NAMCOR

NATIONAL PETROLEUM CORPORATION OF NAMIBIA (PTY) LTD

Partnering with NAMCOR to Unlock Hydrocarbon Potential Offshore Namibia

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Geoscientist





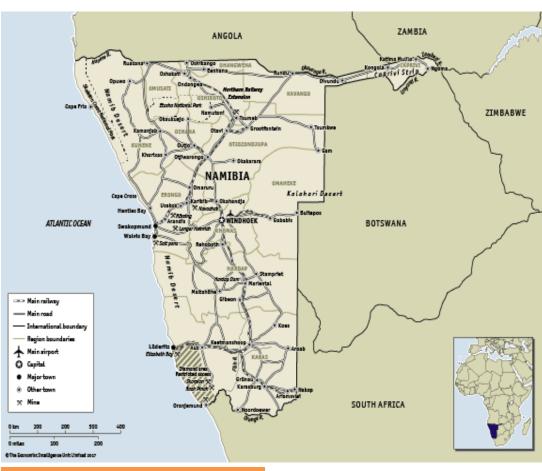


Outline

- Overview
- Sedimentary Basin
- Exploration Licenses
- Potential Source Rocks
- Petroleum Systems and Prospectivity
- Exploration Database
- Exploration Opportunities
- Ongoing Projects
- Conclusions



Namibia Overview



Taxation on oil production

- 5% state royalty
- 35% corporate tax
- No capital gain
- IRR>15%-APT

- Democratic state with a multi-party system.
- President head of state.
- Legally arms; Executive, Judiciary and Legislature powers

<u>Stats</u>

- Population: 2.5m (2016 IMF actual)
- Land Area: 824,269 sq km
- ⁹ GDP per capita: 4,140.46
- USD (2016)
- GDP growth rate: 1.2% annual change (2016)

NAMCOR – Structure

Legally enacted entity established under the Petroleum (Exploration and Production) Act of 1991

Main functions:

- Ensuring optimum exploitation of Namibia's petroleum resources and meaningful Namibian participation in petroleum-related activities
- Marketing and Promotion
- Technical Advisory Services to the Ministry of Mines & Energy

 Government of the Republic of Namibia

 Ministry of Mines and Energy

 National Petroleum Corporation of Namibia (Pty) Ltd "NAMCOR"

 Upstream
 Downstream

 Exploration
 Supply and Trading

 Development
 Date of Namibia

Ownership structure of NAMCOR

Technical Adviser Commercial and

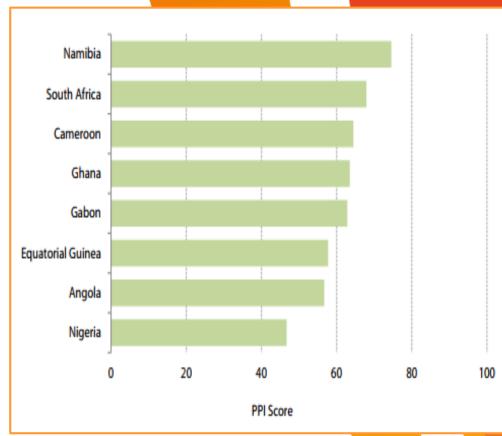
Marketing

NAMIBIA – Global perspective

Country to invest, work and live

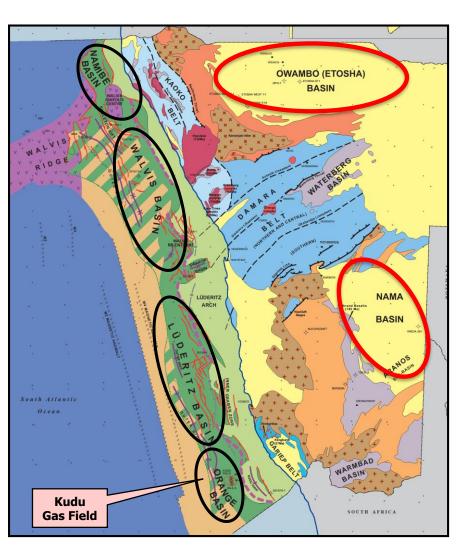
Rank	Namibia
	in World
Democracy Index	#71 (165)
(Economist Intelligence Unit, 2016)	
Global Peace Index	#50 (163)
(Institute for Economics& Peace,	
2016)	
Low Corruption	# 53
(Transparency International, 2016)	(176)
Prospectivity Index	#68 (149)
(Legatum Institute, 2016)	
Rule of Law Index	#62 (200)
(World Bank, 2015)	
Press Freedom	#24 (180)
(Reports without Borders, 2017)	
Worldwide Governance Indicators	#64 (200)
(World Bank, 2015)	
Economic Freedom	#78 (180)
(Heritage Foundation, 2017)	

