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## Brazil at a glance

And the importance of the O&G Industry













anp



Billion USD in investments in the last 10 years (IBP, 2020)



4

Billion reais in R&D in 2018 and 2019 (ANP)



1.5

Trillion reais in taxes and government take between 2008 and 2018 (IBP, 2020)



## THE E&P SECTOR IN BRAZIL









♦3.1

**0134** 

Million bpd of oil (August 2020)

Million m<sup>3</sup> of gas (August 2020)

**9**15

Billion boe of proved reserves -(December 2019) **©**25

Billion boe of total reserves – 3P (December 2019)

101 Groups / Companies

#### 3 Environments

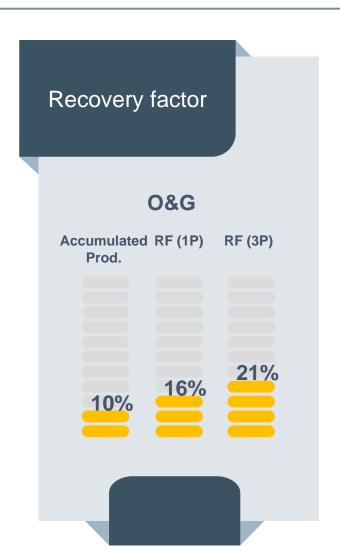
% of Production Pre-Salt 71%



Post-salt Offshore 24%



Onshore 5%





## **E&P Strategic Goals**

Accelerate the pre-salt exploration and development

Increase the mature fields RF and accelerate exploratory activities in the new frontier basins

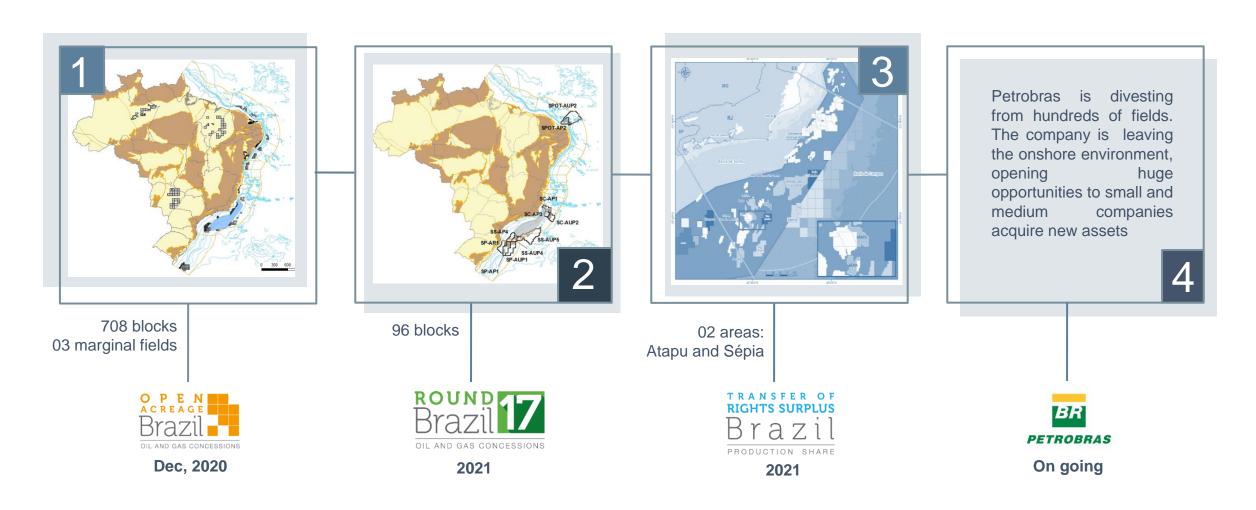


Revitalize the onshore, increase the mature fields RF, promote the independent producers' market, intensify exploratory activities, quantify the oil potential

Attract the right players for each environment (assets in right hands)



# Brazil has many and great opportunities to acquire new assets



And much more to come...



