Strategic Plan 2023-2027



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In addition, this presentation also contains certain financial measures that are not recognized under Brazilian GAAP or IFRS. These measures do not have standardized meanings and may not be comparable to similarly-titled measures provided by other companies. We are providing these measures because we use them as a measure of company performance; they should not be considered in isolation or as a substitute for other financial measures that have been disclosed in accordance with Brazilian GAAP or IFRS.

CAUTIONARY STATEMENT

We present certain data in this presentation, such as oil and gas resources and reserves, that are not prepared in accordance with the United States Securities and Exchange Commission (SEC) guidelines under Subpart 1200 to Regulation S-K, and are not disclosed in documents filed with the SEC, because such resources and reserves do not qualify as proved, probable or possible reserves under Rule 4-10(a) of Regulation S-X.





Our top metrics



IAGEE, VAZO and Δ EVA® impact variable compensation of all employees, including senior management



BR PETROBRAS

Rafael Chaves

Chief Institutional Relationship and Sustainability Officer

BR PETROBRAS



Environmental

ESG enviromental



- Path to neutrality of operational emissions in 2050
- · Lower carbon products and businesses
- High quality carbon credits as a complementary strategy
- Innovation for energy and decarbonization solutions
- Water security
- Circular economy, with a focus on waste minimization
- Gain in Biodiversity
- Prevention and mitigation: accidents, spills and environmental impacts
- Sustainable development and autonomy of communities
- Safety, Health and well-being
- Promotion and due diligence in human rights
- Inclusion and equal opportunities
- Consolidation of the Culture of Integrity
- Commitment to transparency
- Governance focused on efficiency and control
- Fostering the ESG theme among our stakeholders

Environmental and Social



RESULTS

- Incentivized decarbonization: interest and variable remuneration¹
- Decarbonization Fund budget more than doubled (\$0.6 billion)
 - LT internal carbon price for Decarbonization Fund - change in the main scenario: US\$ 50/ton → US\$ 90/ton
 - Carbon credit as a complementary tool

Society

Carbon

- Petrobras/BNDES matching funds for forests (announced at COP 27)
- R\$ 286 billion collected in 2022, by the 3rd quarter, for all spheres of government, including dividends and taxes

Biorefining

• Diesel R

HIGHLIGHTED GOALS AND AMBITIONS

Carbon

- Ambition: Net Zero in operations by 2050
- With dispatch adjustments, absolute emission level in 2027 equivalent to current level²
- Zero routine flaring (2030)
- Reinjection of 80 million tCO₂ (2025)
- Intensity: 15 kgCO₂e/boe (E&P) 30 kgCO₂e/CWT (Refining 2030)
- Methane efficiency: 0.29 t CH4/thousand tHC (2025)

Society

- Due diligence in human right by 2025
- Value creation with social impact (taxes and dividends)

Biorefining Ambition

• Bio Jet Fuel

Environment

- 100% of plants with a biodiversity action plan by 2025
- Fresh water collection: 40% by 2030
- Process solid waste: 30% by 2030
- ¹ Emissions and leakage targets affect up to 25% of Executive Directors' variable compensation, Sustainability-linked Loan (US\$1.25 billion)
 ² PE 2023-27 Commitment: Reduction of total operational absolute emissions by 30% by 2030, compared to 2015 | LT: Long Term

Investments to strengthen our low carbon position



US\$ 3.7 billion DECARBONIZATION OF OPERATIONS

RefTop Portfolio US\$ 0.8 billion

Decarbonization Fund US\$ 0.6 billion*

Low Carbon Solutions in New E&P Projects

US\$ 2.1 billion

R&D^{**} in decarbonization scopes 1 and 2 US\$ 0.2 billion



US\$ 0.6 billion BIOREFINING

Renewable diesel Bio Jet Fuel



US\$ 0.1 billion SKILLS FOR THE FUTURE

R&D** for activities not related to the operation Profitable diversification

US\$4.4 billion (6% of total CAPEX)

* Expenditures classified as CAPEX can be allocated as OPEX for amounts related to the decarbonization fund and R&D expenditures |** The forecast expenditures for the low carbon portfolio correspond to 10% of the total R&D budget, which depend on the legal obligation.

