### OPPORTUNITIES IN THE BRAZILIAN E&P SCENARIUM



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### Brazil is taking a leading role in the E&P sector







**Production:** 

8<sup>th</sup>

Crude Oil and Condensate producer (BP Statistical Review 2021)

**3**M

Bpd of oil production (February 2022)

13<sub>B</sub>

**Reserves:** 

Bbl in proved oil reserves (Dec 2021)

E&P company groups, 50% foreign (April 2021)

133м

M³ of gas production (February 2022)

379<sub>B</sub>

M³ in proved gas reserves (Dec 2021)

### **Forecast**

Potential to reach more than



5

million oil bpd in 2030 (EPE)

Potential to be the



5<sup>th</sup>

Largest crude oil exporter in 2030 (EPE)

### **E&P** at a glance





### **Pre-Salt**

One of the best plays in the world and the most competitive deepwater assets.

**75%** 

127

22,375

of production producer wells

Average well production (boe/d)

Prod: 2,841,633 boe/d

### Post-Salt

Green and brownfields, deep and shallow waters.

19%

468

1,544

of production

producer wells

Average well production (boe/d)

Prod: **722,963** boe/d

### **Onshore**

Mature basins and new frontier basins (gas prone).

5% of production 5,681

33

producer wells

Average well

Prod: 189,888 boe/d

production (boe/d)

\*February, 2022

27<sub>B</sub> 8

Barrels equivalent of **O&G** produced to date

375

Fields under development or production

248 **Exploratory** 

**Blocks** 

400+ **Production** Installations

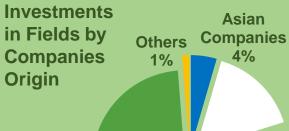
**Billion dollars E&P Investments Forecast** 2021 - 2025

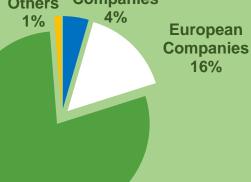
**Billion dollars Decommissioning** Costs 2022-2026

30,000+ Wells drilled

19,000+

Km of O&G pipelines





Brazilian Companie

79%

248 Exploration Blocks

Area: ~188 thousand km<sup>2</sup>

39 operators

#### Offshore

141 Exploration Blocks (57%)

Area: 103 thousand km<sup>2</sup> (55%)

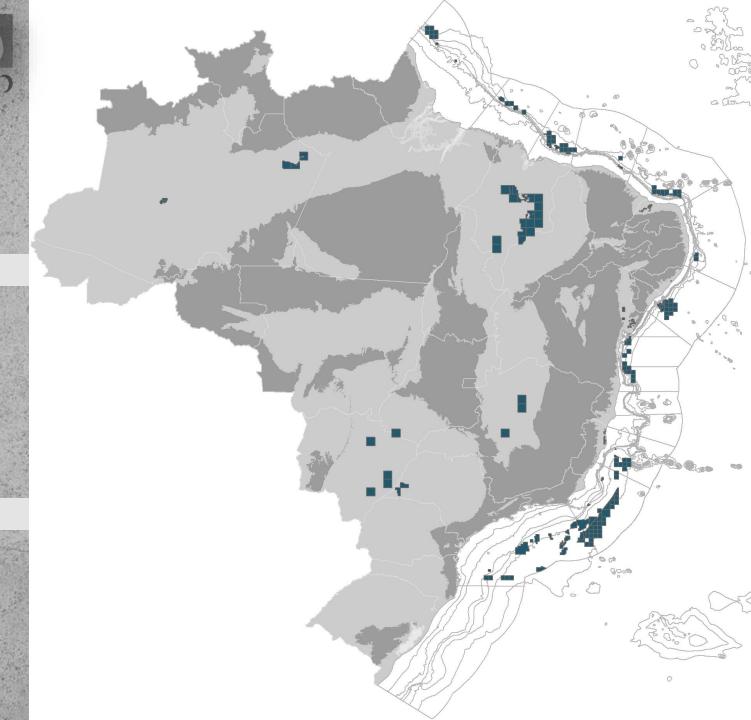
18 operators

#### **Onshore**

107 Exploration Blocks (43%)

Aea: ~85 thousand km² (45%)