Namibia is ranked as best place for petroleum exploration investment in Africa according to the Global Petroleum Survey 2016



Global Petroleum Survey 2016 Fraser Institute https://www.fraserinstitute.org/studies/globalpetroleum-survey-2016

Sedimentary Basins



Legend: Offshore Geology



Early Cretaceous to Tertiary Drift Section overlying continental basement

?Late Jurassic to Early Cretaceous Syn-rift section



Main Area of seaward-dipping reflectors



Tentative area of syn-rift section underlying seaward dipping refectors

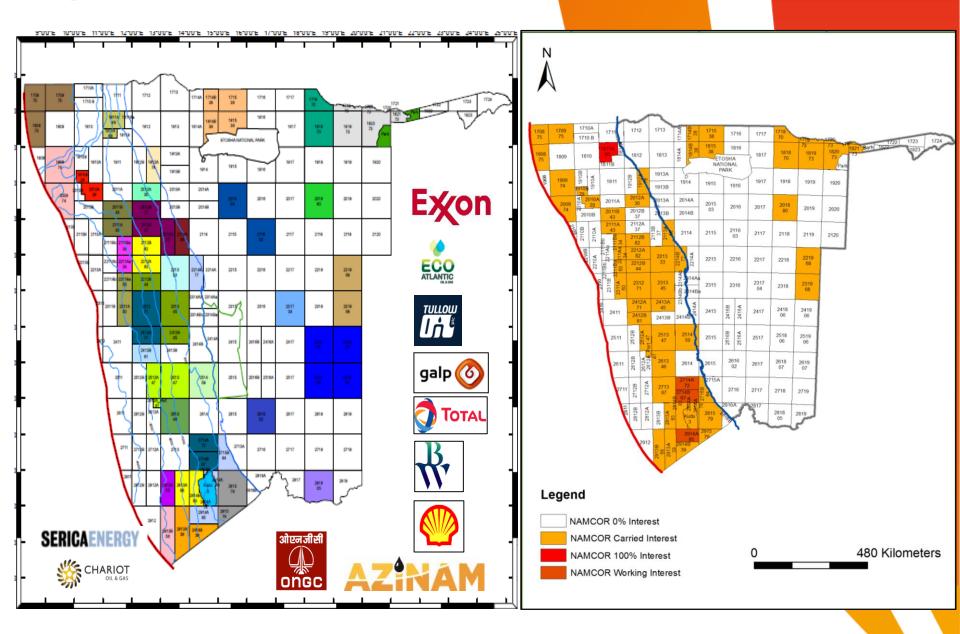


Walvis Ridge volcanics

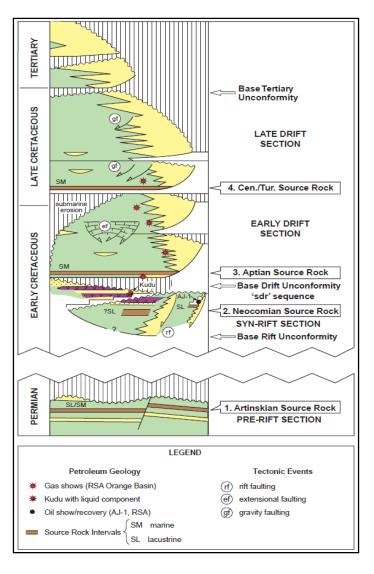
Oceanic Crust

- 9 4 offshore basins
- 2 onshore Basins
- One offshore gas discovery

Exploration Licenses



Potential Source Rocks



<u><u>e</u> Turonian-Cenomanian</u>

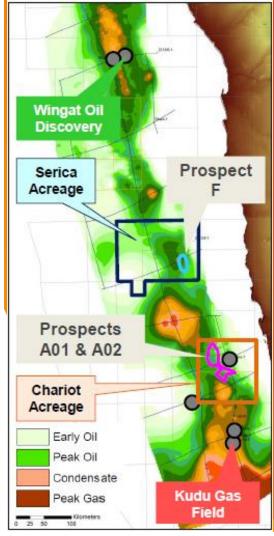
- Proven in Walvis and Orange Basins
- Marine, oil-prone
- Early to late mature
- TOCs up to 10%;

