

AND CRITICAL
EQUIPMENT SUPPLY

PETROBRAS

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The presentation may contain forecasts about future events. Such forecasts merely reflect the expectations of the Company's management. Such terms as "anticipate", "believe", "expect", "forecast", "intend", "plan", "project", "seek", "should", along with similar or analogous expressions, are used to identify such forecasts. These predictions evidently involve risks and uncertainties, whether foreseen or not by the Company. Therefore, the future results of operations may differ from current expectations, and readers must not base their expectations exclusively on the information presented herein. The Company is not obliged to update the presentation/such forecasts in light of new information or future developments.



#### PRESENTATION SUMMARY

- 1. Business Plan
- 2. Pre-salt Overview
- 3. Local Content
- 4. Brazilian Companies
- 5. Relevant equipment demand for the period 2012-2017
- 6. Suppliers Qualification & Register
- 7. Conclusion



# **BUSINESS PLAN**

## Investments during the 2012-2016 period

2012-2016 BP

Under Implementation

All E&P projects in Brazil and projects of the remaining segments in phase IV\*

**Under Evaluation** 

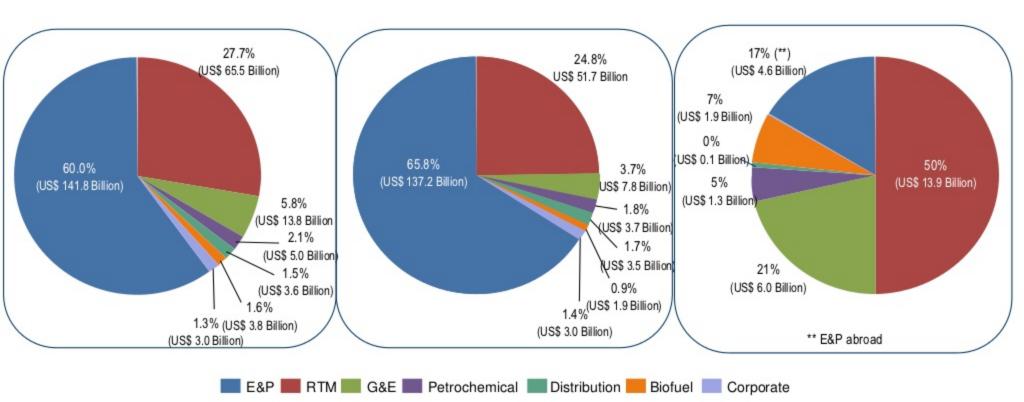
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Projects for the remaining segments currently in phase I, II and III.

