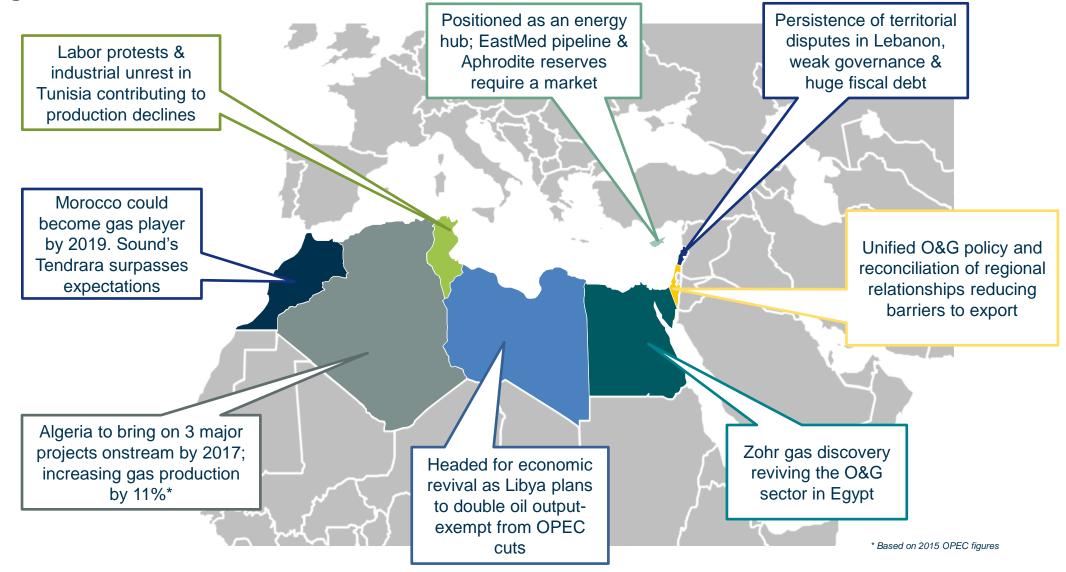


Finding Petroleum North Africa and the Eastern Mediterranean

Andrew Lodge London, 12th December 2016

Setting the scene- key developments & highlights- Major gas discoveries and Libya's revival?

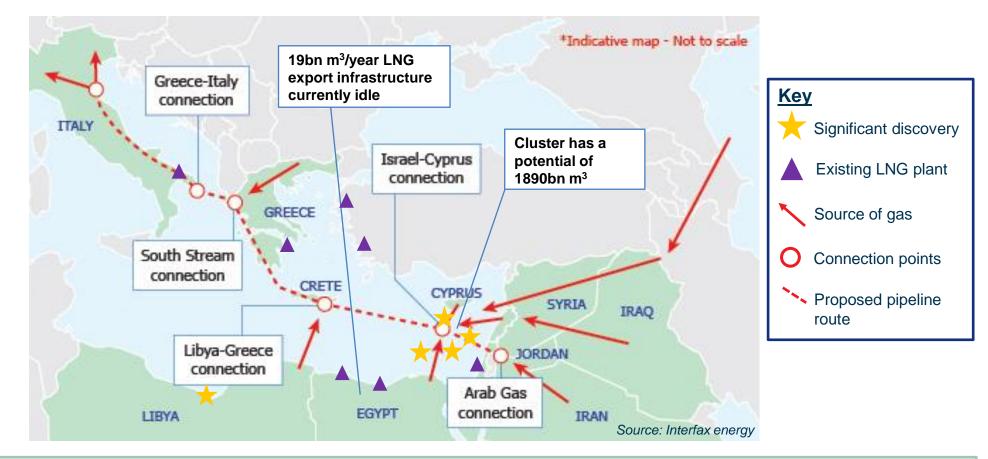




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The Eastern Med has significant exploration and export potential

