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IBOVESPA B3 IBRX100 B3 IBRA B3 IGC B3 IGCT B3 SMLL B3 IGC-NM B3 ITAG B3

PETROLEUM

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# 3R Petroleum Overview



## Corporate Structure | Shareholders and increase in liquidity since the IPO



R\$2,088 MM

Follow On II

nov-21



Jan-22 Feb-22

(R\$ MM)

300

250

200

150

100

50

4

### Management | Solid Governance Structure





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# 2021 Highlights | A year marked by strong execution



# 🗐 Strategy

#### Acquisition of Potiguar Cluster:

- ✓ Asset raises 3R to the list of top oil and gas producers in Brasil and Latin America;
- ✓ Largest onshore and shallow water cluster;
- ✓ Full synergy with 3R's portfolio;
- ✓ Access to international oil markets and open path to export ~90% of total oil production.

#### **Stronger Capital Structure:**

- ✓ 2 Follow Ons: equity raising of R\$2.9bi in 2021 to allow portfolio construction, including Potiguar Cluster and CapEx plans;
- ✓ Debt Prepayment of US\$ 130MM in 4Q21 to optimize capital structure.

#### **Renegotiation of Gas Contracts**

Better monetization of gas in Macau and Pescada.

#### **RRRP3** joins Ibovespa Index

Main performance indicator on B3: companies with highest liquidity and representativeness.

### **Operation Evolution**

Oil Production (bbl/d)







### **Financial Performance**







# 3R Petroleum | Ready to move forward with the development plans





### Source: ANP and Company | Notes: (1) Considering the total production of Macau (including 100% of Sanhaçu), Areia Branca, Pescada, Fazenda Belém, Rio Ventura, Recôncavo, Peroá, Papa-Terra and Potiguar; (2) Considering 70% of Peroá, 43.75% of Papa-Terra; (3) Considering independently operated publicly traded companies with operations in Brazil.



Together with its efficient trajectory in M&A, 3R has reached several strategic milestones since its IPO, while deploying a robust production growth in its operations.



## M&A trajectory | Most diversified portfolio in the sector built with low entry multiple





#### **Brent Prices and Assets Signing Dates**





# Investment Thesis



# Investment Thesis Highlights





Relevant independent oil and gas player in Brazil

................

Strong M&A trackrecord, with very low entry multiples

Focus on safety and operational & financial efficiency 24

Highly experienced management team, with proven execution capabilities as shown by recent results



Value generation from the redevelopment and revitalization of mature fields

### Brazilian Market | Innovative value proposition in the energy sector





# 3R Petroleum Thesis | An unique value proposition in the O&G industry







# 3R Reserves Overview | Focus on proved and certified reserves



**493.5** MMboe certified 2P reserves



✓ 354.8 MMboe or 72% of the reserves are classified as proven (1P), reducing the Company's execution risk

Certified Reserves	Certified Volumes 1P (MMboe)	Certified Volumes 2P (MMboe)	Certified Volumes 3P (MMboe)	Cluster	2P Entry Multiple (US\$/boe)
Масаи	44.9	50.5	56.1		
Pescada Arabaiana	3.6	15.1	16.3		3.5
Fazenda Belém	7.1	12.6	14.8	Potiguar	
Areia Branca	4.6	8.5	14.4		
Potiguar	169.7	229.3	267.0		N/A
Rio Ventura	15.5	24.9	36.2	Recôncavo	4.0
Recôncavo	46.7	61.2	77.1	Recolleavo	4.0
Peroá (70% WI)	15.0	16.7	19.2	Offshore	1.2
Papa-Terra (43.75% WI)	47.8	74.8	96.5	Unshore	1.2
Total 3R Petroleum	354.8	493.5	597.7		(2.9)
NPV @ 10% (US\$ billion) <sup>(1,2)</sup>	US\$ 3.79	US\$ 5.40	US\$ 6.79		-

P1 Reserves: at least 90% probability that the quantities recovered will be equal to or greater than the P1 estimate; P2 Reserves: at least 50% probability that the quantities recovered will be equal to or greater than the P3 estimate; P3 Reserves: at least 10% probability that the quantities recovered will be equal to or greater than the P3 estimate; P3 Reserves: at least 10% probability that the quantities recovered will be equal to or greater than the P3 estimate; P3 Reserves: at least 10% probability that the quantities recovered will be equal to or greater than the P3 estimate; P3 Reserves: at least 10% probability that the quantities recovered will be equal to or greater than the P3 estimate; Source: Company, Degolyer and MacNaughton's and Gaffney Cline's certification reports; Certification reports have different base dates and can be accessed in full through IR Website. Notes: (1) Does not include the remaining 50% stake in Sanhaçu; (2) Does not include NOL.