US\$ 236.5 Billion

US\$ 208.7 Billion

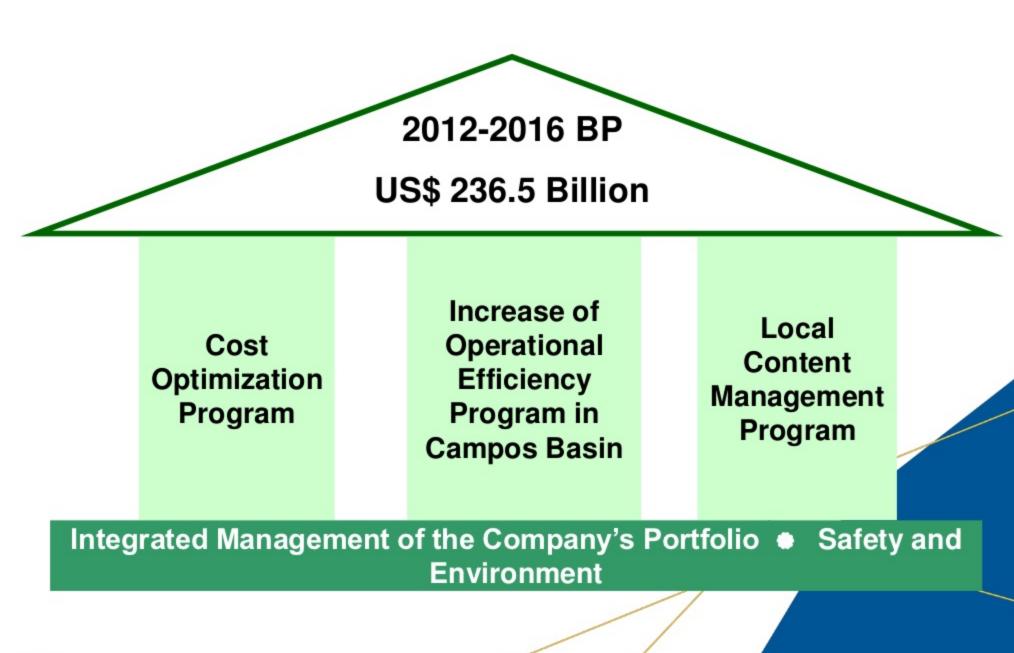
US\$ 27.8 Billion



<sup>\*</sup> Includes budget already designated for projects under evaluation for RTM, G&E, Petrochemical, Distribution, Biofuels and Corporate