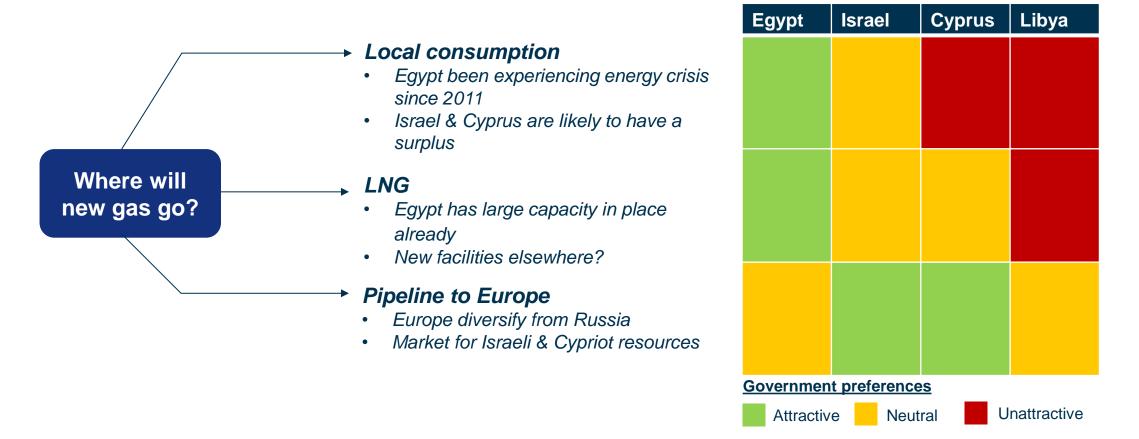


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Area highlights

- Zohr has opened up the Lower & Mid Miocene carbonate play- BP, Dana, SDX, ENI and others actively exploring in Egypt
- · Israeli government announces 28 blocks in upcoming licensing round & commitment to fast-track development of Leviathan
- Additional resource potential in Cyprus on back Zohr discovery?

The Eastern Med to become a gas hub through different routes

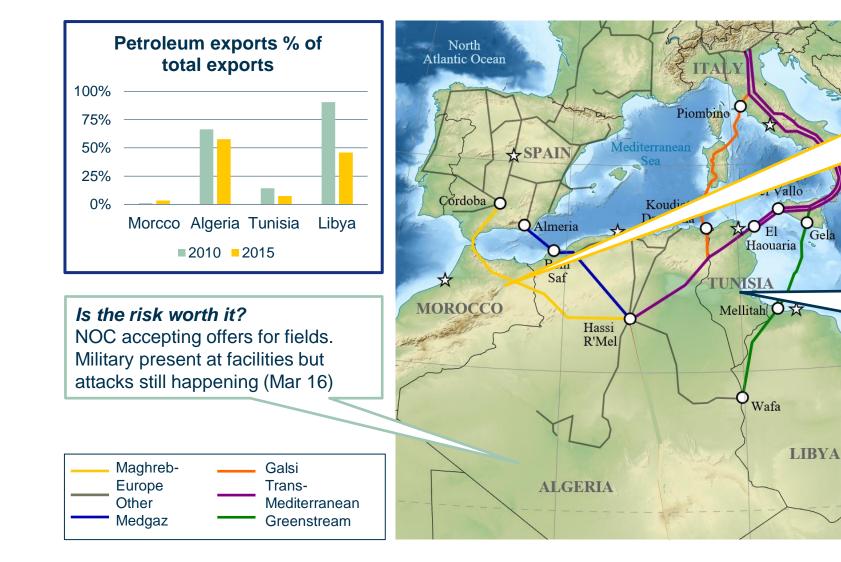


Key hurdles limiting success

- Political instability in the area has deterred large investment- economic interests provide a catalyst for development
- Are existing resources sufficient to support pipeline export to Europe?: Cyprus & Israel may become net exporters ~2025
- High cost projects (pipeline \$5.7bn) & low oil price. Funding likely to come from Europe to provide energy security



Libya set to re-export oil and Morocco could become a gas exporter to Europe



Is Morocco the next export hub? More stable political environment & success of Tendrara offers attractive diversification EU gas sources

How much will economic protests impact O&G? ENI continue exploring onshore. Petrofac forced to pause operations due to labour protests

Is increased production good news?

0.6m bpd Q4 '16 \rightarrow 1.1m bpd Q4 '17. Ports are set to reopen, but more barrels places pressure on recent OPEC induced rise





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Political instability in North Africa and the East Med is the bottle-neck in unlocking potential

	Opportunities	Threats
<i>North Africa-</i> Will Morocco change the game?	 In Morocco, smaller companies have secured frontier acreage – Sound have been successful In theory options exist in Algeria, Tunisia and Libya 	 A market is required for the gas in Morocco History of political instability- attacks still occurring across most of the region
<i>Eastern Mediterranean-</i> The new export hub?	Further exploration offshoreIncreased export options	 East Med pipeline requires cooperation between many countries and funding

What next ?

- 1. Will the majors renew their focus in Morocco post Tendrara?
- 2. Zohr and Tendrara were surprises, how many more geological unknowns are there in the region?
- 3. Will Libya get it's act in order? Lots of oil (gas?)



