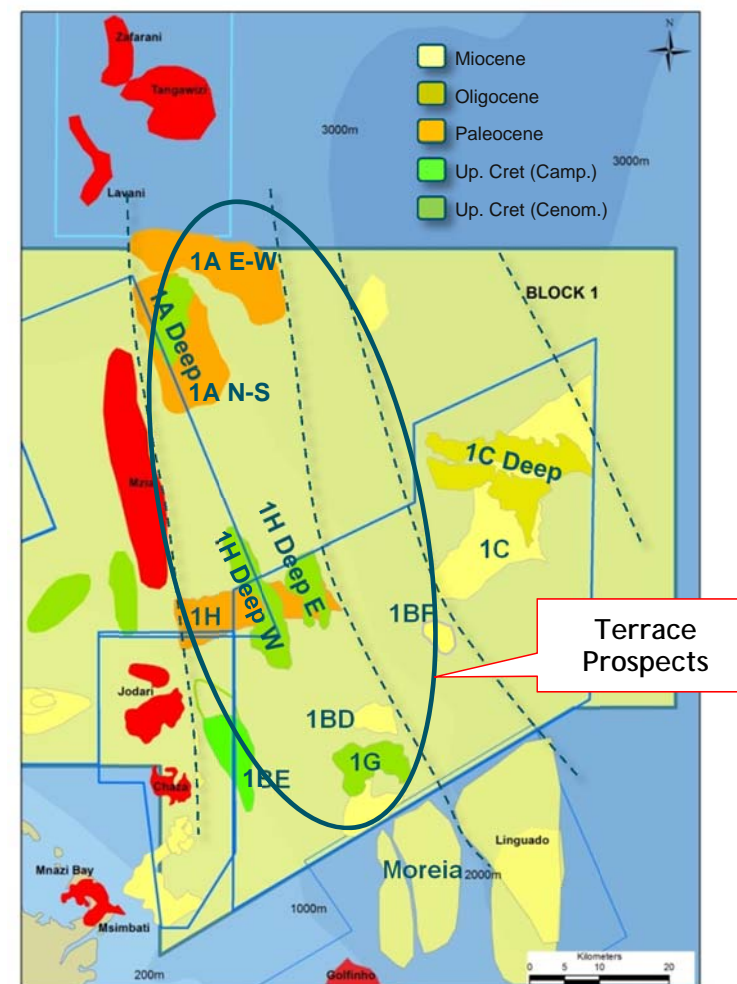


- Non-operated: 40% WI
- Ophir and BG continue to review the potential of the Outboard/Terrace prospects in Block 1, potential for a well in Q1 2014
- Number of prospects have been mapped
  - 1C prospect remains significant but has come down in size to 7.5-12.0 TCF<sup>1</sup> (Pmean-P10), not been derisked with final 3D interpretation but remains a viable prospect
  - Targets such as 1H and 1H Deep E/W being considered for drilling, location of next well to be finalised

