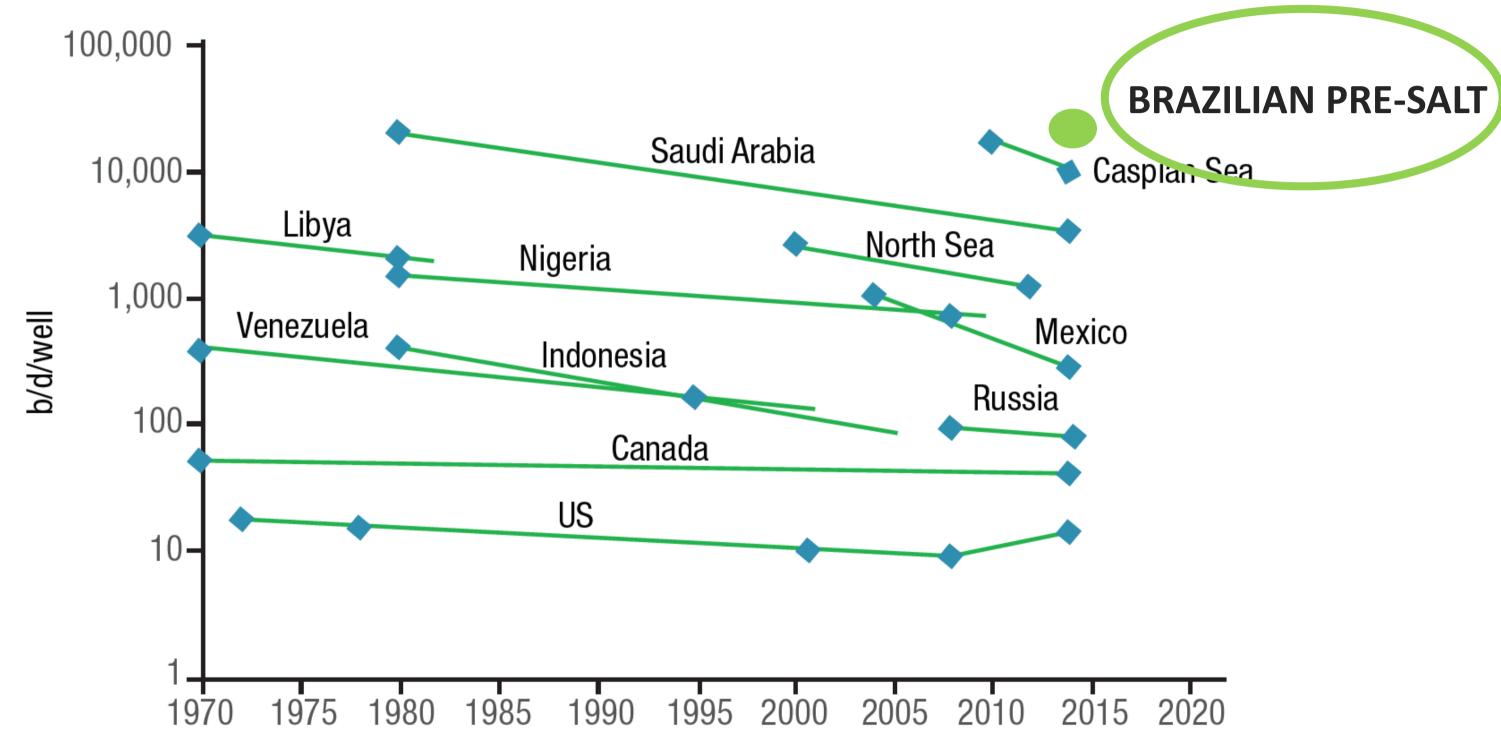


World's top class reservoirs

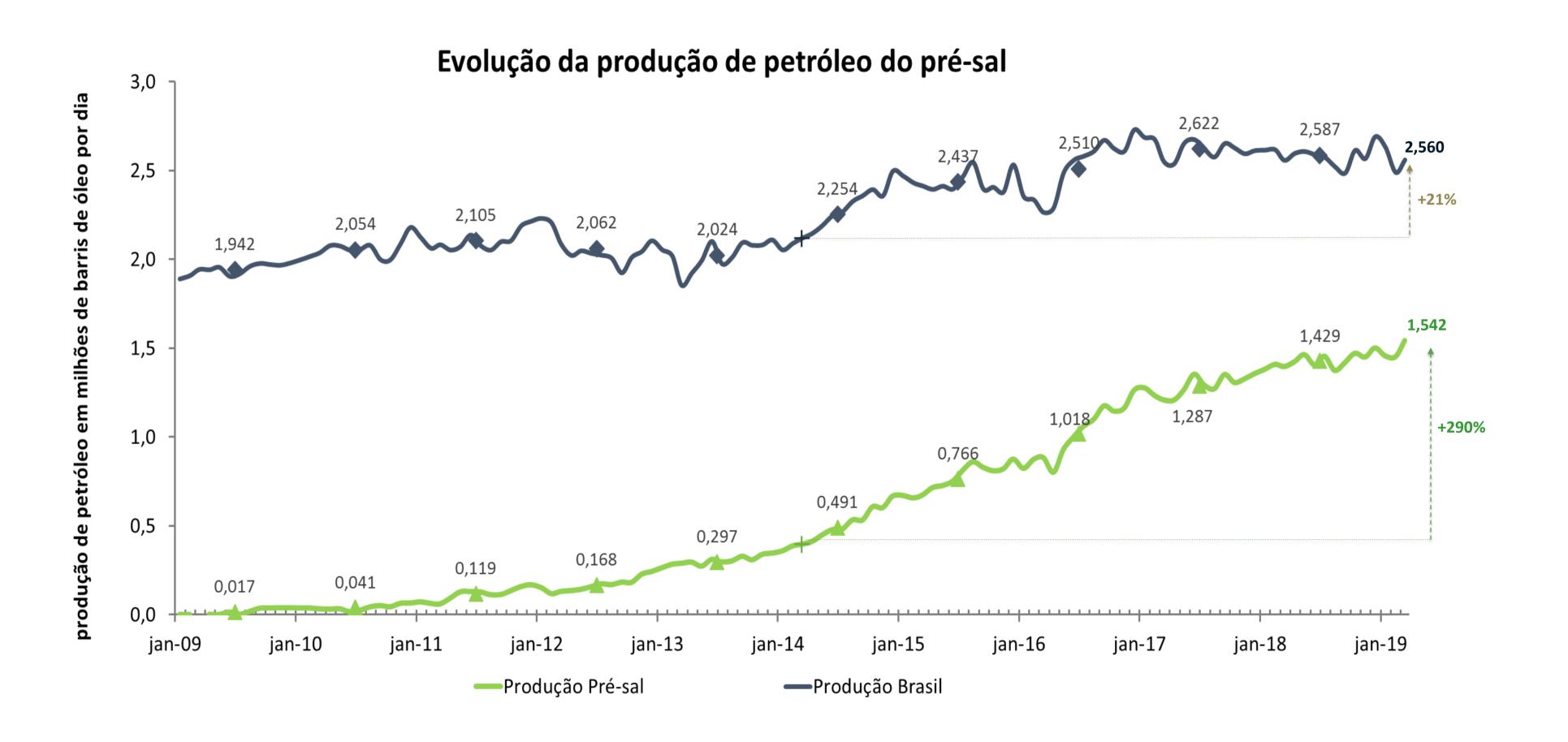




^{*} Sandrea and Goddard, 2016, New reservoir-quality index forecasts field well-productivity worldwide, Oil & Gas Journal, 7 p

Mero (Libra) – 60.000 boe/day out of a single well **Early Production System** First oil only 4 years after PSA execution