Apto-Albian

- Proven in Walvis (Wingat-1 & Murombe) and Orange Basin (Kudu)
- Marine, oil and gas-prone
- Early to Late mature
- 2 % TOC proven in the Kudu field

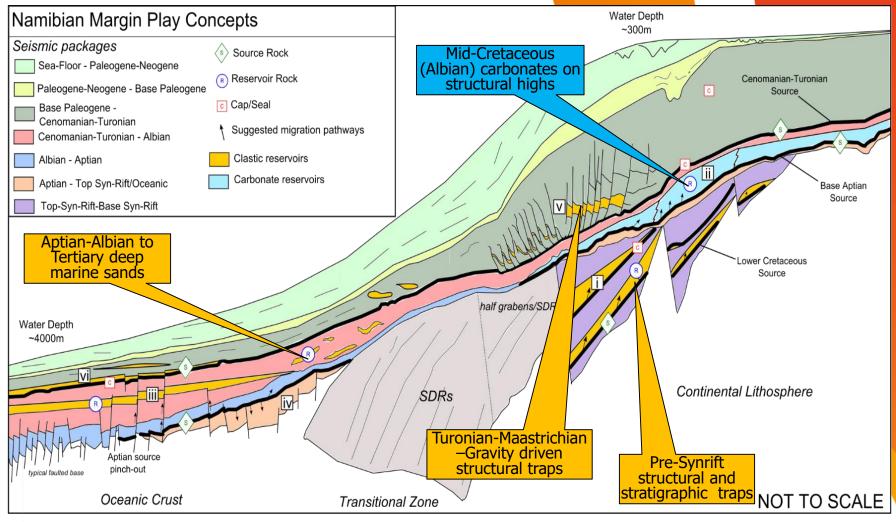
Neocomian, syn-rift

- Proven in Orange Basin,South Africa (A-J1 well)
- Lacustrine, oil-prone



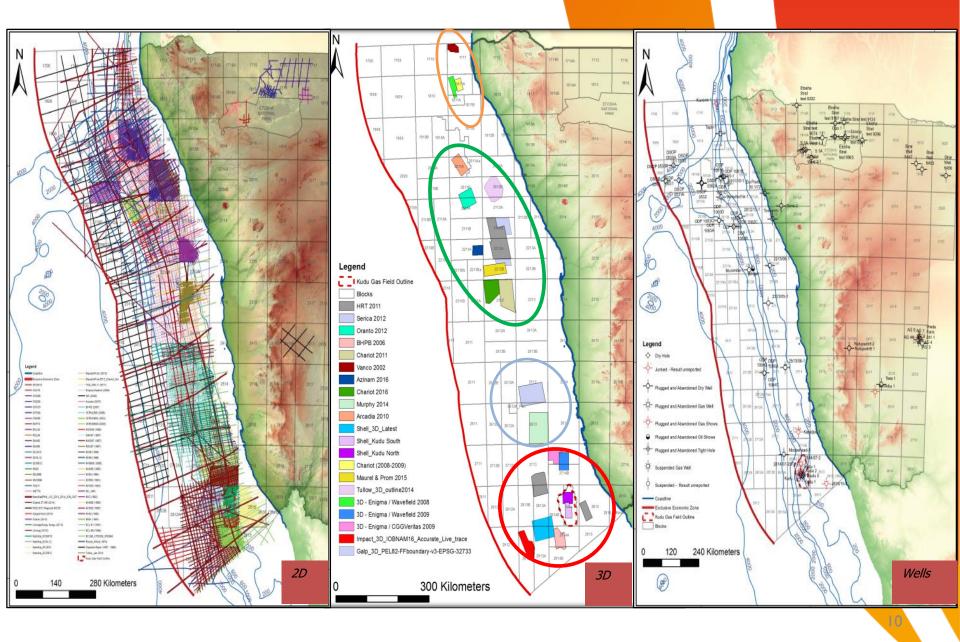
Aptian Source Rock Maturity (after Chariot, APPEX 2016)