**Bks 1,3&4 remaining unrisked resource potential...>50TCF<sup>1</sup>**



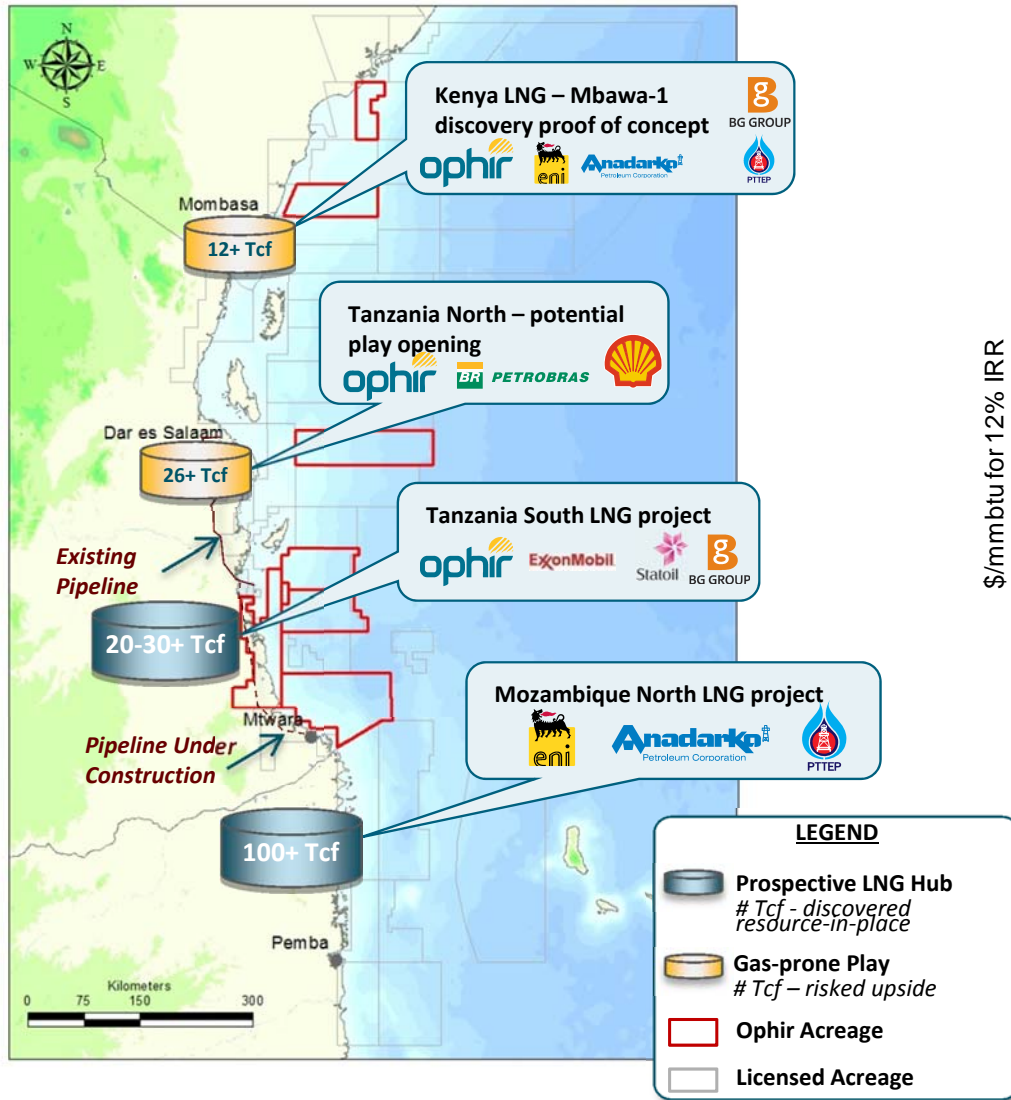
Map of Terrace and Outboard Prospects



1. Ophir Management Estimate as of August 2013

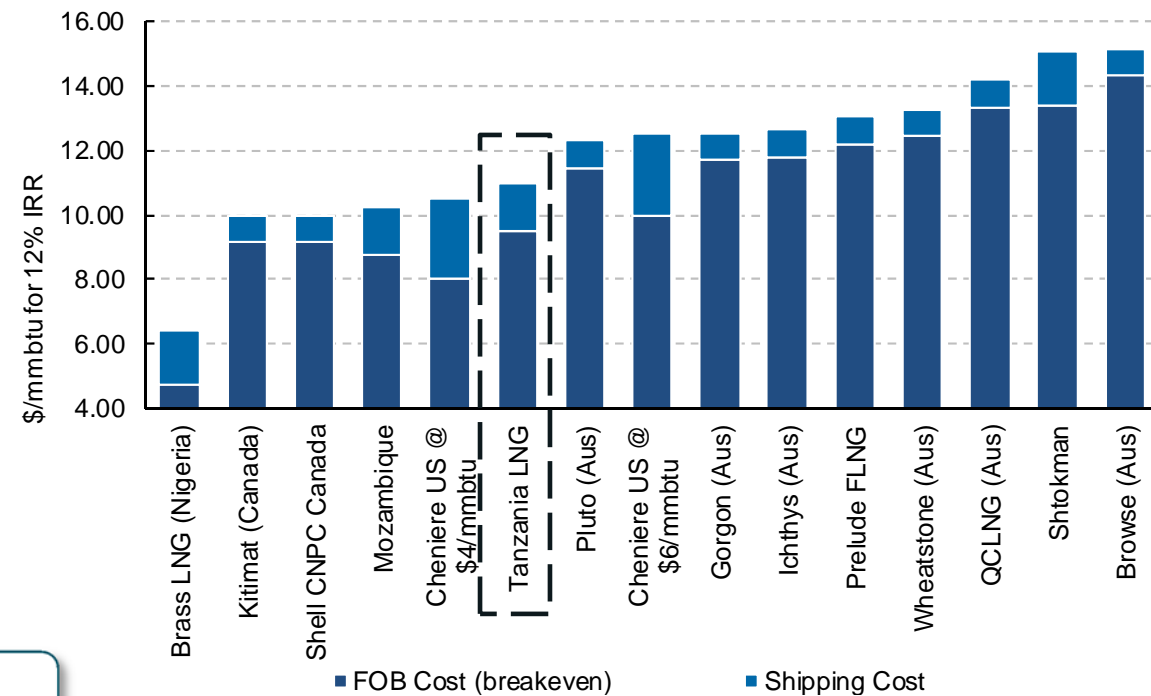


# East African Gas: World Scale Resource



East African gas is cost-competitive on a Global scale

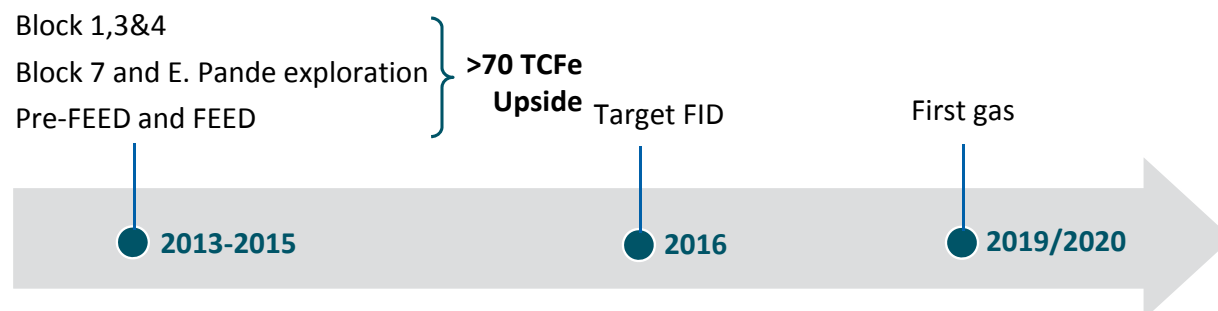
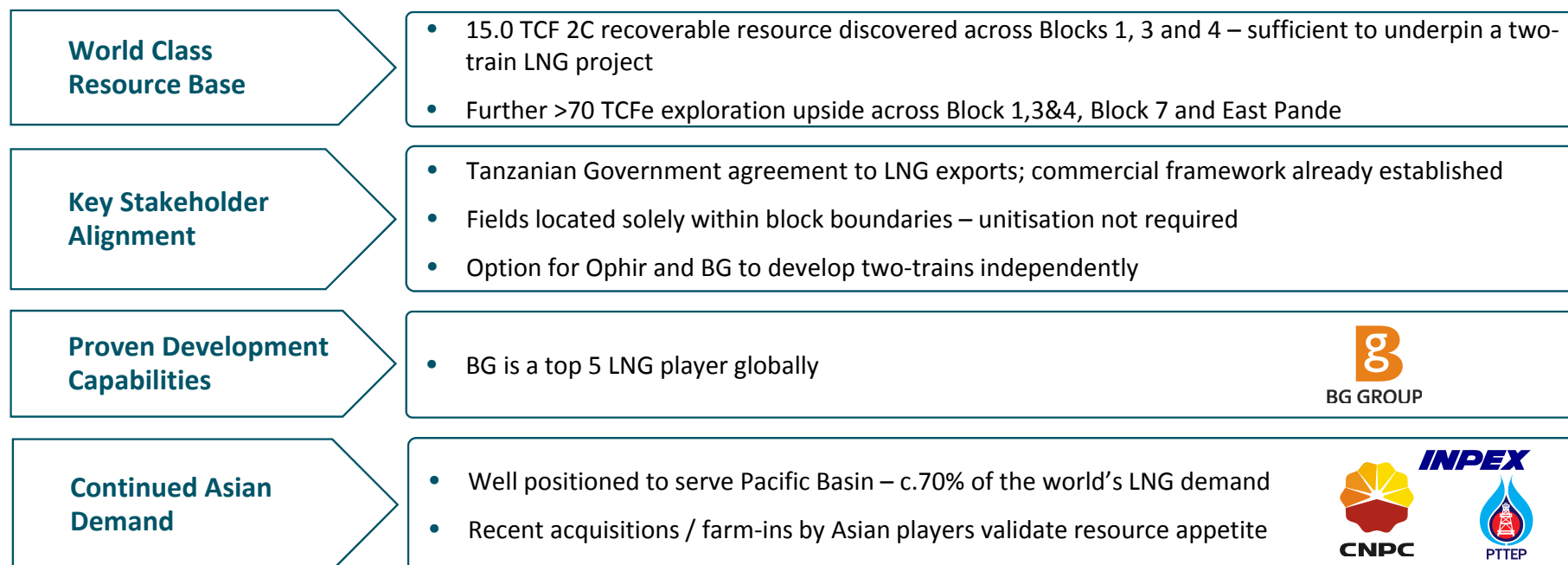
LNG prices (Japan) required to deliver 12% IRR



Source: Wood Mackenzie, Deutsche Bank research, Ophir estimates

# Tanzania LNG – Positioned for Success

World scale resource with partner alignment



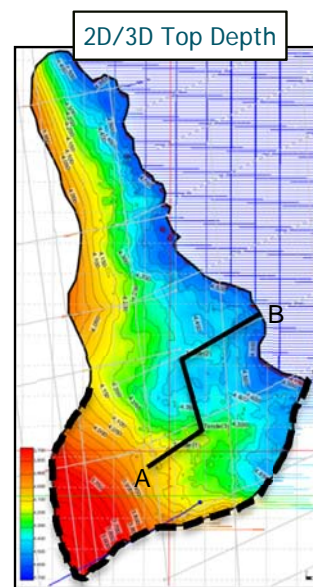
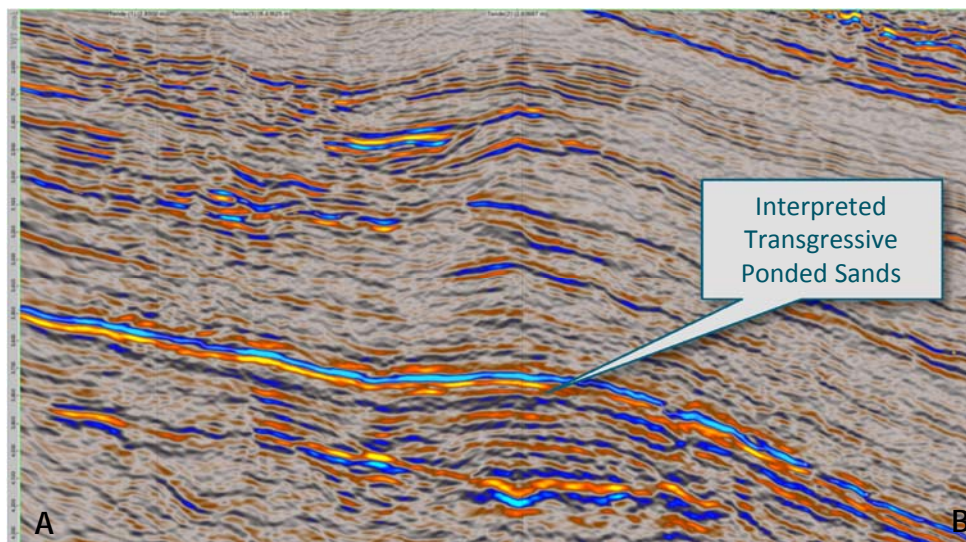