The increasing importance of the pre-salt for Brazil





PPSA's three pillars



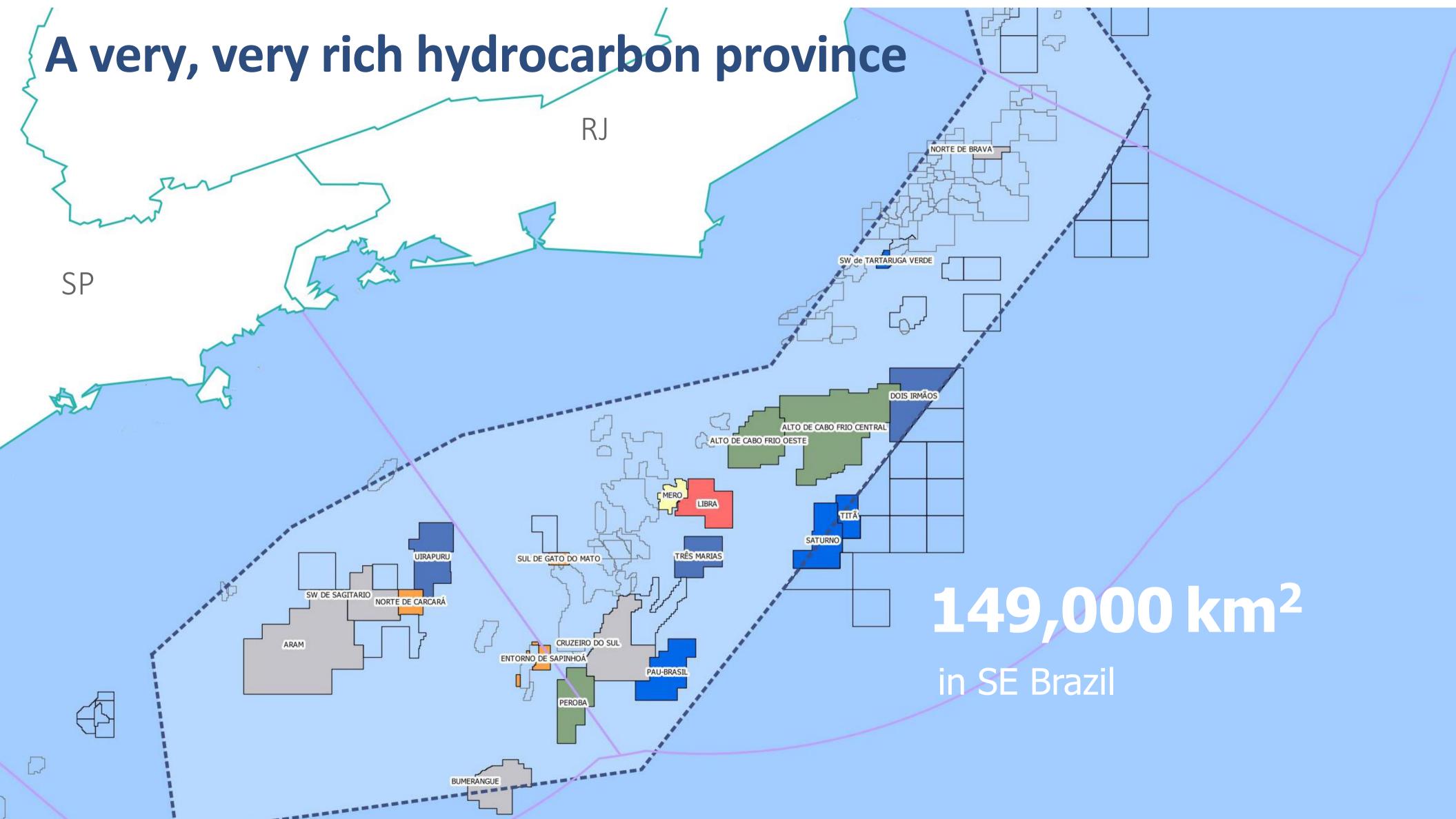


Representation of the Federal Government in the Production Individualization Agreements (unitization)