# Brazil is taking measures to emerge stronger in a post Covid-19 world

6 Royalties reduction for small and medium operators Contracts extension Simplifying regulation marginal fields





We are working to restore
the industry, reduce
aboveground risks and
consolidate a competitive and
attractive environment for
companies of all sizes



## **DECOMMISSIONIG IN BRAZIL**



## Motivations for updating the regulation

Resolution ANP nº 817/2020





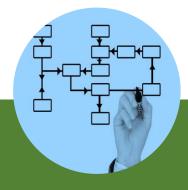
Incorporate the National
Energy Policy Council
guidelines (avoid premature
decommissioning and
increase RF)

CNPE Resolution No. 17/2017 addresses the increase in RF as an E&P policy, establishing the Permanent Offer of returned areas. Also, ANP must avoid premature decommissioning



Improvement of technical, environmental, operational safety and port state requirements in a single regulation

Modernization of the decommissioning regulation, including the joint effort of ANP, IBAMA and the Navy to update all technical requirements for offshore decommissioning, translated into a single PDI to be delivered by operators



Establish well-defined procedures and deadlines, as well as the unification of other related regulations

Define deadlines and procedures for decommissioning, as well as for returning areas (including exploratory ones).

Update and unify requirements for assets disposal and criteria for assigning rights (Three resolutions in one)

### **Main innovations**





03

Decommissioning Justification Study



Sale and reversal of assets: except the reversal of some assets, prohibit wells sale;



04

05

Transfer of Rights: agreement, with the ANP consent, on the facilities to be decommissioned by the assignor that will be approved by the acquirer

07

Presentation of a data-sheet for the navigation aid project and the post-decommissioning monitoring plan

Single PDI

transfer of PDI operations, review or execution

Permanent Offer

(onshore):

Social Responsibility
Management System

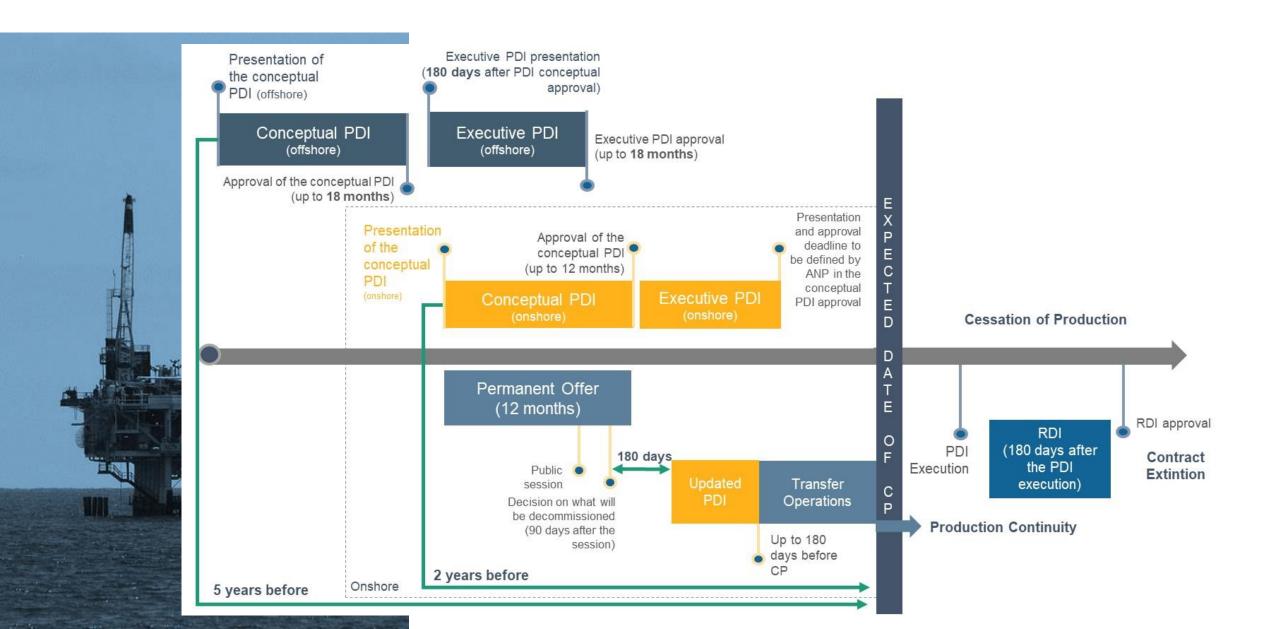




Transparency, legal certainty and standardization of documents



### **Deadlines & Procedures**



## Decommissioning as business opportunity





#### 85 Bi USD

planned for decommissioning in the world in the next decade (Wood Mackenzie)