# East Pande: Potential for liquids & gas

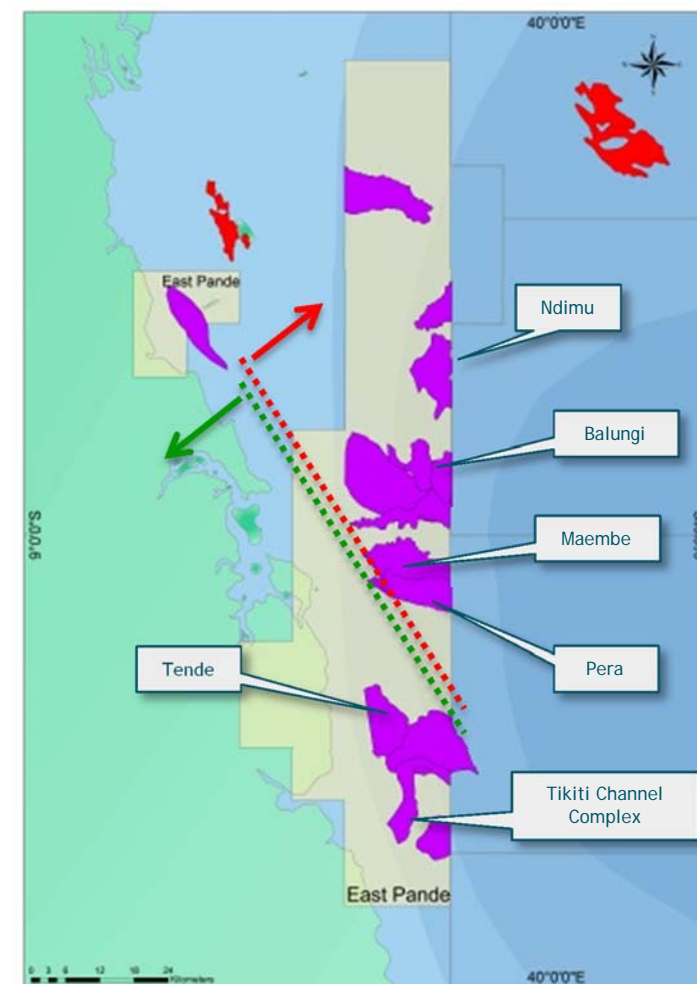
## Likely Landfall of Blocks 1, 3 & 4 LNG Development

- Operated: 70% WI
- Series of prospects identified in Tertiary and Cretaceous-aged sediments
- First drilling target potentially Tende:
  - Cretaceous aged target made up of transgressive ponded sheet sands
  - Located in an oil-mature, oil-prone area (abundant nearby oil seeps and shows) but still seen as 70%:30% probability gas vs oil
  - Potential to target the shallower Tikiti Channel Complex play
  - Gross mean estimate of 379MMB for oil or 2.4 TCF for gas (net 70%) at 15% COS<sup>1</sup>.

### Tende Seismic Cross Line



### East Pande Prospects





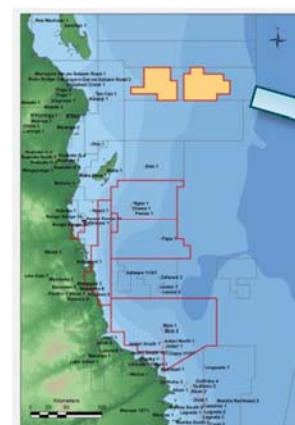


# Block 7: Mlinzi and Ngao prospects

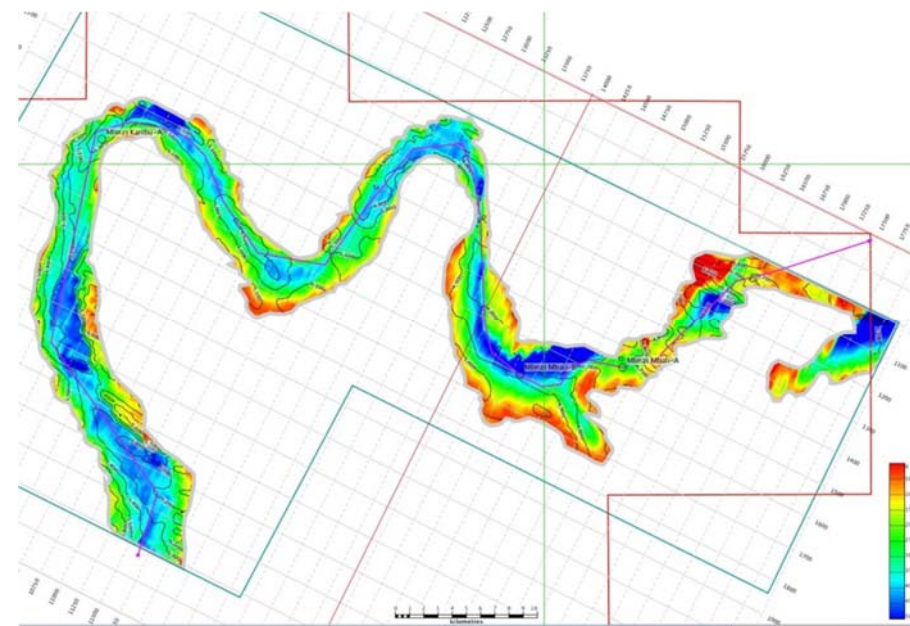
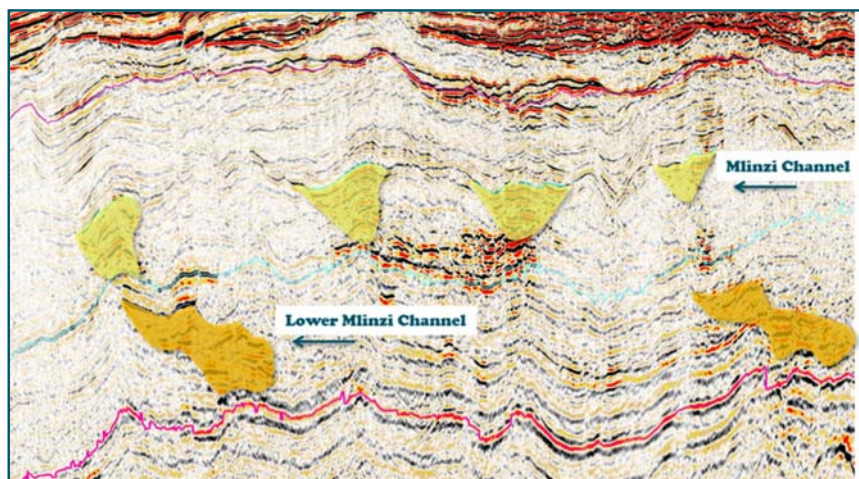
Block potential >25TCF- Multi-train LNG potential



- Operated: 80% WI
- Mlinzi prospect, extensive Cretaceous-aged channel encased in shale
- Gross mean resource estimate of c.21 TCF at 20% COS<sup>1</sup> made up of main Mlinzi channel complex and deeper secondary targets
- First well will target c.10 TCF of resource potential, success would significantly derisk remaining upside
- Inboard Ngao prospect potential >5.0 TCF<sup>1</sup>



