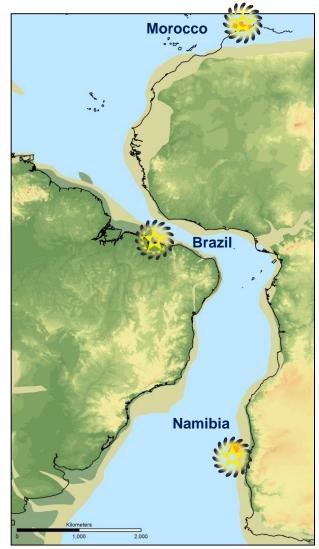


# The Role of Natural Gas in the Growing Moroccan Energy Sector





South Atlantic 100 Ma Reconstruction

June 2019



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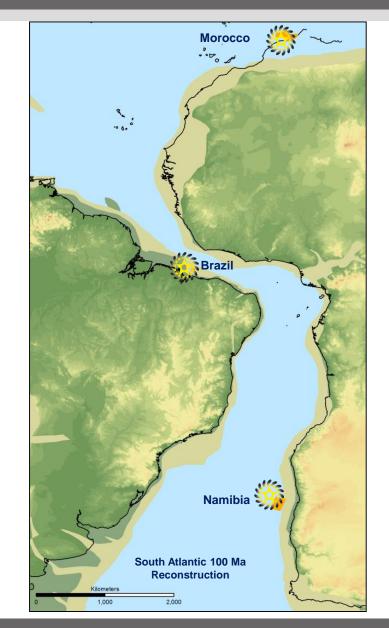
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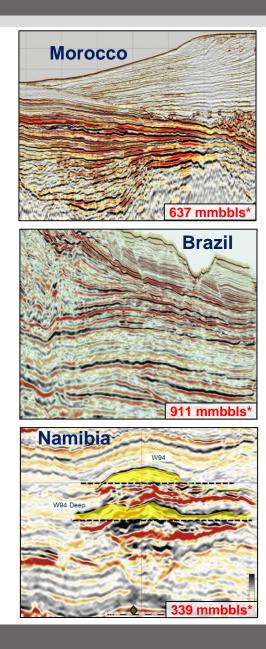
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#### **Chariot - Who we are**









#### Non-operated deepwater well

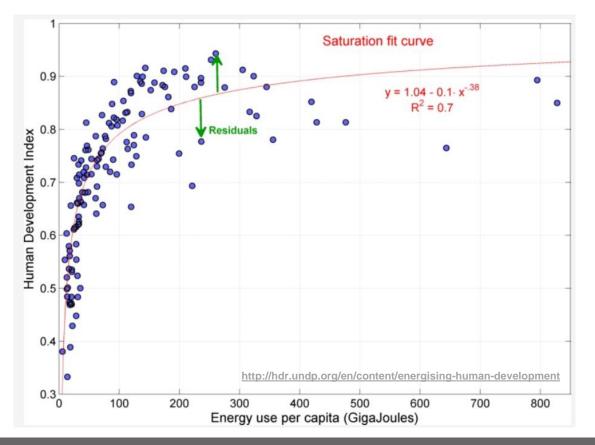


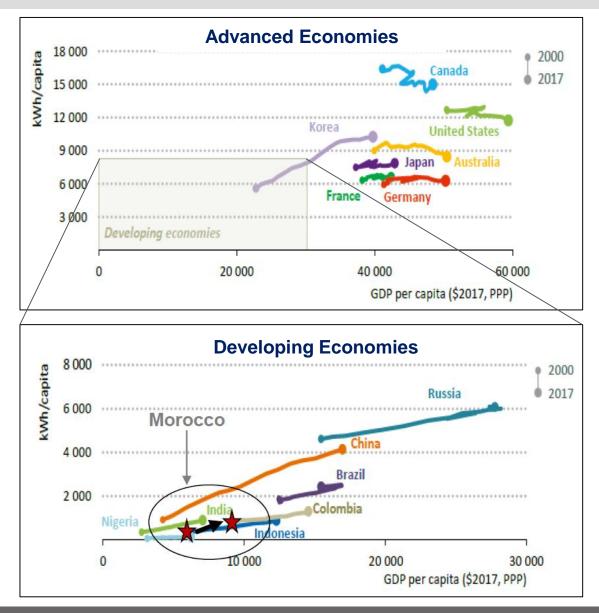
Operated well setting new industry benchmark for deepwater drilling

