

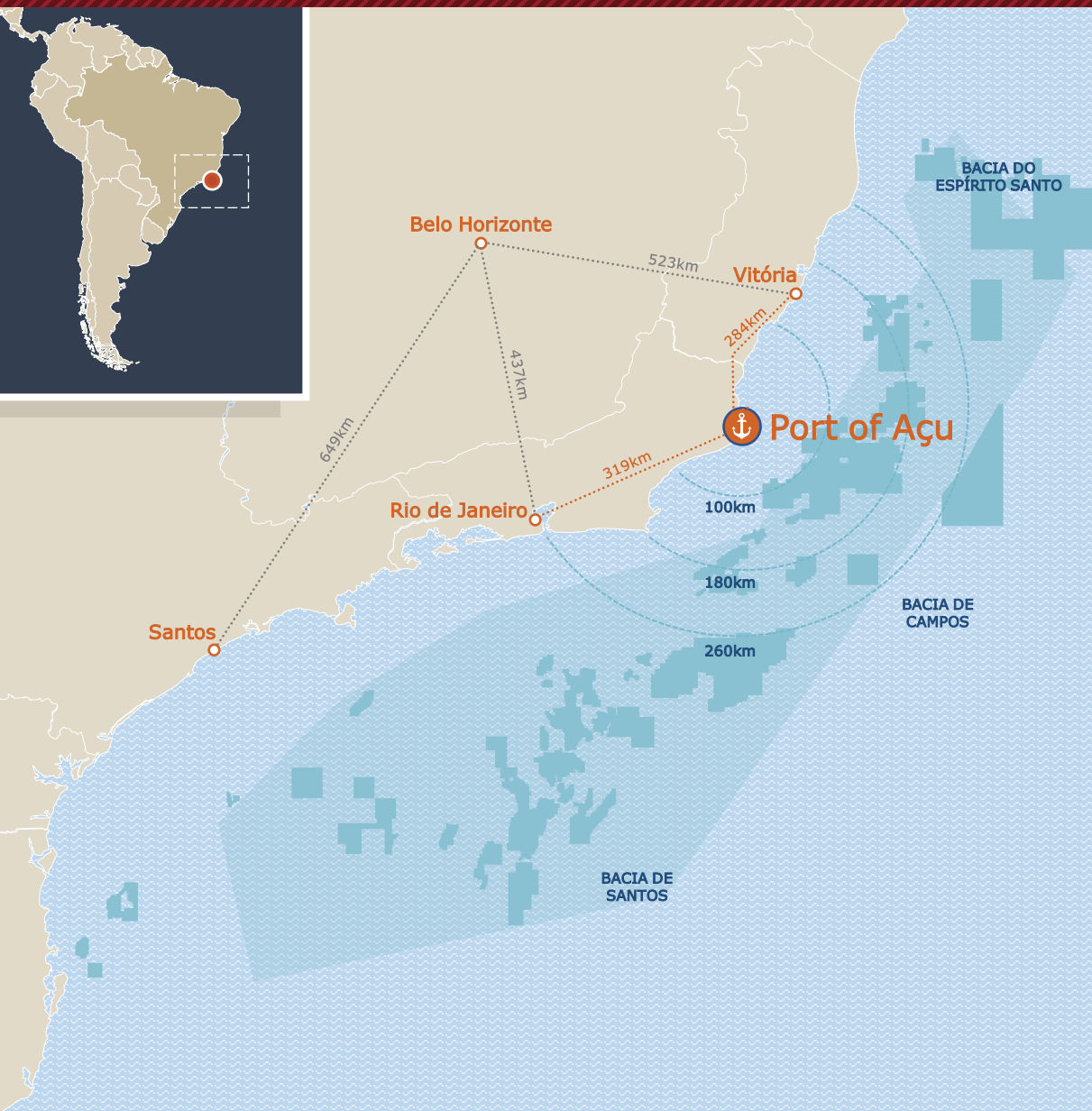


A POWER SHAPING TOMORROW

GROWTH STRATEGY FOR PORT OF AÇU



OUR LOCATION



Located in the **Southeast Region** (54% of Brazil's GDP)