Block 7 location

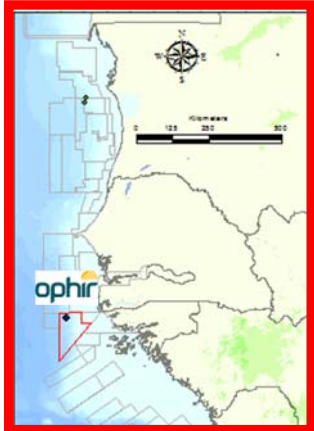


1. Ophir Management Estimate as of August 2013

# West Africa Exploration Focus 2010-Present Day

## 7 Key Focus areas

### Central Atlantic Margin



2011: Ophir drills Kora-1

### Equatorial Margins and Transform Margin



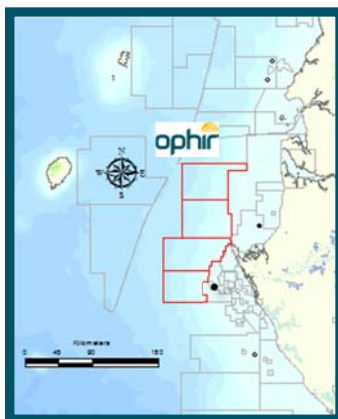
Building on the success of Jubilee, Anadarko pushes the Equatorial Margin play into Sierra Leone (Jupiter and Mercury discoveries in 2011)

### Niger Delta



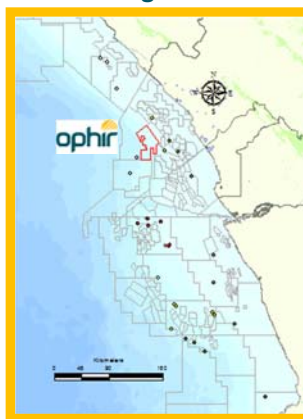
Extending the limits of the prolific Niger Delta: Ophir drills discoveries at Fortuna West, Fortuna East and Tonel-1 in 2012

### Gabon: Pre and Post Salt



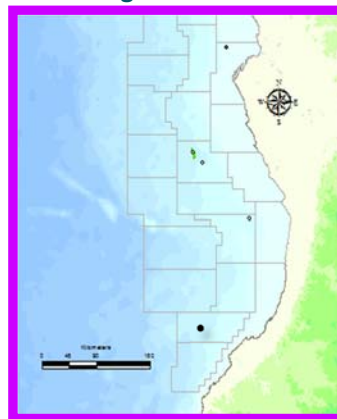
2012: MPDC drills successful Ogooué Delta Play. Pre salt Focus in 2013

### Congo Fan



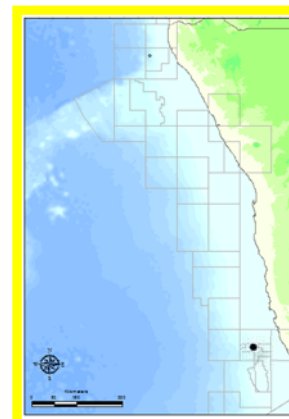
Extending the limits of the prolific Congo Fan: Total makes successful discovery at Nkaba Marine-1 in 2011

### Angola Pre Salt



Exploration success for Cobalt and Maersk in the Pre Salt play of Angola

### Namibia



Chariot, BP, Petrobras and HRT are active drilling

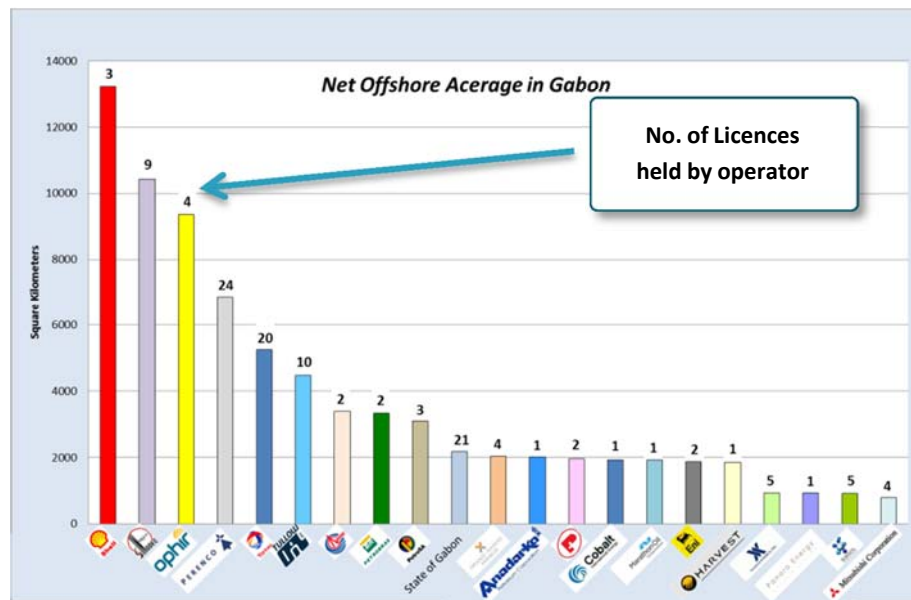




# Gabon: Offshore Activity

West Africa pre salt focus shifts north in 2013

- Ophir holds the third largest net acreage position offshore Gabon
- Following pre salt success in Angola activity in the pre salt offshore Gabon is starting to ramp up
- 5 Operators plan to drill the pre salt in 2013/14 (Ophir, Total, VAALCO, Perenco and Harvest). The post salt will also have additional exploration tests following exploration success by MPDC



Source: IHS

North Gabon Basin

South Gabon Basin

1) **Anadarko**: Agali  
1 exploration well pending

2) **Tullow**: Kiarsseny Marin  
licence, to drill Perroquet

3) **Ophir**: Mbeli/Ntsina  
Exploration well planned  
2014

4) **ENI**: D3 and D4 Blocks  
To drill Raie North 1  
exploration well

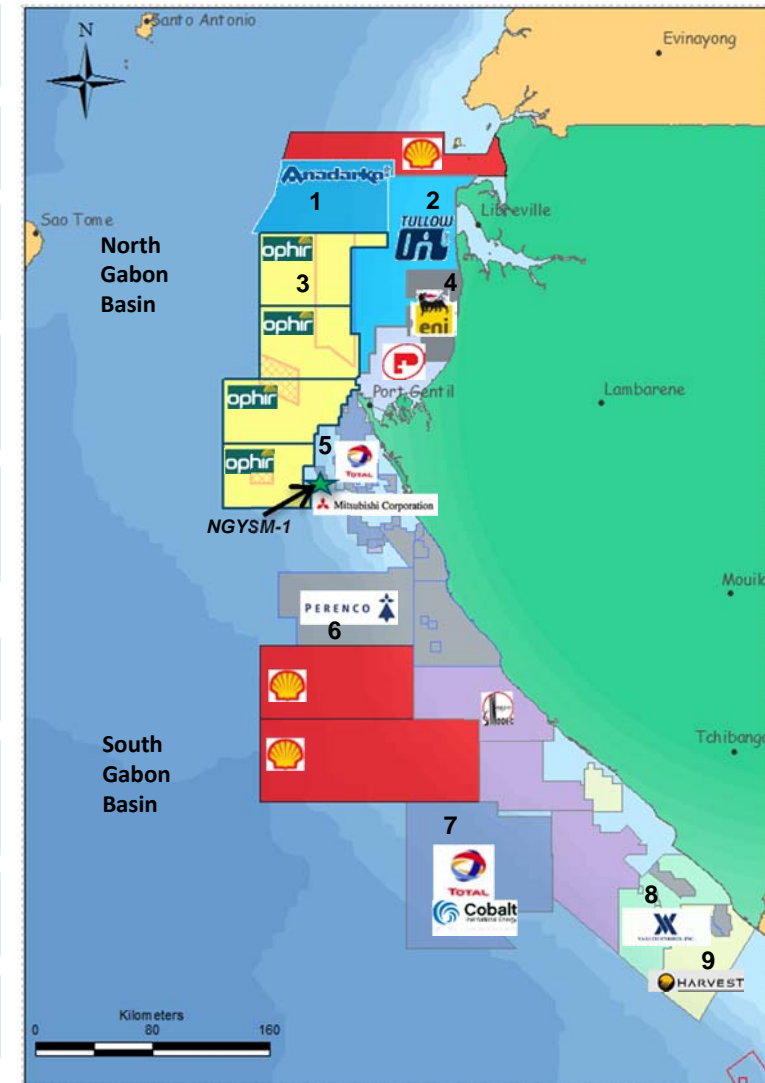
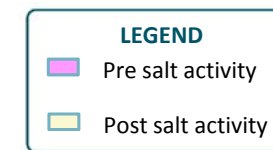
5) **MPDC**: Nguma Marin  
Successful drilling of  
NGYSM-1 wildcat

