UNCTAD

14th African Oil, Gas and Minerals, Trade and Finance Conference and Exhibition São Tomé & Príncipe

Lessons From Petrobras Development And Applicability To Other NOCs

By Khalid Ghozlani Managing Director November 22nd 2010

EnerGC onsulting [®]
Generating Value for Our Clients

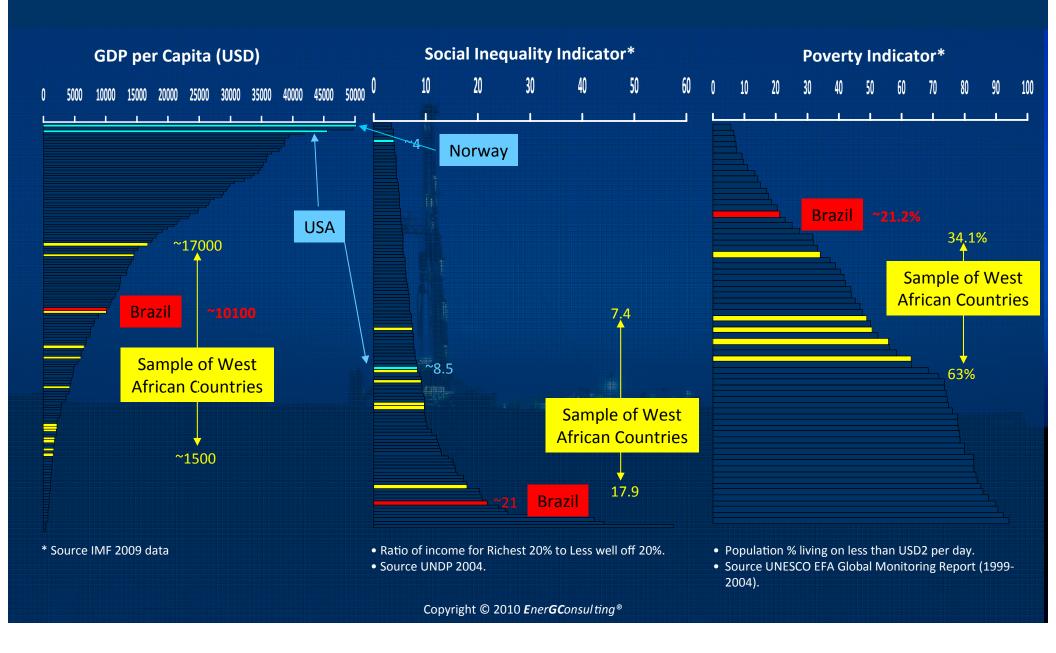
About *EnerGConsulting* ®

- EnerG Consulting® is a boutique energy consulting firm providing management and technical consulting services for the energy industry in Brazil, the Middle East and soon in West Africa.
- Our expertise comprises a wide range of the energy value chain including operations, HSE&Q, marketing, valuation, business process design & implementation, and strategy.
- We are unique in that we leverages existing resources within clients' organisations and facilitates the transfer of capabilities.
- We offer our clients focused yet flexible boutique consulting services. By tapping into customers' assets in priority order, our interactions with clients are optimized, thus generating greater value.