Close to the **main O&G fields in Brazil**



World-class port infrastructure



Advantages arising from **private port administration**



90km² for industrial development outside urban centers

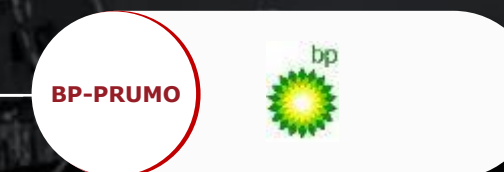
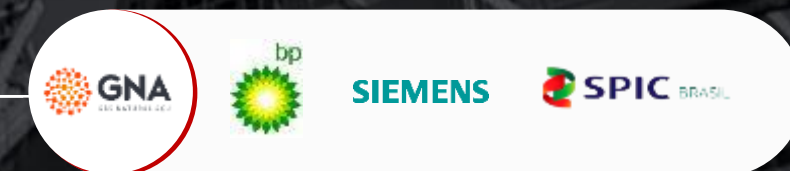
Strategically-located, Açu has attracted world leaders in their industries

WHO WE ARE

Prumo is responsible for the strategic development of the Port of Açu, the largest port-industry complex in Brazil



JOINT VENTURE WITH





+54 Mtons

handled in 2020
(+25% vs 2019)



R\$ 18 bn

invested by 2020



R\$ 22.5 bn

in investments planned
for the next 10 years



10 terminals

1/3 of all terminals
in Rio de Janeiro
state



7km

of operational
quayside, with
expansion capacity to
17km



+12,500

port calls
(2014-2020)



3GW

installed capacity and
license for additional
3.4GW



25%

of crude oil exportation
from Brazil



15

companies with
facilities installed
in the complex



O&G cluster

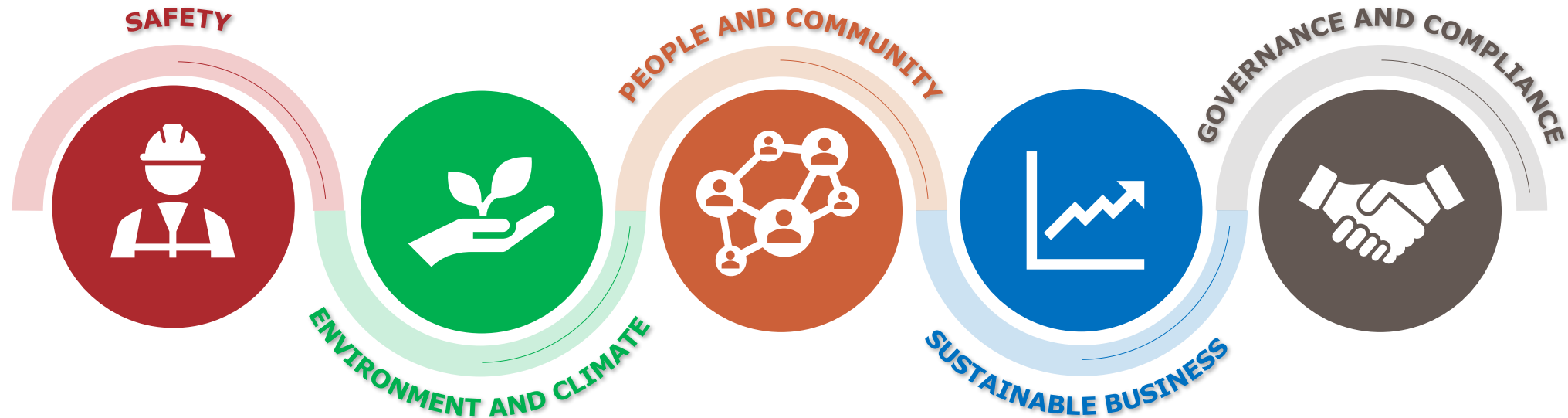
with the world's largest
offshore support base
and largest rigid pipe
factory in Brazil



**We are already one of the country's
main trade platforms**



We generate shared value for all stakeholders based on



[Learn more about our Sustainability Policy here](#)



7,000

Jobs

PORT OF AÇU COMPLEX



70%

Of local workforce

PORT OF AÇU COMPLEX



+1million

Turtle hatchlings released
to the sea



+40 km²

Of protected area
(2.5x the port's
operational area)



12 million

hours worked without
lost-time incidents until
2020

GRUPO PRUMO



+R\$ 190mln

In businesses with local
suppliers

PdA and Açu Petróleo



+R\$ 193mln

In ISS taxes paid until 2020

GRUPO PRUMO



+R\$ 5mln

In humanitarian actions related
to COVID-19



+R\$ 213 million
Invested in socioenvironmental projects and
infrastructure in the region



OUR ESG PRACTICES HAVE BEEN GLOBALLY RECOGNIZED



**RPPN Caruara
Environmental
Conservation Reserve**



**Emergency
Preparedness
Project**



**Maritime Operations
and Vessel Traffic
Service (VTS)**



**Solidarity – Social and
economic actions related
to the Covid-19
pandemic**



**Internal Audit
recognized by
IIA Global**



**Perception on work
environment with
rating +80%**



**Recognition of the
initiative against gender
violence and Professional
Qualification for Women
at GNA**

Envisioning the future

We act as **investment catalysts** to consolidate **Port of Açu** as a world-class platform for **sustainable businesses**.