FSG

enviromental

Petrobras' positioning contributes to a safe and fair transition



Profitable Diversification





Our Climate Goals

REDUCE OUR CARBON FOOTPRINT

- Reduction of total operational absolute emissions by 30%* by 2030
- Zero routine flaring by 2030
- Reinjection of 80 million tCO₂ by 2025 in CCUS projects
- GHG intensity in the E&P segment: Achieve portfolio intensity of 15 kgCO₂e/boe by 2025, maintaining 15 kgCO₂e/boe by 2030
- GHG intensity in the Refining segment: Achieve an intensity of 36 kgCO₂e/CWT by 2025 and 30 kgCO₂e/CWT by 2030
- Consolidation of 55%* reduction in the intensity of methane emissions in the upstream segment by 2025, reaching 0.29 t CH4/thousand tHC

AMBITION

Neutralize emissions (scopes 1 and 2) in activities under Petrobras' control and influence partners to achieve the same ambition in non-operated assets by 2050**

* Compared to 2015

CO

** Our ambition refers to emissions in Brazilian territory, where more than 97% of our operational emissions occur. For other emissions, we also aim for neutrality within a period compatible with the Paris Agreement, in line with local commitments and international organizations



Path to neutrality of operational emissions in 2050

Review of sustainability goals

Accelerating the decarbonization of operations	Reduction of absolute emissions by 30% by 2030	Supported by the Carbon Neutral Program and budget review for the Decarbonization Fund
Less emissions and more methane efficiency	Consolidation of the 55% reduction in the intensity of methane emissions in the upstream by 2025	Brazilian commitment (Global Methane Pledge) Ambition near zero methane (OGCI) Flaring monitoring (OGCI) Adherence to OGMP 2.0 - Oil and Gas Methane Partnership*
Early achievement of the CO ₂ reinjection target	Reinjection of 80 million tCO ₂ by 2025 in CCUS projects	Largest offshore CO ₂ reinjection program in the world, in the pre-salt fields, according to the Global Status of CCUS 2022 report

* Being updated OGCI: Oil and Gas Climate Initiative **E**SG

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Consolidation of the trajectory of increased efficiency in emissions in the E&P and Refining segments



* In reference to IOGP - International Association of Oil & Gas Producers

High quality carbon credits as a complementary strategy for a downward trajectory of emissions

- Only high quality and integrity credits
- Credits generated in Brazilian biomes, with socioeconomic co-benefits - part generated by own projects
- Compensation in line with international best practices
- Governance by the Decarbonization Fund
- Transparency and traceability





Our environmental goals



PROTECTING THE ENVIRONMENT

- 40% reduction of our withdrawn freshwater by 2030
- 30% reduction in solid waste generated in processes by 2030
- Allocation of 80% of solid waste generated in processes for RRR* routes by 2030
- 100% of Petrobras facilities with a biodiversity action plan by 2025

* Reuse, recycling and recovery

××

Water security





- Portfolio management
- Efficiency increase and reuse
 - Reduction of 18 million m³: equivalent to the consumption of 100 thousand families
- Conservation projects for springs and riparian forests

Gains in biodiversity

+ BIODIVERSITY WHERE WE OPERATE

56 70 species	Pr (6
175 220 thousand ac thousand a	Re
25 32 million ac million ac	St er
2021 2030	

Protection of endangered wildlife 60% in oceans)

ecovery and conservation of biomes

Strengthening the management of environmental protection areas

GOALS

100% OF OUR FACILITIES WITH A BIODIVERSITY ACTION PLAN BY 2025

- Wildlife management plans
- Evaluation of impacts and dependencies of ecosystem services
- Net impact assessment KPI

- Improving biodiversity in our areas/regions of activity
- Search for net gain of vegetated areas



ac: acres



Circular economy





- Operational improvements: generation reduction
- Oil recovery in refineries (sludge)
- Sustainable hiring
- Training and awareness

% DE REUSE, RECYCLING OR RECOVERY OF SOLID WASTE



- Development of partnerships: waste as raw material for other companies
- Reverse logistics
- Recycling: public selection for cooperatives and waste pickers' associations
- Training and awareness

