# The Oil and Gas Industry in Brazil

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January, 2019



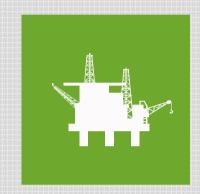


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#### Three different E&P environments





Conventional

Offshore



#### Onshore

Mature Basins and All the East Margin for

Pre-Salt

New Frontier Basins (mostly gas prone). Potential unconventional to be unleashed

besides the pre-salt region and Equatorial Margin, including new frontier areas and a significant number of large mature fields.

One of the World's hottest oil play, home to the largest offshore oil discoveries in the last decade.

Production

8% 

**IIIIII** 37%

55% 



#### Three main goals



1 Increasing the exploratory activities



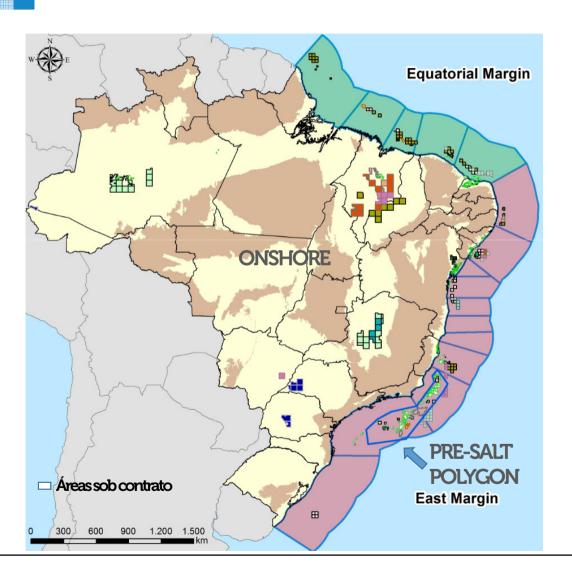
Maximizing production and reservoirs recovery factors



Attracting the right player for each environment



#### It is necessary to unlock the oil and gas potential



Brazil has a continental-size, but...



Less than **5%** of the sedimentary areas are contracted



**2** Basins without a single well



Only **30,000** wells

were drilled in Brazil

- 60,000 in Argentina
- 4 million in USA



#### And indeed a lot has been achieved...

Main Adopted Measures

2016

Petrobras: no longer sole operator for the pre-salt play (Law 13,365/2016) 2017

New E&P Policies (CNPE Resolution 17/2017)

Bidding Rounds Schedule until 2019

(CNPE Resolution 10/2017)

Exploratory Phase Extension (BID 11 and BID 12) (CNPE Resolution 708/2017)

REPETRO Extension – fiscal regime (Law 13,586/2017)

New Local Content Policy – future rounds

(CNPE Resolution 07/2017)

2018

LC waiver for contracts up to the 13<sup>th</sup> bidding round (ANP Ordinance 726/2018) Royalties Reduction for Incremental Production (ANP Ordinance 749/2018)