We contribute to **Brazil's social and economic development** and are recognized for our respect to people and environment, and for enabling the energy transition agenda.



OUR BUSINESSES ARE DEVELOPED WITHIN HUBS





100MM tons handled since the beginning of operations in 2014

- 3rd largest privately-owned iron ore terminal in the country
- 25-year contract with guaranteed volume of **26.5 Mt/year with Anglo American**
- **Iron ore pipeline of 529 km** from MG to Açú, ensuring a high-efficiency logistics operation



Handles **25% of crude oil** exported from Brazil

- **Double banking services**
in sheltered waters and with protective barriers, ensuring greater safety and efficiency in operations
- The only privately-owned terminal in the country capable of operating with **VLCC vessels**
- Current contracts with **Shell, Equinor, Petrobras, Petrogal and Total**
- Licensed capacity of **1.2 million crude oil barrels per day**



Largest natural gas-fired thermoelectric power plant in Latin America

- State-of-the-art technology developed by **Siemens**, providing **greater efficiency and lower emissions**
- The only private LNG terminal in the Southeast, with a capacity of **21 MMm³/day**
- **Energy security:** responsible for 17% of Brazil's natural gas-fired thermal generation
- **State-of-the-art solution, with 100%** use of sea water
- **20 million hours worked without lost-time accidents** in the construction of GNA I
- GNA I: **beginning of operations in 2021**
- Environmental license for an additional **3.4GW**





Fertilizers import operation
at T-MULT

Multimodal platform with integrated solutions

- Multicargo terminal **with no waiting line**
- **Congestion-free** access to **highways**
- **Short distance feeder service between the port of Açu and Rio de Janeiro**
- Capacity to **handle various types of project cargo**, including heavy-lift equipment for industry
- **64% average annual growth**, with a total 3MMtons handled between 2016 and 2021
- **53% of cargo with origin/destination in the state of MG**
- **Growing portfolio: 38 clients and 14 products**