* Forecast values for the year | * 2023 targets under construction



ESG Incentives linked to remuneration enviromental

Minimum percentage of variable remuneration tied to emissions and leakage targets in 2022



* Exploration and Production, Production Development, Marketing and Logistics, Refining and Natural Gas and Digital Transformation and Innovation

ESG social

Social



- Path to neutrality of operational emissions in 2050
- Lower carbon products and businesses
- High quality carbon credits as a complementary strategy
- Innovation for energy and decarbonization solutions
- water security
- Circular economy, with a focus on waste minimization
- Gain in Biodiversity
- Prevention and mitigation: accidents, spills and environmental
- Sustainable development and autonomy of communities
- Safety, Health and well-being
- · Promotion and due diligence in human rights
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- Fostering the ESG theme among our stakeholders

Our social goals

CARE FOR PEOPLE

- Measure and disseminate the social return of at least 50% of voluntary socioenvironmental projects (by 2025)
- Keep socioeconomic diagnosis of communities up to date (up to 3 years) in 100% of operations (of all business units and refineries in the portfolio)
- Promote human rights and diligence the operations (100% training of employees in HR and 100% of operations with due diligence in HR) by 2025
- Promoting diversity by providing an inclusive working environment
- Development of impact initiatives, which contribute to the solution of social and/or environmental problems, involving opportunities to act with our stakeholders and customers of Petrobras products
- Promotion of safe operations, based on the protection of life, empowering 100% of the leadership in Mental Health and acting in the promotion of the well-being of more than 38,000 employees





Our social projects



Expansion of the project portfolio

Focus on Sustainable **Development and Autonomy** of Communities

Acting in communities covered by the operating units, contributing to the social license to operate.

Early Childhood

Support to projects

Contribution to the development of children aged 0-6 years in communities in the area covered by 100% of operations by 2025.

Today: 71% of operations

Initiative for Job and Income Generation

Offering professional training for the energy and innovation sectors with a focus on vulnerable communities. Possibility of adding other companies and financiers.

R\$ 200 million by Petrobras in 4 years

people impacted (2021 - 2022 vision): Sustainable development and autonomy of

60 current projects and more than 40,000

- communities
- Early Childhood

Salvador Dahan

BR PETROBRAS

Chief Governance and Compliance Officer





Governance



- Trajectory to operational emissions neutrality by 2050
- Lower carbon-intensive products and businesses
- High quality carbon credits as a complementary strategy
- Innovation for energy and decarbonization solutions
- Hydric security
- Circular economy, focusing on residue minimization
- Gain in Biodiversity
- Prevention and mitigation: accidents, leaks and environmental impacts
- Sustainable development and empowerment of communities
- Health, safety, security and well-being
- Promotion and diligence in human rights
- Inclusion and equality of opportunities
- · Consolidation of the Culture of Integrity
- Commitment to Transparency
- Governance focused on efficiency and control
- Promotion of the ESG subject among our stakeholders

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Layers of our governance



¹ COMIN: Minority Shareholders' Committee ; CAE: Statutory Audit Committee ² OECD : Organization for Economic Co-operation and Development

³ Governance, Compliance, Internal Audit, Ombudsman and Integrity Committee

⁵CGU: Office of the Comptroller General ; TCU: Federal Court of Accounts

⁶ SEST : Secretariat for Coordination and Governance of State-Owned Enterprises

⁷ CADE : Administrative Council for Economic Defense

⁸ Statutory Technical Committees : Institutional Relationship and Sustainability; Production Development; Exploration ⁴ CVM : Securities and Exchange Comission of Brazil ; SEC : U.S Securities and Exchange Comission and Production; Refining and Natural Gas; Financial and Investor Relations Technical Committee; Commercialization and Logistics; Governance and Compliance; Digital Transformation and Innovation

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Rodrigo Araujo Alves

Chief Financial and Investor Relations Officer

BR PETROBRAS



Financial management in recent years



Gross debt

• US\$ 60 billion target achieved 15 months earlier



Liability management

- 54% of debt due after 2027
- More than US\$ 100 billion of net amortization of financial debt in the last 7 years



Interest

 68% reduction in interest expense over 5 years - US\$ 7.0 billion in 2017 to US\$ 2.0 billion in 2021