6) **Perenco**: Arouwe drilling  
planned for 2014

7) **Total (Cobalt)**: Diaba  
Exploration Campaign  
underway

8) **VAALCO**: Ovoka  
exploration well drilling

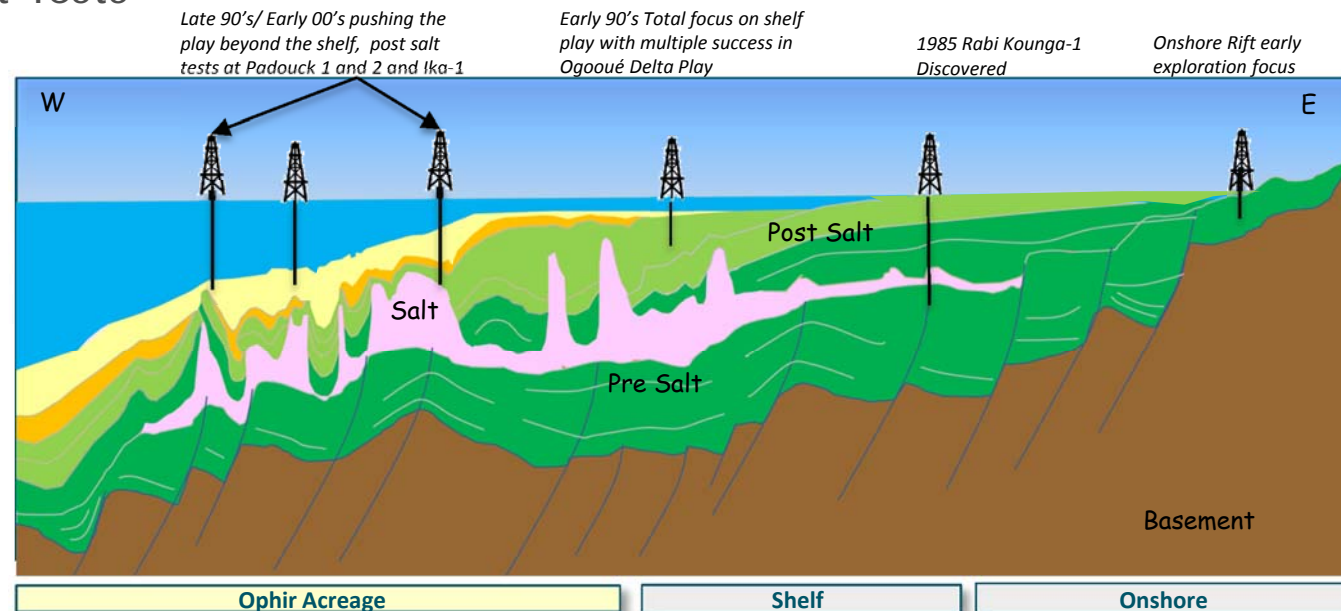
9) **Harvest**: Dussafu Marin  
Tortue drilling successful





# Gabon: Pre and Post Salt Targets

## Play Diversity: Multiple Independent Tests



### Play 3: The Deep-water Play

- Multiple post salt marine source rocks proven in basin
- New thermal modelling based on well results from the Ophir 2008 drill campaign proves mature source rock in the outboard area.
- Sandstone reservoirs proven on the shelf and observed in the outboard Afo 3D
- 3D dataset currently being processed

### Play 2: Ogooué Delta Play

- Post Salt well (Affanga Deep) planned for H1 2014.
- Proven delta play on shelf
- Multiple post salt marine source rocks proven in the basin.
- Numerous structural and stratigraphic plays identified in Manga and Gondo

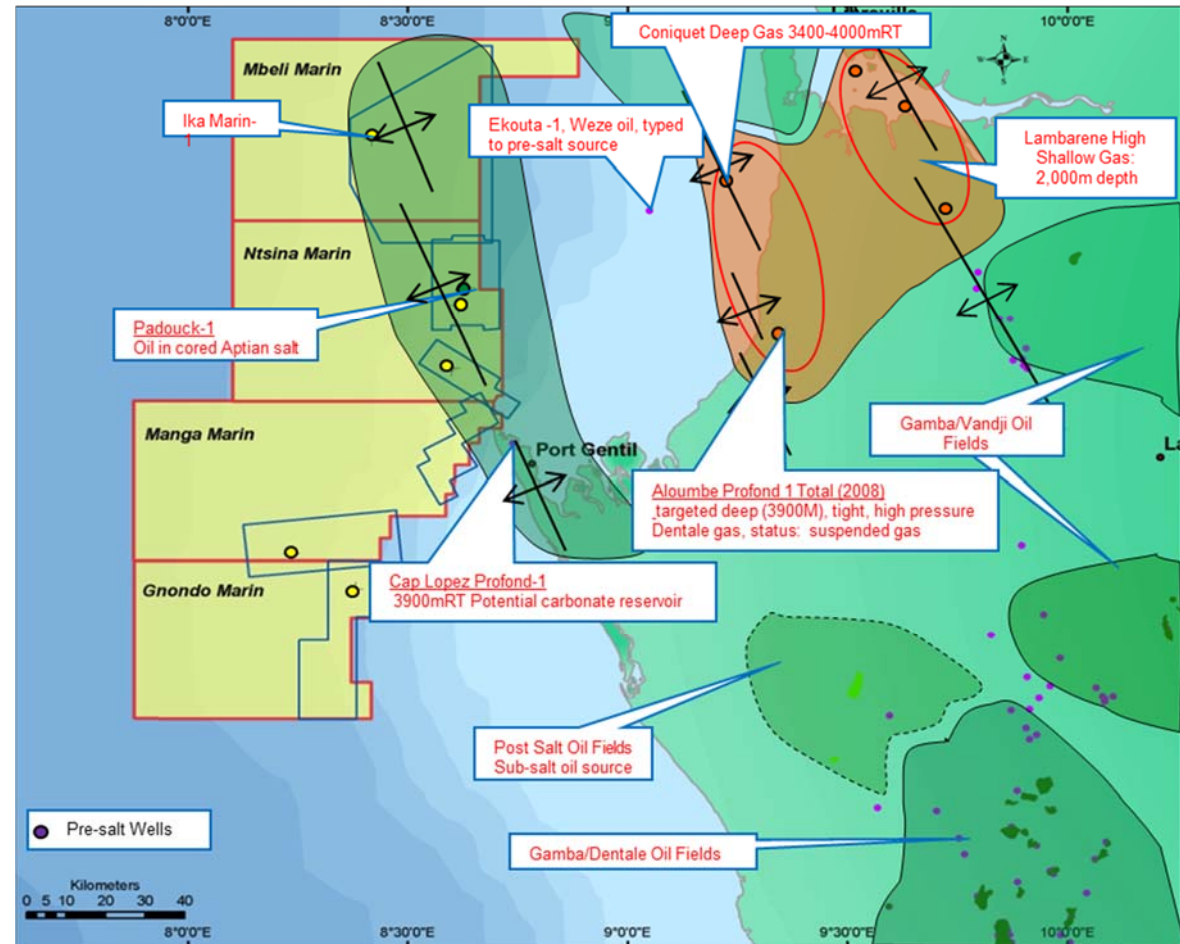
### Play 1: Pre Salt

- First pre salt well planned for H1 2014
- Proven pre salt play onshore
- Vintage offshore 3Ds lacked the seismic technology to image below the salt
- Lacustrine Source Rocks similar to Angola and Brazil
- Numerous large structures observed on new Ophir 3D
- Coarse clastic geometries identified on seismic, high likelihood of clastic reservoirs.