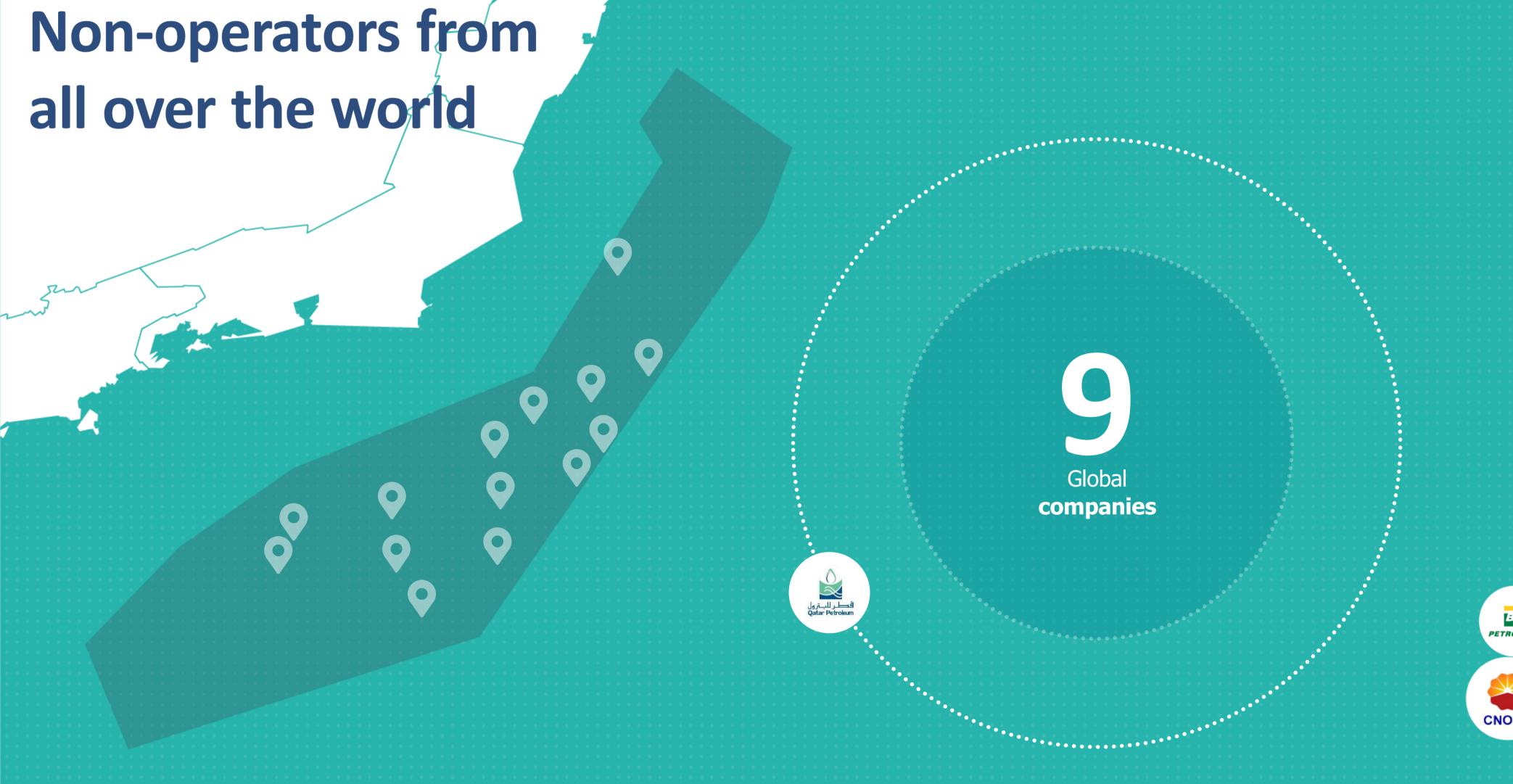


Commercialization of the Federal Government's oil and gas share





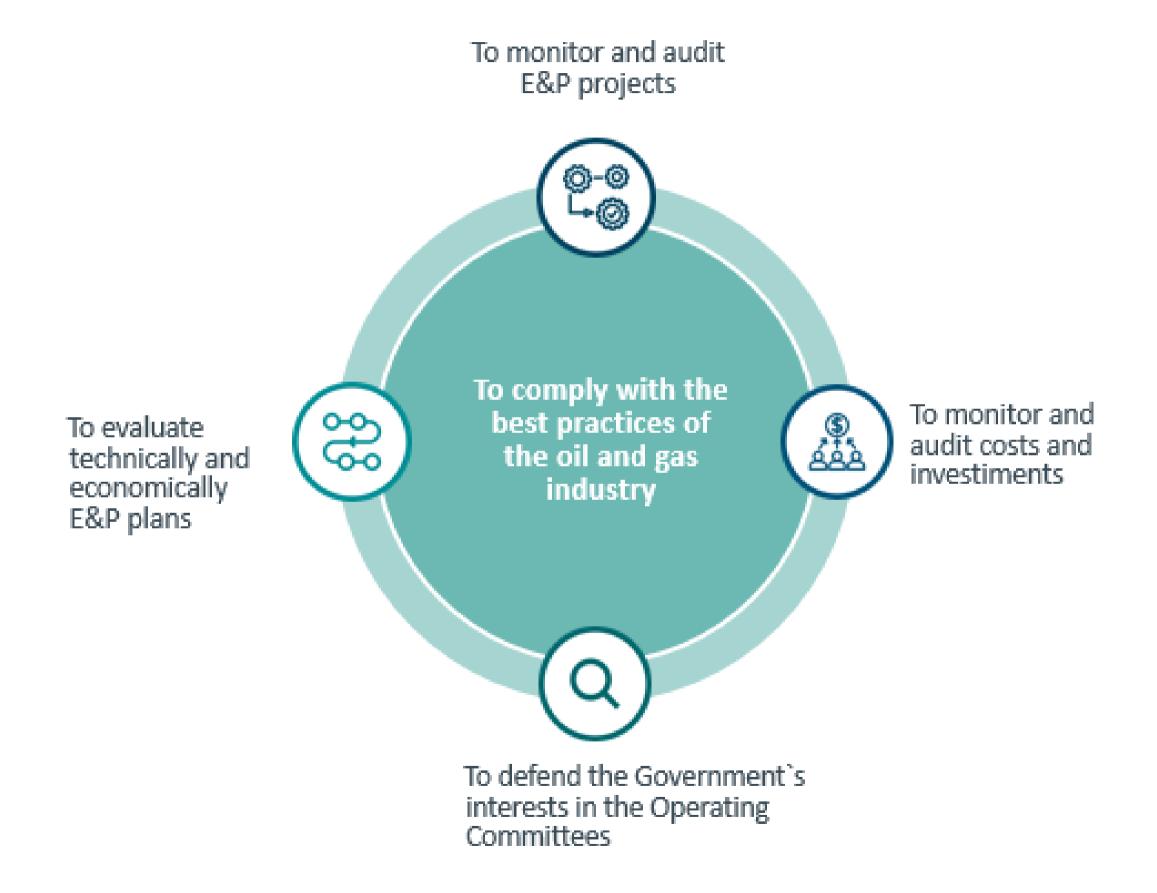




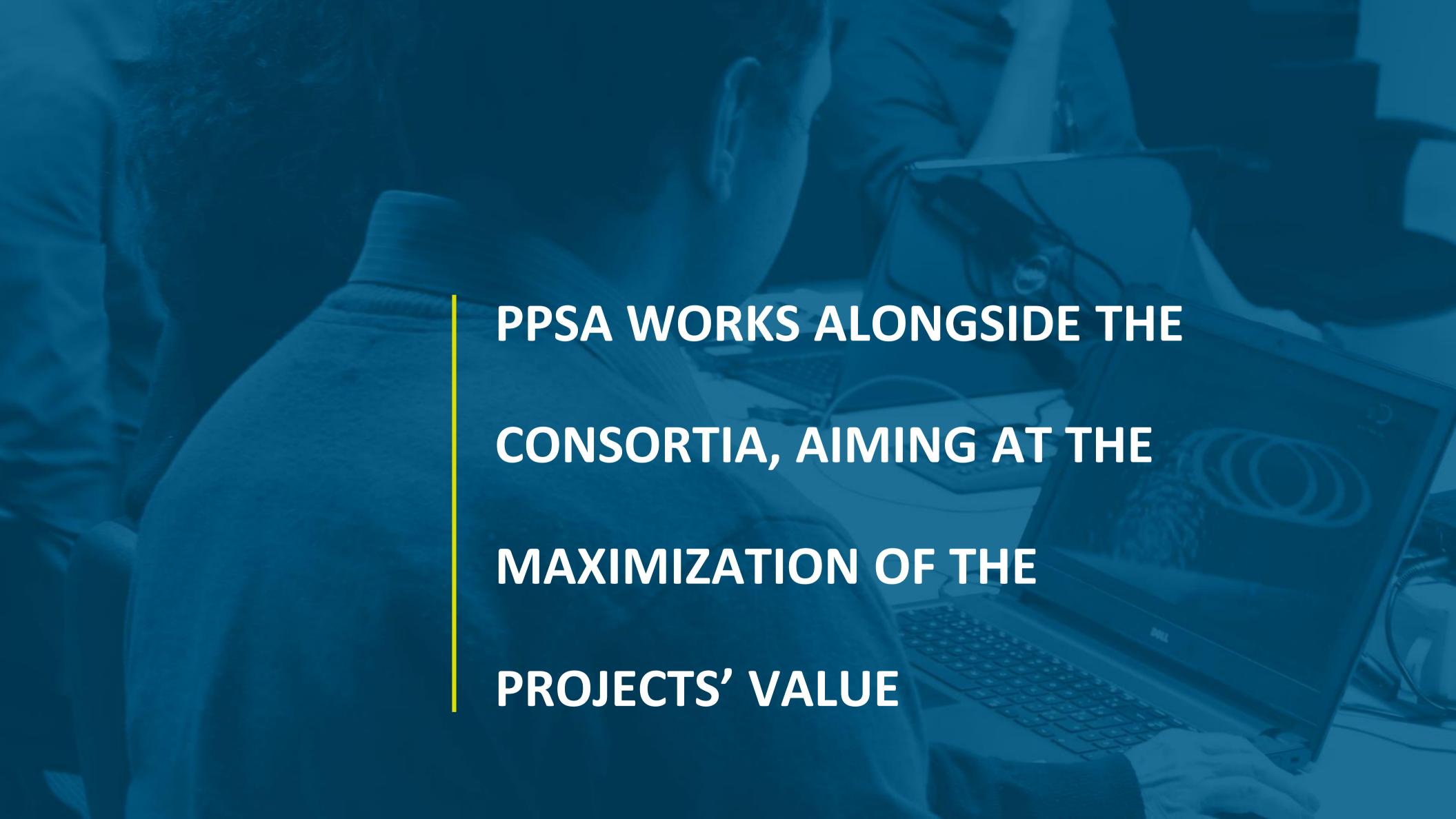




PPSA's legal obligations



