

UFRJ SCIENCE PARK SUSTAINABILITY REPORT

2018



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UFRJ SCIENCE PARK SUSTAINABILITY REPORT

2018



Summary

Message from the CEO	8
Executive Summary	14
UFRJ Science Park	18
Who we are	19
Services	22
Governance of the Park	29
Human resource management	31
<i>Our Team</i>	33
<i>Life quality program and engagement of people in the Park</i>	38
Financial Management	54
Ecoefficiency Management	58
<i>Biodiversity of the Park</i>	58
<i>Energy</i>	59
<i>Water</i>	61
<i>Discharge of effluents and wastes</i>	64
Management of transparency and integrity in the Park	67



The Park and local development	70
Desenvolvendo a UFRJ	71
<i>Instituto HUB</i>	71
<i>Internships</i>	76
<i>Social Investment</i>	76
<i>Integration companies-university</i>	79
Developing the companies	85
<i>Interaction between the companies of different sizes</i>	88
<i>Diversification of economic sectors and size</i>	95
<i>of companies</i>	95
<i>COPPE/UFRJ Business Incubator</i>	98
Desenvolvendo a Economia e a Região	103
<i>Job creation</i>	103
<i>Taxes for the city</i>	105
<i>Knowledge (intellectual property)</i>	105
<i>Suppliers</i>	105
<i>Social Responsibility</i>	107
<i>Institutional representativeness</i>	111
<i>Visibility</i>	111

The Park and the future	120
Strategic Planning 2016-2045	121
National and International Partnerships	122
The Cube	124
Square	126
Security	126
About the report	128
Sustainable Development Goals (SDGs)	130
Reach	130
Stakeholder Mapping	131
Engagement and consultation	132
Materiality Matrix	133
Report limits	136
Material Theme Table	138
GRI Summary	140
The Park's Team	146
Technical Records	150



Message from the CEO

(GRI 102-14)

2018 was a time of consolidations for the UFRJ Science Park. Amid political uncertainties and economic turbulences in Brazil, the Project of the Park was renewed and revalidated by the Federal University of Rio de Janeiro, ensuring the formalization of all its activities and reinforcing the actions defined as priorities in its Strategic Planning for the coming years. For this reason, governance was selected as the most representative topic of 2018, when we also started to expand our actions into other fields of knowledge and beyond the Park's current geographical boundaries. For example, in the end of the year, the Park started to manage the UFRJ Biotechnology Hub. 2018 was also when Ambev opened its research and development center in the Park, bringing new connections with UFRJ research groups to our environment. Strategic partnerships were also built, such as the one established with the *Atlantic Interactions Research Centre* (AIR Centre), for the development of technologies for the Brazilian coast. In the interview below, the UFRJ Science Park CEO, José Carlos Pinto, tells how the institution progressed along the path during this period of time, which were the accomplishments made and what is the anticipation for 2019.



José Carlos Pinto,
CEO of the UFRJ Science Park

**WHY WAS
GOVERNANCE THE
TOPIC SELECTED
AS THE MOST
REPRESENTATIVE
FOR 2018?**

In November 2018, the statutes of the park were renewed and revalidated during the UFRJ University Council meeting and, therefore, we formalized all the practices developed by the Park along the last 20 years in the University's rules of procedure. Among them, the Committee for the Management of Articulations, which assesses the relationship of the companies with the university and the projects; the Committee for Performance Assessment, which gives opinions about the Park's performance; and the Committee for Assessment of Applications, which is responsible for assessing the quality level of the companies as well as their potential for a relationship with UFRJ. In 2018 the relationship of the Park with the support foundation which holds the Park's project, the Coppetec Foundation, was also formalized. The operation of the Foundation as the manager of the Park had already been scheduled and, now, we have the formalization of how this management will take place. This reduces paper work and allows the Park to safely operate with the government bodies, state-owned enterprises and other commercial and institutional entities.

**THE NEW STATUTE
MATERIALIZES THE
EXPANSION TOPIC,
SCHEDULED AS AN
OPERATION FOCUS
IN THE STRATEGIC
PLANNING OF THE
PARK. WHAT IS THE
RELEVANCE OF THIS
TOPIC FOR THE INS-
TITUTION AND HOW
DID IT HAPPEN IN
PRACTICE?**

The new statute materializes a basic principle in the innovation areas, which means they are not limited by geographical boundaries. These areas are defined by the interests of the institutions to which they belong and where there is an opportunity of relationship between the academy and the companies. And this is a particularly important item since UFRJ has different campi in the state of Rio de Janeiro and it is extremely relevant that the Park operates in all these areas. UFRJ has potential interests in places of the world where there are professors, projects, graduate students, and the Park can also represent UFRJ in these multiple actions that the university has in different places. A real proof of this was that, in the end of December 2018, the Rectory published an ordinance assigning responsibility to the Park to manage the UFRJ Biotechnology Hub, in view of the end of the agreement between the university and the Bio-Rio Foundation. In addition, we will start to operate in Macaé in a near future.

**IN YOUR OPINION,
WHICH WERE
THE OTHER
ACCOMPLISHMENTS
OF THE PARK IN
2018?**

The number of institutions in the Park continued to increase in 2018 and we reached the end of the year with 70 residents. The opening of the Ambev research center was very important since it more strongly incorporates into the Park topics such as biotechnology, food engineering, materials chemistry, reinforcing a path recommended in our planning, i.e. the path of diversity and of multiple connections with UFRJ research groups. In 2018, we also observed diversity both in the sizes and nature of the projects and not only in the topics. Although the Park is known for housing important research centers, the great majority of our residents consist of small and medium-sized companies. Last year we organized the second round of the acceleration program called CrowdRio together with Telefonica *Open Future*. Also, the role of the Science Park in the promotion of the interaction between large and small entrepreneurial initiatives was highlighted by the launching of innovation projects, such as the one developed by Vallourec.

**ALTHOUGH 2018 WAS
A YEAR OF POLITICAL
AND ECONOMIC INS-
TABILITY, THERE WAS
A SLIGHT INCREASE
IN THE INVESTMENTS
MADE IN THE OIL
AND GAS FIELD, FOR
WHICH THE PARK IS
RENOWNED. WHAT
CAN ONE EXPECT FOR
THIS FIELD IN 2019?**

After the difficult years of 2015, 2016, 2017 and most part of 2018 due to the financial crises of Petrobras and of the state of Rio de Janeiro, we are now seeing a change fueled by the successful pre-salt reservoir auctions. In November 2018, the Park actively participated in the largest fair in the oil and gas field (Rio *Oil & Gas*) and realized that there was more dynamics of people and companies as well as opportunities and businesses in this field when compared to the scenario of a couple of years ago. The best news was that, by the end of 2018, several large companies active in the oil and gas field, including the Park, hired projects and researchers, this signaling that a more promising future was just around the corner.

Most companies do not expect 2019 to be a great year, but we believe that it will provide a good transition from 2018 to 2020 and relaunch several drilling and production activities. 2019 will most likely be a good year for regulating, documenting and

qualifying the wells and for the analysis and preparation of the increasing production that 2020 will bring. We are very optimistic about the trajectory of the resident companies active in the oil and gas field and we hope to welcome other new companies in the Park.

Another very important topic in the innovation area, due to the relevance of Petrobras in the Brazilian innovation system, is the beginning of the simplification process of regulations established by the National Petroleum Agency (ANP), which involves consulting local experts about the best ways of making projects flow more easily. There is a positive anticipation by the local community that the procedures become simplified in 2019, which would then stimulate joint partnerships between the University, private agents in the oil field and other service companies.



**BROADLY SPEAKING,
WHICH ARE THE MAIN
OPERATION FOCUSES
FOR THE PARK IN
2019?**

We sincerely hope that we can report a greater number of resident companies active in the oil and gas field by the end of 2019. What is more, the university's Biotechnology hub can help us attract a significant number of companies acting in the biotechnology field to our innovation environment by the end of 2019. However, this is also a year fraught with uncertainties. The Federal University of Rio de Janeiro is welcoming a new rector and a different approach to science and technology may be taken by the federal government.

Another scope of activity that is ongoing corresponds to the effort of including all areas of the University in the Park's project. Our goal is to develop not only the research area but also other entrepreneurial initiatives coming from different knowledge areas. This way, we expect that the Park becomes, in 2019, a living lab, a place where not only innovation and experimenting occur but also becomes, itself, an object of innovation and experimenting. Several relevant partnerships have already

been formed, such as the *Atlantic Interactions Research Center* (AIR Centre) for solutions and actions in the Guanabara Bay. As a result, a project funded by the state of Rio de Janeiro for monitoring sea currents will be made publicly available at the Park as a pilot project.