22 operators





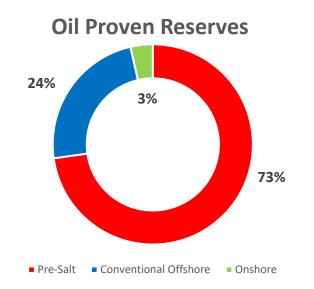


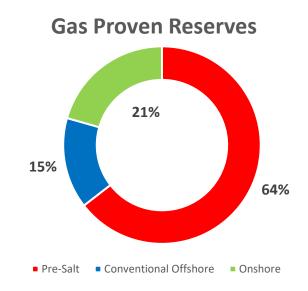
Dec/21

Oil 13.242 Billion bbl

Gas 378.653 Billion m<sup>3</sup>

Dec/21

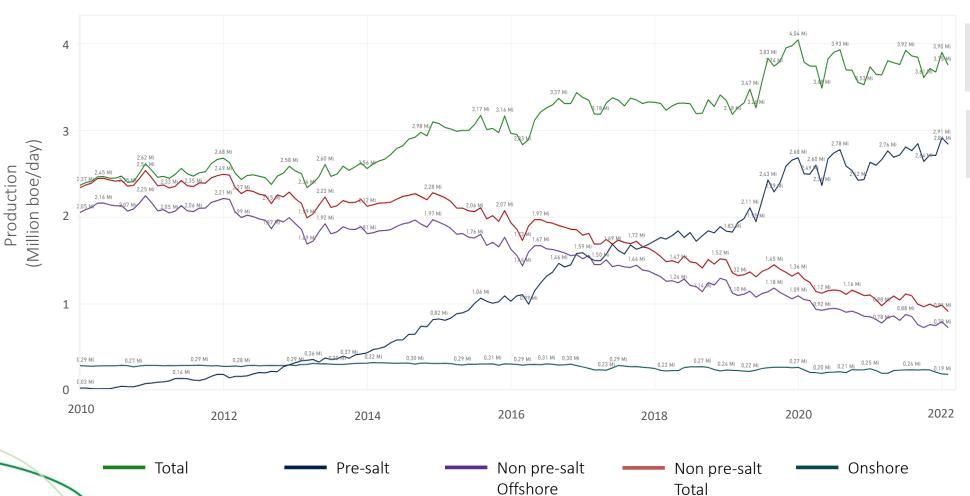








Total Production: 6,149 wells Pre-salt Production: 127 wells



3.755 MM boe/d 2.917 MM bbl/d

2.842 MM boe/d 2.235 MM bbl/d

Spurce: Painel Dinâmico de produção

### **E&P** strategic goals





### RIGHT ASSETS IN THE RIGHT HANDS

Petrobras

Divestment Plan
plays key role in
this goal.

Support small and
medium producers
market



### INCREASE THE RECOVERY FACTOR

Brazil's Current RF: 10%
This represents an enormous opportunity in the mature fields.
Need to reduce OPEX and decommissioning costs



### INCREASE EXPLORATORY ACTIVITIES

The COVID-19
pandemic accelerated
energy transition
discussions and
reinforced the sense of
urgency in exploring
our resources



### MAKE VIABLE THE MARGINAL DISCOVERIES

There are many marginal discoveries in the different environments that could be developed if we address the correct incentives to make them viable

We need to keep increasing above ground competitiveness in order to achieve our main goals



### **Ongoing measures to attract investments**



### KEEP OFFERING AREAS

Open Acreage + Ongoing Petrobras Divestment Plan



### PUBLIC DATA AVAILABLE FOR FREE

Download: Reate.cprm.gov.br/anp



### MARGINAL FIELD DEFINITION

Draft under public consultation. Specific incentives should be discussed afterwards



## ROYALTIES REDUCTION FOR SMALL AND MEDIUM COMPANIES

New ANP Resolution approved by ANP

Already implemented: royalties reduction for incremental production



# OTHER REGULATORY MEASURES TO REDUCE ABOVE GROUND RISKS AND IMPROVE FISCAL TERMS

Measures under REATE, PROMAR and BIDSIM programs, including studies to improve environmental licensing process and competitiveness of marginal discoveries

Also, the new gas law was a decisive step towards a competitive gas market, with great opportunities



### More opportunities in the Open Acreage auction



11 blocks available within the pre-salt polygon.

