Future-proofing the business

Innovation at the center of the long-term strategy

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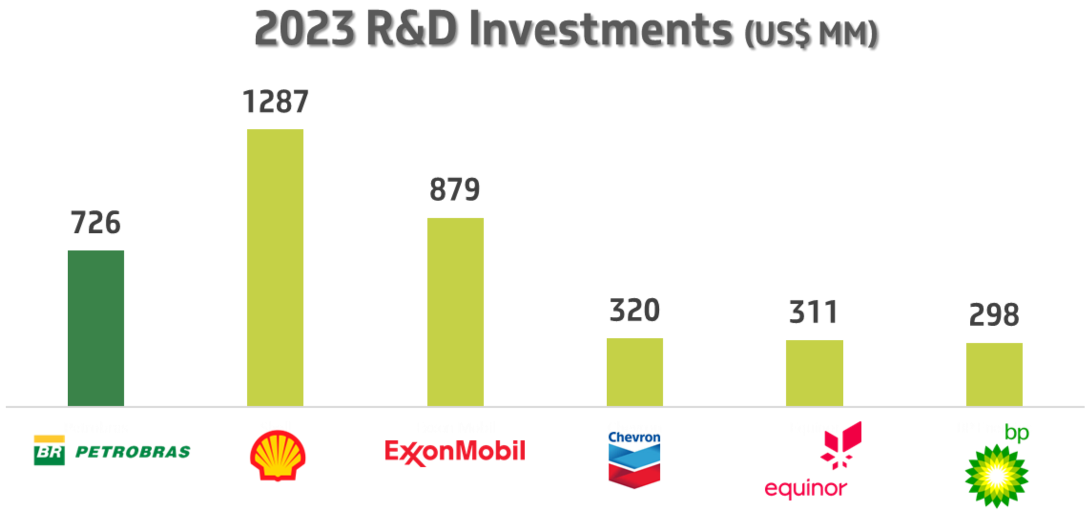
Technological innovation has been the basis for Petrobras' pioneering spirit over 70 years and will drive the construction of the future

US$3.6 billion in R&DI from 2024 to 2028

Increase participation in decarbonization and new energy to 30% in 2028

Comparison to other O&G companies:



Source: Evaluate Energy

Comparison to other U.S. institutions 2024 budget requests:

U.S. DEPARTMENT OF ENERGY
Fossil Energy and Carbon Management

Manages the National Energy Technology Laboratory

$905 MM

arpa·e

Advanced Research Projects Agency-Energy

$460MM

Innovation to create opportunities and evolve production

1992 Technical achievements related to the development of deepwater production systems in Marlim field (Campos Basin)

2001 Advances in technologies and cost effectiveness in deepwater development projects of Roncador field (Campos Basin)

2015 Set of technologies developed for oil and gas production in the pre-salt layer

2020 Set of innovations developed to enable production in the Búzios field, in the Santos Basin pre-salt

2024 Deployment of a wide set of new technologies for the successful revitalization of the Marlim Field and the entire deepwater Campos Basin, unlocking new paths for mature deepwater asset redevelopment, with significant reduction in greenhouse gas emissions in pre-salt