# 3R Reserves | Diversified portfolio with oil and gas exposure



#### **3R Portfolio Breakdown – 2P Certified**<sup>(1)</sup> **Reserves** (MMboe)

493.5 74.8 Potiguar Basin Recôncavo Basin 3R Offshore 16.7 61.2 Adjusted to 100% stake in the Sanhaçu field 24.9 8.5 12.6 15.1 50.5<sup>(2)</sup> 229.3 Potiguar Macau Fazenda Belém Areia Branca Rio Ventura Recôncavo Peroá Papa-Terra **3R** Petroleum Pescada most reserves % of 1P: 74% 89% 24% 56% 62% 76% 89% 54% 64% 72% classified as 1P 98% 90% 36% 100% 89% 79% 2% 100% 90% % of Oil: 100%

Source: Company

# Low risk strategy | Assets producing for over 10 years and low recovered fraction



# Historical O&G Production of 3R Assets (kboe/day)

#### Estimated Future O&G Production of 3R Assets<sup>1</sup>

(kboe/day) | Estimates from Degolyer and MacNaughton & Gaffney Cline certification reports



🔳 Macau 📮 Pescada 🔳 Fazenda Belém 🔳 Recôncavo 🔲 Rio Ventura 🔳 Areia Branca 📕 Peroá 📕 Papa-Terra 📕 Potiguar

2052

# **Oil Production | Operational efficiency in Macau and Rio Ventura**



**Macau Oil Production** 



**Rio Ventura Oil Production** 

(Quarterly and Monthly bbl/d)





+35% 971 976 882 724 Jun - 21 Jan-22 Feb-22 Mar-22 3R's execution in revitalizing mature fields has been yielding solid results across different assets located in different basins;

Automation of wells, bringing efficiency and boosting production;

Efficient return on invested capital: Reactivation of idled wells and intervention in other existing producing wells, replacement of outdated equipment and rapidly increase in production with low investments;

**3R is ready to replicate its strategy** on the fields that the Company is yet to takeover operations.

# 1Q22 Total Production | Strong growth trajectory as 3R consolidates its portfolio



**Total Oil Production per Asset** 

(Quarterly bbl/d | 3R work interest)



Average daily production per asset in 1Q22 (% bbl/d)



Average daily production Oil & Gas in 1Q22 (% boe/d)



Total Production Oil & Gas (Quarterly boe/d | 3R work interest)





1Q22 production still

approximately 20% of 3R's signed

reflects



### Oil & Gas Production 2021 – 3R Work Interest<sup>(1)</sup>

(boe/d)



#### 3R Work Interest | Production – 2021

- ✓ Average Daily Production: 45.1 kboe/d
- ✓ Oil Production: 36.1 kbpd (80% of total)
- ✓ Gas Production: 1.4 MMm<sup>3</sup>/d (20% of total)

### Average daily production per asset in 2021 (% | boe/d) – 3R Stake



### Net Revenues 2021 | Macau<sup>1</sup>, Rio Ventura, Areia Branca and 35% of Pescada Clusters



### Net Revenues 4Q21 | 3R

(R\$ MM)





# Net Revenues per Asset | 4Q21



### **Revenue Highlights**

- ✓ Results in 4Q21 still reflect approximately 19% of 3R's signed portfolio production;
- ✓ 3R revenues in 2021 are 4 time bigger than in one 2020;
- ✓ Rio Ventura and Areia Branca represented 12% and 5% of the total revenues in 4Q21 respectively;
- ✓ Sale of Oil represented 96.4% of the revenues in the quarter.

## Adjusted Ebitda 4Q21 & 2021



Adjusted EBITDA

(R\$ MM)



✓ 3R boosted its adjusted EBITDA and efficiency in the second year of operation, multiplying EBITDA for more than 6.7 times;

- ✓ 2021 adjusted EBITDA margins contemplates transition corporate costs as 3R prepares to operate
  9 assets, including the offshore assets;
- At least 3 assets will have the transition phase concluded in the first half of 2022. Those milestones will normalize margins and EBITDA in the coming quarters;

# Lifting Cost & Capex





(US\$ MM)



### Lifting Cost 2021 – 3R

(US\$/boe)



**Rio Ventura** 

22.4

3Q21

20.8

4Q21

Areia Branca

21.5

4Q21

- ✓ 3R ended 2021 with the lowest lifting cost among its peers in the Brazilian O&G industry;
- ✓ Macau is the most efficient asset in 3R's Portfolio with lifting cost of \$6.6 in 2021;
- ✓ New integrated assets come with higher lifting cost in the beginning of the operation due to: (i) costs associated with the transition; (ii) the lower level of production in the early stages of the operation; and (iii) backlog of operational activities from previous operator.