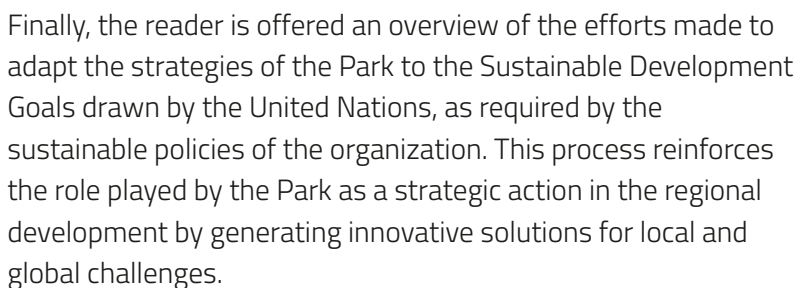
In addition, we hope that we can sign an agreement with the government of the state of Rio de Janeiro for transforming the Park in an environment for the validation and approval of technologies that are eventually bought by different governmental agents. We hope that the Park can consolidate its integrated activity in the city, by being of service to different governmental agents as well as to the Federal University of Rio de Janeiro, so as to stimulate studies, projects and services that ultimately benefit the society of Rio de Janeiro.

Executive Summary

This Sustainability Report presents the main indicators of economic, financial, social and environmental performance of the Park from January 1 until December 31, 2018. In an attempt to achieve the best international practices on sustainability, the report follows the guidelines provided by of the Global Reporting Initiative (GRI) standard version.

In the section called "Science Park", the organization is described as an innovation environment whose mission is to strengthen the innovation capacity of the ecosystem aiming at creating wealth and well-being for the society. It is a locus for entrepreneurial initiatives and generation of knowledge. In this sense, the report describes experiences in the organization of events that aim to create networking and that focus on corporate social responsibility as well as concrete actions aimed at improving operational performance.

In the section "Park and Local Development", we present the main results achieved in relation to three issues: UFRJ; the resident companies; the economy and the area. The results are presented through topics such as the support given to the entrepreneurial initiatives taken by students, social investments made by the Park in projects of interest for the university, creation of jobs, sectorial diversification and institutional representation. The highlight is the strong relationship between the academic areas and the companies which, through 98



High Numbers

IN DECEMBER 31th 2018

350.000 m²
area

73.660,77 m²
of green area



517 visitors

387 brazilian visitors

130 visitors from other countries



73 institutions



63 resident companies

15
large companies

10
Medium-sized and small companies

30
startup incubator

8
startup CrowdRio

10
laboratories

Cooperation



R\$ 8.704.892,71

Invested in the cooperation between the companies and the university¹

R\$ 4.824.802,09

Invested in P&D in the university in the interaction with the companies of the Park

6 centers
9 units

Involved in the cooperation projects between the companies of the Park and the University



R\$ 14.000

Invested by the Park in projects of the university that involved the direct participation of 5 students

67

Events for integrating the companies

34

Applications for intellectual property

98

Projects hired as cooperation with UFRJ

R\$ 7.313.550,63

*Generated from resources for the University coming from land concession in the Park**

R\$ 3.215.856,59

Tax revenue

Empregos



1.609

Professionals employed in the Park

114 trainees

119 Masters and Master's students

244 Doctors and doctoral students

908 Graduates and undergraduates

Accumulated 2003-2018

R\$ 229.704.892,71

Invested in the cooperation between the companies and the university¹

R\$ 4.824.802,09

Invested in P7D in the university in the interaction with the companies of the Park

R\$ 33.215.856,59

tax revenue²

R\$ 38.313.550,63

generated from resources for the University coming from land concession in the Park³

R\$ 900.000.000,00

Invested by the companies in the creation, generation and operation of research centers installed in the Park (Accumulated amount since the opening of the Park)

R\$ 2.014.000,00

Invested by the Park in projects of the university that involved the direct participation of 5 students

164 applications

for intellectual property

*

NÃO DISPONÍMOS DA INFORMAÇÃO ATUALIZADA DO VALOR DA CONCESSÃO DE USO DAS GRANDES EMPRESAS PAGA DIRETAMENTE À UFRJ. PARA FINS DE ATUALIZAÇÃO, UTILIZAMOS O ÍNDICE DO IGP-M ACUMULADO AO FINAL DE CADA ANO, CONFORME PREVISÃO CONTRATUAL.

1

THIS FIGURE MAY BE ALTERED POSITIVELY ANNUALLY DUE TO THE FACT THAT THE COMPANIES ARE ABLE TO INCLUDE PROJECTS WITH UFRJ ANY TIME, EVEN THE ONES FROM PREVIOUS YEARS.

2

THIS NUMBER REFERS TO THE YEAR OF 2009 AND 2018, IN 2009 THE FIRST COMPANY OPENED AT THE PARK.

3

THIS NUMBER REFERS TO THE PERIOD FROM 2013 (WHEN INFORMATION STARTED TO BE COLLECTED) TO 2018.

UFRJ Science Park



Who we are



Mission

Reinforce the innovation capacity of the ecosystem to create wealth and well-being to society within an environment of connections of entrepreneurial initiatives and generation of knowledge.



Values

COMMITMENT TO INNOVATION

We generate innovation that has an impact on the improvement of entrepreneurial, social and academic environments.

COLABORATION

We connect the links of the innovation networks in the generation of knowledge and technology.

ENTREPRENEURIAL ATTITUDE

We are proactive and persevering in reinforcing the innovation ecosystem.



Vision for 2045

The Science Park is a dynamic and diverse environment that generates relevant innovations for the economic, social and environmental development.

Within this Vision, the main action attributes of the UFRJ Science Park are:

PROTAGONISM

Active and anticipatory attitude to boost the global innovation networks;

DIVERSITY

Environment with cultural diversity made up of national and international companies of different sizes connected to UFRJ research groups and articulated with entrepreneurs and investors;

DYNAMISM

Environment with great capacity for renovation, full of life, characterized by its dynamism and lightness.

The UFRJ Science Park (PTEC-UFRJ) is an innovative and entrepreneurial environment within the Federal University of Rio de Janeiro (**GRI 102-3**), which gathers research centers of both national and multinational companies, as well as laboratories and one business incubator. With the interaction between the companies and the University, students and academic personnel, it is possible to turn knowledge into jobs and income offering innovative products and services to society. The Park, opened in 2003 in an area of 350 thousand square meters on Fundão Island university campus, is a UFRJ project, without legal personality (**GRI 102-5**), directly linked to the Rector's Office.

On December 31, 2018, the Park was home to 15 research centers of large companies, 10 of small and medium-sized companies, 10 UFRJ laboratories, as well as 30 startups in the COPPE/UFRJ Business Incubator and 8 of the *Crowd Rio* business acceleration program in a partnership with Telefônica Open Future. The Park is also home to the UFRJ Innovation Hub, an initiative that connects hundreds of entrepreneurial initiatives of the university. Compared to the same period in 2017, the number of resident organizations increased in 7%.

In 2018, two activities scheduled in the Strategic Planning of the Park were highlighted: the attraction of new companies from different economic sectors and the expansion of the Park's activities beyond its physical boundaries. In the end of the year, the Park was appointed manager, on a temporary basis, of UFRJ Biotechnology Hub, and started to operate in February 2019, reinforcing its activities in new areas of knowledge. In the same way, in August 2018, Ambev opened its research and development center in the Park, bringing new connections with UFRJ research groups to our environment. Strategic partnerships were also built, such as the one established with the *Atlantic Interactions Research Centre* (AIR Centre), for the development of technologies for the Brazilian coast and more and more

transforming the Park into a true living laboratory of application of innovations for the welfare of society.

Partnerships with other national and international innovation environments were also intensified in 2018. In addition to the ones already built with the Scientific and Technological Park of Pontifícia Universidade Católica do Rio Grande do Sul (Tecnopuc), with Porto Digital, in Recife (PE), and the one with TusPark (Tsinghua University Science Park), in China, in 2018 the Park signed an agreement with the American State of Oklahoma. In October, a partnership with the Eastern Oklahoma County Partnership (EOCP) was established in order to expand and diversify the entrepreneurial investment between Brazil and Oklahoma focusing on technological innovation. The EOCP is an institution that fosters economic development and entrepreneurship in this American state.

A Business Incubator is also part of the Park's structure – the COPPE/UFRJ Business Incubator, designed to encourage the creation of new companies based on technological knowledge, a result of the work of research groups located at UFRJ. Founded in 1994, the Incubator constitutes the basis of the professionals who developed all the structure of the UFRJ Science Park. During more than 20 years of activity, the Incubator has supported the development of around 100 companies, responsible for generating more than 1625 highly qualified jobs. On December 31, 2018, the Incubator was home to 30 *startups*.