- > PPSA's governing principles:
 - 1. Standardization
 - 2. Simplification
 - 3. Transparency

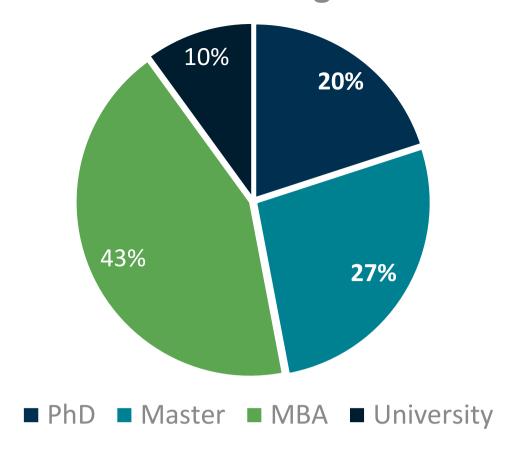


High performance team

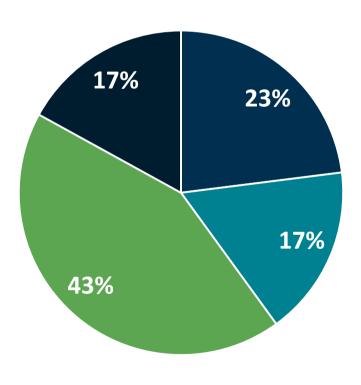
Average experience in the oil & gas industry: 31 years



