

Petrobras Connections for innovation

Powering Innovation with Petrobras



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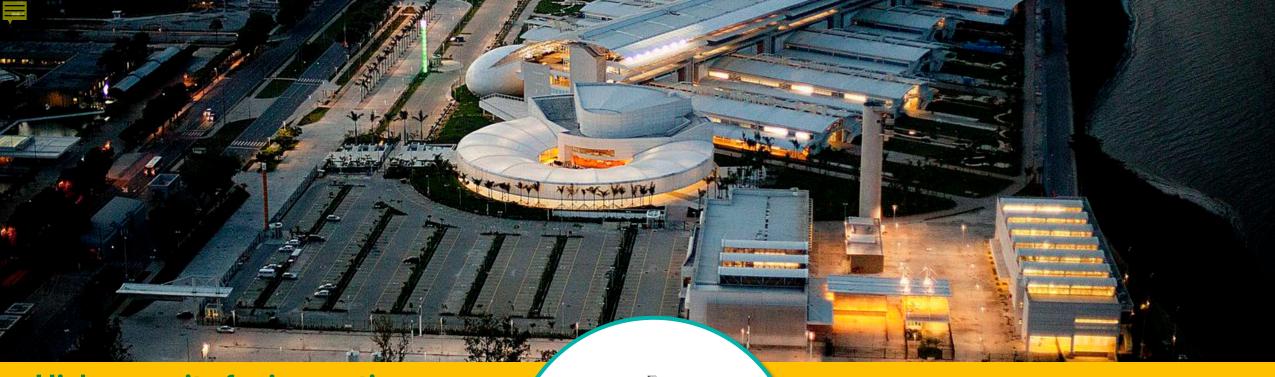
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High capacity for innovation