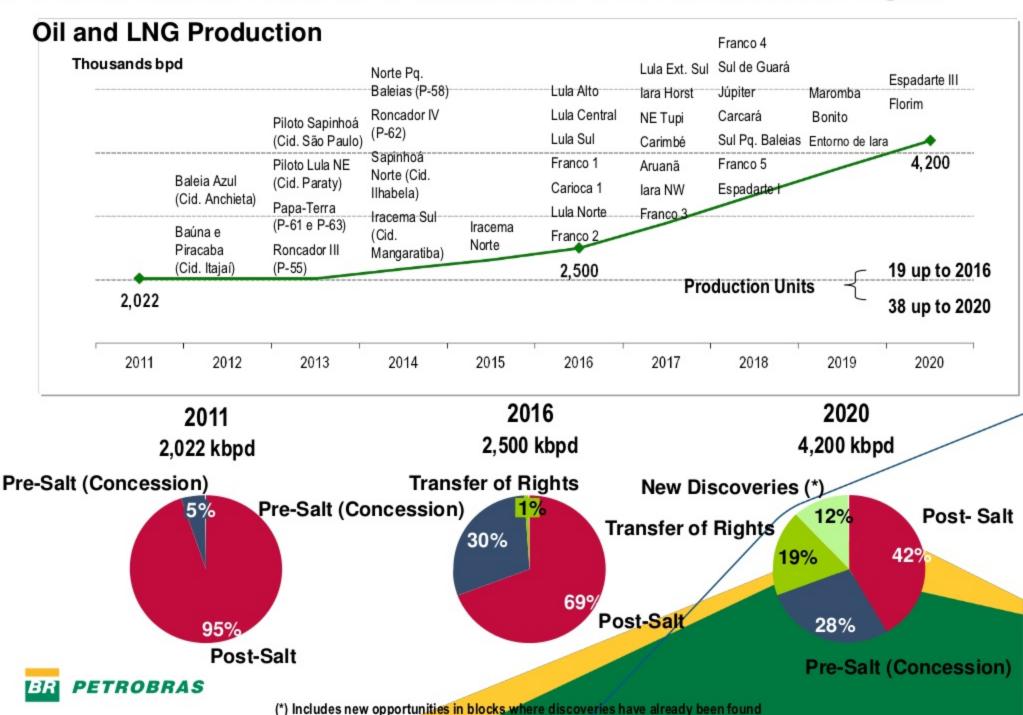


# **Programs supporting the 2012-2016 BP**

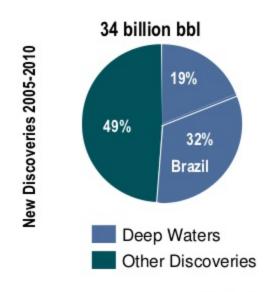




# Production Curve in Brazil – Post-Salt, Pre-Salt and Transfer of Rights

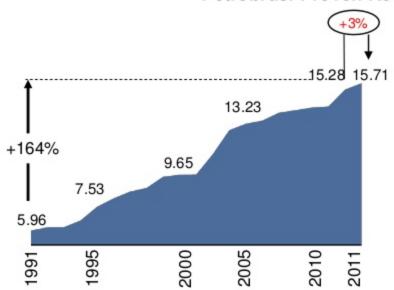


#### PETROBRAS: Reserve Replacement Ratio > 100% for the 20th consecutive year



- In the last 5 years, more than 50% of the new discoveries worldwide were made in deep waters. Brazil accounts for 63% of these discoveries.
- Projections indicate that as Brazil develops these newly discovered reserves, it will lead non-OPEC supply growth until 2030 (PFC Energy).

#### Petrobras: Proven Reserves in Brazil (billion boe)



- Reserve/Production → 19.2 years
- Reserves Incorporated in 2011

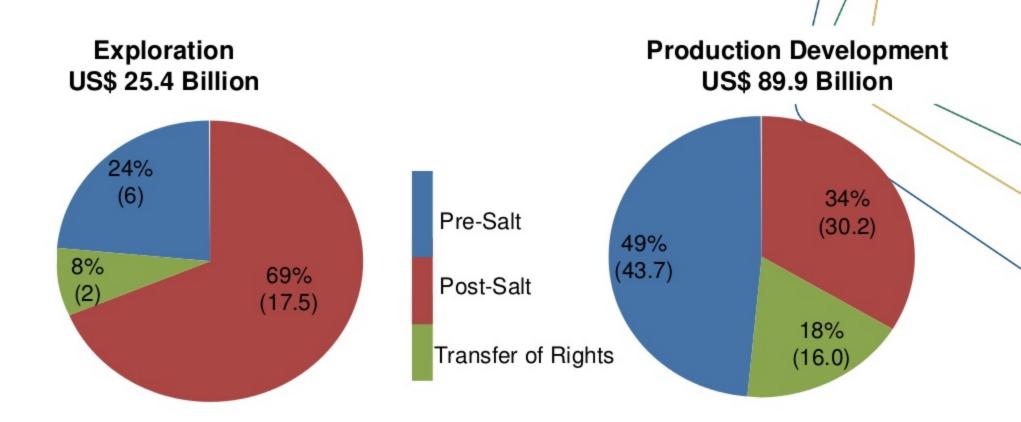
Total: 1.24 billion boe

Pre-Salt: 1 billion boe



#### **E&P Investments**

# 2012-2016 Period



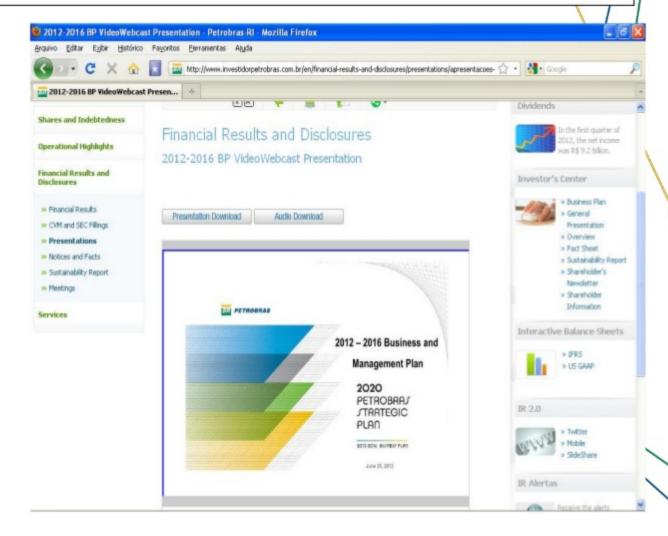
Besides Exploration and Production Development, E&P investments in infrastructure total US\$ 16.3 billion