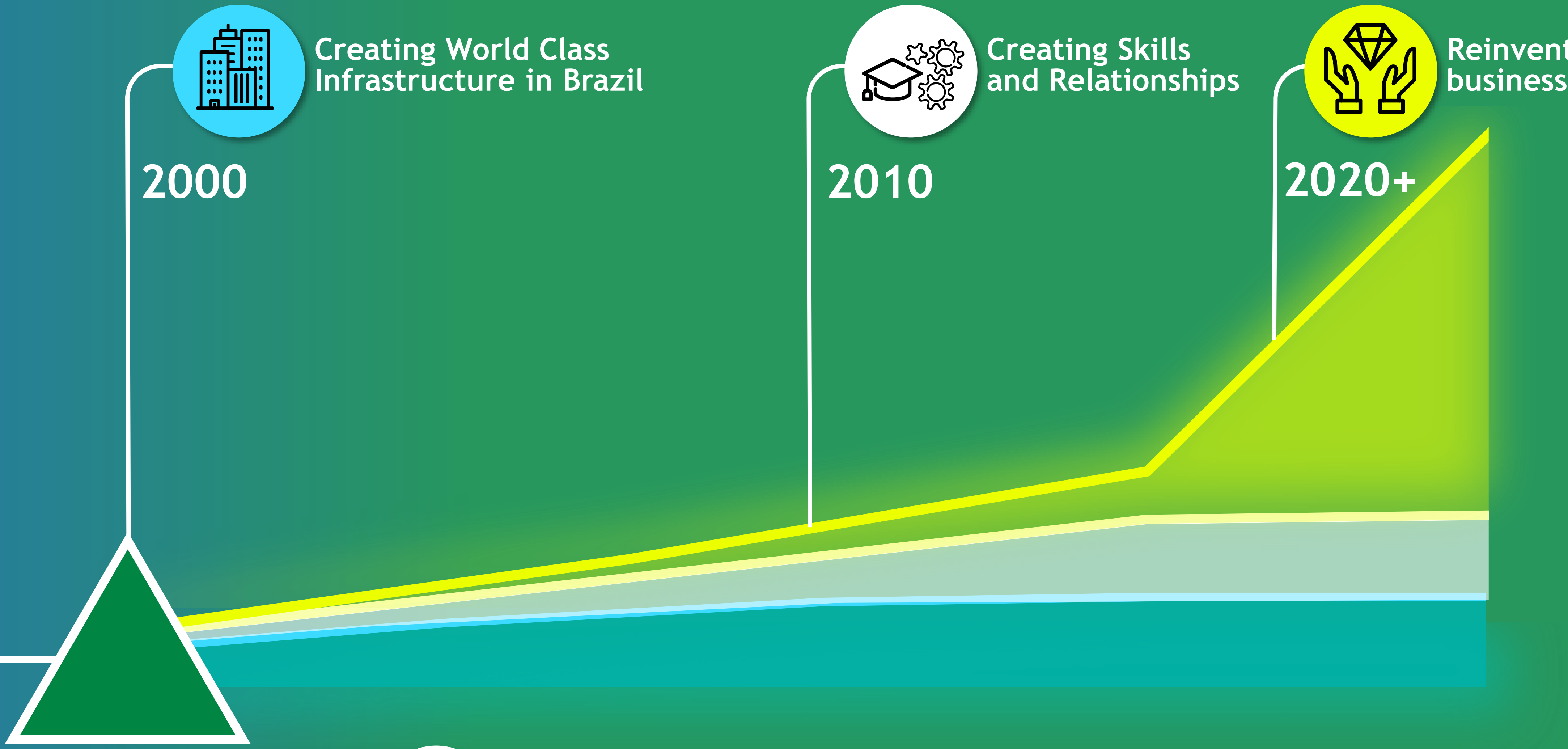
2019 2023

Awarded 2 times in the Brazilian edition

Awarded
5 TIMES
by OTC

Highest award of the world's oil industry

Petrobras’ 21st century R&D strategy explained in 3 steps



PETROBRAS R&D INVESTMENT FROM 2001 TO 2023

+ USD 15 Billion

Step 1
Creating World Class Infrastructure in Brazil

Largest R&D Center
in Latin America (CENPES)

308,000 m²
Total area

4,600
Equipment

116
Labs

+R$ 3 Billion invested
in R&D Infrastructure
on the main universities in Brazil

+300
Labs

+10,000
Equipment

Step 2
Creating Skills
and Relationships

Solid Human Capital

+200 Innovation Partners

+900 Internal researchers

+9000 External researchers

Our qualified Teams spend

25%+ time dedicated to R&D

than the average of researchers in Academia.

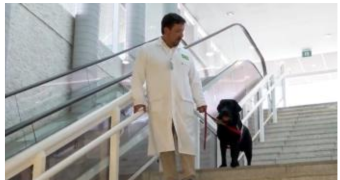
+8,000 books
+24,000 papers

+6x more articles published per researcher







Step 3
Reinvent the business

New legal framework for innovation provides breeding ground to develop new technologies in Brazil

By offering **new legal instruments** to tackle problems without **off-the-shelf solutions**

Innovation Act reviewed	New Public companies Act	Pre-commercial Procurement Decree	Startups Act approved
2016	**2016**	**2018**	**2021**

Innovation agreements

- ✓ Technological risk on contracting party
- ✓ Focus on defining the challenge
- ✓ Highest probability of success as selection criteria

Standard procurement

- ✗ Technological risk on the supplier
- ✗ Detailed solution prescription
- ✗ Lowest price as selection criteria