Human capital

~1000

Researchers



Total area

308,000 m²

Partnerships



Researchers **Engaged**

+9k | +230 | +60

Innovation **Partners**

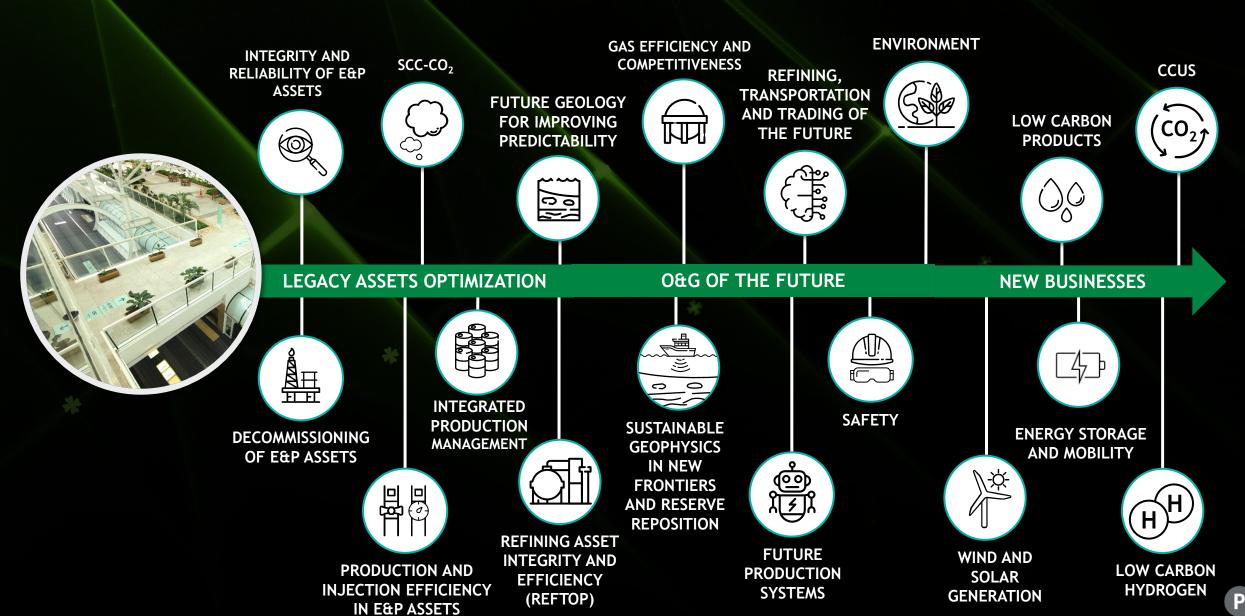
Startups

Laboratories



4,600 Equipments

RD&I ambitious portfolio, focused on high impact technologies





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

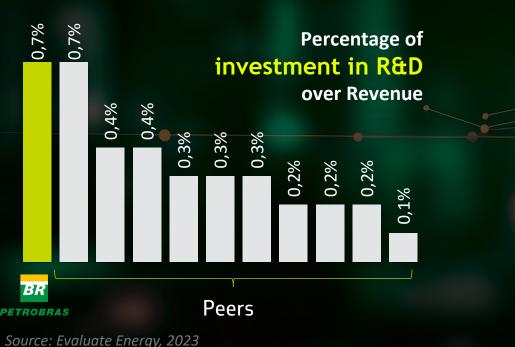
Petrobras' Strategic Plan 2025-2029



US\$4.2 billion in RD&I from 2025 to 2029



Increase participation in low carbon technologies up to 30% in 2029







Innovation to create opportunities and evolve production

1992 Technical achievements related to the development of deepwater production systems in Marlim field (Campos Basin) Advances in technologies and cost effectiveness in deepwater 2001 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







Awarded 2 times in the Brazilian edition



Awarded

5 TIMES
by OTC

Highest award of the world's oil industry





Petrobras' open innovation hub publishes hundreds of opportunities since 2019

From Lower to Higher maturity levels



To find the best Universities, Science Institutes Startups and Companies



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



"An environment of real opportunities for the market"

Petrobras . connections for innovation





Accelerate Innovation



Integrate with the Innovation Ecosystem



Establish new partnerships



Develop new technologies



Big Numbers



+950

OPPORTUNITIESDISCLOSED ON THE PORTAL





+9.000

RESEARCHERS INVOLVED



+4.000

PROPOSALS RECEIVED BY THE ECOSYSTEM



+600K

VIEWSON PORTAL



+USD 400 million

CONTRACTS SIGNED



+580 CONTRACTS
SIGNED

+230

INNOVATION

PARTNERS



Petrobras connections for innovation



Pre-Commercial Procurement

Technology development with pre-established conditions for a large scale supply contract

Solution Acquisition

Search for startups and other innovative companies that present validated or soon-to-be-validated tech solutions

Startups

Search for innovative solutions with startups from different areas



Technological Partnerships

Partnerships with Universities, companies and science and technology institutions

Open Lab

Open-source software development

Residents

Attract professionals and accelerate the learning curve

Technology Transfer







For Universities:



Pre-Commercial Procurement

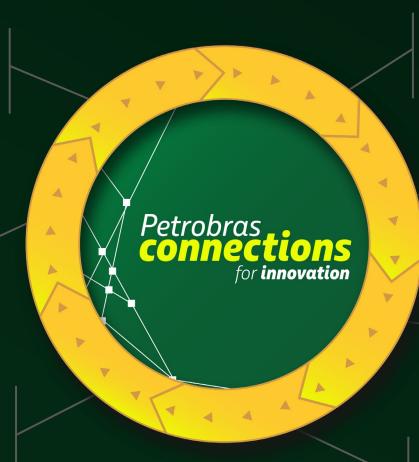
Technology development with pre-established conditions for a large scale supply contract

Solution Acquisition

Search for startups and other innovative companies that present validated or soon-to-be-validated tech solutions

Startups

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Technology Transfer







For startups:



Pre-Commercial Procurement

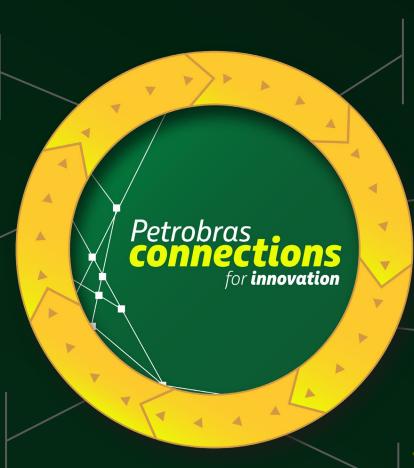
Technology development with pre-established conditions for a large scale supply contract

Solution Acquisition

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For companies:



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Petrobras Connections for innovation



Pre-Commercial Procurement

Technology development with pre-established conditions for a large scale supply contract

>> + 17 contracts signed

> + USD 260 million investment

Solution Acquisition

Search for startups and other innovative companies that present validated or soon-to-be-validated tech solutions