The Park also follows up the management of the small and medium-sized companies installed and carries out activities which foster the relationship between the resident organizations and other interested public. Our actions aim at expanding the *networking* of the companies and stimulating entrepreneurship through activities of business management and fundraising.

The Park also has a *coworking* space, areas for events and places for students' and professors' entrepreneurial projects.



Companies Support Programs (GRI 102-2)

Mentoring: action with the COPPEAD/UFRJ Institute for strategic guiding and expansion of the resident startups networking.

Trajectory X: fosters professional and personal development aiming at leadership formation in the feminine universe.

National and International Softlanding: partnership with innovation environments in Brazil and abroad, for the exchange of resident companies, allowing the expansion of relationship networks and increasing business opportunities.

CrowdRio: acceleration program for the development of digital businesses and IoT in a partnership with Telefônica Open Future. The program, organized in three four-month eliminatory stages, enables the ideas to be validated and, during the program, they can be transformed into companies in commercial training.



Services (GRI 102-2, 102-6)

Based on Mission, Vision and Values concepts, in 2017 the services provided by all the management offices of the Park were systematically designed for the resident institutions.

- Support to potential resident companies to identify interaction opportunities with UFRJ, through meetings and *workshops* with research groups.

- Establishment of direct and continuous channels to foster the company-university interaction:
 - *Connection with UFRJ research groups;*
 - *Connection with entrepreneurial initiatives of the UFRJ student body (UFRJ Innovation Hub);*
 - *Connection with other resident companies of the Park and the Incubator.*
- Organization of events that aim at fostering the relationship between the resident organizations of the Science Park and the other interested publics:
 - *Monthly series of events and workshops;*
 - *Series of open events for non-resident experts to explore certain fields of knowledge.*
- Development of qualified *networking*, fostering the integration of companies in the innovation ecosystem, rapprochement of large, medium and small-sized companies of the Park, as well as of other interested institutions.
- Release of information about events, tenders, programs and other subjects of interest for the companies.

Specifically, according to the size of the company, the following services and activities are offered:

Large Companies

- Support to the development and implementation of investments plans in R, D & I of the large companies in a partnership with different actors: university, government and other companies (including *startups*).
- Management follow-up of the portfolio of R,D&I projects of the research centers installed.

- Promotion and encouragement of the sharing of experiences gained by the resident companies during the partnerships based on assessment of project performance.

Small and medium-sized companies

- Follow-up and management of small and medium-sized companies installed in the Park, offering access to the partners' network to contract consultancy and to qualify the resident companies.
- Image management, press agency, content production and consultancy for digital media for the small and medium-sized companies installed in the Park.
- Matchmaking with investors of venture capital and guiding for an efficient relationship with this community.

Startups

- Support to the creation of new businesses based on the technological knowledge generated from the relationship with UFRJ:
 - Utilization of the *lean startup* methodology;
 - Offer of guidance and follow-up of the development of each business in communication and marketing, finances and other management areas;
 - Training for business capacitation of resident entrepreneurs.
- Development of professional *networking*.
- Sharing of experiences among resident *startups*, encouraging the maturing process of the entrepreneurs.

All the organizations of the Park have access to the following infrastructure services:

- 24-hour security;
- Electronic Surveillance System with 24-hour monitoring;
- Landscape gardening;
- Public cleaning services;
- Cleaning of common areas of the shared buildings;
- Garbage collection;
- Public Street Lighting;
- Access to the Park's auditorium, which holds up to 70 people, and to the meeting rooms.

The companies that reside in the shared buildings have access to the following services:

- Lighting of common areas of shared buildings;
- Maintenance and operation of central air-conditioning;
- Civil and electrical maintenance of common areas;
- Maintenance and operation of the telecommunication system;
- Reception and administration of the Park.



Resident organizations on 31/12/2018 (GRI 102-6)

LARGE COMPANIES



SMALL AND MEDIUM-SIZED COMPANIES



STARTUPS OF THE COPPE/UFRJ BUSINESS INCUBATOR



STARTUPS OF THE CROWDRIO PROGRAM

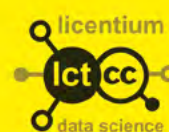


Champz



Genuine
Language

Sr. Francisco



LABORATORIES



COPPE
UFRJ



NEO
Núcleo de Estruturas Oceânicas



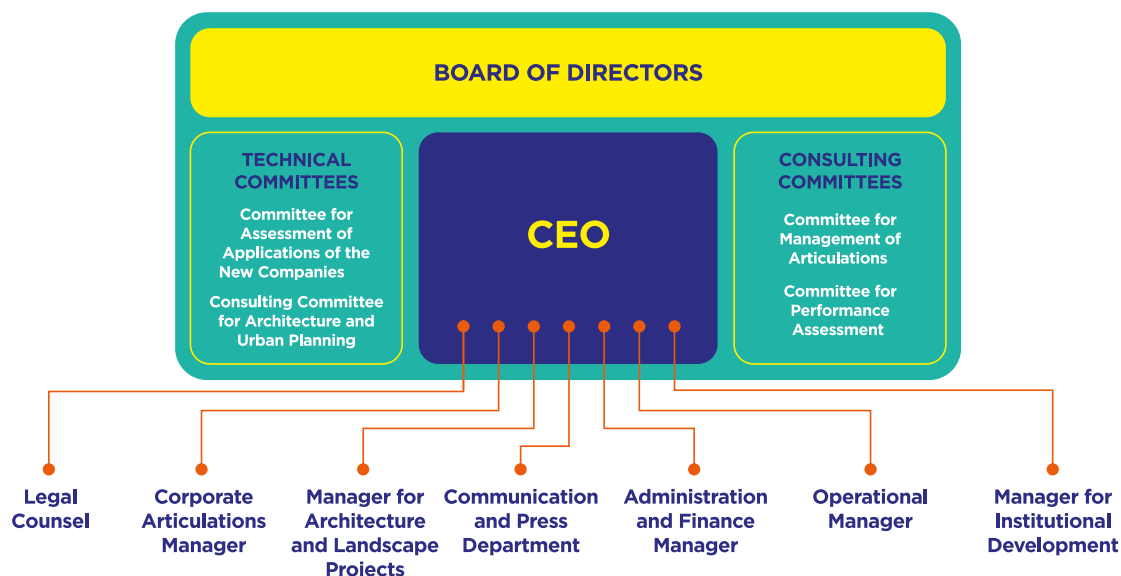
Governance of the Park (GRI 102-18)

The governance system of the UFRJ Science Park – ruled by the statute of the UFRJ Science Park – consists of a combination of governance and management mechanisms which mainly aim at ensuring the full achievement of its mission in a participatory manner.

The Board of Directors is the highest decision body of the Park. In addition to nominating and approving the CEO and his/her management plan, the Board also evaluates the companies that apply to become part of the Park and permanently assesses the different impacts generated by the Park's performance. Its members are listed at the end of this report and are appointed on a Rector's ordinance, for a two-year term, but can be reappointed for more two years.

The CEO is responsible for the strategic decisions and performance concerning the economic, environmental and social sustainability of the Park. It is a four-year term and the main requirement is that the CEO be a member of the academic or administration staff of UFRJ. The CEO is supported by six management areas and one legal counsel, all of them, except one UFRJ employee, work at the support foundation of the Park: the Foundation for Technological Projects and Studies – COPPETEC.





Organizational Chart of the Park

For the accomplishment of the Park's mission, there are two technical committees of governance support: (i) Committee for Assessment of Applications of New Companies; and (ii) Consulting Committee for Architecture and Urban Planning.

The Committee for Assessment of Applications of New Companies is in charge of everything that involves the assessment of technical proposals presented by the companies interested in joining the Park's environment, as well as the recommendation for the extinction of the contract with the resident companies that break the rules of cooperation. The committee is comprised of three members from the Board of Directors, one representative of the State Government and a member from the Board of Directors with no institutional bond with UFRJ.

The Consulting Committee for Architecture and Urban Planning defines the parameters of land use and analyzes the companies' projects according to these parameters. It is a mixed Committee, with representatives from different UFRJ departments.

There are two more Supporting Consulting Committees for the governance of the Park: (i) the Committee for Management of UFRJ Articulations – Company/Science Park; and (ii) the Committee for Performance Assessment of the UFRJ Science Park. The former supports the Park, defining guidelines for prioritization of actions and initiatives that are of UFRJ's interest and that characterize the economic and financial support given to UFRJ departments by the companies installed in the Park.