Petroleum Systems and Prospectivity

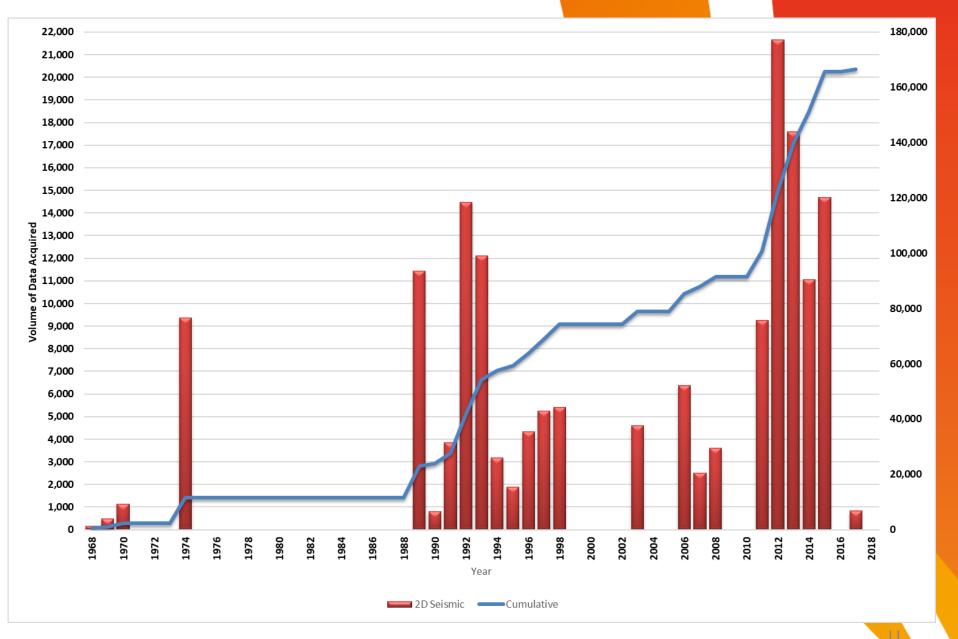


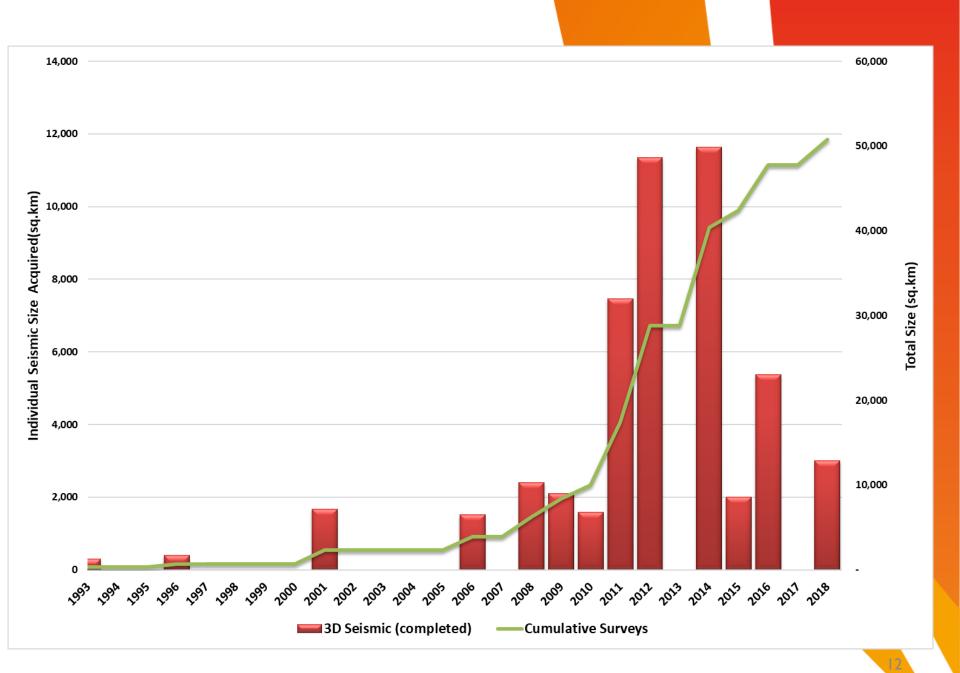
(After PGS, 2014)