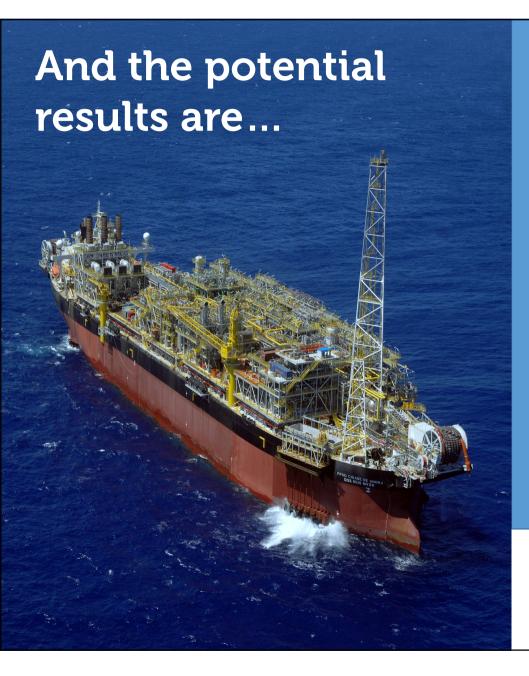






## **Bidding Rounds Results**

Bidding Round	Acquired Blocks	Signature Bonuses (US\$ billion)	Registered Companies	Winners Companies	Premium
Brazil 14th Round Oil & Gas Bidding Rounds	37 (24 onshore e 13 offshore)	1.0	32	17	1,556%
Brazil 15 OIL AND GAS CONCESSIONS	22	2.0	17	12	622%
PRE-SALT 2 PRODUCTION SHARE	3	0.8	10	7	261%
PRE-SALT 3 PRODUCTION SHARE	3	0.7	14	6	202%
PRE-SALT A	3	0.8	16	7	202%
PRE-SALT 5 PRODUCTION SHARE	4	1.7	12	8	170%
Total	72	~US\$ 7.0	High competition and record results!		



Us\$ 112B

New Investments

US\$  $425_B$  Tax Revenues

 $M_{2.5}$ 

Million bpd (peak production)

~20

New Platforms





\*Brent = US\$ 70/bbl Exchange Rate = R\$ 4/US\$

Potential results for the following bidding rounds:







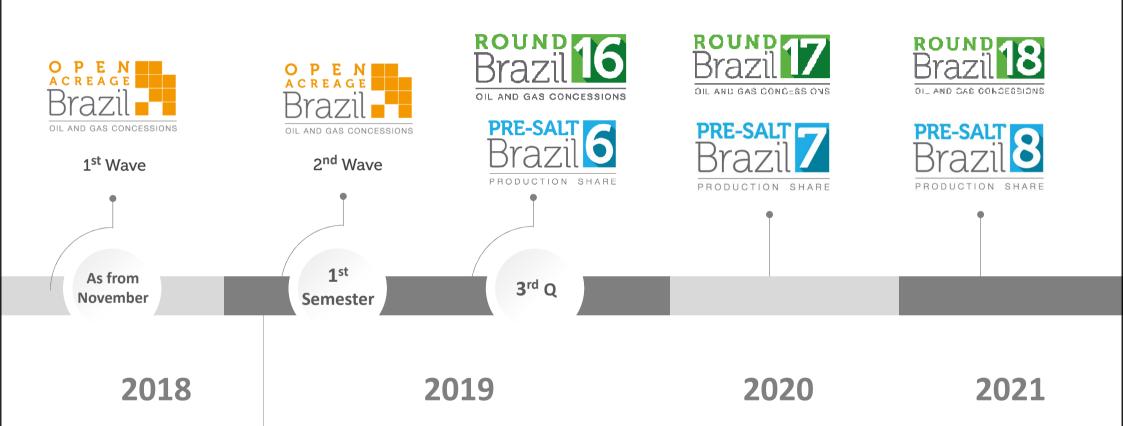






#### Bidding rounds schedule



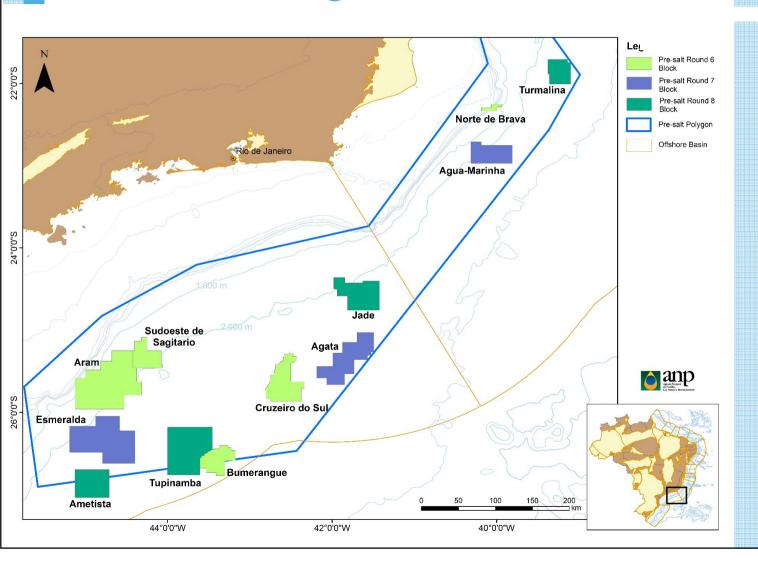


RIGHTS SURPLUS

Braduction Share

## Pre-Salt Bidding Rounds 2019-2021







- 1. Aram
- 2. Sudoeste de Sagitário
- 3. Bumerangue
- 4. Cruzeiro de Sul
- 5 Norte de Brava



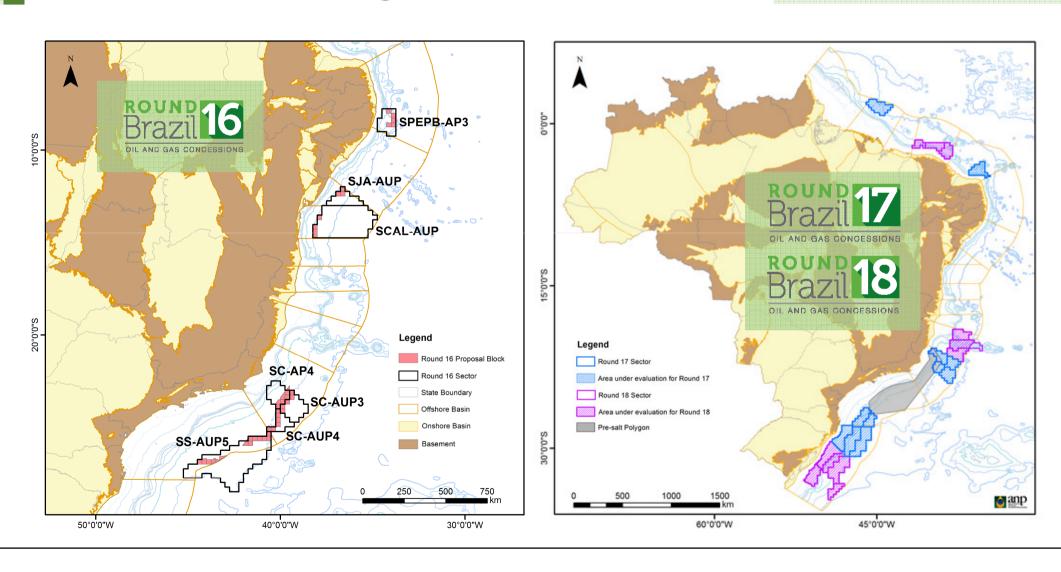
- 1. Esmeralda
- 2. Agata
- 3. Água Marinha