Subsea cluster at Port of Açú



Aerodrome Norte Fluminense



Marine fuels terminal

Logistics support provided by a strategic subsea cluster for the O&G market

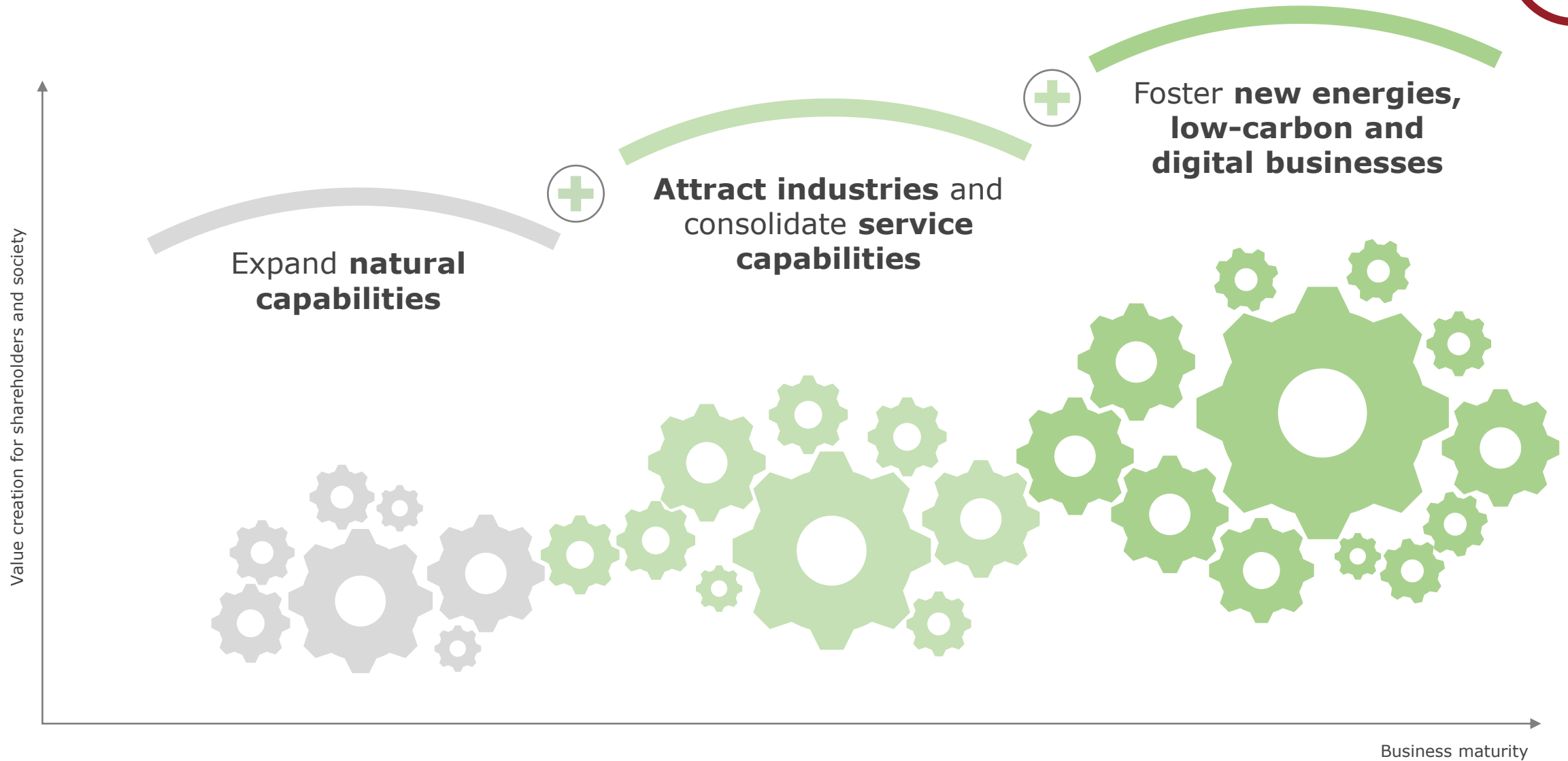
- **Largest offshore service base in the world** with more than 250 operations per month at 11 operational berths
- **Modern subsea cluster** for subsea construction and inspection, including 2 flexible lines and 1 rigid pipeline factories, from leading companies in their sectors
- Private terminal for the **supply of marine fuels**
- Ship maintenance and repair, construction and assembly, offshore unit hibernation, subsea operation support and decommissioning
- **Aerodrome Norte Fluminense:** integrated logistics solution for passengers, cargo and offshore support



90km² of available area for installation of new industries

- Streamlined licensing process: industrial zoning already approved
- Retro area with high capacity for expansion
- Outbound logistics capacity with the availability of a Multicargo Terminal to support the handling of varied cargoes
- Availability of key inputs

Our growth strategy is built upon **three simultaneous waves**



Our growth strategy is split into **three simultaneous waves**



By expanding our capabilities, we broaden connections with Brazil and boost the energy transition agenda



- Expand and consolidate the oil, gas and energy hubs with an integrated strategy
- Regional expansion of the oil, gas and energy hubs