Exploration Databases

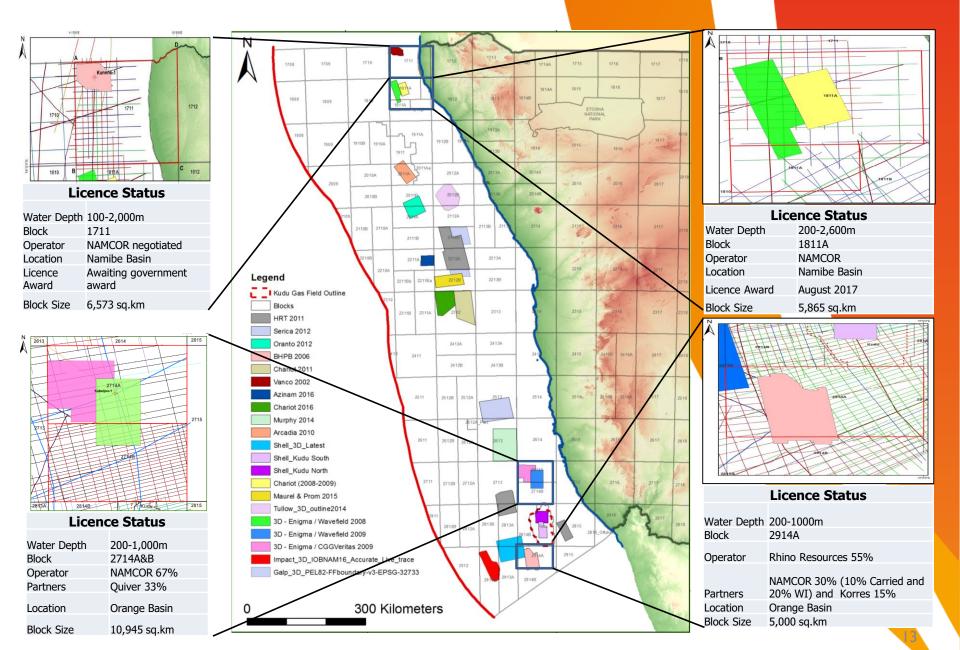


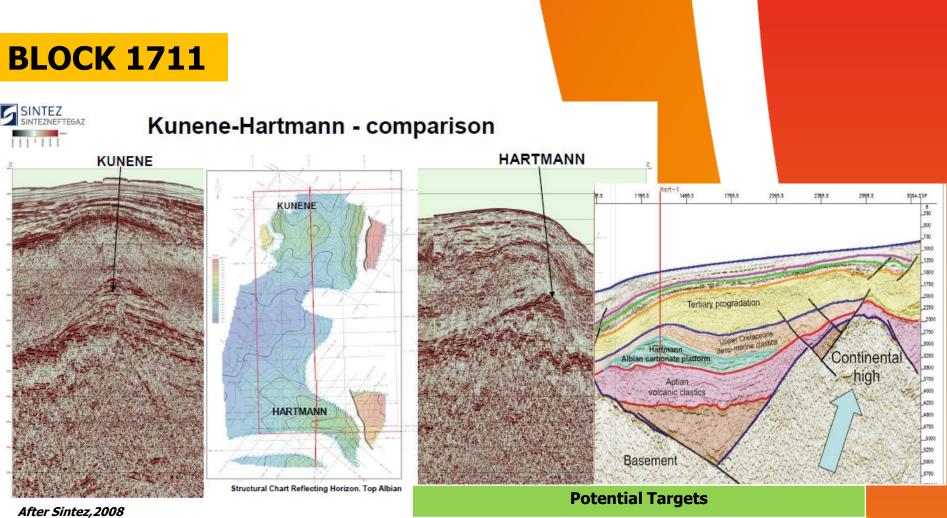
Seismic Databases



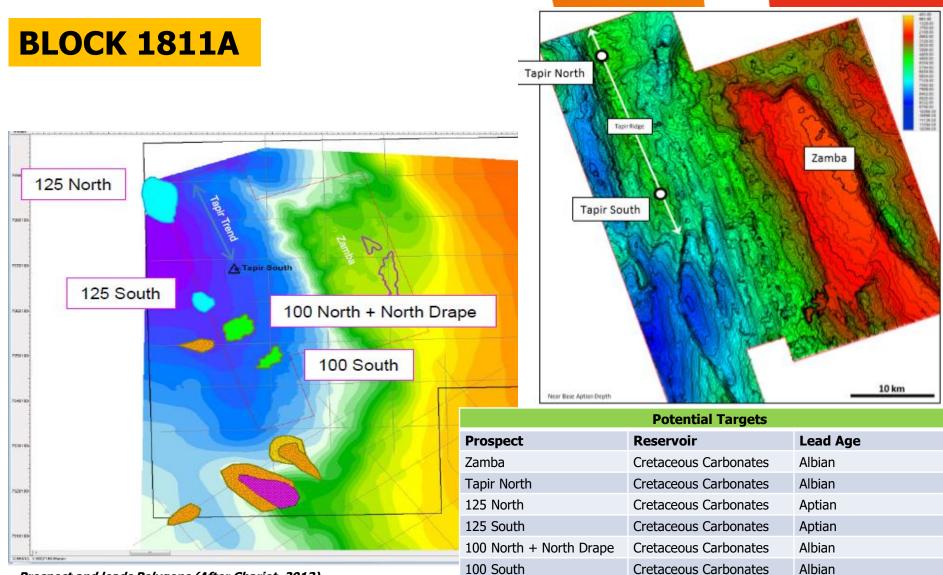


Exploration Opportunities





Potential Targets			