Publishing of the Tender Protocol scheduled to August 9th 2022

The 1st cycle depends on the interest declaration





1,009 blocks available.
Additional 350 blocks and 11 marginal fields under study to be added in the future.
The 4th cycle depends on the interest declaration



#1

## **Exploration Opportunities**



### **Onshore Mature Basins**



Good Infrastructure and advanced Geological knowledge

Free public data – easy access https://reate.cprm.gov.br/anp/

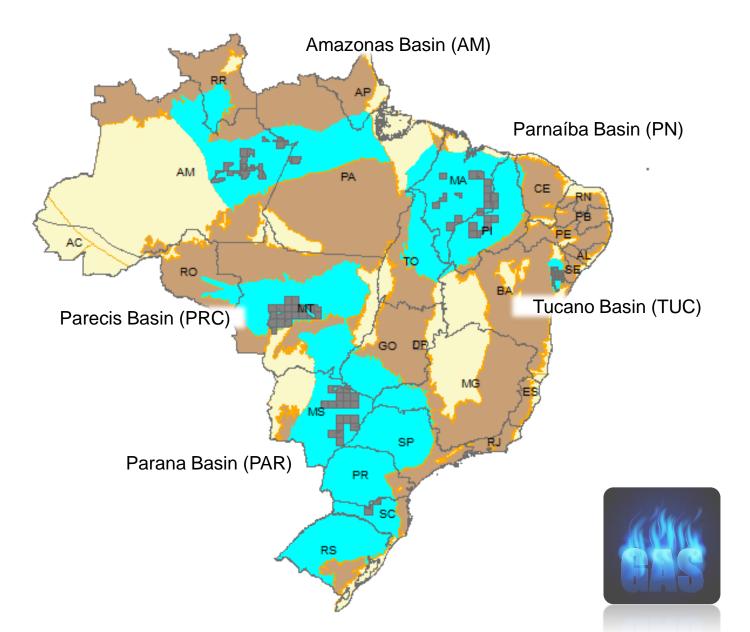
Minimum Bonus (R\$ 50,000 ~ US\$ 10,000)

Many Blokcs on Offer on Open Acreage

Recent knew discoveries and plays



### **Onshore New Frontier Basins**



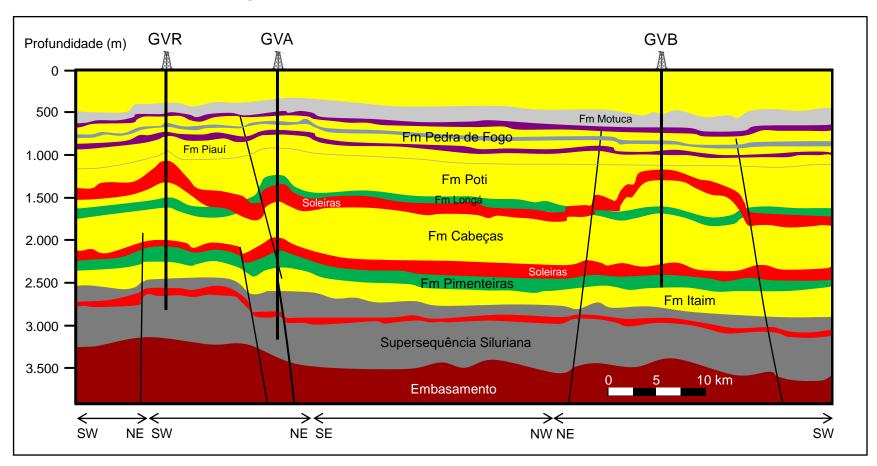


AM (21), PN (21), TUC (39), PRC (20), e PAR (21)