The Committee is also in charge of assessing the investments made in UFRJ as a return of the companies installed in the Science Park, in accordance with the respective contracts of land use. This Committee is comprised of UFRJ employees and makes sure that the interests of the University are always met.

It follows up the whole performance of the Park, focusing on operational, technical and financial aspects. The Committee for Performance Assessment of the UFRJ Science Park is comprised of the chairperson of the Board of directors, the CEO of the Park, the representative of the support Foundation in the Board of directors, a representative of the city of Rio de Janeiro Municipality and a member appointed by the Board of Directors who is not a UFRJ employee.

Human resource management

Material theme:  (GRI 103-1, 103-2, 103-3)

Protagonism is the performance attribute of the UFRJ Science Park to achieve the 2045 Vision included in the Strategic Planning 2016-2045. In other words, to accomplish our vision, we need our employees to have an active and anticipatory attitude in view of the challenges of being a promoter agent of innovation networks.

For this purpose, in 2018, we began the construction of an Ongoing Policy for People's Development (*Política Contínua de Desenvolvimento de Pessoas* (PCDP))¹, together with the COPPETEC Foundation for engaging, valuing, and retaining talented employees in order to lower the turnover. The climax of this human resource management policy will be a career and salary policy to be implemented until 2020.

The Ongoing Policy for People's Development, built up until now, includes the following actions: Convergent Pathways Project; Mapping and Assessment of Performance; Career and Salary Policy; and Plan for Ongoing Qualification of the Park's Employees.

	Actions	Goal
1	Convergent Pathways Project	Until the end of 2018
2	Mapping and Assessment of Performance	Until the end of 2018
3	Plan for Ongoing Qualification of the Park's Employees	Until the end of 2019
4	Career and Salary Policy	Until the end of 2020

Ongoing Policy for People's Development

During 2018, we began the first and second actions of the PCDP. The first was the Convergent Pathways Project, in a partnership with the UFRJ Innovation Agency, whose theme was the construction of the Life Plan of our employees. This Project, in turn, is divided in two stages: one that has already been carried out; and the other which depends on the end of the second action.

¹ The target audience of this policy is the employees of the institution.

The Mapping of Performance of the Park's Employees, second action, which started in the middle of 2018, was delayed due to contracting procedures of the company that would carry out this activity. This action is due to be finished during the first semester of 2019. After that, the Assessment of Performances will start and the Convergent Pathways Project will be finished.

In addition to the PCDP, the Park makes significant efforts in the development of the Life Quality Program, with specific actions directed to its insourced employees and other actions aimed at the whole community of the Park². On the following pages, we will present our team and the Life Quality Program.

Our Team (GRI 102-7, 102-8, 401-1, 403-1)

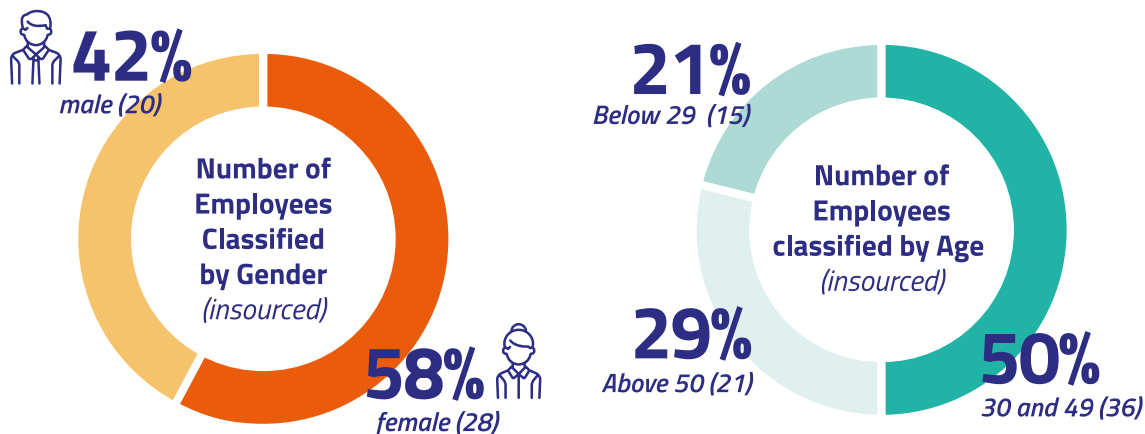


In the UFRJ Science Park, we ended 2018 with a team of 72 employees (GRI 102-7), 48 insourced – divided in 58% female and 42% male, and mostly between 30 and 49 years old – and 24 outsourced – almost 100% male, and also mostly between 30 and 49.

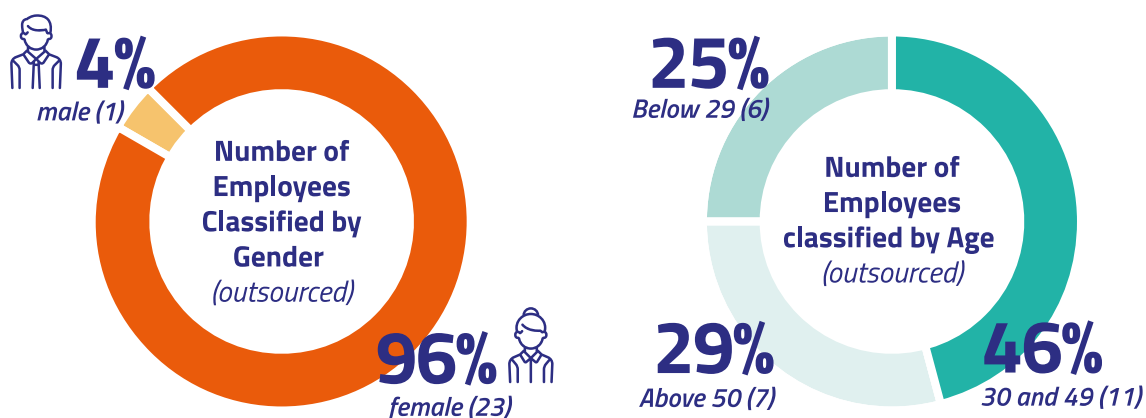
	2018	%	2017	%	2016	%
Insourced Employees	48	67	48	66	48	66
Outsourced	24	33	25	34	25	34
Total	72	33	73	34	73	34

Total number of Employees (Including the Outsourced)

² Chamamos de comunidade Parque todos os residentes, bem como os alunos, docentes e técnicos da UFRJ e moradores da Vila Residencial.



GRI 102-8, 401-1)



GRI 102-8, 401-1)

58% of our employees are registered under the Consolidation of Brazilian Labor Laws (*Consolidação das Leis do Trabalho - C.L.T.*) via COPPETEC Foundation - 40 employees and 2 young apprentices -, 33% are outsourced - providing services of surveillance, janitorial services and landscape gardening -, 3% UFRJ employees, 4% are registered under trainee contract and 1% is a scholarship holder, also via COPPETEC Foundation.

	2018	%	2017	%	2016	%
COPPETEC Employees	40	58	42	60	40	58
COPPETEC Young Apprentice	2		2		2	
Outsourced	24	33	25	34	25	34
UFRJ Employees	2	3	2	3	2	3
COPPETEC Scholarship Holders	1	1	1	1	1	1
COPPETEC trainees	3	4	1	1	3	4
Total	72	100	73	100	73	100

Total Number of Employees (Including the outsourced)

If compared to 2017, the total number of employees of the Park decreased in 1%, as the number of outsourced employees decreased from 34 to 33. Since 2016, it has been observed that the number of insourced employees remains the same, and there is only a turnover.

In 2018, the turnover rate **(GRI 401-1)** of the insourced employees³ of the Park was of 25%, with the admission of four women and five men and the dismissal of six men and six women, and the majority are residents of the North Area of the city of Rio de Janeiro. Among the people admitted, three were assigned to new jobs and the others substituted pre-existing jobs.

³ The turnover rate refers only to the insourced employees of the Park, not including in this analysis the outsourced ones.

	Hired	Dismissed	Turnover Rate (%)
Gender			
Male	6	6	12,50
Female	4	6	12,50
Age			
Below the age of 29	5	5	10,42
From 30 to 49	4	6	12,50
Above 50	0	1	2,08
Place of residence			
North Area	5	6	12,50
South Area	2	1	2,08
West Area	1	3	6,25
Central Area	1	0	0,00
Eastern part of the State of Rio de Janeiro	0	0	0,00
Baixada Fluminense (region in the state)	0	2	4,17

Insourced Employees of the Park classified by gender, age and place of residence in 2018.