Academic Background

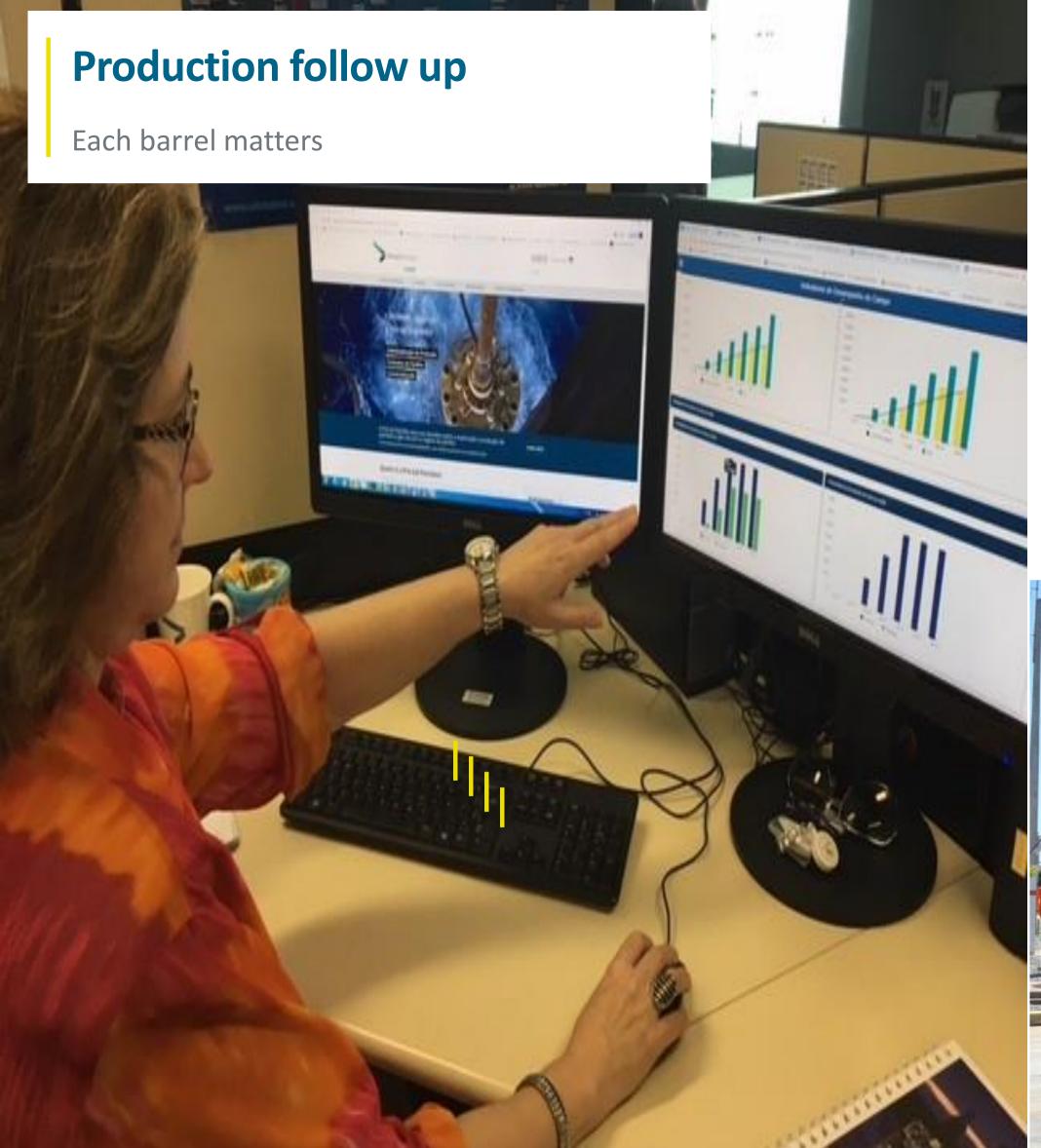


Experience in the oil and gas industry



■ 10 - 20 years ■ 20 - 30 years ■ 30 - 40 years ■ Up 40 years

Exploration Reservoir Strong interaction with the operators Effort to maximize the recovery fator and profitability



Applied Technology

Intensive partnership with consortia aiming at inovation

Pilot plant for testing new gas membranes



SGPP - Production Sharing Management System

Digital system for the management of the PSAs (total of 10 modules)