# Gabon: North Gabon Basin

## Regional Extent of Pre-Salt Prospectivity

- Pre-salt oil discovery trends are likely to extend into Ntsina/Mbeli.
- Magnetic and seismic data supports NW-SE trending basement high through Ntsina/Mbeli providing a regional focus for pre-salt migrating hydrocarbons.
- Seismic data indicates the presence of large relief, tilted fault blocks below a thick salt section.
- Deep wells drilled inboard confirm the existence of Coniquet/Gamba reservoir.
- Large prospects mapped. Pre-salt, drill ready prospects include
  - Padouck Deep 990 MMBOE<sup>1</sup>
  - Northern Cluster 885 MMBOE<sup>1</sup>
  - Okala 354 MMBOE<sup>1</sup>
  - Zingana 291 MMBOE<sup>1</sup>
- CoS varies between 15-23%<sup>1</sup>





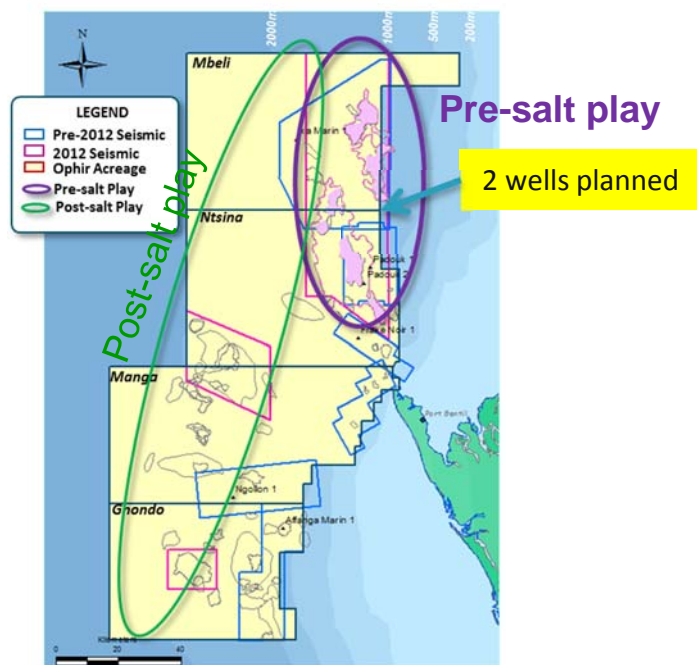


# Gabon: Padouck Deep Pre salt Prospect

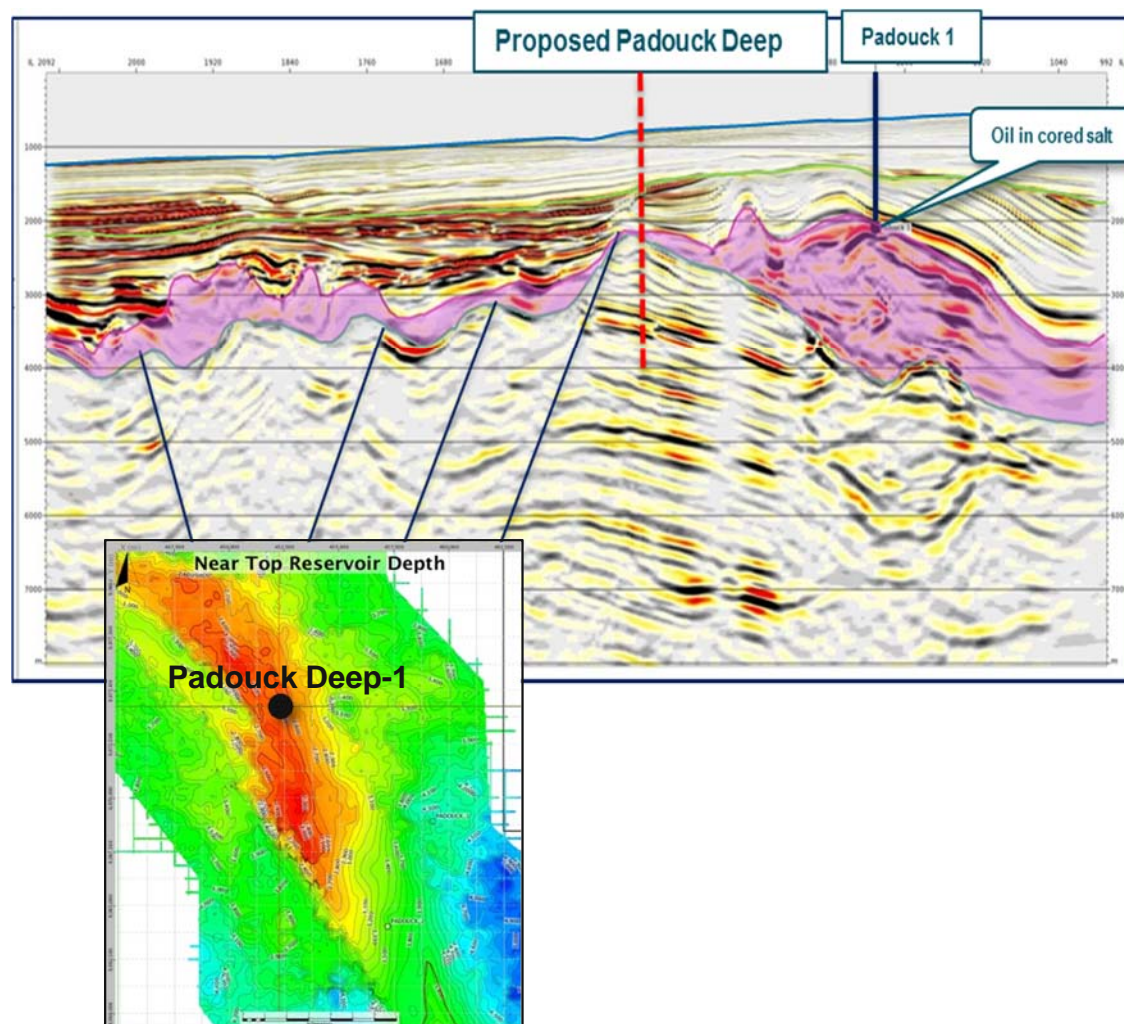


Testing the mega pre salt structure

- Operated: 50% WI
- Series of pre salt prospects well imaged by 3D seismic
- Padouck Deep:
  - Gamba and Coniquet/Dentale sands
  - Water Depth: 850 m; Target Depth: 2,300 – 3,000m
- Gross mean estimate of 990 MMBOE (net 495 MMBOE) at 15% COS<sup>1</sup>. Trap effectiveness the key risk