#### Lifting Cost (US\$/boe)

Macau



### **Cash & Obligations**





#### Portfolio Obligations<sup>1</sup>

(US\$ MM)



**US\$ 110 MM of firm commitments** was paid in January 2022 for Potiguar Cluster signing

#### **Hedge Position**







**a**1

Company led acquisitions in Petrobras' onshore and offshore divestment plan



Low exploratory risk given the strategy focused on mature onshore and offshore fields

₹ 2

Strong organic growth projected through the recovery factors improvement from acquired fields

€ 5

One of the main growth platforms in Brazil, with a highly experienced management team specialized in the management and operation of onshore and offshore fields

	5
6	5

Resilience in lower oil price scenarios, given the low breakeven cost of the fields

₹ 6

The Company has a solid track record in **M&A and** high ESG standards











# Portfolio



## Potiguar Cluster Acquisition | Open path for full integration in the Potiguar basin



Fully integrated with the portfolio acquired by the Company in the region

- ✓ Production of 20.7 kbbl of oil/day and 59.2 km³/day of gas in 2021;
- Potiguar Cluster acquisition puts the Company among the biggest producers in Latam;
- ✓ Optimized operation with synergies, gains in scale with suppliers and service providers;
- ✓ Reduced of logistic costs;
- ✓ Substantially expands the scale of production and the capacity to replace and increase reserves;







#### Sizeble Asset

22 concessions, while 19 being onshore and 3 offshore 21 kboed production on 2021 3.92 Bbbl of VOIP

#### **Recovery Factor**

Recovery factor levels incompatible with the clusters' reservoir quality and oil type Main reason: very low level of secondary recovery carried out by Petrobras and lack of investments and activity due to its focus on the Pre-Salt

#### Integrated Logistics Enabling Low Lifting Costs

Onshore and offshore O&G fields connected by pipelines to collection stations Integration of fields, collection stations, separation plants, refining, export system and / or distribution, enabling reduced extraction cost

#### **Strategic Access to International Oil Markets**

Guamaré waterway terminal provides 3R the capacity to tap into international markets, making the company independent of local clients

### **Tax Efficiency**

Possibility of exporting all oil produced in RN, with tax exemption on SUDENE revenue for all onshore and offshore production

## Potiguar Cluster | Asset with more strategic opportunities in Petrobras' divestment plan





#### Strategic access to international oil markets

- ✓ Independence from local clients;
- ✓ Flexibility to export all crude oil production in Potiguar Basin, including 3R and other players concessions;
- ✓ Capacity to export 90% of the total oil production or 74% of total production;



#### Integrated logistic supporting low lifting costs

- $\checkmark$  Onshore and offshore fields connected by pipelines;
- Integration of fields, collection stations, separation plants, refining, export system and / or distribution.



Largest Onshore producing asset;



Waterway terminal, refinery, NGPU, treatment stations and pipelines



Fully integrated Cluster



#### **Complete infrastructure:**

Processing, refining, storage, transport and outflow of oil and natural gas:

- ✓ Terminal: Exports and imports of raw and/or processed products.
- Refinery: Installed capacity of ~40 kboepd Gasoline, Diesel, Diesel S500, Bunker and Aviation Kerosene;
- ✓ NGPU: Installed capacity 5.7 Mm³/d 1.8 Mm³/d in operation;
- $\checkmark$  Storage Capacity: 1.8MM bbl, more than 20 days of production on RN.

**3.92** Bbbl volume of oil in the reservoir **20.7** kbbl/d Daily average production in 2021

~17% oil recovered fraction Storage Capacity: 1.8MM bbl



### **Macau Cluster**



Status	3R Operation
Location	Rio Grande do Norte
Basin	Potiguar
Туре	Onshore e Shallow Water
3R WI	100%
# de fields/concessions	5
Concessions Term	2025 (extendable by 27 years)
1P Reserves (Mboe) <sup>1</sup>	44.9   90% oil
2P Reserves (Mboe) <sup>1</sup>	50.5   90% oil
Offtaker	Petrobras