#### **BUSINESS PLAN - 2012-2016**

More information about the Business Plan 2012-2016 at:

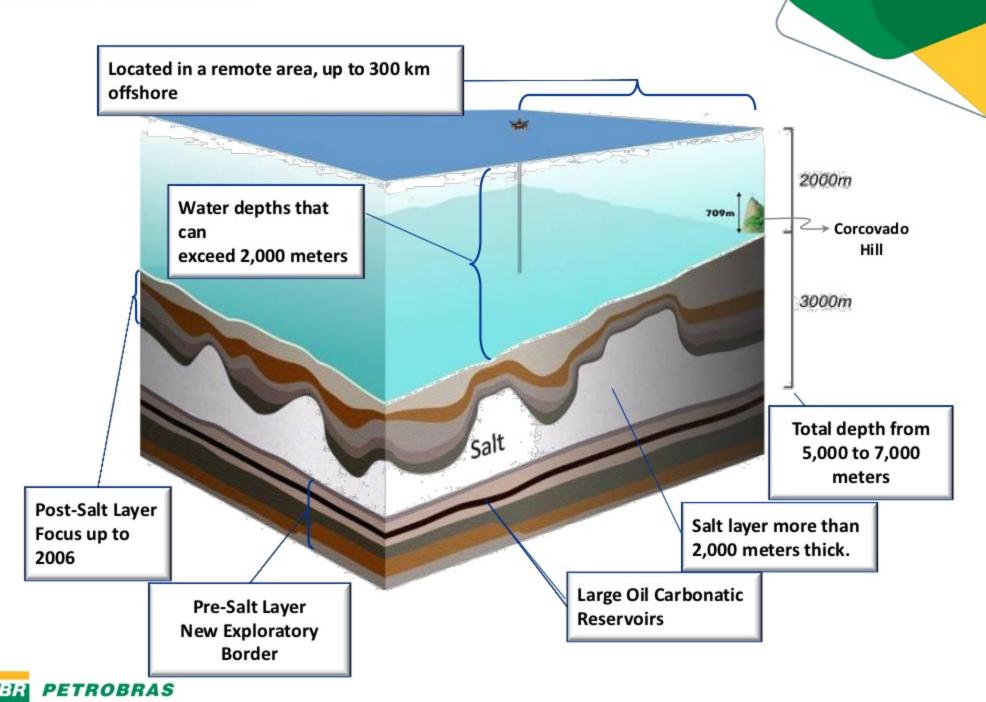
http://www.investidorpetrobras.com.br/2012-2016-businessplan.htm

