

Decommissioning in Petrobras

*Innovative Solutions
for Project Success*

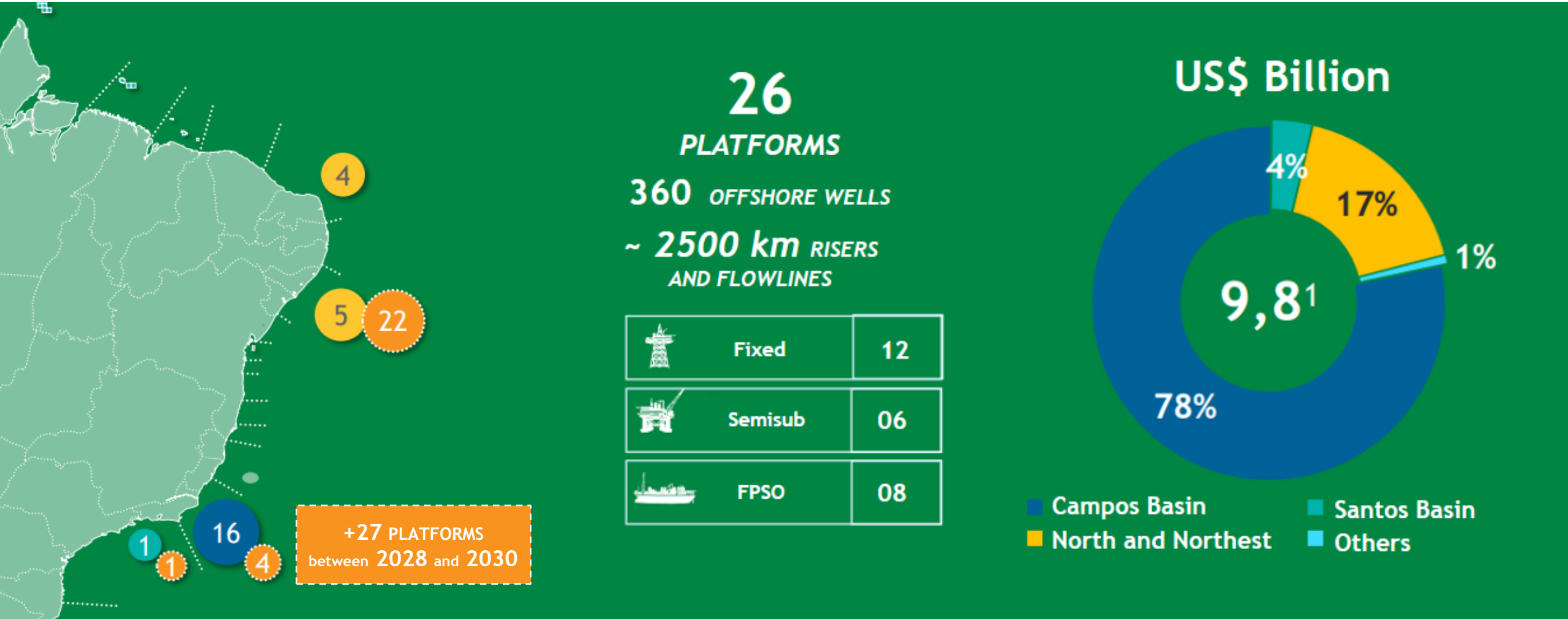
Eduardo Zacaron

BR PETROBRAS

70 anos



Petrobras Portfolio (Strategic Plan 2023-2027)



¹ Includes the reimbursable portion of decommissioning costs to asset buyers worth US\$1.1 billion

Floating platforms follow new recycling policy

... *but still depends on several other services*

- *Mooring and pull out system repair*
- *Crane repair and adjustment*
- *Tanks cleaning and oily sludge disposal*
- *Topside making safe (cleaning and conditioning)*
- *NORM cleaning and disposal*
- *Biofouling cleaning and disposal*
- *Disconnections*
- *Towing*
- *Platform docking*

Petrobras to leverage platform decommissioning as a green destination model

The P-32 - the next unit to be decommissioned by the company - will serve as a pilot project for a green vessel recycling policy

Published in 26/01/2023 at 12:24:09



Petrobras concludes first sustainable platform destination auction

The P-32 platform will undergo a green recycling process in Brazil, creating jobs and business for local industries.