Indicative well location



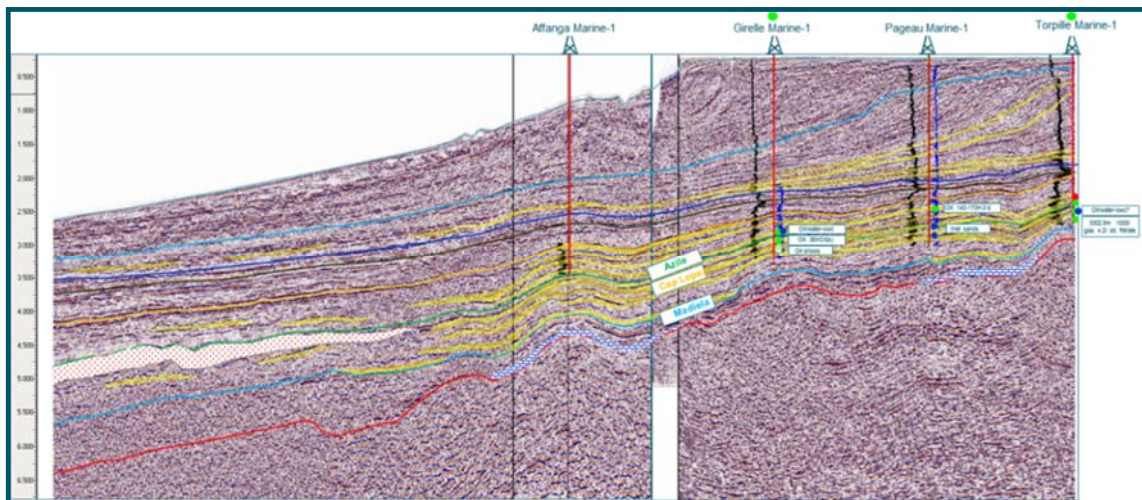




# Gabon: Affanga Deep Prospect

Potential for hub developments

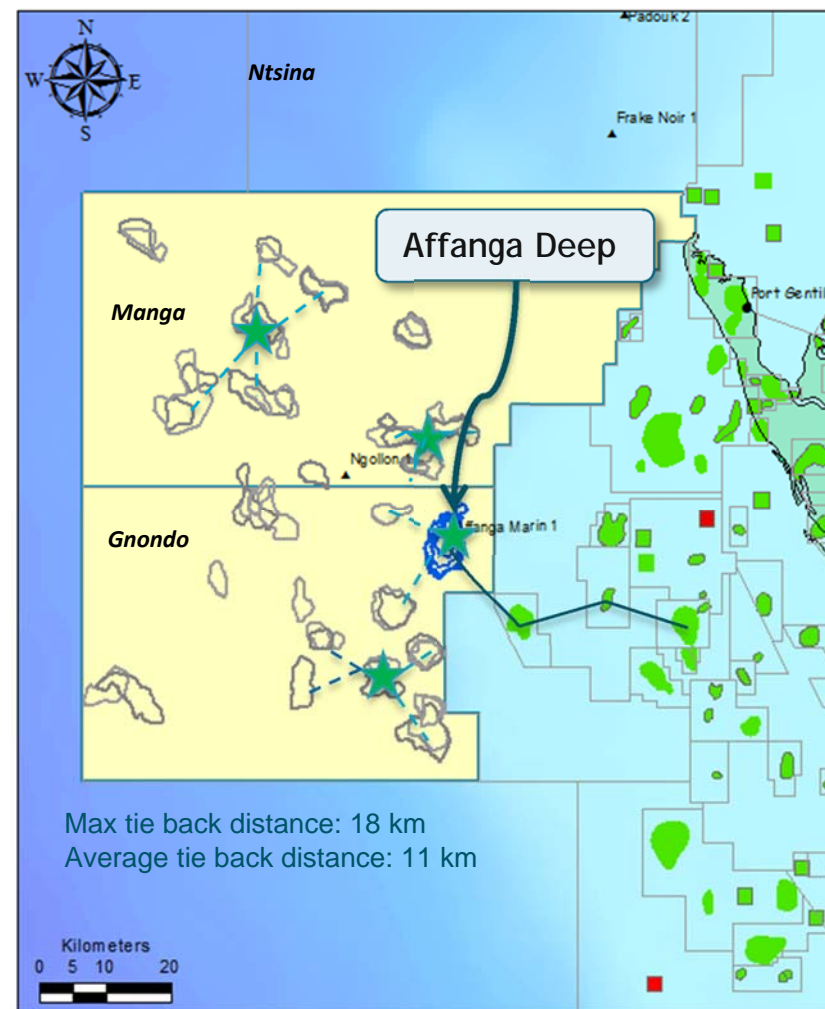
- Operated: 100% WI
- Affanga Deep-1 will test Cretaceous targets not reached by Marathon Affanga-1 well
- Largest structure in the play with several stacked reservoirs
- Gross mean estimate of 317 MMBOE at 20% COS<sup>1</sup>.
- Numerous follow-on prospects mapped which could lead to up to 4 hub cluster developments
- Total play potential across Manga and Gnondo prospects is c1.0 BBOE<sup>1</sup>



1. Ophir Management Estimate as of August 2013



## Exploration Prospects – 4 possible hubs

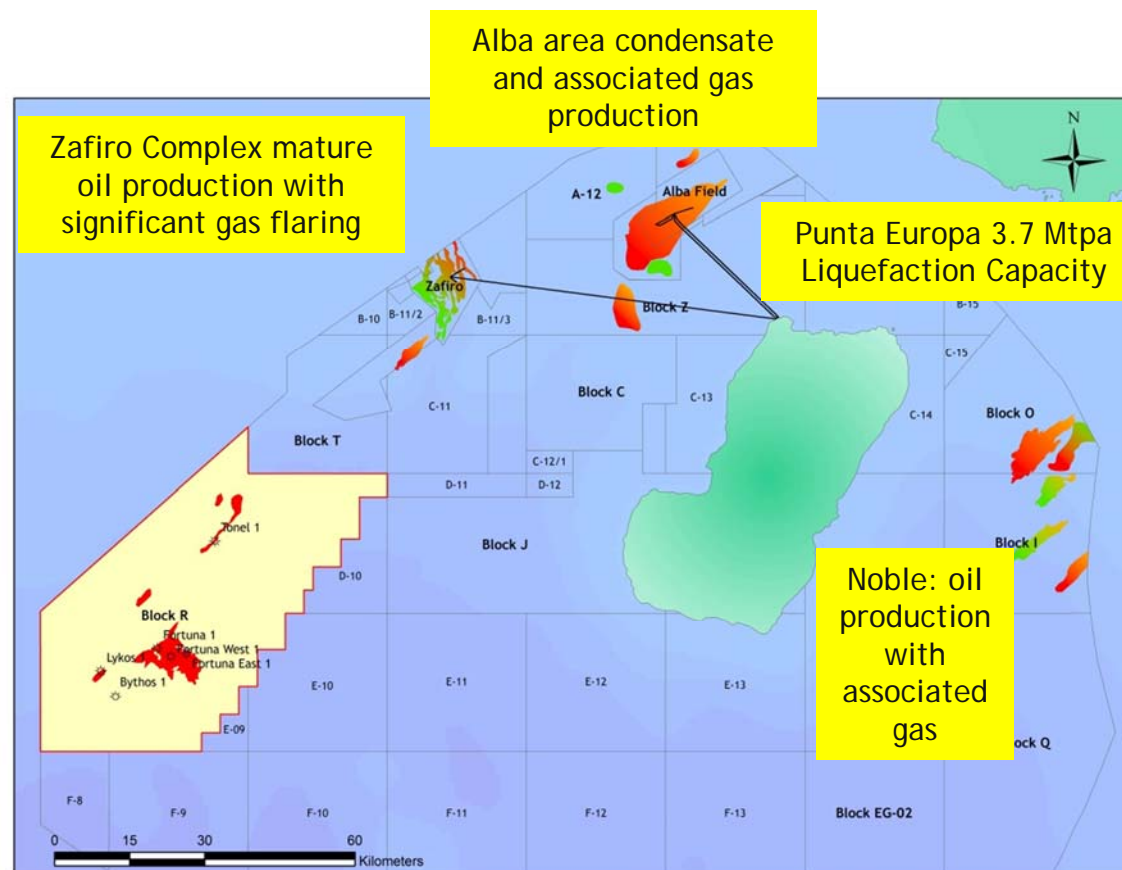




# Equatorial Guinea - Block R



- Operated: 80% WI
- Seven gas discoveries on-block
- Gross mean 2C contingent resource discovered of c.2.6 TCF<sup>1</sup>
- Potential to explore for oil at incremental cost
- Exploration and Appraisal campaign planned in 2014<sup>2</sup>
- Potential for First gas in 2017 commercialisation focussed on high value markets
- Progress being made with Government over selection of preferred development concept