### **Parnaiba Basin**

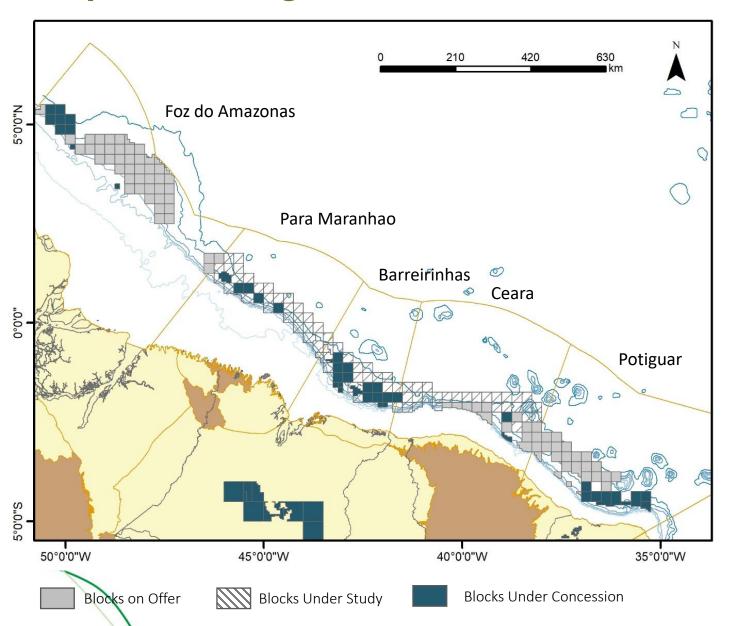
### Geological Section: Gavioes Cluster



Source: Cunha et al., 2012



### **Equatorial Margin**



**Worldclass Exploration Potential** 

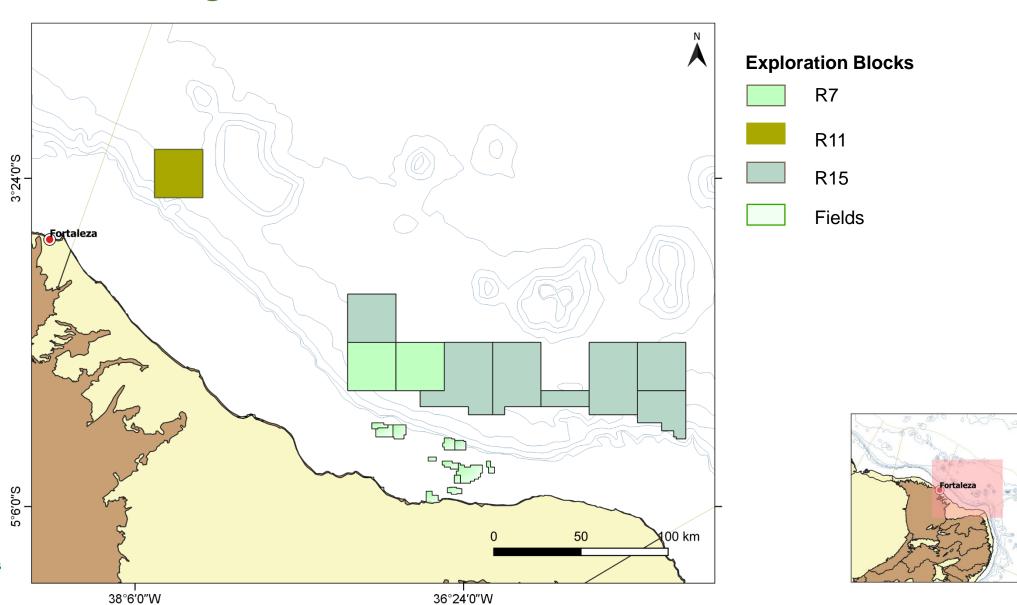
Analogues to West Africa, Guyana and Suriname