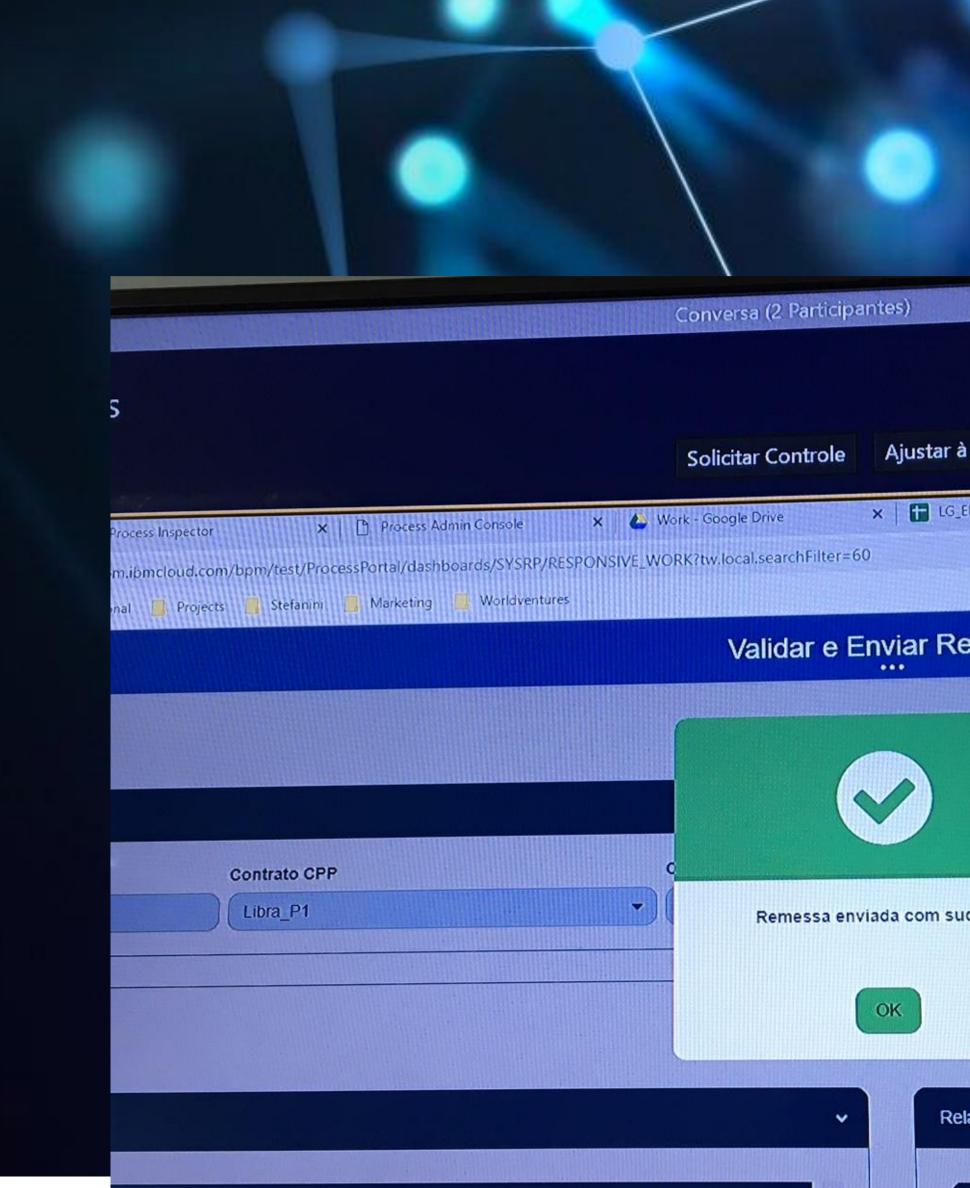
A US\$ 3.6 MM investment

Significant time reduction in the cost recognition process

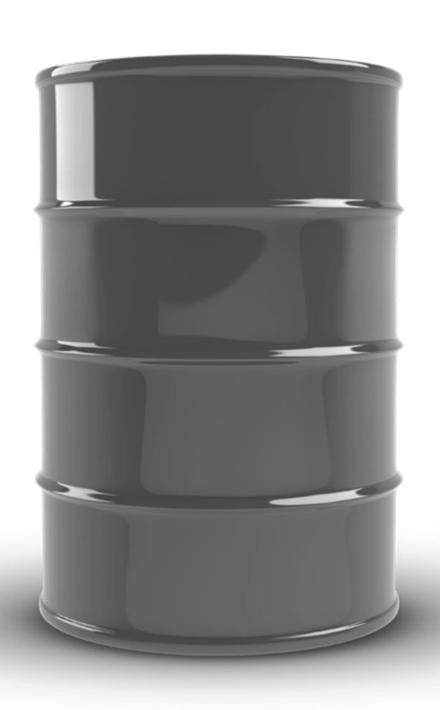
Gain in data validation: from 4 days to 4 minutes