#### 11%

is the Brazil's share - 3<sup>rd</sup> in the ranking (Wood Mackenzie)



#### 14.5 Bi USD

to 16 Bi USD planned for offshore decommissioning in Brazil until 2029 (Wood Mackenzie)





#### ~6Bi USD

planned for decommissioning between 2020-2024 (Petrobras, 2020)



#### ~6%

of the planned investments in D&P between 2020-2024 (PAT, 2020)



#### 18

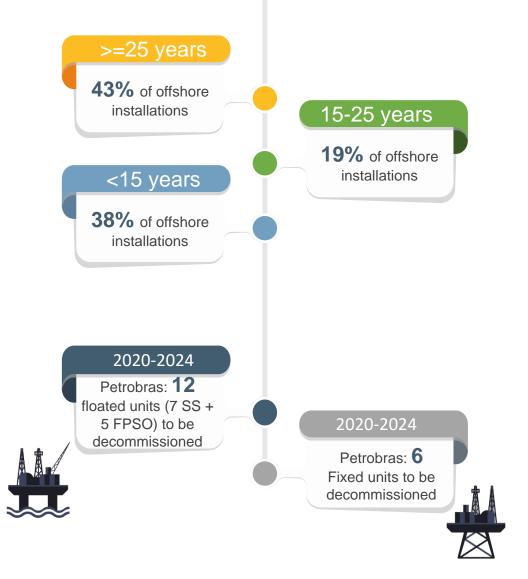
Offshore installations planned to be decommissioned (Petrobras, 2020)



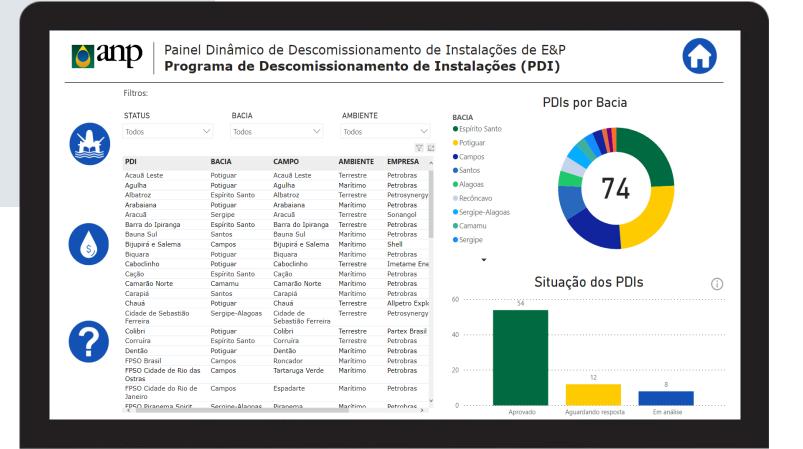


## **Overview of Offshore Installations**

	Offshore Installations Age		
Basin	>=25 years	15 - 25 years	<15 years
Campos	29	17	30
Potiguar	8	12	9
Sergipe	23	2	2
Santos	2	1	23
Ceará	11	2	0
ES	4	0	2
Camamu	0	0	1
Total 뜼	77	34	67









#### You can access the full list:

https://app.powerbi.com/view?r=eyJrljoiN TE2Nzg5MzQtZTk4NC00OTE4LWExYjkt ZDI3MzVkNjcxZGRhliwidCl6ljQ0OTImN GZmLTI0YTYtNGI0Mi1iN2VmLTEyNGF mY2FkYzkxMyJ9

## **Final Considerations**

Many opportunities to create value



#### **REGULATION**

#### **LOGISTICS AND INFRASTRUTCTURE**

#### **TECHNOLOGY**





3 technical rules condensed in 1 Transparency

Standardised PDIs and RDIs Transfer of Rights

Permanent Offer

Comparative Assessment

Post-**Decommissioning Monitoring** 



Vessels (PSVs, Heavy Lifts etc)

Waste management

NORM detection and management

Shipyards and ports





Life extension

Structural Reliability

**Environmental Monitoring** 

**Cutting Tools** 

RD&I



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