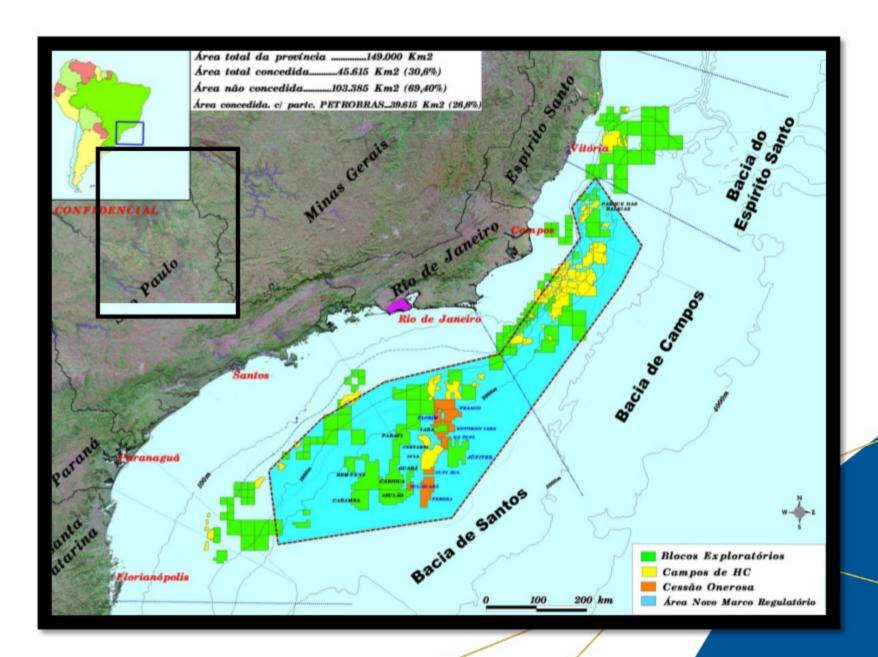




# **PRE-SALT OVERVIEW**





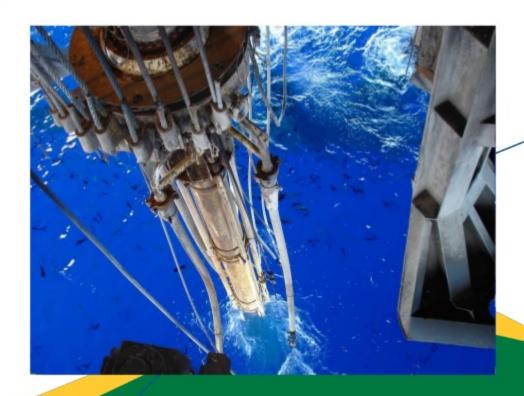




#### PRE-SALT - SOME TECHNOLOGICAL CHALLENGES

# **Drilling and Completion**

- Construction of high angle wells, deviated into the salt zone
- Well integrity
- Penetration rate in the microbial carbonate reservoir
- New alloys to reduce costs of well materials

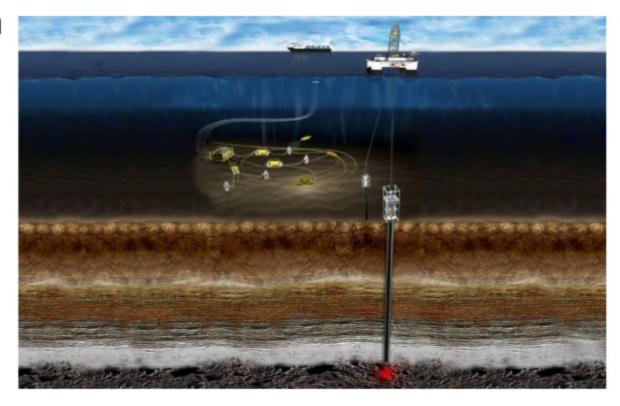




# **PRE-SALT - SOME TECHNOLOGICAL CHALLENGES**

#### Reservoir

- Reservoir characterization
- Rock fluid interaction
- EOR





#### PRE-SALT - SOME TECHNOLOGICAL CHALLENGES

#### Subsea

Flexible risers for water depth

of 2,200m (7,218 ft)

- Flow assurance
- Scaling control





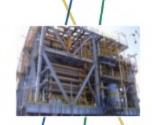
## **PRE-SALT - SOME TECHNOLOGICAL CHALLENGES**

# **Floating Production Units**

- Mooring in 2,200m water depths
- Interaction with the riser's system
- CO2 processing











# LOCAL CONTENT

# LOCAL CONTENT Petrobras Local Content Policy

# PETROBRAS LOCAL CONTENT POLICY

The projects and contracts of Petrobras must withstand the challenges of the Strategic Plan and maximize Local Content in competitive and sustainable basis, contributing to market development where Petrobras operates, guided by ethics and continued innovation.



# LOCAL CONTENT Legal Requirements







# E&P

Exploration and
Production:
Evidences to ANP for
new concessions
contracts, production
sharing and transfer of
rights

## **RTC**

There is no requirement to Local Content.

The operating company states its goal and proves the percentage achieved

#### G&P

There is no requirement to
Local Content.
The operating company
states its goal and proves
the percentage achieved

Operating expenses are not subject to the requirements of the Local Content by ANP