Prospect	Reservoir	Lead Age	
Kunene	Cretaceous Carbonates	Albian	
Hartmann	Cretaceous Carbonates	Albian	



Potential Clastic basin

floor fans + channels

Cretaceous

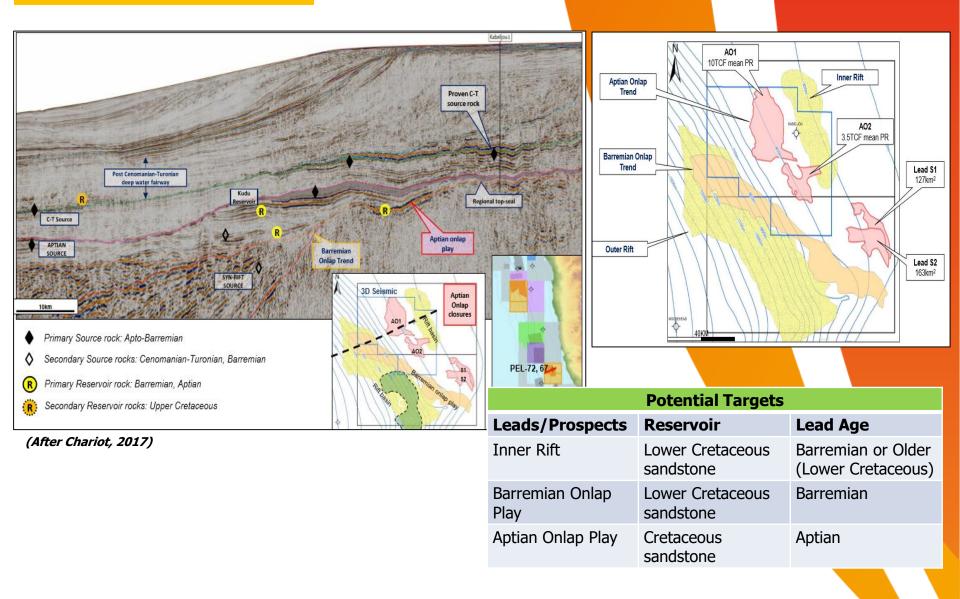
floor fan)