Main projects



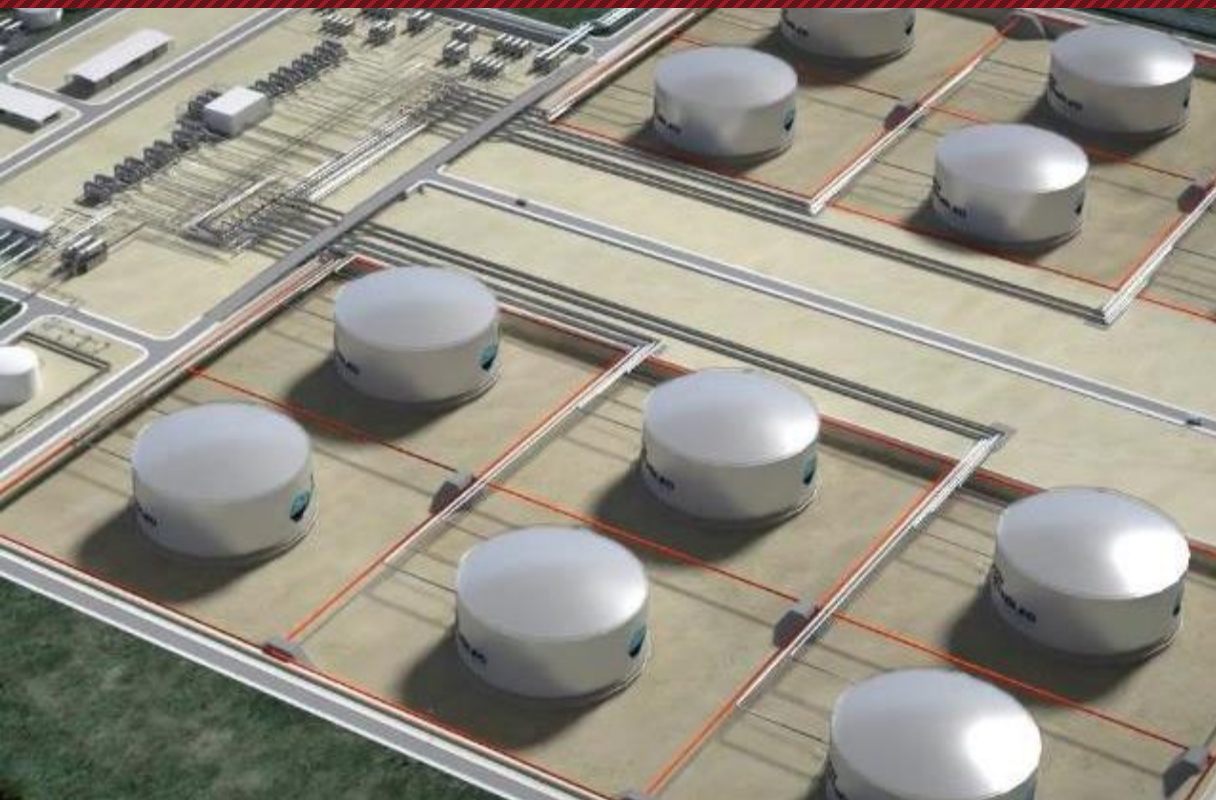
OIL STORAGE AND DISTRIBUTION INFRASTRUCTURE

Increase Brazil's oil storage capacity, while creating strategic stockpiles to supply refineries



GAS-FUELED POWER GENERATION

Develop the largest gas-fueled thermoelectric power complex in Latin America and link it to the existing pipeline network



A strategic project for Brazil, with private investment in tankiage and oil pipeline infrastructure

- **Regional connection:** tankage and pipelines that **link Açu to the existing domestic network**, consolidating Rio de Janeiro state in the oil extraction & logistics chain
- Storage area with capacity for **5.5 million barrels**
- Cargo consolidation for **oil transshipment** (double banking)
- **About 2,000 jobs to be created** (directly and indirectly)
- Estimated investment of **R\$2.5 bn**
- Planned start of operations : **2024**





Largest natural gas-fueled thermoelectric power complex in Latin America, linking Açu to the domestic gas network

- UTE GNA I to **generate 1.3GW starting in 2021; 5,500 jobs created during the peak of construction works**
- LNG terminal to serve exclusively TPPs with **capacity for 21 MM m³/day; 12,000 jobs created so far**
- UTE GNA II with **1.6 GW installed capacity and expected to create 5,300 jobs during the peak of construction works**
- **3 GW** in long-term energy purchase agreements and an additional **3.4 GW** in licensed expansion
- **Natural gas processing project** with capacity for **de 40 MM m³/day**
- **GASINF**: project to build a gas pipeline with **101.2 km linking Açu to Cabiúnas (Macaé)**
- Estimated investment UTE GNA I/UTE GNA II: **R\$10 bn**
- Estimated investment GASINF/UPGN: **R\$30 bn** (in stages)

Our growth strategy is split into **three simultaneous waves**



ATTRACT INDUSTRIES AND CONSOLIDATE SERVICE CAPABILITIES



With world-class port infrastructure, area for development near large consumption centers, and availability of key feedstock, we bring together unique conditions to drive industrialization

AÇU ENERGY AND GAS HUB

Natural gas at competitive prices is a key factor to leverage new industries at Açú

- Enable industrialization based on vocations and leadership skills to bring anchor clients
- Run the port complex as the main provider of efficient services for offshore industries (O&G and wind)
- Develop an integrated vision to expand and diversify terminals