Published in 07/07/2023 at 16:41:20

The auction for the sale of the P-32 platform was concluded this Friday (7/7). The Campos Basin unit will be the first one to follow Petrobras' new model for the sustainable destination of vessels. The winning company was GERDAU S.A, in partnership with the ECOVIX shipyard.

Petrobras publishes call for tender for the sustainable destination of the P-33 platform

The Campos Basin unit will be the second one to follow the company's new model for the sustainable destination of vessels

Published in 20/09/2023 at 19:24:39

Fixed platforms uses EPRD contract for removal and disposal

Optimization “as is” data compilation processes for detailed operations planning



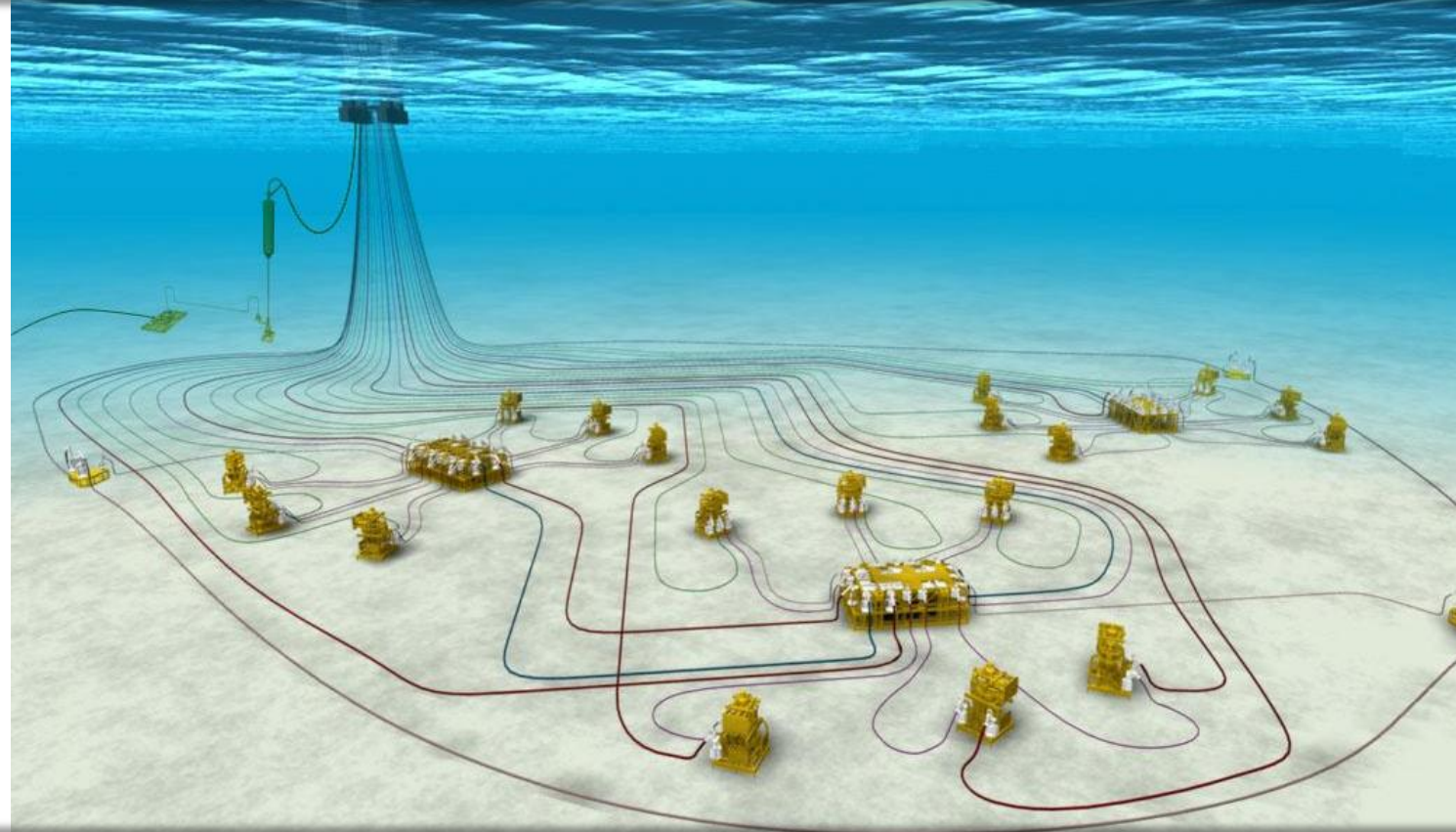
Clustering demand for EPRD contracts

Almost **40** fixed platforms to be decommissioned until **2030**

Platform wells P&A

Subsea systems have lots of optimization opportunities

- *Subsea retrieval (flexibles, equipments, debris)*
- *Pull Outs*
- *Disconnection and plugging of lines and equipment*