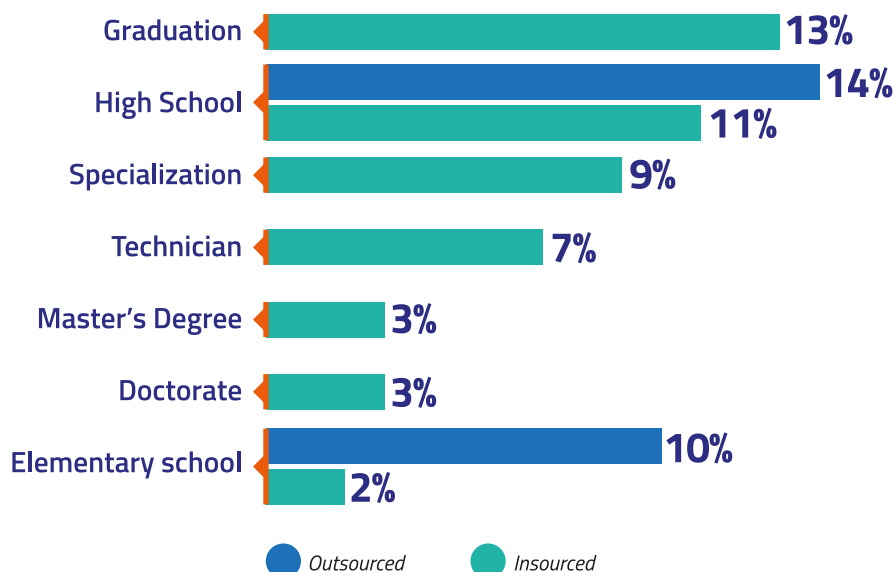
The Park's employees are geographically distributed in the state of Rio de Janeiro (**GRI 102-8**). Among the insourced employees⁴ of the Park, 20% live in the surroundings of the Park and 12,5% live in surrounding communities (Vila Residencial, Vila do João, Maré).

⁴ These data refer to the insourced employees of the Park, and do not include the outsourced employees in this analysis.

	Insourced	%	Outsourced	%	Total	%
North Area	23	48	9	38	32	44
South Area	6	13	0	0	6	8
West Area	5	10	5	21	10	14
Central Area	5	10	0	0	5	7
Eastern part of the State of Rio de Janeiro	5	10	1	4	6	8
Baixada Fluminense (region in the state)	4	8	9	38	13	18
Total	48	100	24	100	72	100

Employees of the Park classified by place of residence in 2018.

Our team of insourced personnel consists of 73% technicians, graduated and post-graduated employees and 23% who have graduated from high school. It must be observed that 35% of the total number of people working for the Park's administration is from the Federal University of Rio de Janeiro. It is also found that among the outsourced employees, 58% have finished high school and 42% have only finished elementary school.





Life quality program and engagement of people in the Park

Material theme:   (103-1, 103-2, 103-3)

Aiming to create a cozier environment for our employees, as well as for the Park community, with activities that result in more **engagement, dynamism, diversity** and **protagonism**, the Park created a life quality program whose actions and projects developed⁵, in 2018, were:

⁵ This report will show the actions and projects developed by the Science Park's administration in a partnership with its residents, not providing details about the actions developed by the Park's residents. In the section Social Responsibility – inside Park and Local development –, we will talk about the volunteer actions of the large resident companies of the Park.

	Actions	Projects	2018 Goal	Follow-up of 2018 goals
1	Fostering training and qualification	Training and Qualification	(a goal was not established)	(a goal was not established)
2	Actions of awareness and integration with the environment	Environment week	Carry out an Environment Week	Goal achieved
		Urban Vegetable Garden	(a goal was not established)	(a goal was not established)
		UFRJ Agro-Ecological Fair	To have a UFRJ Agro-Ecological Fair every Thursday	Goal not achieved
3	Actions that foster people's meeting and integration	Audience Education	To offer at least one show per month	Goal not achieved
		Short Circuit Gallery of Public Art	Carry out two cycles	Goal achieved
		Gastronomic and Cultural Fair of the Park	Carry out three editions	Goal achieved
		Gastronomy in the Park	Carry out Gastronomy events in the Park weekly	Goal achieved
		Trajectory X	To have meetings every two months	Goal not achieved
4	Volunteer Actions	Blood Donation Campaign	Carry out three campaigns	Carry out three campaigns
		Donation Campaign for the Vila	(a goal was not established)	(a goal was not established)
		Maré Olímpica	To visit the Park	To visit the Park
		Na end-of the-year action for the children at INCA	(a goal was not established)	(a goal was not established)
		Dogs Park	(a goal was not established)	(a goal was not established)
5	Stimulate physical activity	<i>Yoga in the Park</i>	Offer physical activities twice a week	Goal achieved
		A day of Movement in the Park	(a goal was not established)	(a goal was not established)
6	Mobility	Integration BRT-Park	(a goal was not established)	(a goal was not established)

Actions and Projects of Life Quality

The implementation of these activities was the result of polls researches, satisfaction surveys and/or conversations with our interested public during the year.

The projects that did not have a defined goal were developed throughout the year and worked as pilot initiatives. The Agro-Ecological Fair, Audience Education and Trajectory X did not have their goals achieved. The explanations are included in the description of each of these projects.



Training and qualification (GRI 404-1)

Until the Ongoing Policy for People's Development is totally implemented, the Park's administration has, since its formation, annually supported the qualification of its employees through scholarships or by allowing them to leave during their working hours. In 2018, four employees searched for qualification (a total of 530 of hours spent in courses or other specialization activities). The average amount of hour per employee was of 132 hours, and they were all female and worked as specialists.



The *Parque Verde* (Green Park) Program

The Environment Week, the Urban Vegetable Garden and the UFRJ Agro-ecological Fair are the projects that comprise the Green Park Program and feedback the Park's landscape design⁶. This program aims at improving the microclimate of the environment, preserving the natural resources, contributing to decrease global warming, offering an environment of

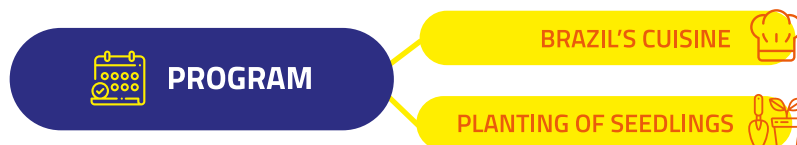
6 To learn more about our landscape design read the section "Ecoefficiency Management" on page 58.

cohabitation and approximation with nature, and providing **a sense of well-being and health.**

The Environment Week, which has been happening annually since 2014, was created to celebrate the World Environment Day.

Photo: Paula Brito





Brazil's Cuisine, a SESI-FIRJAN program, participated in the Environment Week with the lecture "Healthy eating and taking full advantage of the food" ("*Alimentação saudável e aproveitamento integral dos alimentos*") and with the workshop "Conscious and Sustainable Consumption" ("*Consumo consciente e sustentável*"). The planting of seedlings had 21 seedlings of native tree species – five *aroeiras* and 16 *abricós*.

The Park has an Urban Vegetable Garden as a result of the 2017 Environment Week. It is taken care of by members of the Park's community interested in this activity. The Vegetable Garden is located inside the Garden and it meets the requirements and internal demands of production and of landscape design, and has a composting unit of pruning waste which produces part of the fertilized land in our plantings.

The UFRJ Agro-ecological Fair is an extension course project that involves farmers, craftsmen, students, and UFRJ agents⁷ which aims to foster family agriculture. Every Thursday, farmers and cooperatives of the State of Rio de Janeiro come to UFRJ to commercialize their agroecological products grown through family agriculture. The Fair remained in our environment until November 2018, when it was transferred to the UFRJ Center for Technology – CT as the consumption rate of these products dropped because the restaurant⁸ located in the Park closed.

⁷ The UFRJ agents are: Professors, the UFRJ Innovation agency, the Department of Integration University/Community (Divisão de Integração Universidade/Comunidade – DIUC/PR5) and the UFRJ Central Administration

⁸ In August 2018, the Couve-flor restaurant, located in the Science Park, closed due to the end of the contract. Until the end of the year, the Science Park will select another restaurant to be installed in the same place.

The goal is to bring back the Project to our environment as soon as the new restaurant opens.

Program for Audience Education



The Program for audience education was created in 2015 in a partnership with Rio de Janeiro State Department of Culture and aims at stimulating different audiences to experience artistic performances and/or cultural spaces.

In 2018, the goal was to offer at least one show per month for the Park's community. However, only one was offered every two months because there were very few shows that would fit the Park's community profile. Even so, the number of people who joined the program was low and only 16 employees attended two shows: *Paradigma* and *Hamlet*.

In the end of 2018, the program started a new partnership: Firjan. Therefore, the goal for 2019 is to offer at least two shows a month.