Main projects



NEW OFFSHORE BUSINESSES

Integrated services and logistics to meet subsea demand



TERMINAL DIVERSIFICATION

Attract new port terminals, diversify service offerings



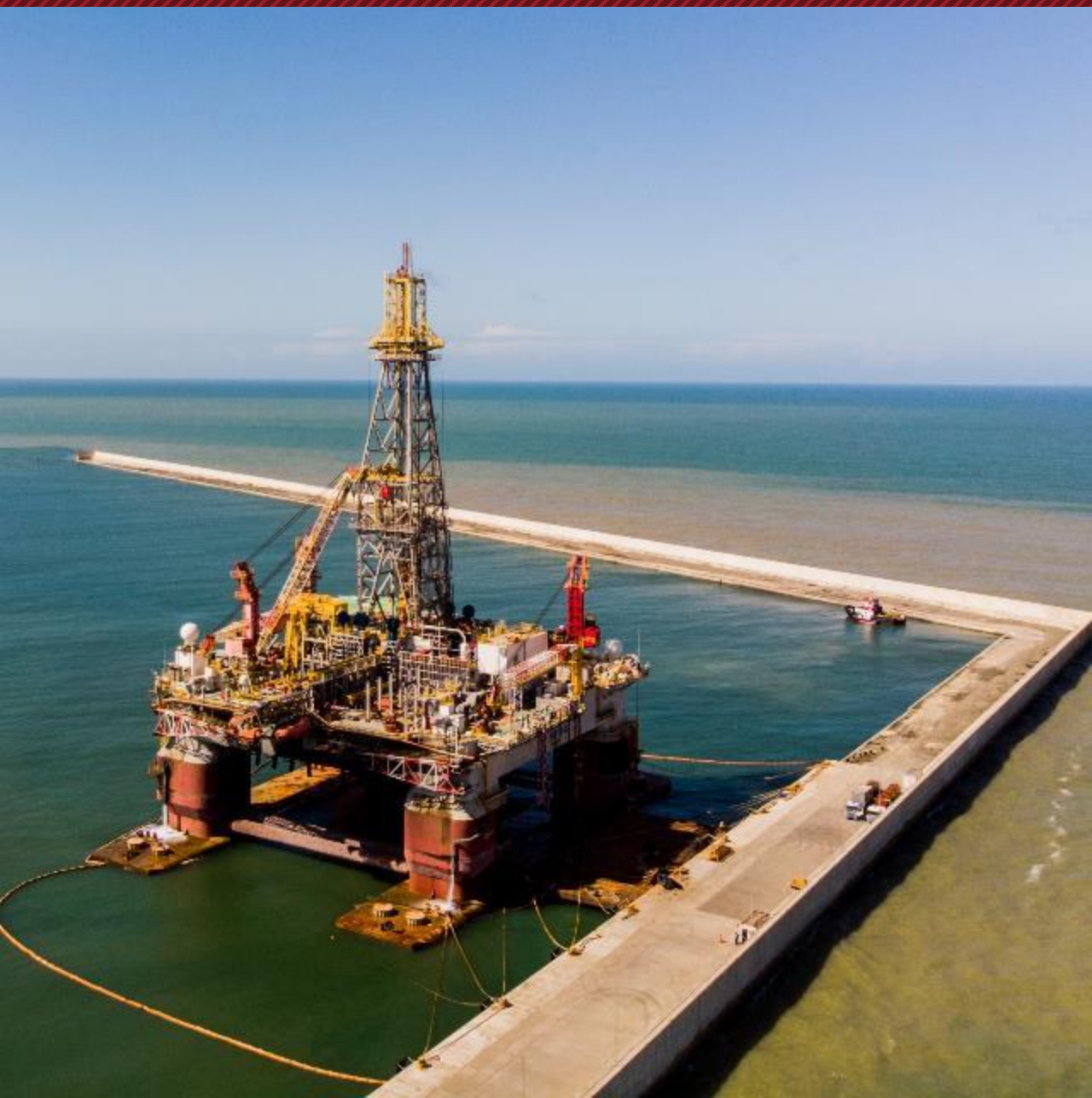
CONNECTIVITY

Improve multimodal connections, linking Açú to the railroad network



GAS-INTENSIVE INDUSTRIES

Connect existing infrastructure and gas supply to industrial demand, such as fertilizers and pelleting/HBI



One-stop-shop with integrated services and logistics to serve the growing subsea demand

- **Strategic offshore service base:** available to meet the growing demand estimated for the upcoming years (2 FPSOs expected to start operations every year)
- **Important space and location for decommissioning** near the main offshore facilities and wells that will need to be decommissioned in the next 10 years
- Area dedicated to the segment estimated at **2 million m²**
- Approximately **US\$ 24.7 bn in subsea investments** in Brazil until 2025