Higher confiability

A unique data base for the Brazilian pre-salt



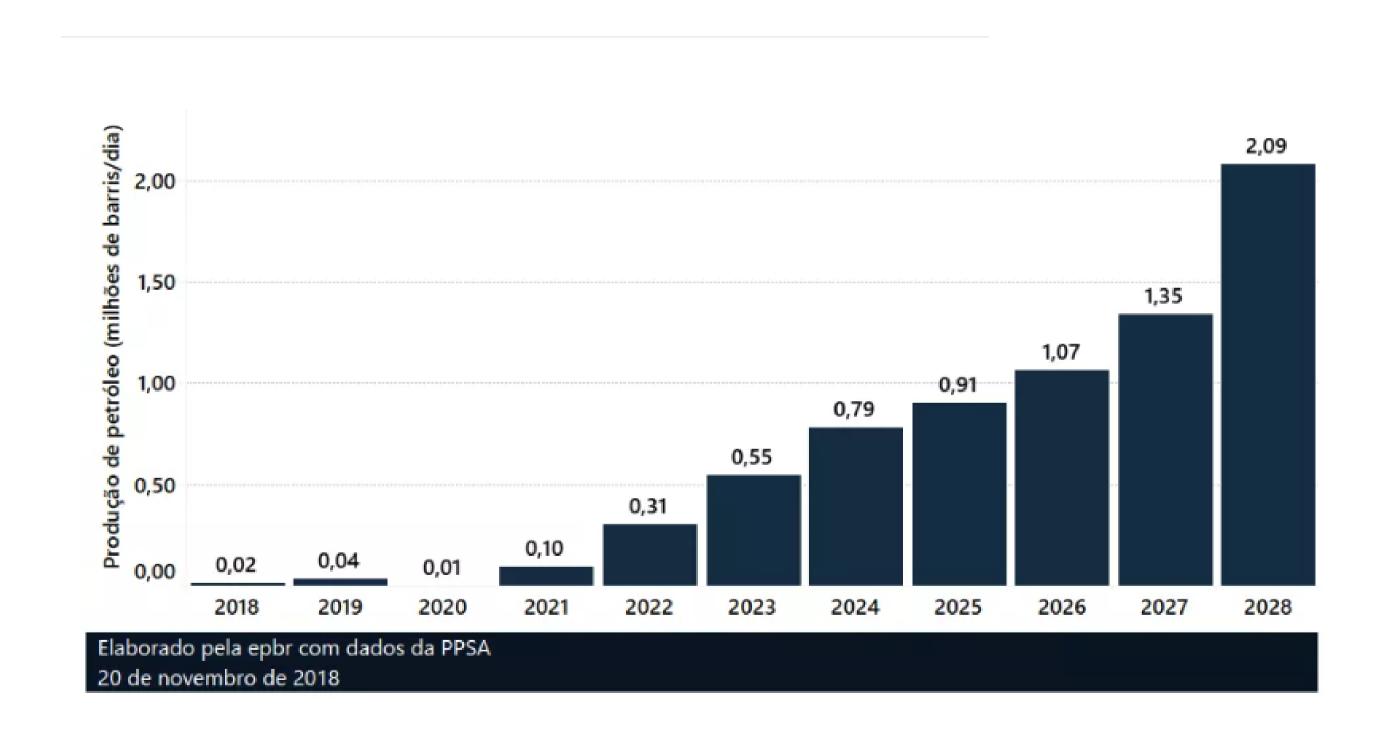
Estimated production from the 14 PSAs for 2028



2 million
barrels of oil/day

Government's share 250,000 barrels of oil/day

Estimated production curve for the 14 PSAs until 2028



Methodology

- 80% exploration success rate rate
- The 14 projects should produce their first oil by 2028

Investment forecast until 2028



US\$ 144 billion until 2028

US\$ 50,4 billion

Production plataforms

US\$ 43,2 billion

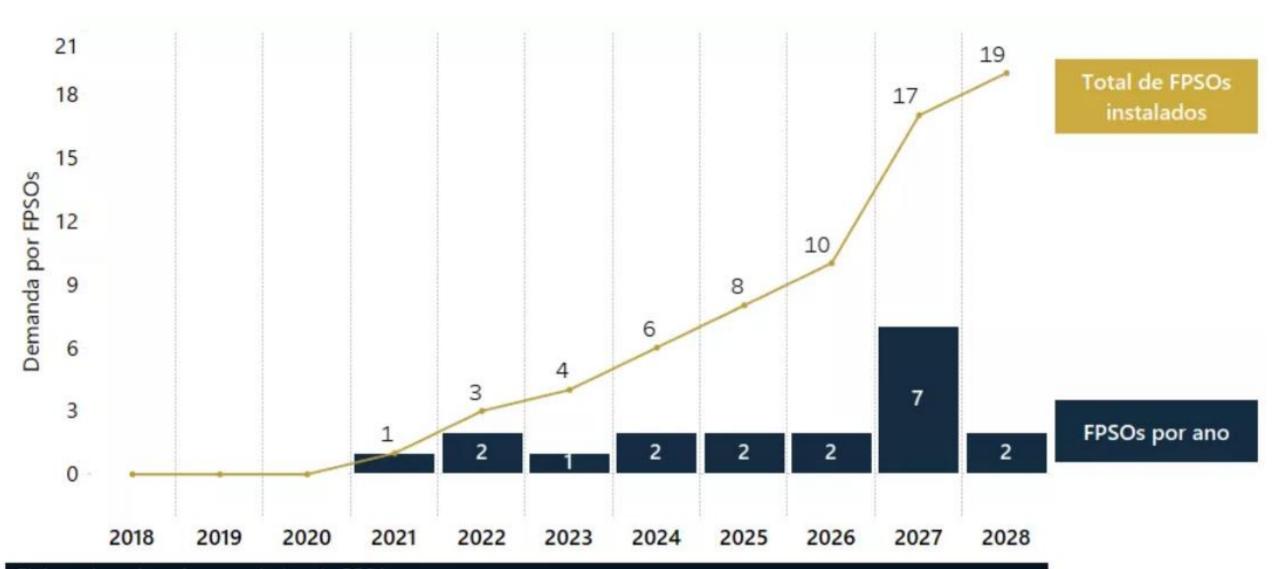
Subsea systems

US\$ 50,4 billion

Wells

High demand for goods and services

FPSOs contracting curve



Elaborado pela epbr com dados da PPSA 20 de novembro de 2018

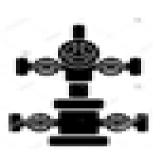


11 exploratory wells *

316 production and injection wells



19 FPSOs



316 christmas trees

* minimum

Near future challenges