Petrobras **connections** for **innovation**

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Technology Transfer





There is a path from the first idea up to innovation commercial deployment

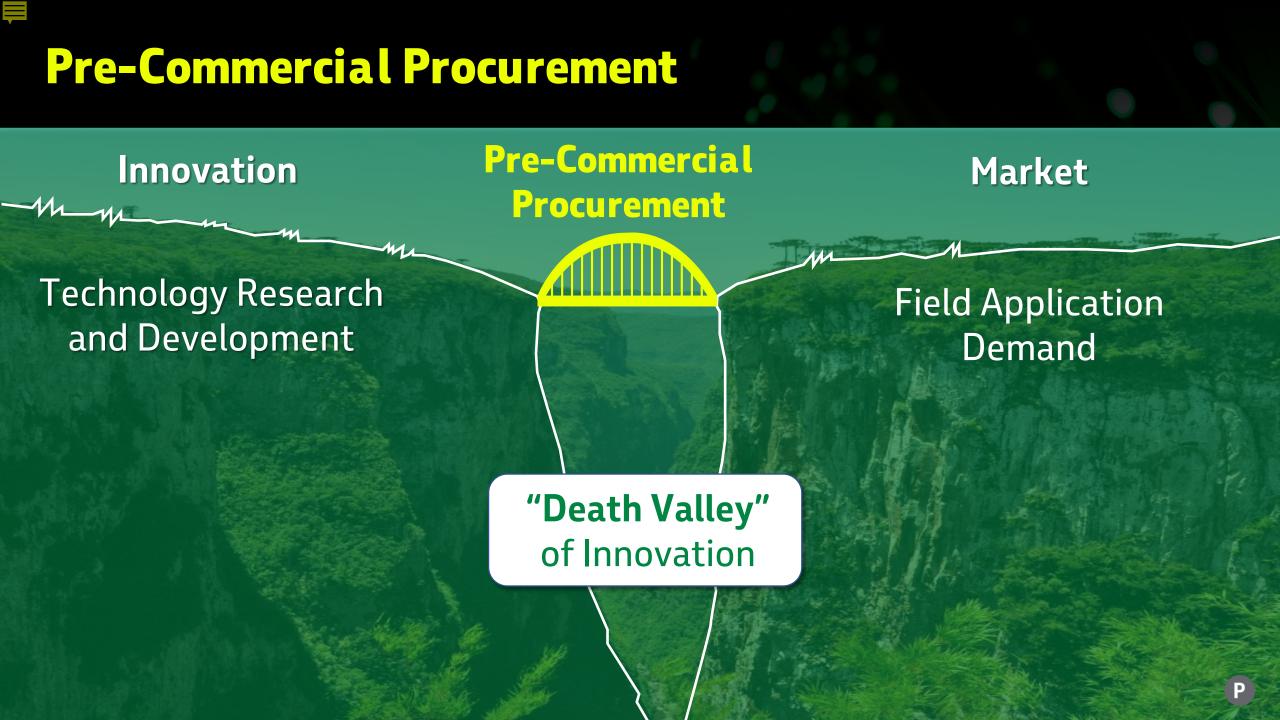
Sharing of technological risk (Possibility of failure) Market Engagement (partnership) Acceleration of deployment

Scaling up





Technological and commercial maturity





Pre-Commercial Procurement Module



Solution to a real problem (firm demand)



There is technological risk (TRL 2 to TRL 7)



Possibility to contract one or more technological routes with national or foreign companies



Compensation for effort



Possible to purchase solution in large scale (waiver of bidding)

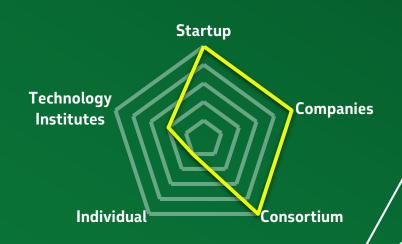


Flexibility to negotiate IP rights



Market Engagement!

Companies or Technology Institutes with recognized technical capacity and RD&I tradition





Pre-Commercial Procurement Module

Some of the companies that have already signed PCPs with Petrobras:









shearwater













Pre-Commercial Procurement

Technology development with pre-established conditions for a large scale supply contract

Solution Acquisition

Search for startups and other innovative companies that present solutions that have been validated or are in the process of being validated in the market

Startups

Search for innovative solutions with startups from different areas



Technological Cooperation

Partnerships with Universities, companies and science and technology institutions

Open Lab

Open-source software development

Residents

Attract professionals and accelerate the learning curve

Technology Transfer



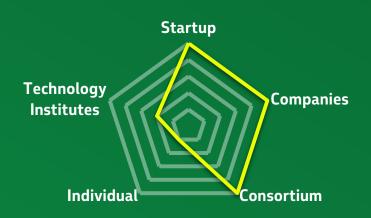


Solution Acquisition Module

Startups and companies with mature technologies to run tests in production environments and get ready to deployment.