- *Cleaning of lines and equipment*
- *Chemical removal from rigid lines*
- *Rigid riser pullout and removal*
- *Geotechnical Inspection*
- *Disconnection of rigid lines*



P&A of wells brings some challenges like...

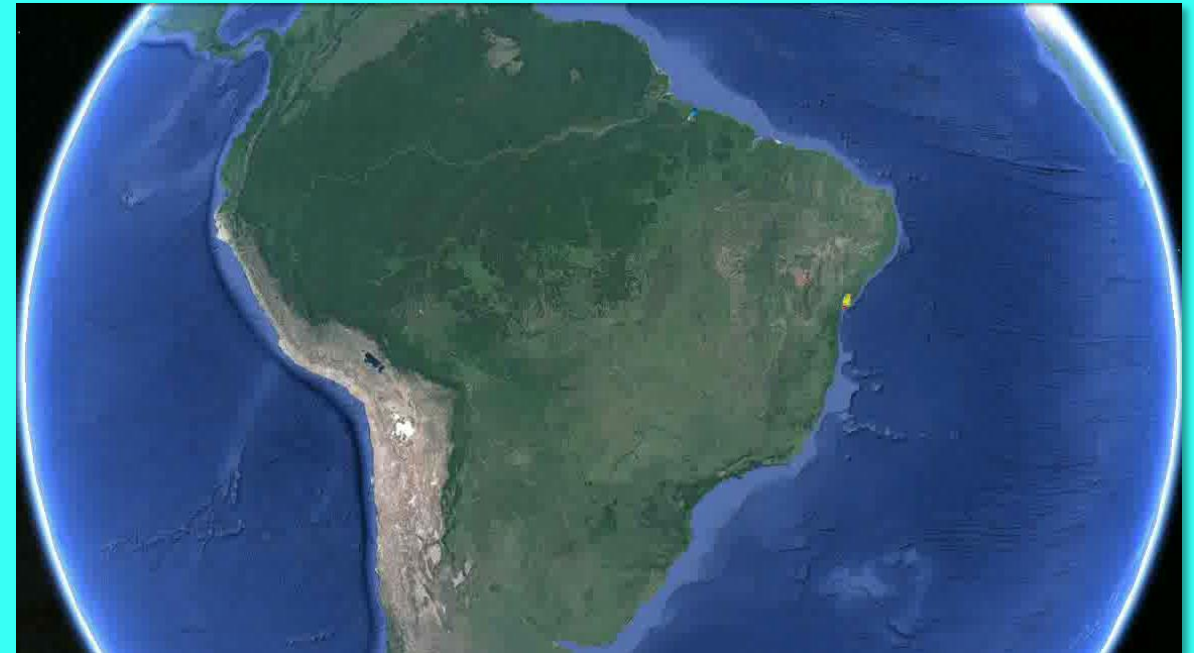
...ultra shallow water P&A

Wells that depend on resources with specific contracting, due to:

- *Physical limitation of access to the well*
- *Water depth from 0m (low tide) to 5m*
- *Need for development of specific logistics and resources*



...disconnected subsea wells monitoring



Summing up

- There are many opportunities, resulting from robust, firm, diverse and perennial demand
- Brazil has many competitive advantages that place it in a favorable position for this market development
- There are important technical gaps to be filled and challenges to overcome

“Decommissioning with efficiency results in greater sustainability”

Obrigado!

Eduardo Zacaron

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*Our decommissioning
website*