## The Social Case for Energy Growth in Developing Economies



- In developing economies, there is a direct correlation between Energy consumption and GDP.
- More importantly, in developing economies there is a dramatic improvement in the Human Development Index with increasing energy consumption.



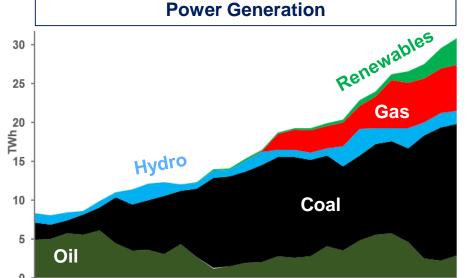


## **Moroccan Energy Sector and the Case for Gas**

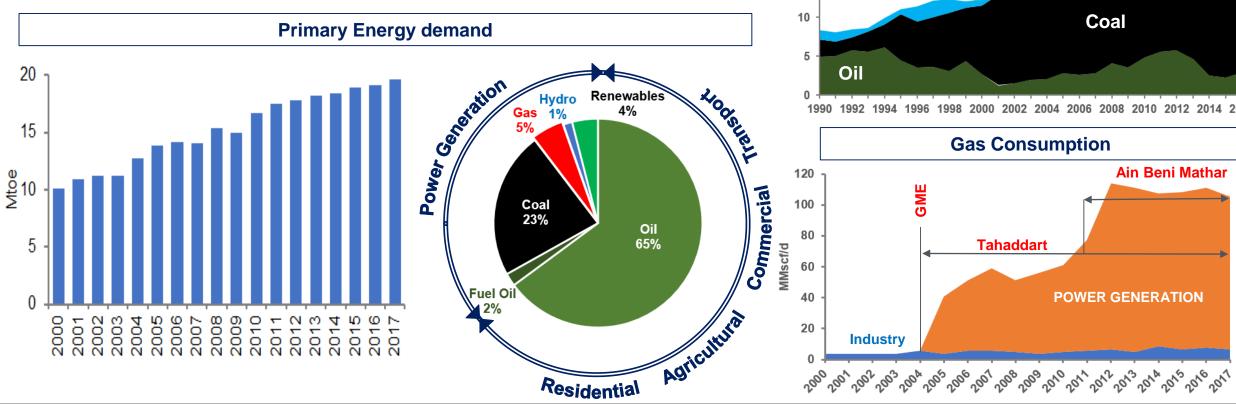
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- Fossil fuel imports and balance between coal (base load), gas (GME royalty) and oil (peak demand)
- The development of gas in the Power sector