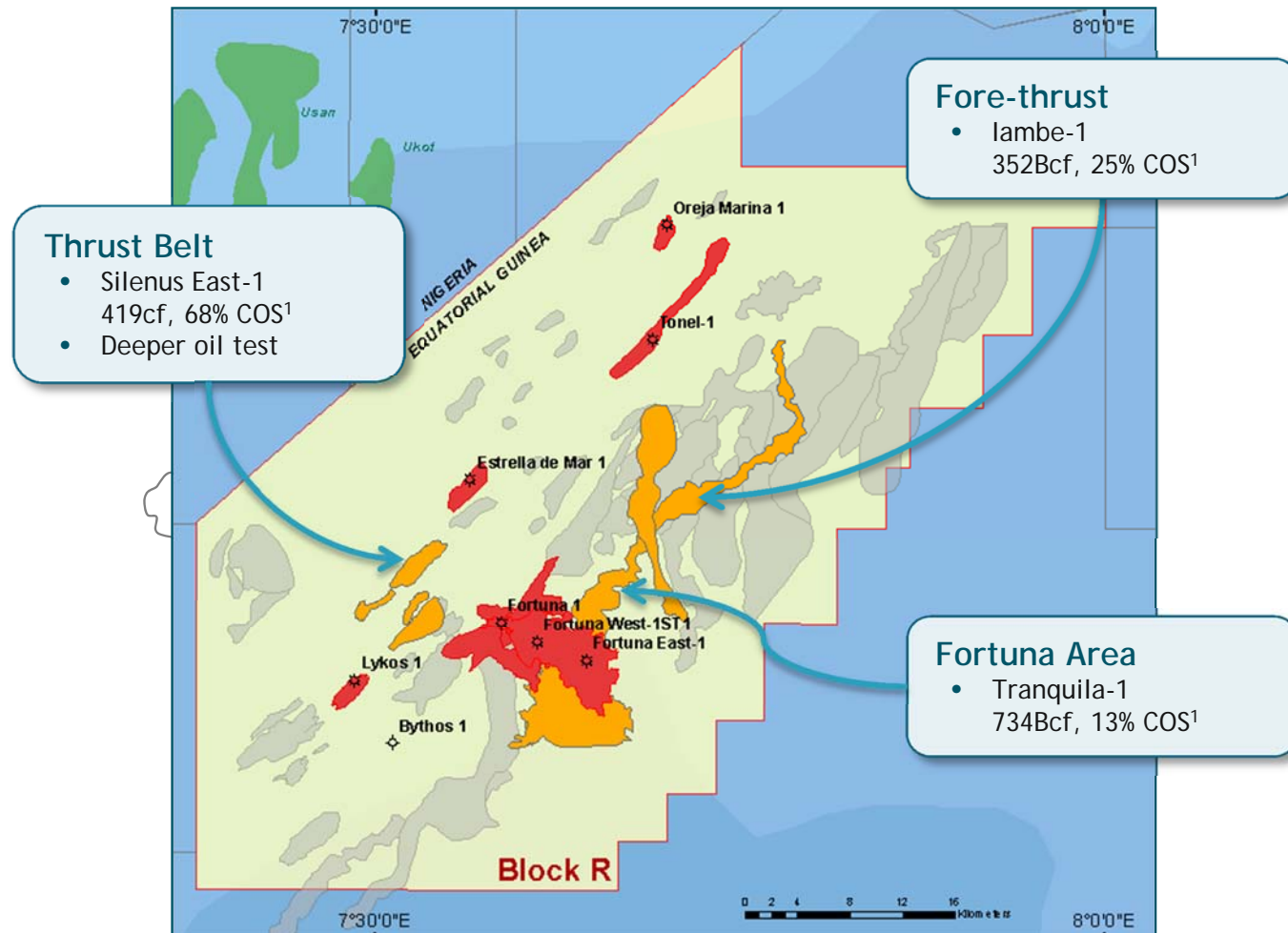
1. Ophir Management Estimate as of August 2013, last CPR 2.3TCF  
2. Subject to Farm-out

# EG: Remaining Prospectivity

Over 7Tcf of potential resources remaining in the portfolio with deeper oil potential

- Three key biogenic gas play types have been identified:
  1. The Thrust Belt, which has four discoveries in Tonel, Lykos, Estrella de Mar and Oreja Maina;
  2. The Fortuna Canyon, which has three discoveries in the Fortuna Complex, Viscata and Belli;
  3. And the Forethrust, which has not yet been tested.
- In addition to this, evidence of a thermogenic front has been recognised, giving rise to a deeper liquids play.
- Over 80% of the block is covered with good quality 3D seismic
- Most likely targets in 2014 include Silenus East (Thrust Belt), lambe (Fore-thrust) and Tranquila (Fortuna Area)

## Possible 2014 drilling candidates





# EGLNG-R: A clearer path to high value markets



Post 2012 drilling programme: Dedicated LNG project from Block R now viable

## **Option 1: EG LNG-R Dedicated new train at Punta Europa**

- Accelerated onshore development
  - Fewer stakeholders = more control of pace by Ophir
  - Feasibility study and concept selection studies underway
- More attractive to potential JV partners including LNG developers
- Optional future add-on of gas from other blocks
- Lower costs than greenfield LNG development projects (~65-70% less)

## **Option 2: FLNG Floating LNG train**

- Block R is ideal for Floating LNG (FLNG) with dry gas & calm seas
- Allows for flexible and in-time field development
- New technology application but more projects becoming mainstream
- Ophir assessing options of working with suitable technology partners
- Initial FLNG feasibility study commissioned by Ophir confirms potential to Government
- Potentially faster route to market at lower cost

# Outlook



- High impact drilling planned over the next 12 months
  - Block 7 (Mlinzi), enough potential for a 2<sup>nd</sup> LNG hub in Tanzania
  - Gabon, pre salt and Ogooué Delta play
  - East Pande, possible Tanzanian oil play
  - Blocks 1, 3 & 4, further exploration planned, Outboard/Terrace Block 1 likely to be tested
- Portfolio management ongoing
- Continuing progress on commercialising resources in Tanzania and Equatorial Guinea
- New Ventures team actively looking to deepen the portfolio
- Well financed to deliver the forward programme

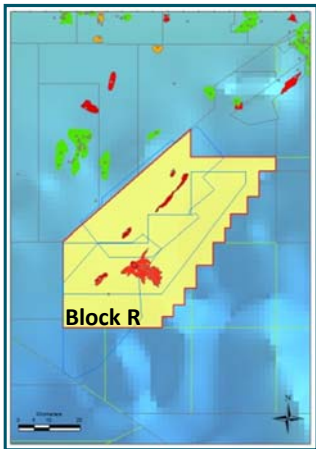
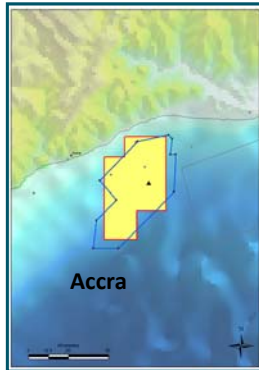
# Leading African Deepwater Portfolio

Acreage totalling >100,000 km<sup>2</sup>



## Ghana

- Accra – 20%

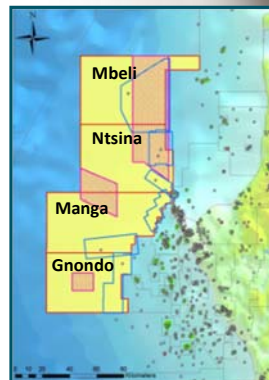


## Equatorial Guinea

- R - 80%

## Gabon

- Mbeli - 50%
- Ntsina - 50%
- Manga - 100%
- Gnondo - 100%



AGC

SADR

Ghana

EG

Gabon

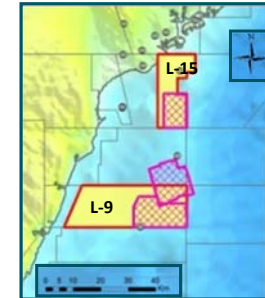
Congo

Somaliland

Kenya

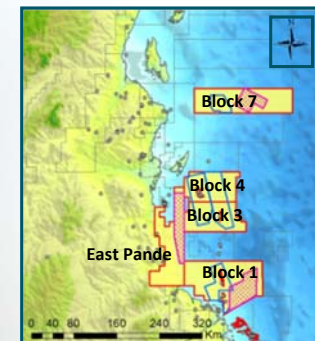
Tanzania

Madagascar



## Kenya

- L15 - 90%
- L9 - 90%<sup>1</sup>



## Tanzania

- Blocks 1,3&4 - 40%
- Block 7 - 80%
- East Pande – 70%

1. FAR & Avana's interests subject to Gov't approval and entry to the JOA/meeting obligations