83 Blocks on Offer – Open Acreage

71 Blocks under study

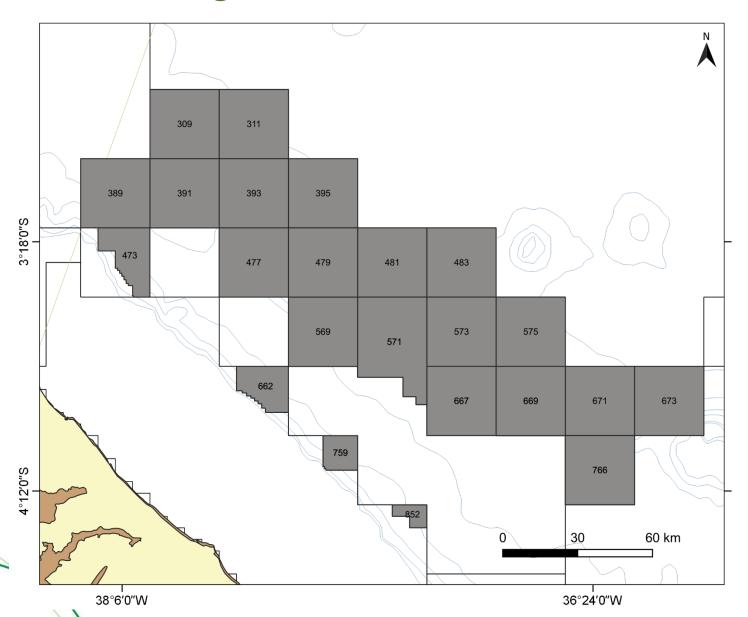


### **Offshore Potiguar Basin**





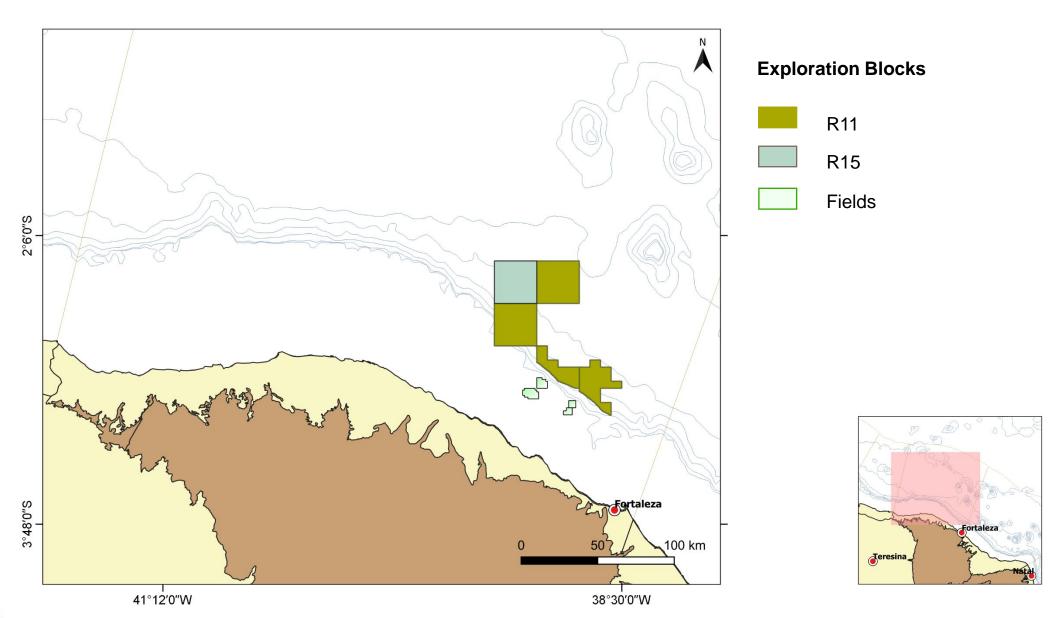
### **Offshore Potiguar Basin**





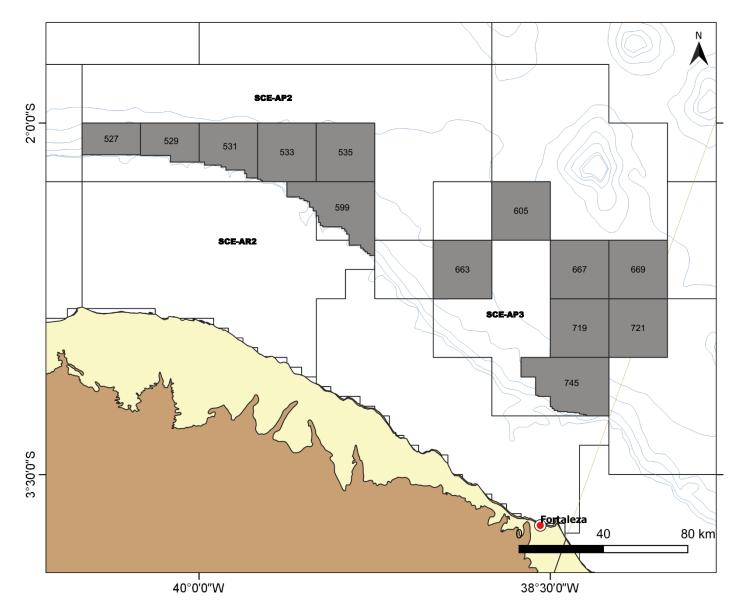


### **Offshore Ceara Basin**





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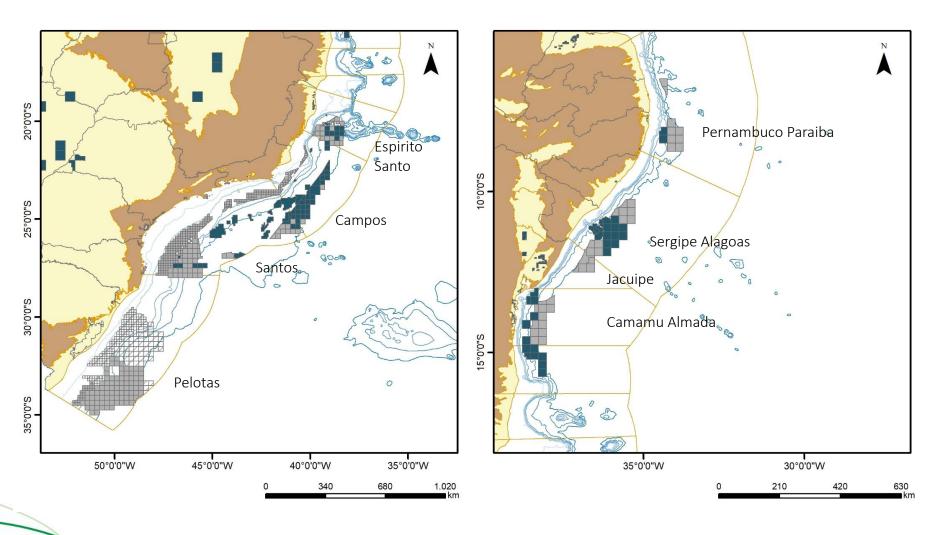