TEATRO



MÚSICA



INFANTIL



EXPOSIÇÃO



DANÇA



CINEMA



BATE-PAPO



ARTE CÍRCULO



FEIRA CULTURAL





Short Circuit Gallery of Public Art



The exhibitions of the Short Circuit Gallery of Public Art are permanent, free and open to the public.

The Short Circuit Gallery of Public Art is an initiative of the UFRJ Science Park in a partnership with the School of Fine Arts (EBA/UFRJ) that, since September 2017, has aimed to turn the Park into an area of art experimentation combined with technology and innovation. Currently, the Gallery holds 38 works organized in 350 thousand square meters.

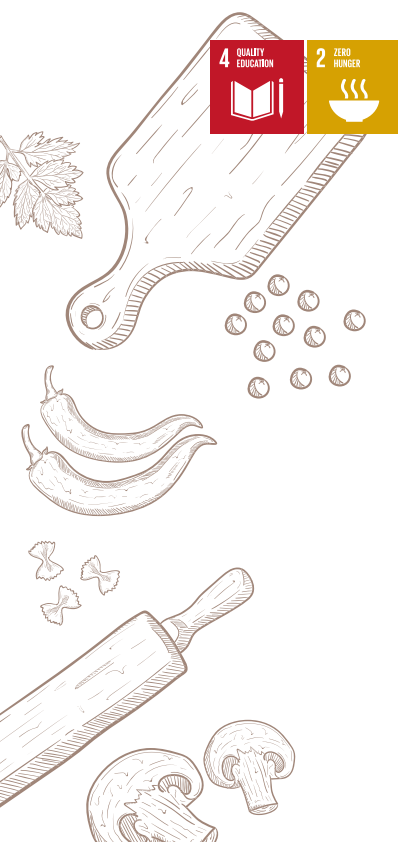
In 2018, two cycles of exhibitions were opened: the first in June and the second in December. In June, the opening had the presentation of four works. Bruno Life, Cristiano Nogueira, Jandir Leite Moreira and Thales Valoura – artists from this cycle – presented their works of art inspired in childhood memories, choices and life dualities.

Joana Perez, Paula Peregrina, Matheus Simões, Fátima Aguiar and the group formed by Julie Pires, Marcelo Ribeiro, Francisco Freitas and Danielle Mendes were the artists of the cycle that opened in December. There were five new works whose inspirations come from a number of topics, varying from diversity to environmental sustainability.

In addition, the Park has five works from the first cycle which opened in 2017, an intervention pavilion developed by the Laboratory of Models and Digital Production (Laboratório de Modelos e Fabricação Digital - LAMO) and by the Laboratory of Temporary Interventions and Tactic Urbanism (Laboratório de Intervenções Temporárias e Urbanismo Tático - LabIT) of the School of Architecture and Urban Planning (FAU/UFRJ) and 24 sculptures made for the exhibition (Memories of the River Dolphin (Memórias do Boto)).



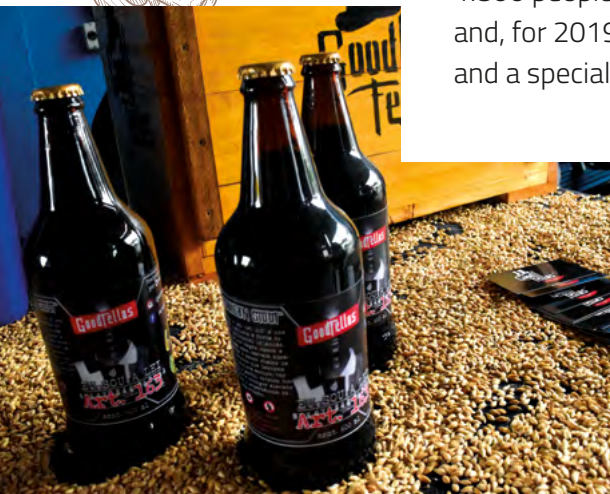
Photos: Jady Louise



Gastronomic and Cultural Fair of the Park

Street food prepared by UFRJ students, gastronomic culture available in topic workshops, cultural activities to be appreciated by our public, exhibitions of UFRJ extension projects and an integration environment of the Park community are some of the proposals of the Gastronomic and Cultural Fair of the Park. The Fair started in 2016 as a result of a partnership between the Gastronomy Department of UFRJ (Josué de Castro Nutrition Institute) and the Junior Company of Gastronomy and Nutrition (Cibus).

With its coordination shared by the partners described above, the Project Gastronomic and Cultural Fair of the Park reached the end of 2018 with its 7th edition and considered as a successful project. There were three editions throughout the year, with 60 enterprises (21, in the fifth edition; 22, in the sixth; and 17, in the seventh) and an average public of 600 people per day, totaling 1.800 people per edition. The goal for 2018 was accomplished and, for 2019, we are planning three more editions of the Fair and a special tenth edition in the end of the year.





Gastronomy in the Park



Gastronomy in the Park is a project that started in 2018, in a partnership with the Gastronomy Department of UFRJ (Josué de Castro Nutrition Institute) and aims at offering street food prepared by the UFRJ students who have participated in the last edition of the Gastronomic and Cultural Fair of the Park and integrating the Park's community. The Project takes place every Monday from 11am to 3pm, with different enterprises and menus.

Trajectory X



The Program Trajectory X started in 2017 aiming at carrying out monthly meetings to discuss different topics related to the female universe. For 2018, the goal was to promote meetings every two months focusing on issues involving work and being a woman. However, after the first meeting of the year, we realized the program should be restructured and the rest of 2018 was devoted to that end.



Blood Donation Campaign

In 2017, the Park started a partnership with HEMORIO aiming at engaging the Park's community to volunteer to donate blood. This action is extremely relevant for the Park for different reasons: the donation of a blood unit can save up to three lives; unfortunately, less than 2% of the Brazilian population donate blood regularly; and donating blood does not only mean saving lives during surgeries, but also saving people affected by traumas, suffering from anemia, undergoing oncological treatment and organ transplants, suffering from hemophilia, coagulation disorders, among other problems.

For this purpose, in 2018, we carried out three blood donation campaigns and a total of 90 units of blood were collected. Among the donors, there are UFRJ professors and students, researchers of the university laboratories, employees of the Park's resident companies and of the Incubator, and collaborators of the Park's and Incubator's Administration. In 2018, the goal is to carry out two editions of the project.



Donation Campaign for the Vila

In October 2018, two houses of the Residential Village were destroyed in a fire. Two families lost all they had except for the clothes they were wearing at the moment of the fire. The residents' association helped the families to seek for financial resources to pay for the rent of a new house, until their houses are renovated. The Park mobilized its community in a volunteer campaign for donation of clothes, diapers, hygiene products, mattresses, food. This campaign was very successful and there was a massive participation of the Park's community.



Maré Olímpica



The project aims to stimulate the students of the public schools of Maré to participate in the Brazilian Public Schools Olympics of Mathematics (OBMEP).

The Project started in 2017, and in 2018 had the partnership of 11 resident companies as well as of the Local Coordination for Education (4ª Coordenadoria Regional de Educação - CRE). As a result, 4.640 students applied to the first stage of the Olympics – 163% more students than the previous year – and 227 passed to the second stage. The prize awarded to the students who passed to the second stage consisted of a visit to the Science Park and of a demonstration of the relevance of mathematics for the everyday life. The visit will happen on April, 2019.

End of the year's action

The Park supported the end of the year's action coordinated by one of our companies of Crowd Rio⁹, Bela Horta. The idea was to invite some children under oncological treatment at INCA and their families to have breakfast and receive some gifts. For this purpose, the action was helped by some volunteer resident companies of the Park, sponsoring the children, providing a magic show and having a Santa Claus deliver some presents. Altogether 21 children were sponsored.