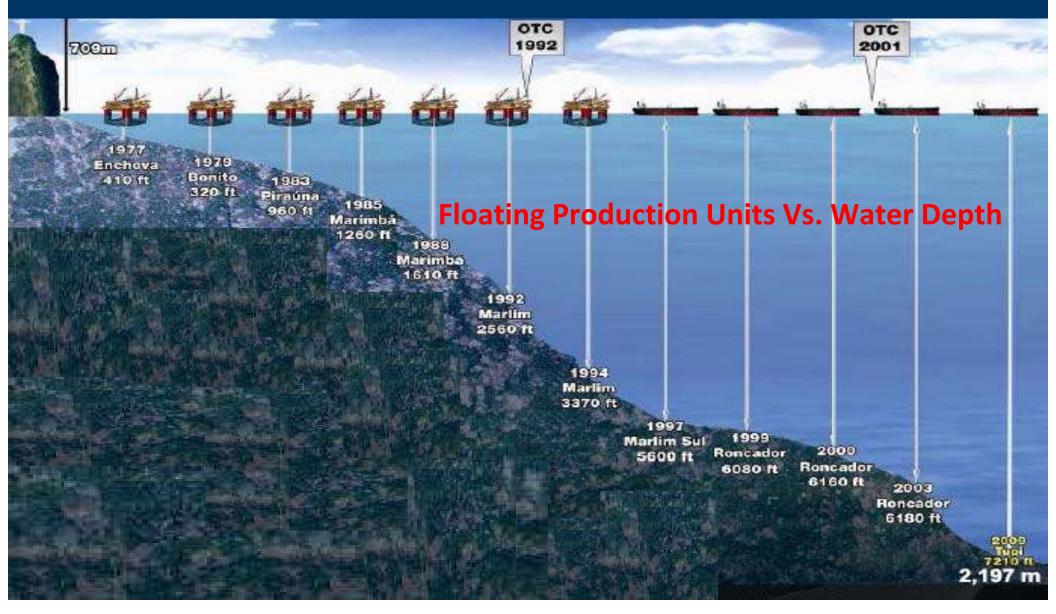
Outline

- Brazil Is A Developing Country
- Yet Brazil's NOC Managed To Become A Leader In Deep-Offshore E&P At Home...
- And An Established Player World Wide...
- And Generates Considerable Positive Externalities
- Looking At Petrobras Reserves History...
- We Recognise The Role Of Institutional Capabilities Building...
- Coupled With Well Timed Policies...
- And An Impressive Modus Operandi
- We Must Learn from It And Try to Replicate It

Brazil Is A Developing Country



Yet Brazil's NOC Managed To Become A Leader In Deep-Offshore E&P At Home...



And An Established Player World Wide...

From Overseas Regulators

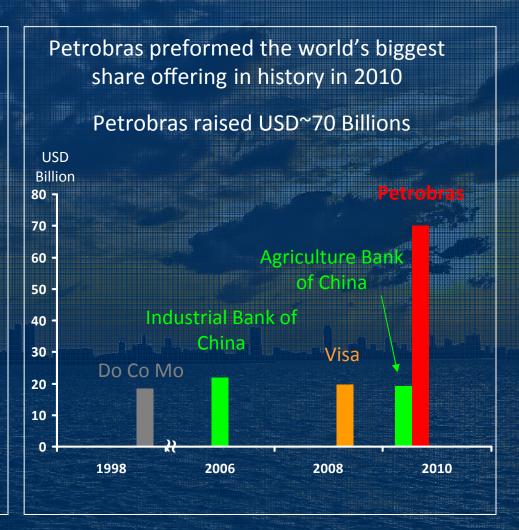
Petrobras is operator of Cascade Chinook fields in US Gulf of Mexico

Dec 2006. US Mineral Management Services approves the deployment of the first Floating Production Storage and Offloading (FPSO) vessel in the GOM for Petrobras.



The FPSO will be located in approximately 2,700m of water and 260km off the coast of Louisiana setting the record for the world's deepest FPSO to date.

From Global Financial Markets



And Generates Considerable Positive Externalities

Private sector dynamism

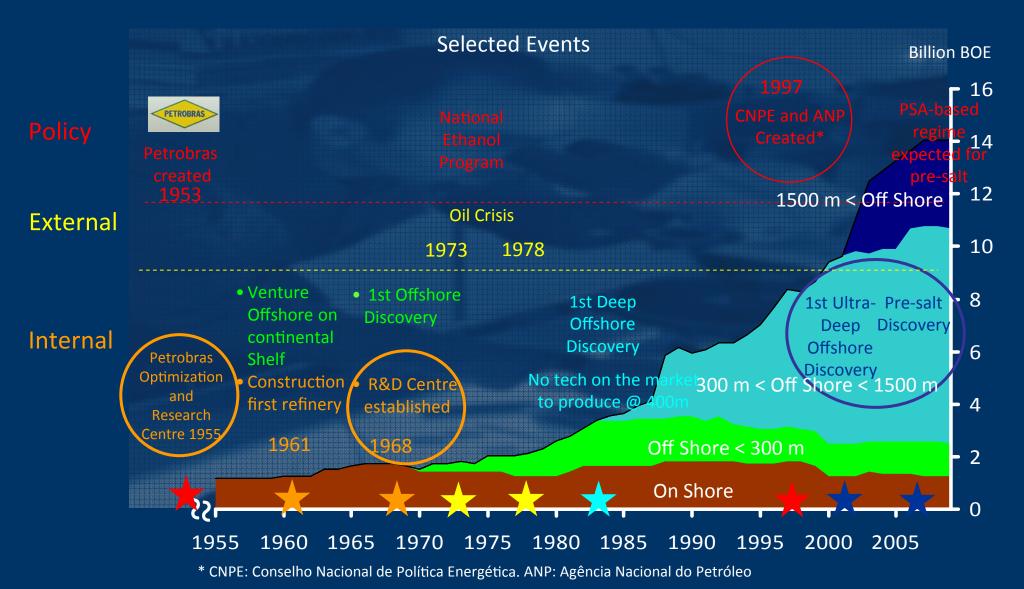
- 2007 saw creation of OGX, a privately held E&P giant. 79 wells planned with 5 drilling rigs already on site.
- 2009 saw incorporation of HRT O&G another privately held E&P company.

Petrobras nurtures an eco-system of suppliers and R&D ventures

- 57000 suppliers of which 4800 on supply chain web
- Developed a new technological partnership model with 11 universities and research institutes that work in collaborative networks
- 2010 Braskem inaugurates the world first "Green-Plastic" manufacturing plant using sugarcane ethanol as feedstock.