13 Blocks on Offer



### **East Margin Offshore Basins**



**New Frontier and Consolidated Basins** 

World Class Plays

Several Giant Fields

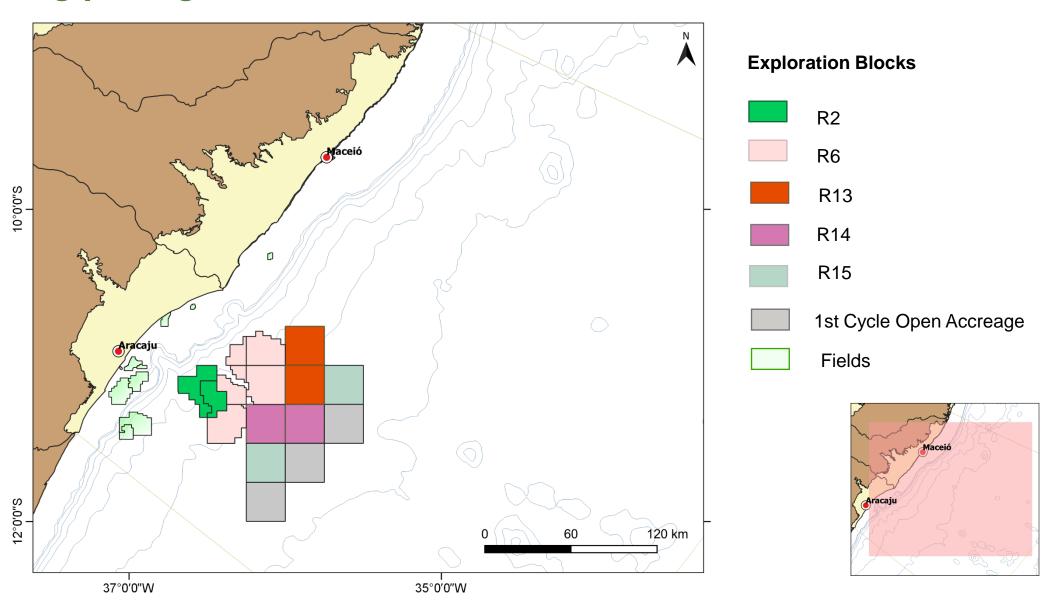
463 Blocks on Offer – Open Acreage

224 Blocks under Study



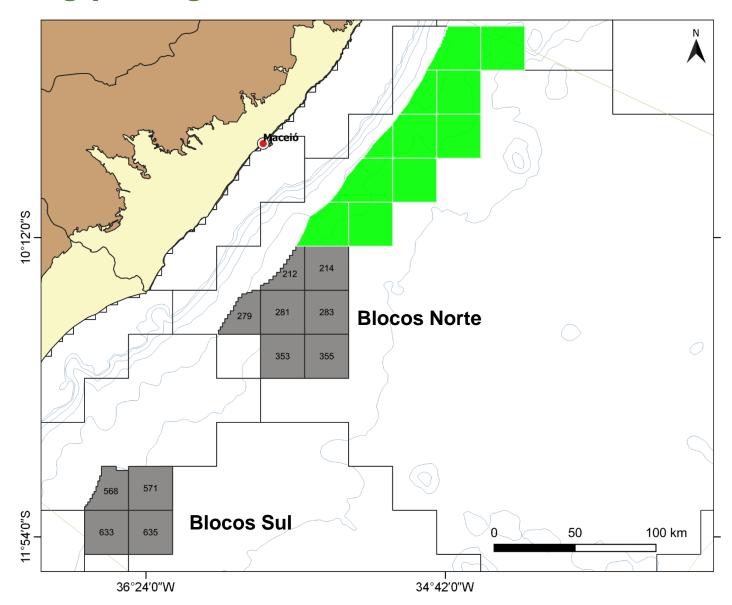


### **Sergipe Alagoas Offshore Basin**





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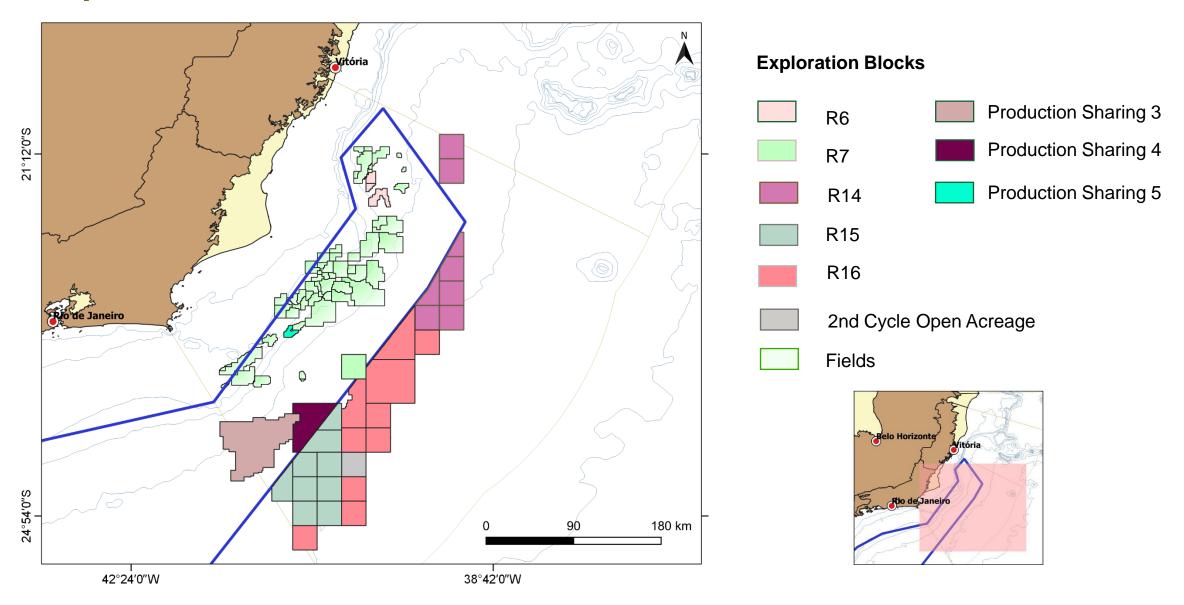