Expansion of capacity and cargo portfolio

- **Expansion of the Multicargo Terminal**
- **2 warehouses of 10thsd m²** (fertilizers, grains and ore)
- Yard extension: **+30thsd m²**
- Installation of **terminal dedicated to grains**
- Connected to the federal highway network and **outside major urban centers**
- Inserted in the new agribusiness logistical corridor
- Installation of **containers terminal**



Creation of a railway corridor connecting the main ports, capitals and industrial centers in the Southeast region

- **Demand in 2035 of 32.5 million tons**, including grains, fertilizers, containers, coal, coke, steel products, ore and limestone
- The first stretch, between Cariacica and Ubu (82km), will be built by Vale
- The second stretch between Ubu and Açú (159km) generates **13.5 MM tons of cargo per year in 2035** (3.9 MM grains), with an estimated investment of R\$ 1.7 billion
- **Agribusiness cost reduction in MG, GO and MT with an increase in port capacity**, reducing demurrage costs in Santos and Vitória



Natural gas is a key factor for the installation of chemical, steel, cement and other industries

Nitrogenous fertilizers plant

- **Growing market that depends on imports**
- **Access to abundant and competitive gas** enables nitrogen production at the port
- **Excellent connectivity** with major distribution centers and port infrastructure linked to international routes
- Estimated investment: **US\$ 1.8bn**
- Planned start of operations : 2027

Pelleting and HBI plant

- High-quality gas and ore available at Açú, along with existing export logistics infrastructure, **boost the competitiveness of pellet and HBI production**
- Starting point for the **steel industry**
- Estimated investment : **US\$ 810MM** (pelleting), **US\$ 770MM** (HBI)
- Planned start of operations : **2026** (pelleting), **2028** (HBI)

Our growth strategy is split into **three simultaneous waves**



We will consolidate Açú as the main gateway connecting today's energy transition projects with tomorrow's cutting-edge tech-driven industries



- Accelerate the low-carbon, digital and new energy businesses of the future
- Strengthen initiatives associated with the circular economy and GHG reduction
- Promote the development and implementation of emerging technologies

Main projects



RENEWABLES

Complementing
the port's energy
mix



GREEN HYDROGEN

Renewable energy
carrier and industrial
feedstock



CHEMICAL CLUSTER

Chemical industries
generating cleaner
base products



LOW-CARBON STEEL

Enabling the steel
industry's plans for
more sustainable
production



Açu offers potential for the entire renewables value chain — from power generation to manufacturing and logistics

- Dedicated area for **solar and wind energy** generation
- Favorable weather conditions and proximity to substation
- Coastal location **near offshore wind projects**
- Infrastructure for **imports and offshore** logistics
- Area for equipment **manufacturing and assembly**