Clastic(channels +Basin

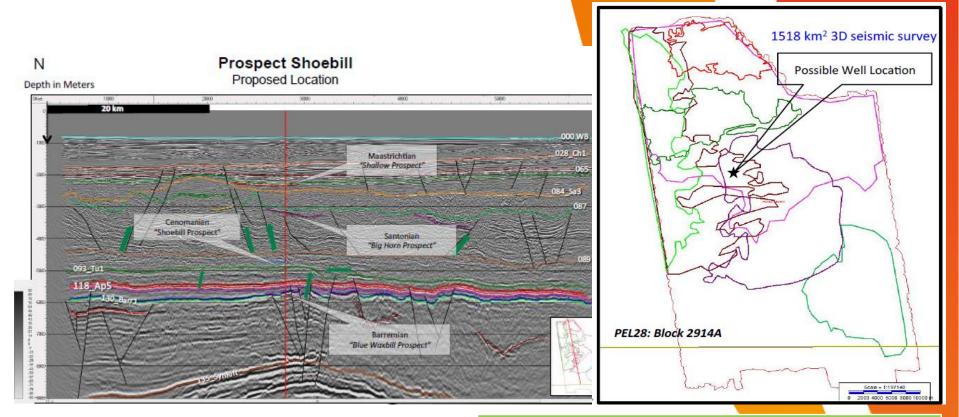
Late Cretaceous

Prospect and leads Polygons (After Chariot, 2013)

BLOCK 2714A&B



BLOCK 2914A



Prospect and leads Polygons (After HRT, 2012)

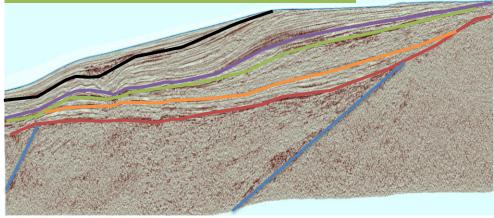
Potential Targets				
Prospect	Reservoir	Lead Age		
Shoebill	Cretaceous Turbidites	Cenomanian		
Blue Waxbill	Cretaceous Turbidites	Barremian		
Scops Owl	Cretaceous Turbidites	Aptian		
Guineafowl	Cretaceous Turbidites	Barremian		

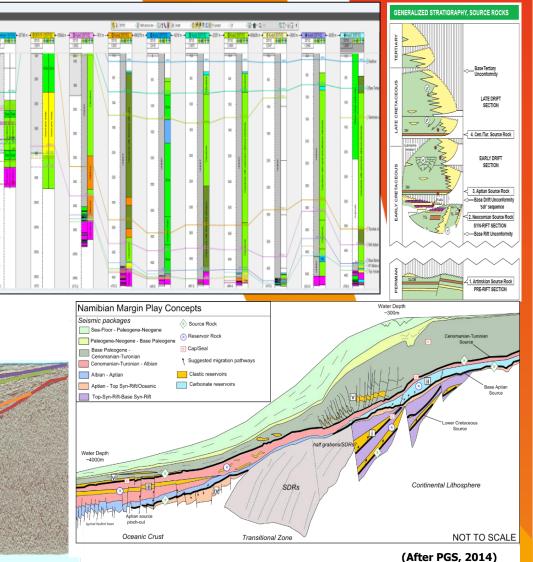
Ongoing projects

Prospect Inventory Project

- ✓ Updated lithological chart of Orange Basin
- ✓ Update regional tectonostratigraphic interpretation of Orange basin
- ✓ Play definition and play concepts
- ✓ Regional Stratigraphy update
- Core logging analysis
- SD Multi-client Survey

Syn-rift Play Project





Conclusions

- Number 1 investment destination in Africa
- Favourable fiscal regime/incentives in Africa
- Attract major IOC to explore offshore Namibia
- Excellent geodatabase available to make sound investment decisions and improve geological understanding
- Opportunity to access underexplored high-potential frontier basin with minimal commitments
- Proven offshore petroleum system from drilled wells
- NAMCOR repositioning its exploration strategy by acquiring its own assets
- Significant equity and operatorship available in 2 blocks
- Farm-out opportunities are available

Thank you

For more information visit NAMCOR's booth 16 or Contact details: Ms. Victoria Sibeya Acting E&P Executive Tel +264 61 204 5000 vsibeya@namcor.com.na

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