+ Future opportunities in inspection technologies for industrial and offshore systems, as well as digital technologies with AI applications.





Agile route to testing and validating solutions



Petrobras technical monitoring



Possibility of direct contracting of supply after validation



Support from the Petrobras team in the continuity and implementation of projects



Petrobras **connections** for **innovation**



Pre-Commercial Procurement

Technology development with pre-established conditions for a large scale supply contract

Solution Acquisition

companies that present validated or soon-to-be-validated tech solutions

Startups

Search for innovative solutions with



Technological Partnerships

Partnerships with Universities, companies and science and technology institutions

Open Lab

Open-source software development

Residents

accelerate the learning curve

Technology Transfer

Licensing Technologies for use by third parties in their businesses





+200 Patents disclosed to the market

+30 Current contracts



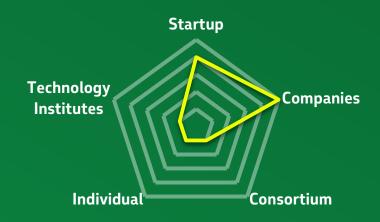


Technology Transfer Module

Companies seeking to incorporate new technologies to its portfolio

+30 Current contracts

+200 Patents disclosed to the market





Access to cutting-edge technology, knowhow and knowledge for innovation



Companies can commercially explore technologies developed by Petrobras



Possibility of internal use to optimize operations



Training and technical assistance



Smart Money

Petrobras Empowers Our Partners Beyond Financial Investment...