Step 3
Reinvent the business

Open innovation hub with hundreds of challenges published since 2019

From Lower
to Higher
maturity levels

Petrobras connections for innovation

To find the best
Universities,
Science Institutes
Startups
and companies

And create win-win partnerships to develop and test technologies with Petrobras

We have established a global network leveraging Petrobras' innovation capacity

120 universities and research institutes in Brazil

Non-exhaustive

85 universities and research institutes abroad

Non-exhaustive

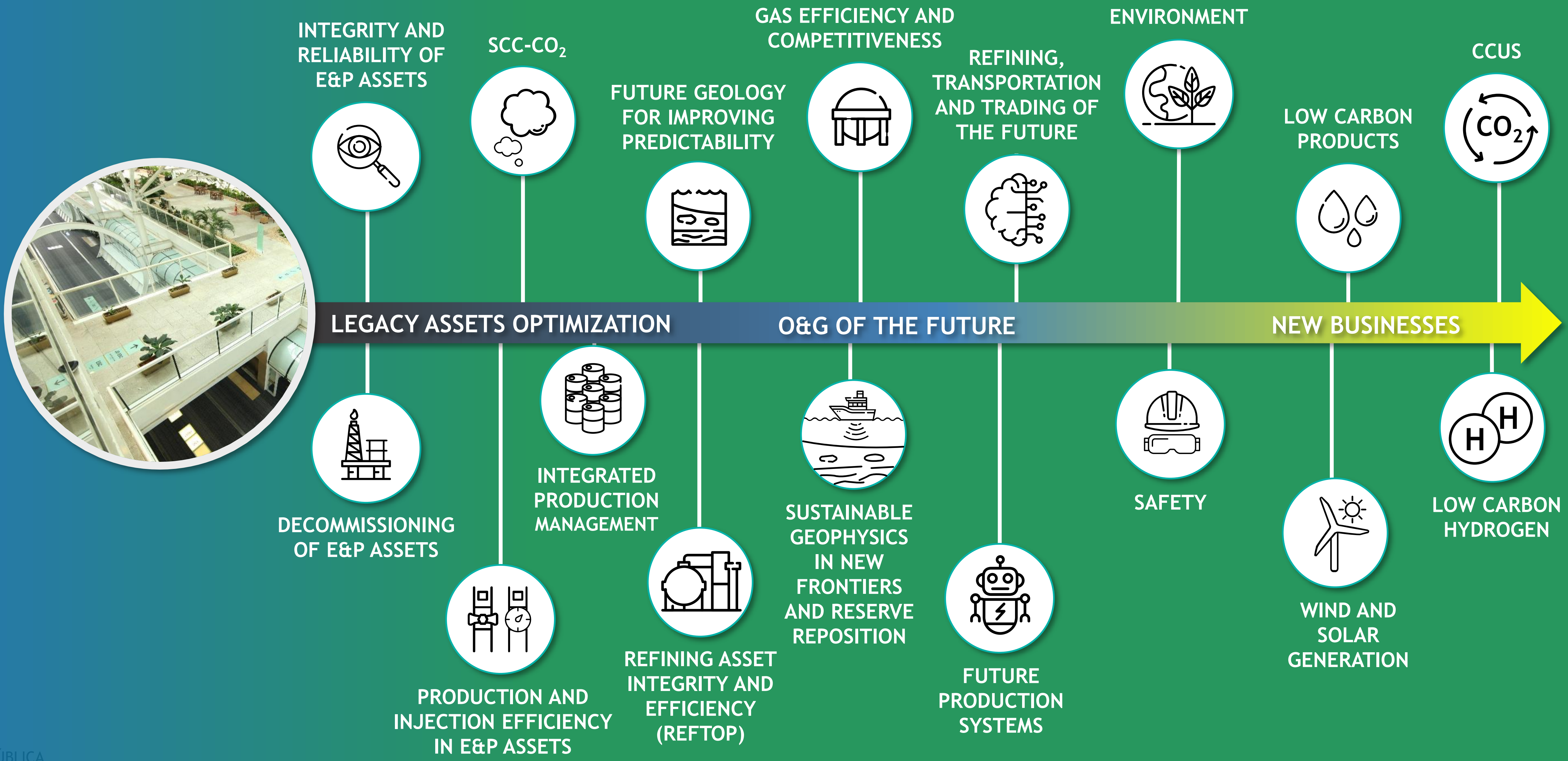
+50 ongoing technological cooperation agreements

Non-exhaustive

Engagement program with more than 60 startups

Non-exhaustive

RD&I ambitious portfolio, focused on high impact technologies



Building stage 4

Leveraging knowledge, assets and the network of partners.

Strengthening our partnerships is key to transform ideas into innovation and innovation in business.

Next generation of research, development and innovation organization

THANK YOU!

PETROBRAS