- 1. Amelista
- 2. Tupinamba
- 3. Jade
- 4. Turmalina

## Concession bidding rounds 2019-2021

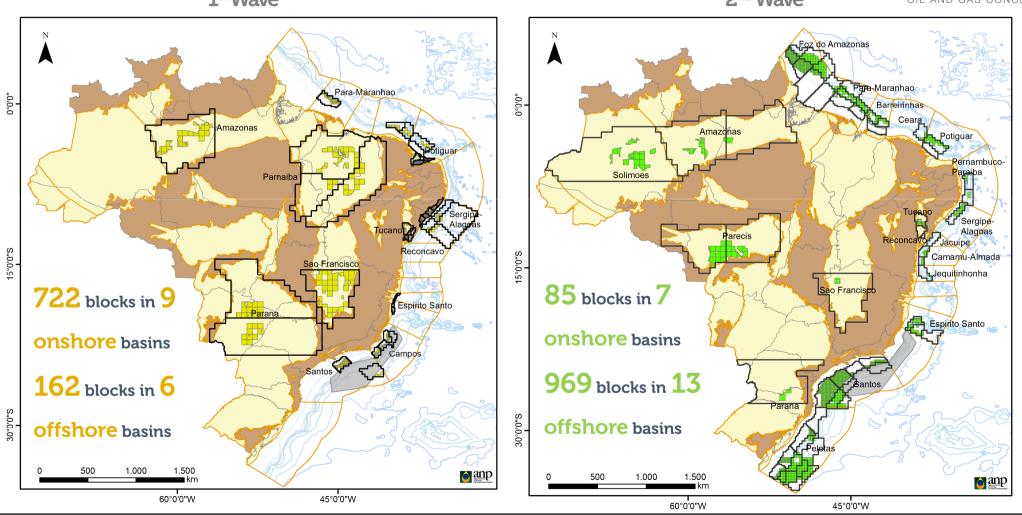




#### **Open Acreage**

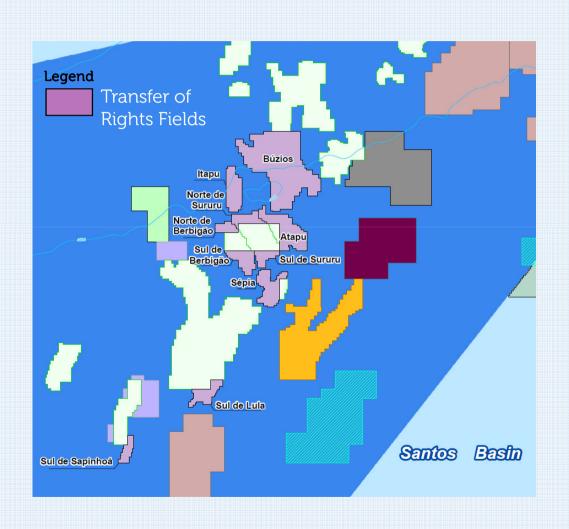






## Transfer of Rights Surplus Opportunities





§ 10 Fields US\$ 489B Tax Revenues

M 10.8

Billion boe

(GCA P50 recoverable volumes)

17 Mew Platforms

\*Brent = US\$ 70/bbl Exchange Rate = R\$ 4/US\$

## Attracting the right players







SupermajorsMajor Operators

•Major Operators•Exploration Specialists•Mature Field Players

Exploration specialistsSmall accumulations development specialists



#### anp Our potential >60 Mature New **7.5** M bpd fields/ **Frontier** New FPSOs basins **Basins** Potential forecast The most prominent Low average recovery factor. We barely know our deep water environment High potential for attracting production in 2030potential.

**Contracted or in progress** 

Need to be unlocked

Unconventional resources discussion should progress

new investments

#### Potential impacts on the Brazilian economy



Bidding Round	Platforms*	Pick Production - (million bpd)	Nominal Investments (billion)**	Tax Revenue – nominal values (billion)
<b>Until 2016</b>	27	2.5	US\$ 130	US\$ 450
2017, 2018 and 2019	22	2.5	US\$ 126	US\$ 487
Transfer of Rights Surplus	17	2	US\$ 105	US\$ 489
Increase in RF of 5% (revitalization)	-	<b>11 B</b> boe new reserves	US\$ 90	US\$ 55 in royalties

<sup>\*</sup> Planned to start production

\*\*\* Brent at US\$ 70/bbl; Exchange: R\$4/US\$

Investments in Research, development and innovation Slightly less than US\$ 1 billion per year

## Potential Tax Revenue

(from 2018 to 2054)



**Investments** 



3 ~US\$ 450 billion

<sup>\*\*</sup> considers investments for platforms planned to initiate production after 2020

#### **O&G Sector in Brazil**

#### **Current Scenario**





# Unique E&P opportunity:

- . immediate reserves certification;
- . fast production development;
- . reserves and production growth

Next 10 years
Potential
Investment
US\$ 528
Billion

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#### More information:

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