Business Guidance

Technical Expertise

Branding Support

Diversification of Solutions

Media Exposure

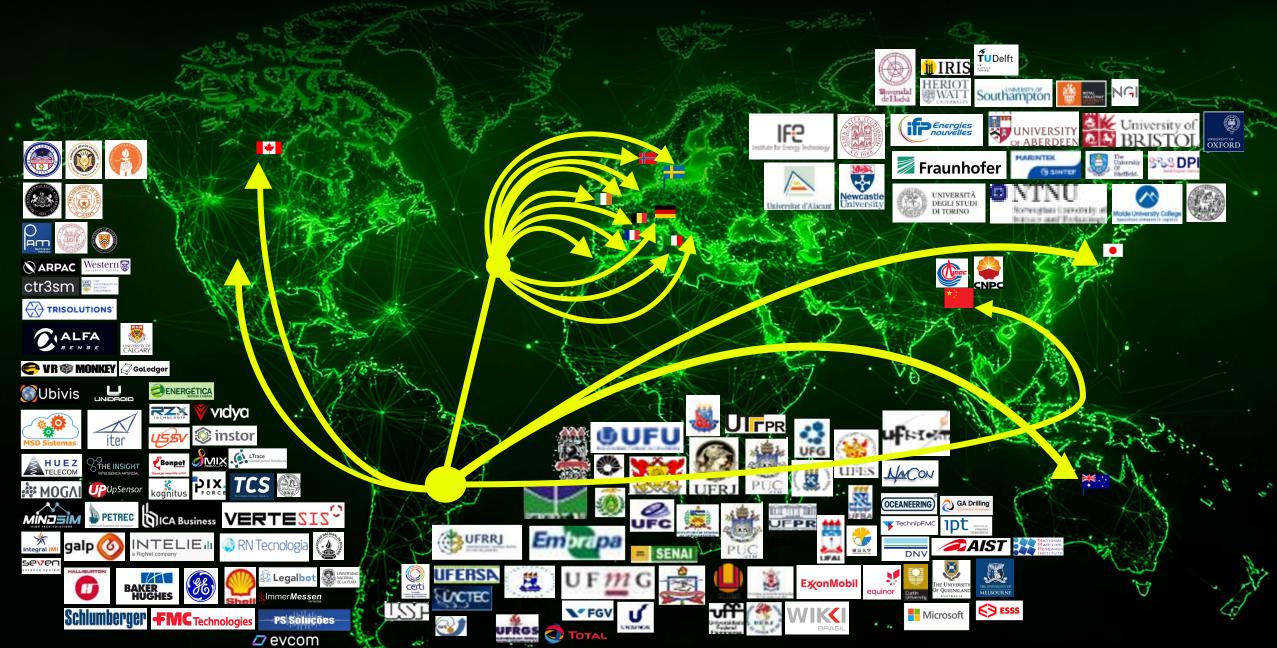
RD&I Support

Advanced RD&I Infrastructure

IT Infrastructure

Data Access

+ 230 Innovation Partners in Brazil and around the world



Partners in USA

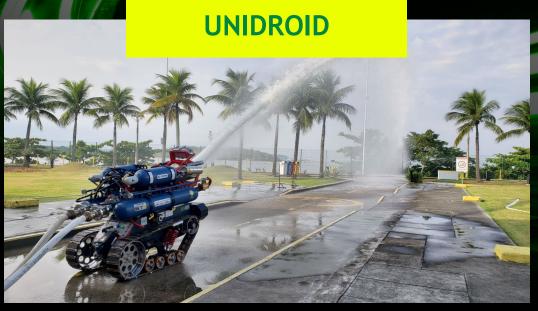
	NUMBER OF PARTNERS	VALUE
COMPANIES	82	63 MM US\$
UNIVERSITIES	18	11 MM US\$
RESEARCH INSTITUTES	4	6 MM US\$
O&G OPERATORS	4	1 MM US\$
ASSOCIATIONS	2	0.4 MM US\$
STARTUPS	1	0.05 мм US\$
TOTAL	111	82 MM R\$



Successful Partnerships











Successful Partnerships



AEVO

Innovation and Strategy Management Platform - 1st CPSI of history of Petrobras



VR Monkey

Offshore training in virtual reality



Flexfitting

Flexible pipe monitoring tool



Lemobs

Health mobile app with an integrated platform - 1st Supply Contract



Moda

Optical Direct Wire Strain Monitoring

Progressive damage monitoring such as sequential wire ruptures



Successful Partnerships



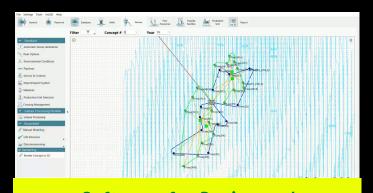
AUV

Autonomous robots for subsea operations

ALFAtwin

Alfatwin

Digital Twin of Artificial Lift and Flow Assurance



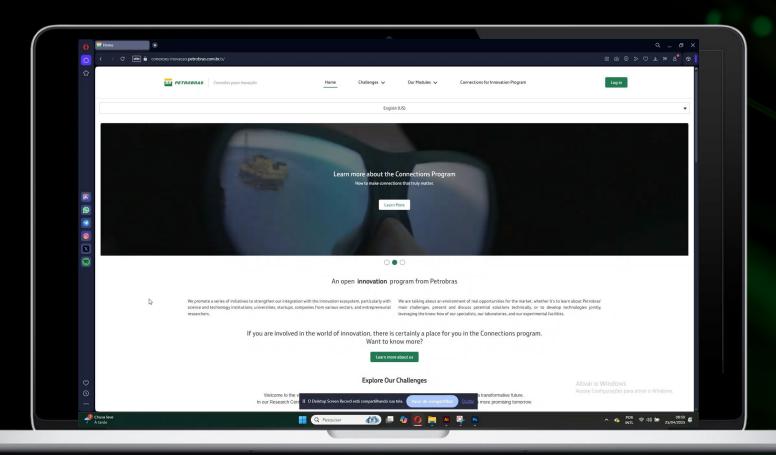
Software for Design and Evaluation of Production Development Projects with Innovation



MDSeal



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Petrobras Connections
for innovation





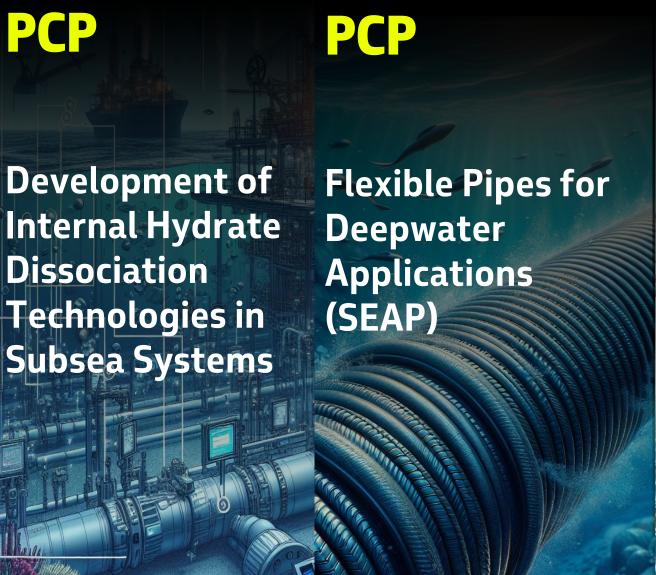
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Examples of oppened opportunities

Petrobras **connections**





Solution Technology Acquisition Transfer

Completion Fluid for Workover **Applications**

Vortex-Induced Motion **Suppression Fins** on SPAR **Platforms**