**Production History** 









1983 1985 1987 1989 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021

### **Pescada Cluster**





### **Operational and Strategic Highlights**

Status	Operational Transition
Location	Rio Grande do Norte
Basin	Potiguar
Туре	Shallow Water
3R WI	100%
# de fields/concessions	2
Concessions Term	2025 – 2026 (extendable by 27 years)
1P Reserves (Mboe)	3.6   84% gas
2P Reserves (Mboe)	15.1   64% gas
Offtaker	Petrobras

#### **History Production**





### Fazenda Belém Cluster





### **Operational and Strategic Highlights**

Status	Operational Transition	
Location	Ceará	
Basin	Potiguar	
Туре	Onshore	
3R WI	100%	
# de fields/concessions	2	
Concessions Term	2025 (extendable by 27 years)	
1P Reserves (Mboe)	7.1   100% oil	
2P Reserves (Mboe)	12.6   100% oil	
Offtaker	Petrobras	

#### **History Production**

#### Oil (thousand bbl/d)



1981 1983 1985 1987 1989 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021

### **Areia Branca Cluster**



### **Operational and Strategic Highlights**

Status	3R Operation
Location	Rio Grande do Norte
Basin	Potiguar
Туре	Onshore
3R WI	100%
# de fields/concessions	2
Concessions Term	2025 (extendable by 27 years)
1P Reserves (Mboe)	4.6   100% oil
2P Reserves (Mboe)	8.5   100% oil
Offtaker	Petrobras

**History Production** 



# **Recôncavo Complex | Capturing synergies in Bahia**



# Efficient production structure and cost optimization

- ✓ Integrated operation
- ✓ Relevant player in the Recôncavo Basin
- ✓ Development of oil and gas production
- ✓ Average daily production of 2.7 kbbl of oil and 501 km³ of gas in 2021
- ✓ Huge opportunity of wells reactivation in a traditional oil region in the country;
- ✓ Optimized operation with synergies, gains in scale with suppliers and service providers;
- Scale of production and capacity to replace and increase reserves.



### **Rio Ventura Cluster**





### **Operational and Strategic Highlights**

Status	3R Operation
Location	Bahia
Basin	Recôncavo
Туре	Onshore
3R WI	100%
# de fields/concessions	8
Concessions Term	2025 – 2037 (extendable by 27 years)
1P Reserves (Mboe)	15.5   90% oil
2P Reserves (Mboe)	24.9   89% oil
Offtaker	Petrobras

**History Production** 

#### Oil (thousand bbl/d)



1955 1958 1961 1964 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 1997 2000 2003 2006 2009 2012 2015 2018 2021

### **Recôncavo Cluster**





### **Operational and Strategic Highlights**

Status	Operational Transition
Location	Bahia
Basin	Recôncavo
Туре	Onshore
3R WI <sup>1</sup>	100%
# de fields/concessions	14
Concessions Term	2025 – 2039 (extendable by 27 years)
1P Reserves (Mboe)	46.7   74% oil
2P Reserves (Mboe)	61.2   79% oil
Offtaker	Petrobras

#### **History Production**

#### Oil (thousand bbl/d) 25.0 20.0 15.0 10.0 5.0 0.0

1945 1949 1953 1957 1961 1965 1969 1973 1977 1981 1985 1989 1993 1997 2001 2005 2009 2013 2017 202







Value creation: Competitive acquisitions, diversification and scale in prodution

- ✓ Competitive multiple acquisitions per 2P reserve
- ✓ Exposure to oil and gas
- Average daily production of 6.5 kbbl of oil and 575 km<sup>3</sup> of gas in 2021 (3R Working interest);
- ✓ Partnership with experienced groups: DBO Energy and MTI Energy Group.
- ✓ Expands the scale of production and the capacity to replace and increase reserves of the Company.







### **Operational and Strategic Highlights**

Status	Operational Transition
Location	Espírito Santo
Basin	Espírito Santo
Туре	Offshore
3R WI <sup>1</sup>	70%
# de fields/concessions <sup>2</sup>	3
Concessions Term	2025 (extendable by 27 years)
1P Reserves (Mboe)	15.0   98% gas
2P Reserves (Mboe)	16.7   98% gas
Offtaker	Petrobras

#### **History Production**







### **Operational and Strategic Highlights**

Status	Operational Transition
Location	Rio de Janeiro
Basin	Campos
Туре	Offshore
3R WI <sup>1</sup>	43.75%
# de fields/concessions	1
Concessions Term	2032 (extensível por até 27 anos)
1P Reserves (Mboe)	47.8   100% óleo
2P Reserves (Mboe)	74.8   100% óleo
Offtaker	Em negociação