11 Blocks on Offer

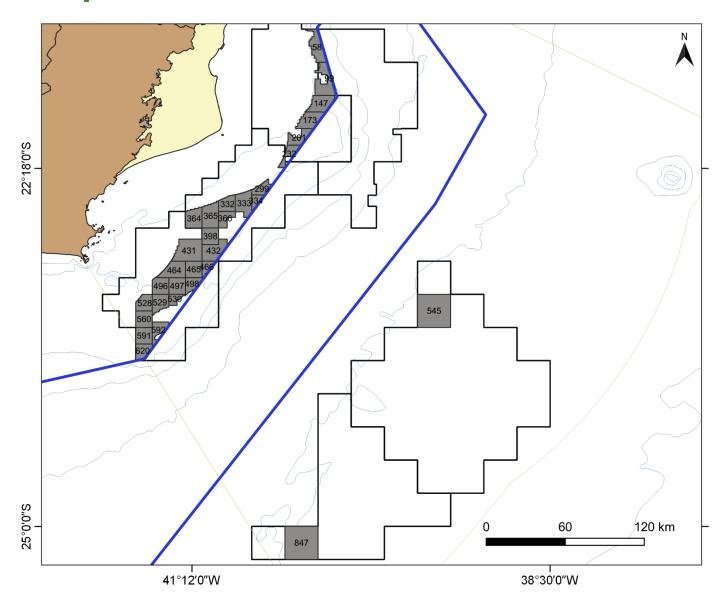


### **Campos Basin**





### **Campos Basin**

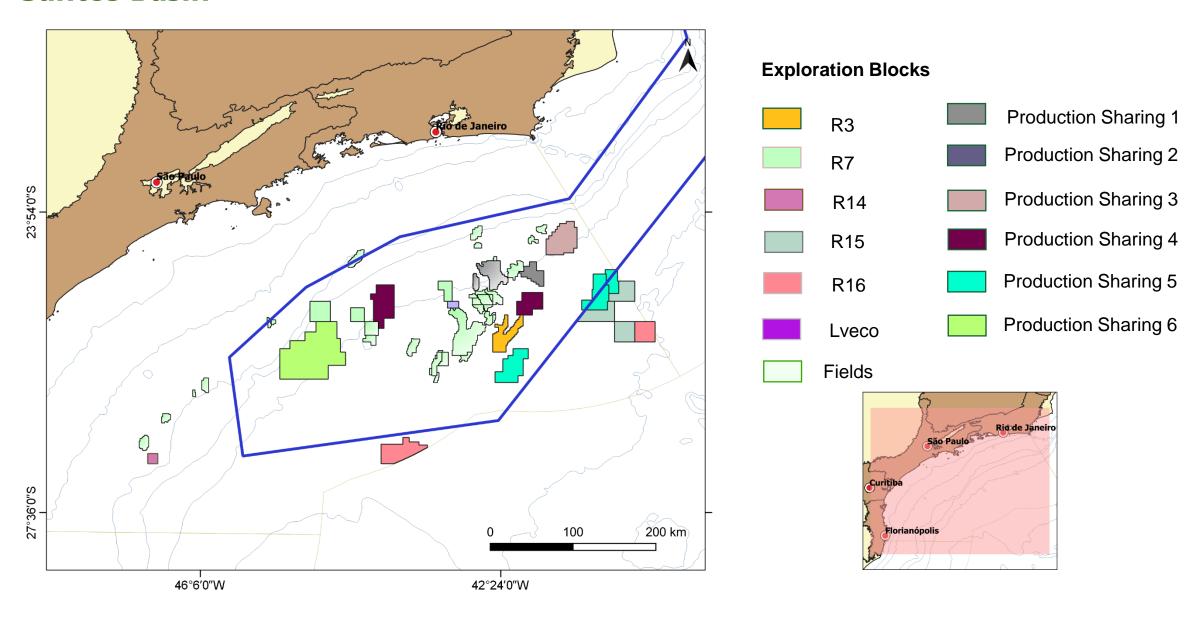




31 Blocks on Offer

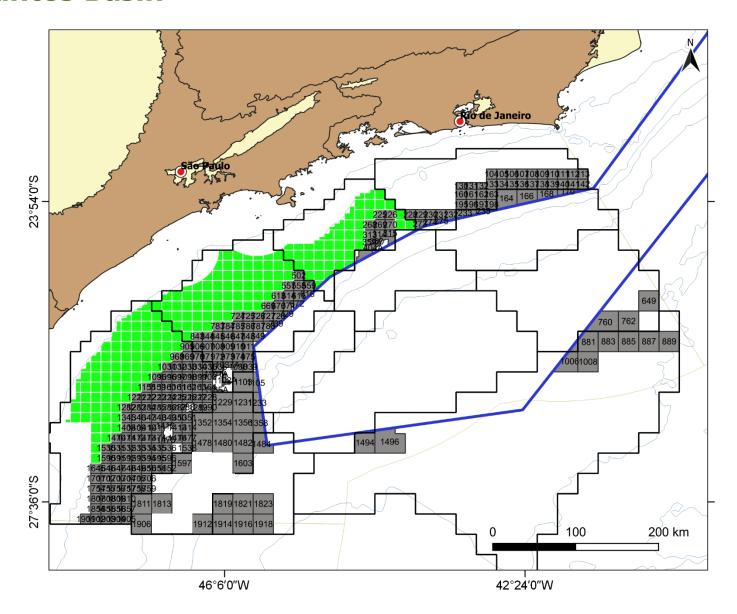


### **Santos Basin**





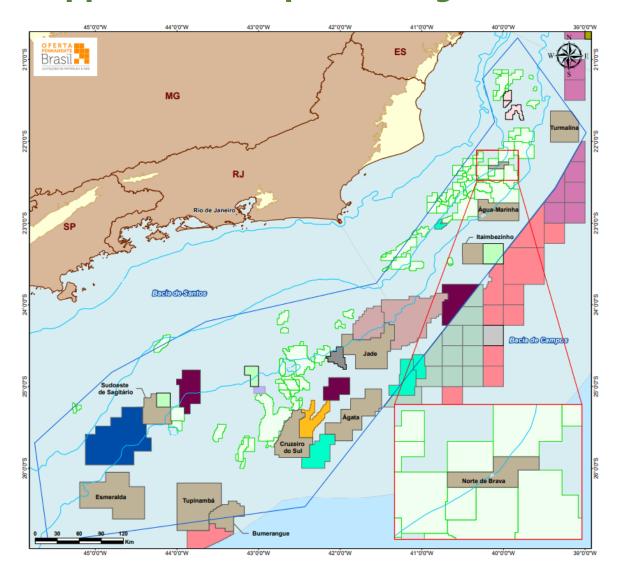
### **Santos Basin**







### **Pre-salt Opportunities Open Acreage**



### 11 Blocks

Agata
Agua Marinha
Bumerangue
Cruzeiro do Sul
Esmeralda
Itaimbezinho
Jade
N of Brava
SW Sagitario
Tupinamba
Turmalina





http://rodadas.anp.gov.br/pt/

www.gov.br/anp/pt-br

https://www.gov.br/anp/pt-br/assuntos/investments-opportunities-in-brazil

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