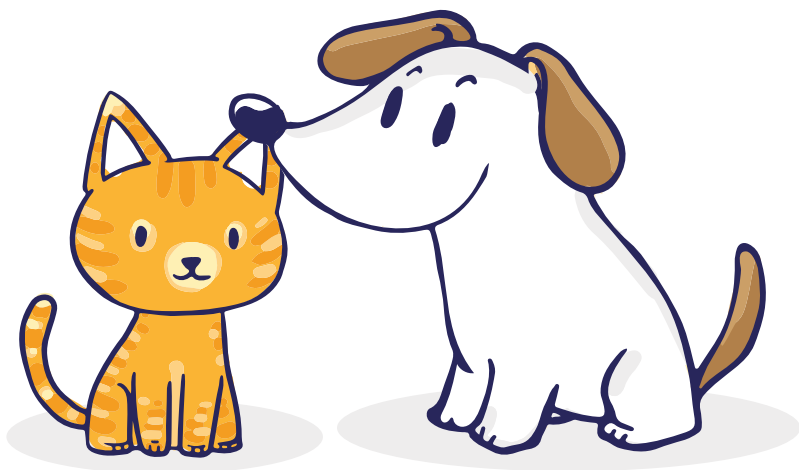
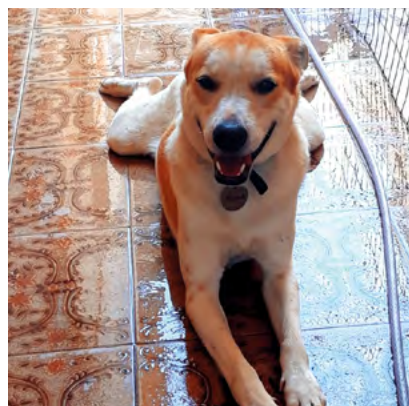
9 Acceleration program in a partnership with Telefônica Open Future.

Dogs of the Park



To learn more about the project or to become a volunteer, contact through the following e-mail address: dogs@parque.ufrj.br

Since November 2018, the Science Park has supported the volunteer project "Dogs of the Park". This project, carried out by employees of resident companies of the Park, using a monthly money's pool, aims to rescue, treat, castrate, vaccinate and shelter the animals abandoned in the Park and in UFRJ until they are adopted. The launching of the adoption campaign will take place in the first month of 2019. We also intend to organize other campaigns and fairs for the adoption of animals.





Yoga at the Park

In 2017, the Yoga practice was implemented in the Park. The activity is carried out by a student from UFRJ and can be attended by any person willing to develop body and mind or prevent and treat occupational diseases, stress and bad behavioral habits. By December 2018, ten people were practicing Yoga.

A Day of Movement at the Park



In 2018, with the purpose of stimulating both entertainment and physical activities at the Park, a partnership with the UFRJ School of Physical Education and Sports (Escola de Educação Física e Desporto - EEFD) was built and promoted the event “A day of movement at the Park”. The initiative organized the following physical activities: guided running, forró and corfebol¹⁰. The event took place on November 14, from 10am to 12pm.

Integration BRT- Park



Material theme:  (GRI 103-1)

The Park Mobility program responds for two material themes: Life Quality and Mobility. This is why the project aims to facilitate the movement of people between the Park, the university campus and its connections with the city of Rio de Janeiro.

¹⁰ Corfebol is a sport modality in which both men and women are part of the team. This fact makes this sport modality one of the few in the world with this characteristic. The game seems to be a mixture of handball and basketball.



For this purpose, there are four free transportation modalities to move the people around the university campus:

- Twelve bus lines to move people around within the campus and intercampus (leaving the Fundão campus and going to other UFRJ units and strategic places, at the end of the night classes), provided by the UFRJ Mayor;
- A van provided by the Green Fund Laboratory for the internal transportation from Monday until Friday, 8am to 5:30 pm, driving from the BRT line to the Park;
- An electric truck with eight places provided by the Science Park, driving from Monday to Friday, from 8 to 10 am, from 11am to 2pm and from 3pm to 6 pm, moving from the Park to the Incubator and back to the Park carrying an average monthly number of 1.300 people;
- Four shared bicycles – which are part of the work of art “no vai e vem do ir e vir” installed in the Park in 2017 - available for the Park’s community to move within our environment.

Financial Management

The financial management of the Science Park consists of a number of actions and administrative procedures that aim at maximizing the economic and financial results of the organization. This management is carried out by a support foundation to the university, the COPPETEC Foundation, which acts as a managing body in compliance with the Law nº 8.958/94 regulating the performance of these institutions.

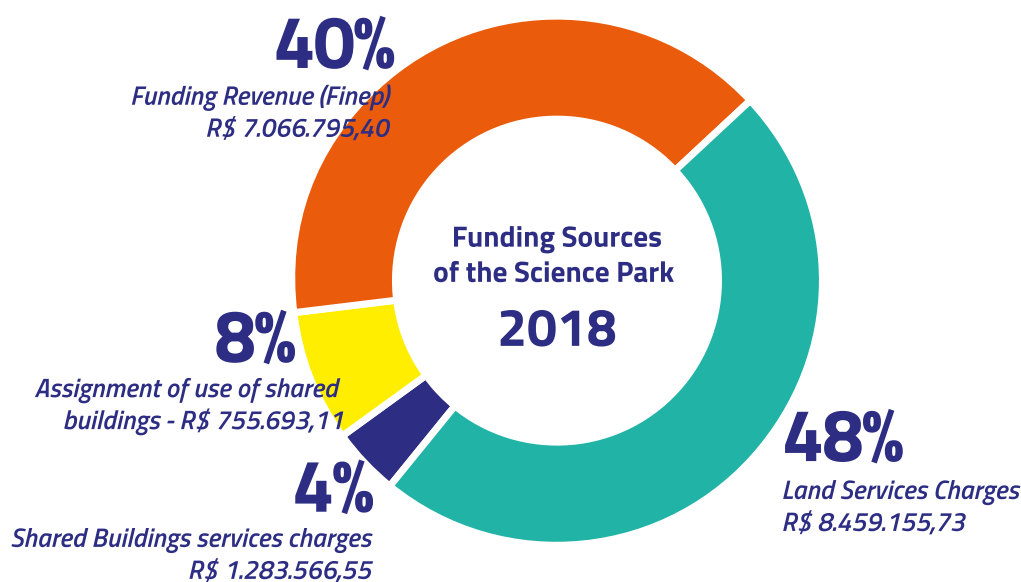
The funding sources of the Park derive from four modalities: assignment of use of shared buildings; land services charges; shared buildings services charges and funding¹¹.

Assignment of use of shared buildings	1/3 reverted to the operation of the Park
	1/3 reverted to the Scholarship Fund
	1/3 reverted to the Fund for Special Projects
Land services charges	Revenue reverted in full to the Park's operation
Shared buildings services charges	Revenue reverted in full to the Park's operation
Funding	Construction of CUBO
	Payment of part of the personnel

Funding Sources of the Park

¹¹ The resources of the funding modality derived from FINEP (Studies and Projects Financial Supporter) and are used according to the project approved.

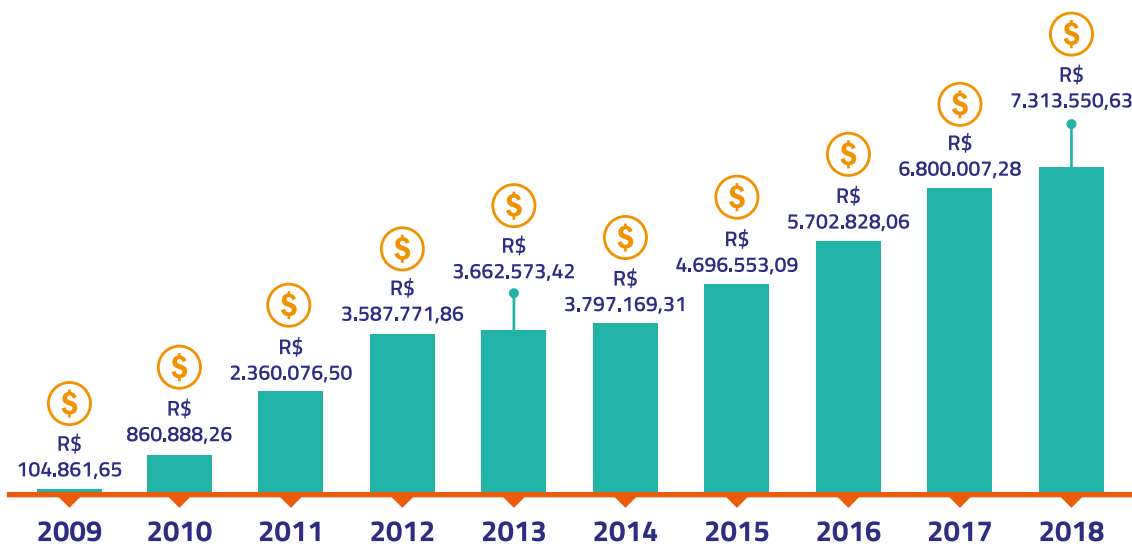
The fundings derived from the four modalities mentioned above were distributed (**GRI 102-7**) according to information presented in the following table:



Funding Sources of the Science Park - 2018

The Park also generates financial resources through land assignment. As foreseen in the process of creation of the Park, these resources are fully passed on to the UFRJ administration, constituting an extra revenue source for the university. From 2009 until 2018 the following resources were passed on to UFRJ¹²:

¹² The updated information of the assignment use value of the large companies paid directly to UFRJ is not available. For updating purposes, we used accumulated IGP-M (General Index of Market Prices) rate at the end of every year, according to contractual provision.