Diversification of funding

 Sustainability Linked Loan, Commercial Notes, Real Estate Receivables Certificates

¹ Finance, business and accounting national association of executives



Optimization of cash levels and Dividend Policy improvement

- Convergence to the reference cash level of US\$ 8 billion
- Dividends of R\$ 13.80 per share declared in 2022



Return to society

• Taxes totaling R\$ 1.1 trillion since 2017



ANEFAC¹ Transparency Award

- 2017 and 2022 winner
- 2019 and 2020 featured company



"Mais Valor" and "Progredir" Programs

- More than R\$ 20 billion in support for suppliers since 2020
- Suppliers with access to financial institutions' resources with efficiency and cost reduction



Focus on financial strength



Pricing policy Competitive prices aligned to international markets



Reference cash level US\$ 8 billion ¹



Dividends According to the current Dividend Policy ²



Gross debt reference range US\$ 50 billion to US\$ 65 billion



Liability management Maturity extension and gross debt maintenance around US\$ 55 billion

¹ Minimum cash position of US\$ 5 billion ² Approved in 2019 and improved in 2020 and 2021

Brent and exchange rate assumptions





Shareholders remuneration policy



Minimum annual dividend of **US\$ 4 billion** for fiscal years in which average Brent prices are above US\$ 40/bbl

Gross debt ≤ US\$ 65 billion and accumulated positive results:

60% x (OCF - Investments)

- · Quarterly payments
- Possibility of extraordinary payments, regardless of indebtedness level
- In all distribution parameters, dividends cannot jeopardize the financial sustainability in the short, medium and long term



Solid and self-funding plan for the next 5 years



1 Dividends paid to the Federal Government plus taxes and government take divided by the cash flow generation before taxes | 2 Considers decommissioning costs of about US\$ 1.5 billion/year | 3 Excludes leases classified as total CAPEX | 4 Considers funding of US\$ 11 billion | ⁵ Impact of approximately 70 Kboed in 2023 production and approximately 150 Kboed in further years

Resilient investments to support growth



Investments back to pre-covid levels





Fernando Borges

Chief Exploration and Production Officer

BR PETROBRAS



Strategy maximizes value



Maximize portfolio value, focusing on deep and ultra-deep waters


E&P investments remain focused on the Pre-Salt, with double resilience for project sustainability



Growing production in line with Strategic Plan 2022-26

TOTAL PRODUCTION

million boed | Work Interest (WI) Petrobras | Post divestments | With variation of +/-4%

2.6* 2.3	2.7 2.4	2.9 2.6	3.1 2.8	3.1* 2.8	Total production Natural gas - noncommercial production
2.1	2.1	2.3	2.5	2.5	Natural gas -commercial production
2023	2024	2025	2026	2027	Oil production
74%	72%	74%	76%	78%	% Pre-salt

- Considers adjustments from the Sepia and Atapu Co-Participation Agreement that reduces 0.1 MM boed per year relative to the Strategic Plan 2022-26
- All projections were maintained for 2023, as well as Total and Commercial Production for the entire horizon
- Reduction of approximately 0.1 MM bpd in oil production in 2024 and 2025 due to adjustment in the wells interconnection schedule

* Total operated production: from 3.8 MM boed (2023) to 4.7 MM boed in (2027)

Lifting cost and total cost remain competitive



¹ Lifting cost without leasing cost and government taxes

² Does not include, mainly, exploratory investments and cost of capital

Exploration of new oil and gas frontiers according to our value strategy



 * 16 in the Equatorial Margin, 24 in the Southeast Basins and 2 in Colombia in contracted areas 40

Santos Basin concentrates pre-salt assets and boosts production growth



* Operated production in the Santos Basin in 2027: 3.5 MMboed

Campos basin still relevant in the long run



* Operated production in the Santos Basin in 2027: 0.9 MMboed

Rodrigo Costa

Chief Refining and Natural Gas Officer

BR PETROBRAS



Refining & Natural Gas strategies



Focus on assets close to oil and gas supply and the consumer market



Focus on marketing our own gas and optimizing the thermoelectric portfolio







Refining & Natural Gas strategies



* Average gigawatt

Expansion and modernization of the refining facilities with high quality low carbon products



RefTOP Program

Among the world's best refiners in efficiency and operating performance



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BioRefining Program

Technological leadership translated into commercial reality



REPAR already produces diesel with 5% renewable content through co-processing and has the potential to reach up to 10%. Current capacity for renewable diesel R5 is 32 Kbpd.