Solar generation project

- Estimated investment: **R\$ 600MM**
- Planned start of operations : **2024**

Wind generation project

- Estimated investment : **R\$ 500MM**
- Planned start of operations : **2026**



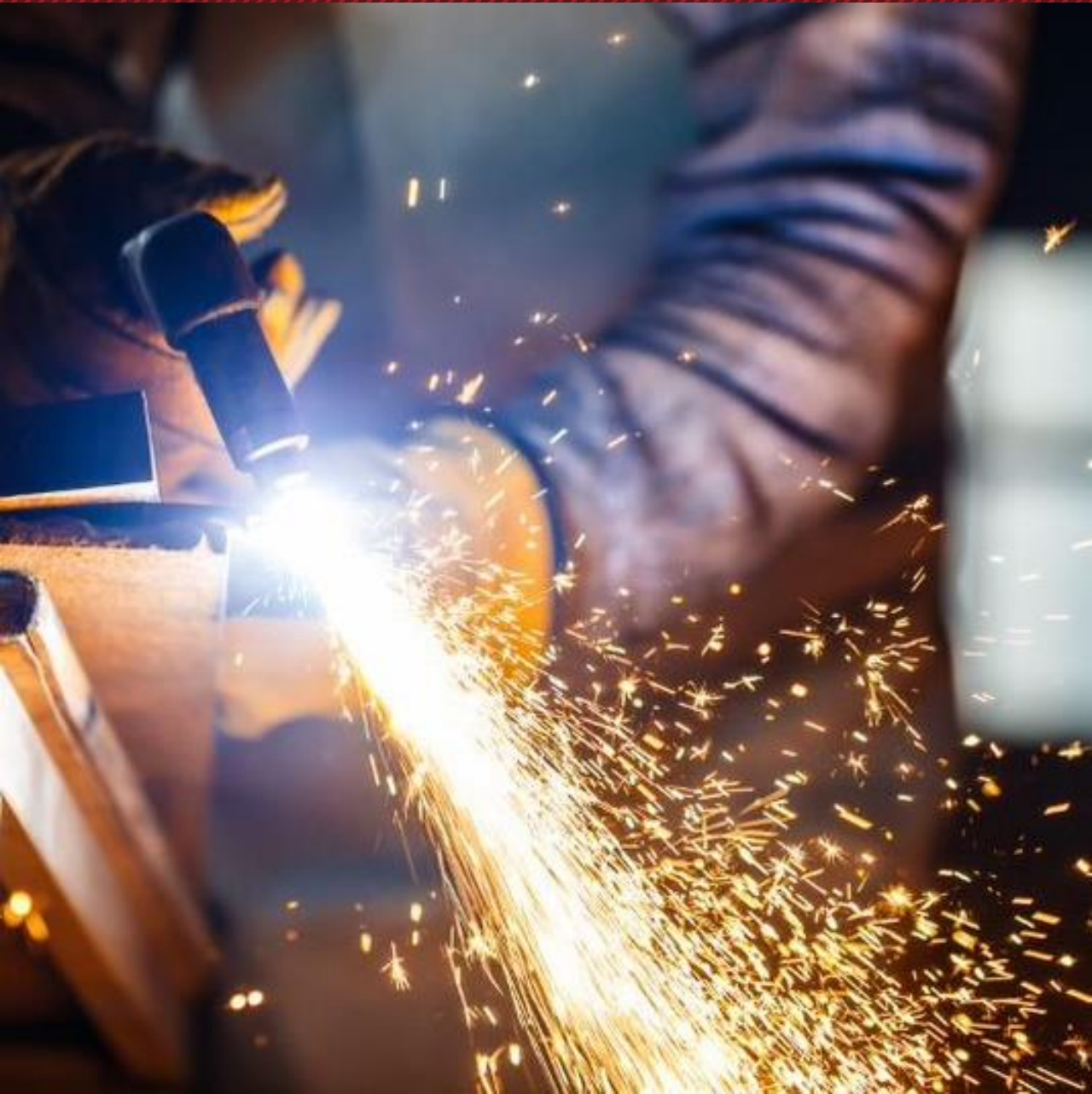
Green Hydrogen will accelerate the arrival of next-generation industries in the port-industry complex

- **300 MW capacity plant**
- **Sustainable generation** including water reuse and renewable energy generated at the port (solar and wind)
- **Energy carrier and clean base feedstock for low-carbon industries**, transforming renewable energy into a global commodity
- **250 thousand tons/year of exports**
- **Potential for ammonia/urea conversion** to meet national demand, currently dependent on imports
- **2.4 million m³/d** of water footprint
- Estimated investment: **US\$ 2 bn**
- Planned start of operations: **2026**



Green hydrogen allows for clean base products for port activities and industries such as chemical

- Conversion of H₂ into green ammonia enables production of **sustainable nitrogen fertilizers**
- **Potential for sustainable chemical cluster** including alternative fuels, green ammonia derivatives, methanol and ethylene
- **Use of renewable energy and reuse of industrial water** enhance the cluster's sustainable profile
- Estimated investment: **US\$ 1.8 bn** (urea/ammonia plant)
- Planned start of operations: **2028**



Açu Greenport brings together the key elements to enable the steel industry's plans to move towards low carbon production and supply chain

- Renewables and Green Hydrogen projects make it possible to move towards an **industry with lower GHG emissions**
- **Pelletizing and HBI plant** enable a large-scale, low-carbon steel industry
- Steel production through an **electric arc furnace (EAF) unit**
- Estimated investment: **US\$ 810MM** (pelletizing), **US\$ 770MM** (HBI)
- Planned start of operations: **2026** (pelletizing), **2028** (HBI)

Consolidating Port of Açu as a world-class platform for sustainable businesses



By expanding our **capabilities**, we broaden **connections with the region** and boost the **energy transition** agenda.



With area for development and key feedstocks available, we bring together **unique conditions to accelerate industrialization**.



Açu will be the main **point connecting today's energy transition projects with tomorrow's cutting-edge tech-driven industries**.



Learn more about the Port of Açu, a modern, sustainable and world-class port-industry complex

www.prumologistica.com.br/
www.portodoacu.com.br/