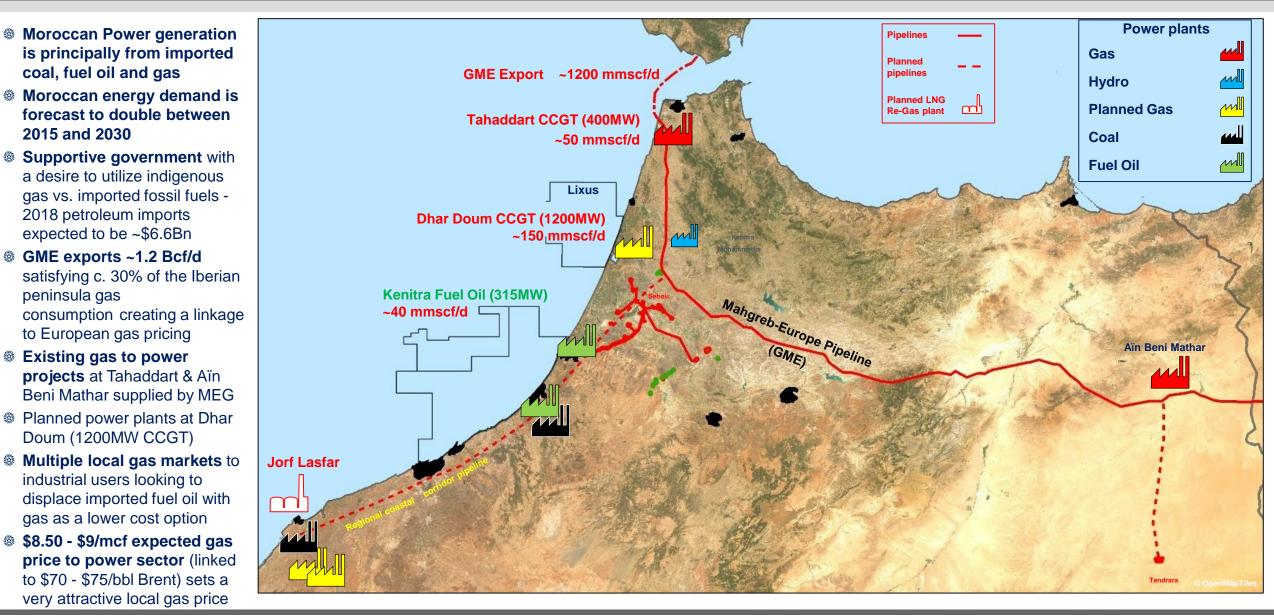






## **Growing Moroccan Gas Market**

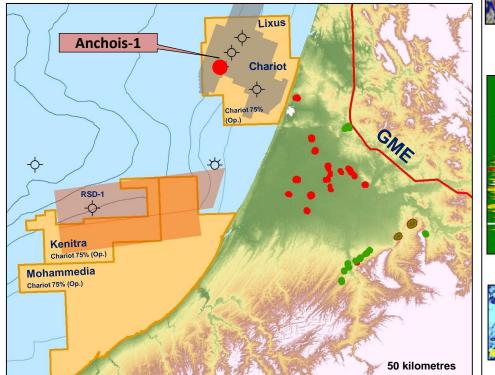


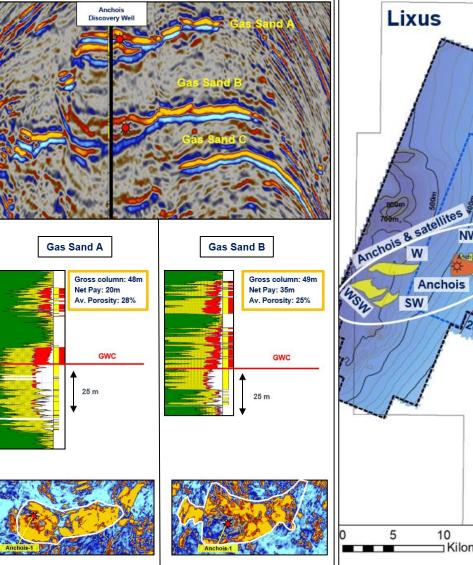


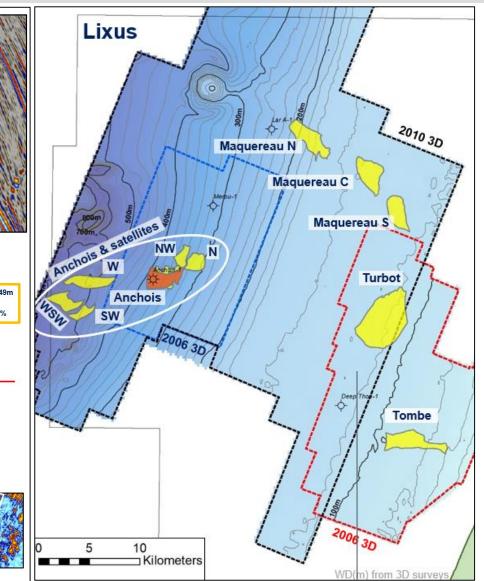


#### **Key Facts:**

- Anchois-1 gas discovery in 388 m WD, 40km from coastline
- 2C Resource of 307 Bcf\* in Gas Sand A and B
- Prospective Resource of 116 Bcf\* in Gas Sand C (Anchois Deep)
- Estimated total remaining recoverable resources of 423 Bcf
- Excellent quality reservoirs expected to deliver high rate wells
- Anchois discovery and & satellite prospects make an inventory with remaining recoverable resources of >1 Tcf\*
- Additional On-Block Inventory PR >850 Bcf\*\*