R5 diesel performs like fossil diesel, and has proven its reliability throughout the test period



The renewable fraction's emission compared to fossil diesel is up to 60% lower



And we are investing to produce SAF at RPBC

Positioning among the world leaders in biorefining



* Carbon Offsetting and Reduction Scheme for International Aviation



INVESTMENT US\$ 0.6 billion

In the G&P segment, we will expand our infrastructure and portfolio of offers to continue operating competitively in the trading of natural gas

SEAP (2027)

Projects in Partnerships - Work Interest (WI) Petrobras ~80% (68% SEAP I and 86% SEAP II) Pipeline Capacity: 18 MM m³/d

BM-C-33 (2027)

Non operated project in the Campos Basin Work Interest (WI) Petrobras 30% Pipeline Capacity: **16 MM m³/d**

LNG

Prospecting for LNG acquisition opportunities, with new terms and indexes, mitigating risks

ROUTE 3 INTEGRATED PROJECT (2024)

Work Interest (WI) Petrobras 100% Pipeline Capacity and Natural Gas Processing Unit: 21 MM m³/d

CAPEX US\$ 5.2 billion

 * Included portion of the five-year CAPEX in the E&P portfolio referring to Petrobras' WI.

We want to be the #1 choice or our customers



New relationship channels, procurement and contract management



Diversified commercial products, with terms, indexes and flexibilities according to customer needs



Process automation and integration, improving customer experience



Cláudio Mastella

Chief Trading and Logistics Officer





Trading and Logistics Strategy



To act competitively in the trading of oil and oil products, maximizing value generation through integration and safe and efficient operations in upstream and downstream logistics



To be the best option for customers in Brazil and abroad



Trading activity with integrated logistics

Exploring opportunities in other regions, from the Southeast, the most relevant market in Brazil



COMPETITIVE MARKET

- Strengthen commercial presence in target markets through new sales clusters
- Work as a leading company in the supply of low carbon products focusing on the BioRefining Program
- Develop supply chain for renewable feedstocks
- Implement new CRM (*salesforce*) to increase agility in trading and customer relationship processes

Strengthening international trade activities

Expansion of global customers portfolio, new markets development and increase in competitiveness



AVANÇA LOG Program - Logistics as competitive advantage

Business integration with efficiency, emissions reduction and focus on value generation

AVANÇA LOG + EFFICIENCY + MARKET ACCESS

INVESTMENT

US\$ 810 million 51% of total

portfolio



LOGISTICS EFFICIENCY

Maximize availability to transport crude and oil products



INFRASTRUCTURE AND CLIENTS

Access to strategic markets with the infrastructure either owned, third-party or in partnerships



ENERGY TRANSITION

Explore opportunities among the energy transition process targeting business sustainability

AGILITY

Value creation through higher efficiency internal processes and growing digital solutions

Removal of logistical bottlenecks and expansion on strategic markets safely and efficiently

EFFICIENCY AND MARKET ACCESS



Increase in flow capacity for products transported in the RJ-SP-Midwest pipeline system



Investment in terminals to add flexibility and optimize operations



Expansion in transportation modes and procurement models to increase competitiveness in other markets



Efficient maritime transportation and low carbon fleet

AVAILABILTY AND SAFETY

- Dockings and maintenance stoppages in pipelines, storage tanks and spheres to increase efficiency in transportation and competitiveness
- Successful multidisciplinary approach reducing illegal taps



We improved our performance in E&P support logistics vis-à-vis other oil and gas companies





efficiencies

Efficiency in Petrobras E&P support logistics ensured the execution of the Strategic Plan's projects

* Info relative to results from benchmark studies in 2021 (base year 2020/green arrow) and 2019 (base year 2019/grey arrow)



NEW PROJECTS

• Supply of infrastructure and resources for offshore operations

João Henrique Rittershaussen

Chief Production Development Officer





Drivers for capturing value in the implementation of production development projects