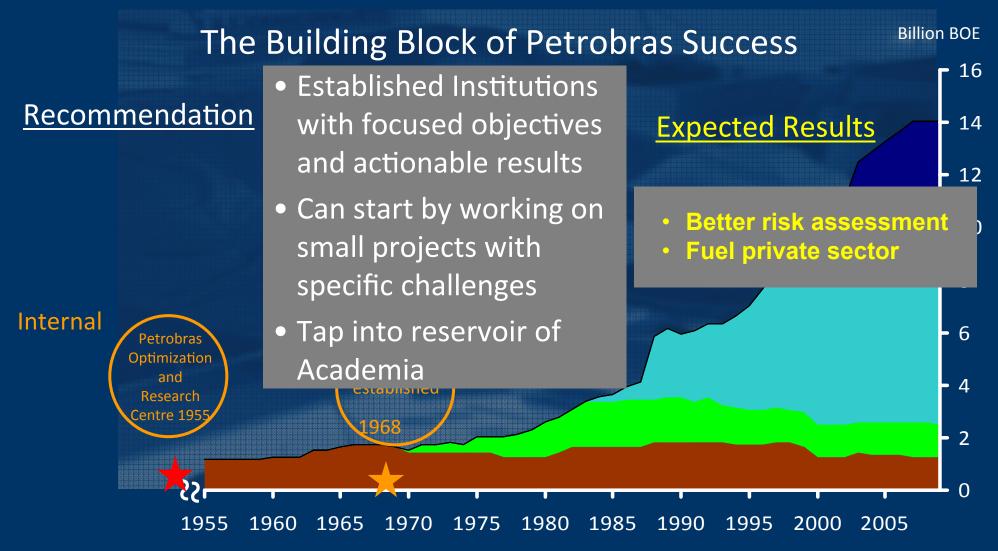
Source: OGX and HRT websites Source: Petrobras and Braskem websites

Looking At Petrobras Reserves History



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We Recognise The Role Of Institutional Capabilities Building...



Coupled With Well Timed Policies...

Recommendation

Create an oversight structure type ANP

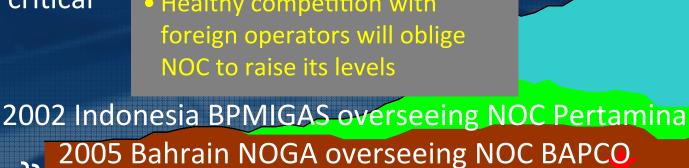
Expected Results

Applicability

NOC with critical mass size

• NOC will be more focused on its core business and mandate of finding and developing hydrocarbon resources

• Healthy competition with NOC to raise its levels



Billion BOE

16

14

12

10

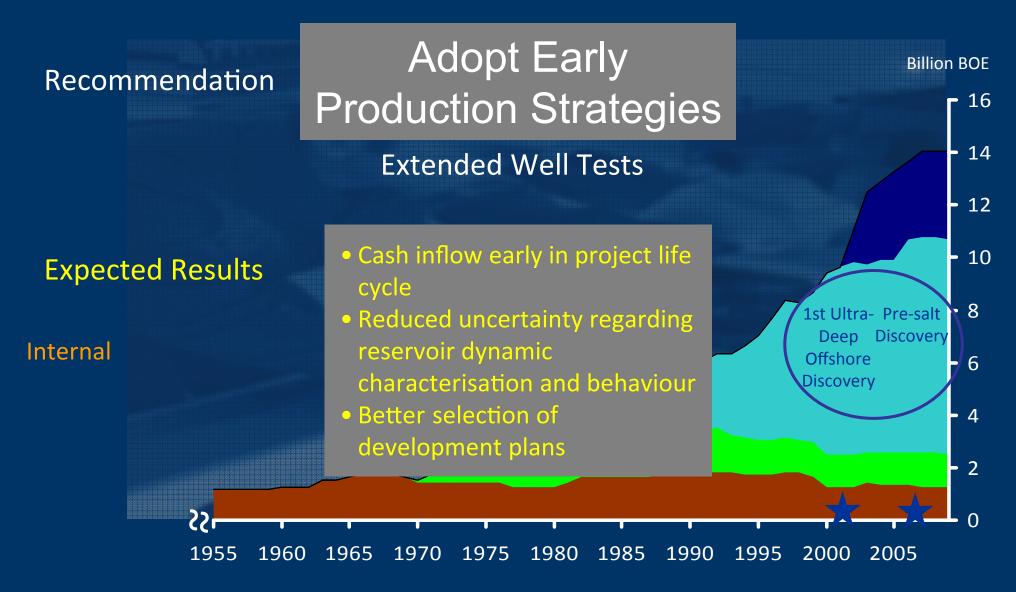
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1980 1985 2005

^{*} CNPE: Conselho Nacional de Política Energética. ANP: Agência Nacional do Petróleo

And An Impressive Modus Operandi



Conclusion

We must learn from it and try to replicate it!!!



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