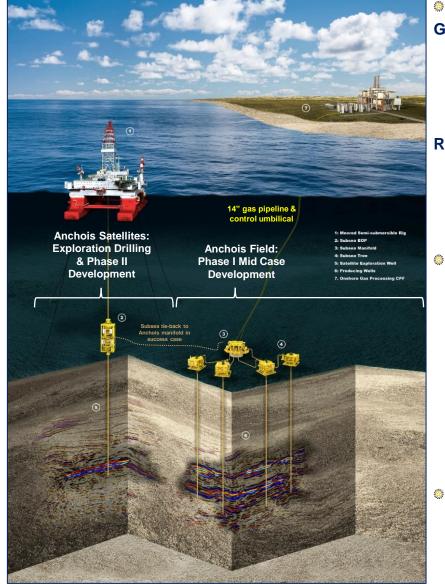




\* Netherland Sewell and Associates Inc. ("NSAI") estimate of Gross 2C Resources or unrisked 2U Prospective Resource, \*\* Chariot Internal estimates

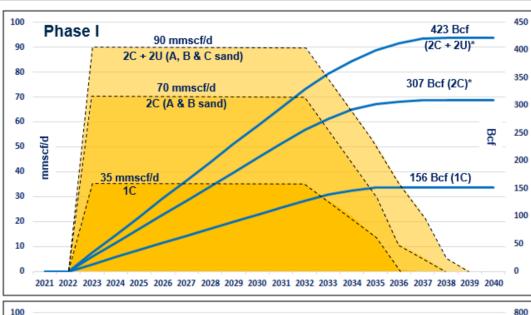
#### Anchois Field – a Strategic Asset for Moroccan Development

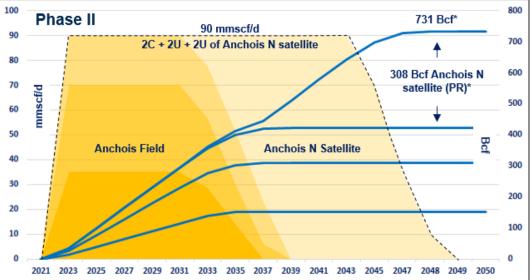




Anchois Discovery:		
Bas composition:		
*	C1	97%
*	C2 – C4	2%
攀	C5+	0.8%
攀	N <sub>2</sub>	0.2%
Reservoir characteristics:		
繎	Temperature 49°C	
繎	Pressure 3,585 psig	
*	Depths 1700 – 2100mSS	
Feasibility study describes a development using existing technology with no critical item:		
<ul> <li>2 - 4 subsea producer wells connected via a 6 slot manifold (additional slots for future wells)</li> <li>40 km 44" subsea flow line with</li> </ul>		
40 km 14" subsea flow line with		

- 40 km 14" subsea flow line with control umbilical
- Onshore Processing Facility
- Export via 14" onshore pipeline
- Multiple potential customers exist domestically and internationally via the GME pipeline







- Solution There is a strong social case for generating energy, particularly in developing economies
- Moroccan energy use has been growing for the benefit of its people as demonstrated by the rural electrification programme
- Moroccan power generation is principally from imported fossil fuels, with Coal contributing over 50% of that generation
- Gas, Hydroelectricity and Renewables are taking a growing share at 30% of Moroccan power generation
- Indigenous Gas has the potential to be an important part of the growing energy requirement in this developing economy
- Chariot are well placed to contribute to that transition