Keeping the investment strategy on high value assets



Global scale challenges in the next 5 years





Implementation of 18 FPSOs, about 50% of the world's FPSOs



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Pre-salt high productivity reinforces the high capacity platforms strategy



Development of the Búzios field with seven additional FPSOs by 2027



Technological innovations in Mero field with the implementation of $\mathsf{HISEP}^{\mathsf{TM}}$



Procurement of 4 new production units to develop new projects



¹ Operational start-up post-2027

3D image of an All Electric FPSO project: new generation of platforms

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Technologies and initiatives supporting emission reduction



Commitment to best decommissioning practices



¹ Includes decomissioning costs reimbursable to future buyers of the assets of US\$ 1.1 billion

Investments focused on increasing efficiency and customer needs



We continue with responsible investments in Refining, Logistics and Gas



Expanding our infrastructure for gas flow and processing

ROUTE 3 INTEGRATED PROJECT



Start-up date in 2024

<u>Pipeline capacity</u> 18 MM m³/d + UPGN = 21 MM m³/d

STATUS

- 93% construction progress
- Gas pipeline subsea and onshore pipelines completed
- Utilities final comissioning
- Natural Gas Processing Unit (UPGN) conclusion - engineering under procurement since Jul/22 and construction/assembly since Sept/22

SEAP GAS PIPELINE



2027

Under technical and economic feasibility studies <u>Pipeline capacity</u> 18 MM m³/d

BM-C-33 GAS PIPELINE



Under technical and economic feasibility studies <u>Pipeline capacity</u> 16 MM m³/d

Start-up date in 2027

Paulo Palaia

Chief Digital Transformation and Innovation Executive Officer





Digital Transformation and Innovation Strategy



CAPEX 2023-27 • US\$ 2.1 billion investment

Innovate to generate value in our businesses, today and in the future, and focus on achieving our decarbonization goals

- HPC* capacity equivalent to over 550,000 nextgeneration laptops by 2027
- 80% Processes digitized by 2027, focusing on process robotization
- More than 1200 Agile Teams in 2027
- More than 1200 active patents in 2025
- More than 25k Employees trained and requalified in digital by 2027

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EXPECTED RESULTS

Protagonism and proactiveness in technological protection

Boosting Information Security



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Digital Transformation and Innovation

Initiatives by business segment

- Pre-salt connectivity (Optical Mesh + 5G *LTE + Medium Earth Orbit)
- Data science for security and increased operational efficiency
- Exploration & production
- From **HPC to Quantum Computing for Seismic Imaging and Reservoir Simulations
- Mobility and robotization to increase asset reliability
- New technological concepts of production development
- New technologies to reduce
 greenhouse gas emissions



Refining

- Solutions to increase conversion, energy efficiency and operational availability
- Use of Mobility devices in operation, EHS, equipment maintenance and inspection to support human reliability
- Technologies for biofuel production

- Solutions to increase efficiency in Natural Gas processing
- Optimization and digitalization of the gas processing chain, enabling access to new business models
- Technologies for low-emission electricity generation

*LTE = Long Term Evolution (4G/5G) **HPC = High Performance Computing

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Gas and Energy

Digital Transformation and Innovation

Initiatives by business segment



Commercialization and logistics

- New CRM platform in Commercialization and G&E
- Optimization of logistical resources

operations



 Process automation and paper reduction in port and warehouse Transversal Initiatives

 Deployment of LTE 4G/5G* connectivity for warehouses and ports

- Visibility, monitoring and prevention of cyber incidents
- Cloud platforms to accelerate digital transformation (Cloud Smart)
- Adoption of low-code technologies to accelerate the delivery of software solutions
- Digital Twins with the use of AI
- Technologies for the decarbonization of operations
- Massive use of AI, with a predictive focus on production efficiency, emissions and EHS, and reduction of exploratory risk
- 185 digital workers** generating +850 thousands man hours per year of productivity
- 70 startups working on challenges from 17 business units
- +1.000 trained in agility, AI and analytics, data, Information Security and others

*LTE = Long Term Evolution (4G/5G)

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**Automated processes (Robotic Process Automati on or RPA)

Strategic Plan 2023-2027