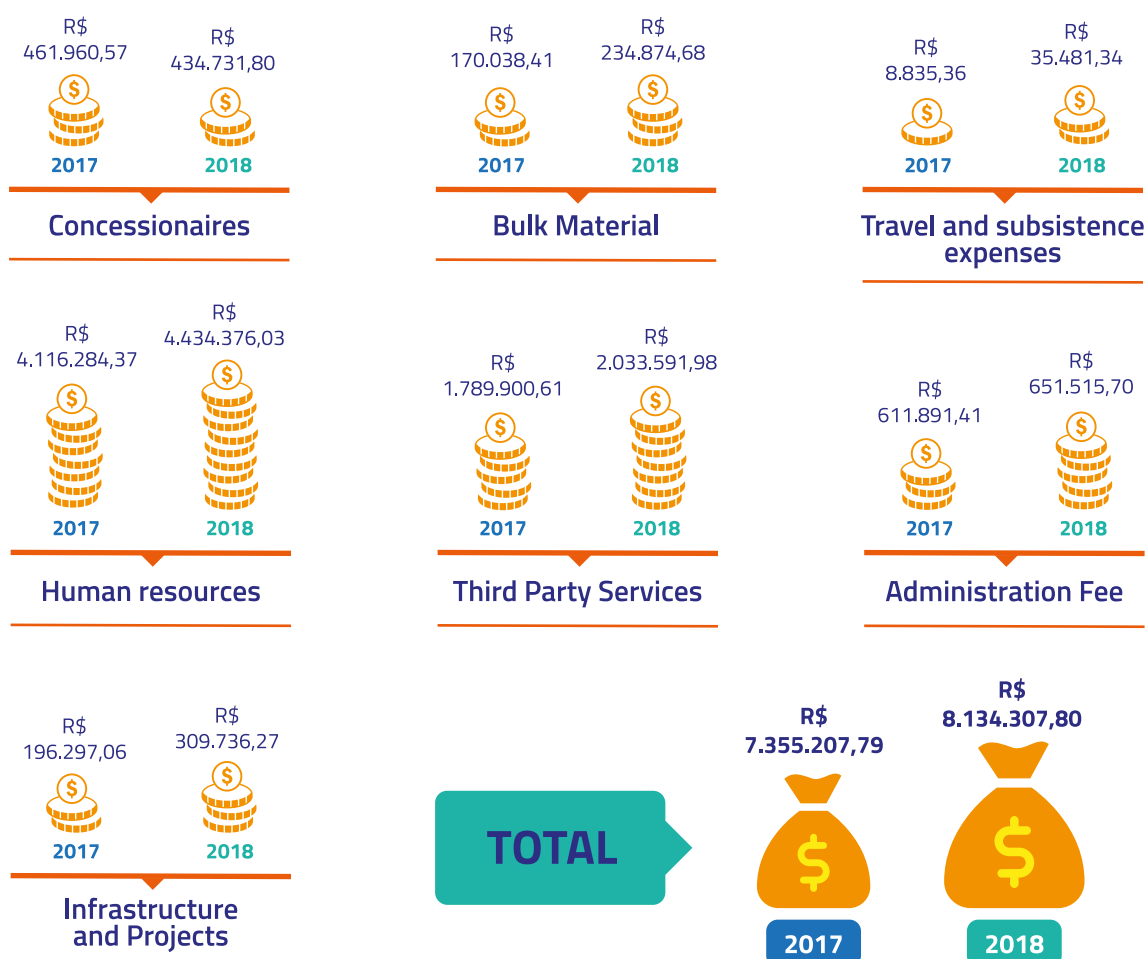


Revenues from land use assignment

As in 2017, for the year of 2018 one of the goals was to reduce the operational costs by revising the contracts of service providers, prioritizing the expenses with the concessionaries. The activity was successful, considering that the services contracts directed to electricity and water consumption had their figures reduced in 6%. **(GRI 201-1)**

The raise in personnel costs was mainly caused by salary increase. The payments related to third party services increased around 13% if compared to 2017, due to adjustments predicted in contractual provisions. Despite that fact, in the end of the second semester of 2016, a new work-related technology was implemented for maintenance services of green areas, which ended in a 55% reduction of the cost (if compared to the previous contract). This was the result of a tender procedure carried out during that period of time, as informed in the annual sustainability reports. **(GRI 201-1)**

The expenses related to the item 'other services' increased if compared to 2017 due to contracts started throughout the year of 2018 and to the need to continue some special project of UFRJ's interest, such as the Gastronomic and Cultural Fair and the Short Circuit Gallery. These projects were funded with resources originating from the assignment of use of shared spaces and these resources are being kept in a contingent manner, until the Park approves the policy for use of these resources in the Board of Directors. **(GRI 201-1)**



Operational Costs of the Park in 2017 and 2018

The Park's financial result in 2018 was positive in R\$ 2.364.107,59, reflecting the increase in the occupation rate of the Park, the improvement in the recovery procedures and the effort made to reduce the operational costs. This balance of the 2018 exercise will be utilized in infrastructure and projects in 2019.

On December 31, 2018, the Park's project had R\$ 309.736,27 to invest in infrastructure, projects and contingency expenses. For 2019, we still want to reduce costs, but now the expenses with services and consumption are being prioritized.



Ecoefficiency Management (GRI 102-11)

Reconstruction of biodiversity; reduction of energy and water consumption; and correct disposal and reuse of solid wastes are the goals of the **Parque Ecoeficiente** program (**Ecoefficient Park**). This program aims to reduce the environmental impacts of our operations. Following, we present the results of this program.



Biodiversity of the Park (GRI 304-3)

The biodiversity of the Park contains species of restinga vegetation and Atlantic Forest. Its management is conducted through the implementation of the Park's Landscape Design. Our environment covers 350 000 square meters, and around 100 000 square meters are green areas. The Park has mangrove areas within its environment covering 34 000 square meters. These are areas of environmental preservation protected by law.



The landscape design of the Park aims to preserve the already existing mangroves areas and the replanting of vegetation degraded along the years.

The landscape design is annually revisited and around 80% of what was designed has already been implemented. Consequently, birds and mammals of the Brazilian fauna have returned. In 2018, 21 tree seedlings were planted during the Environment Week.

Energy



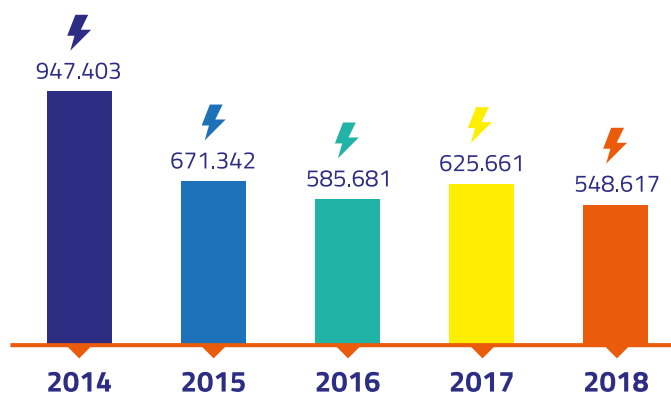
The energy consumed by the UFRJ Science Park is from an electrical source and is provided by the Light concessionaire. The Park manages the entrance building, administration building, CETIC and MP and street lighting. The methodology used to measure the consumption of these areas is done by a monthly controlling tool with performance curves.

In 2018, our energy consumption was the lowest when compared to the last five years. The consumption was of 548.617 Kw/h, recording a 14%¹³ reduction in the consumption if compared to 2017.

¹³ The reduction of the energy consumption was not more significant due to a failure in the water pump in October that kept the pump switched on for 72 hours.

In 2018, the following actions to reduce energy consumption were implemented: changing compact fluorescent fixtures for LED lighting fixtures in the CETIC building in the last three months of the year and changing of an old air-conditioning for a more energy-efficient one in the administration building. Besides, the exit of a resident company from the MP building and the moving of the warehouse and the maintenance workshop of the Science Park from the MP building to the CEOP (Operations Center) helped to reduce the energy consumption.

In 2019 we intend to carry out technical and financial feasibility studies to implement solar energy panels at the administration buildings, CETIC and MP.



Energy consumption in Kw/h of the areas managed by the Park in 2018

The buildings of the large resident companies are self-managed. In 2018, the total energy consumption of the large residents¹⁴

¹⁴ The large companies that provided data about energy consumption were: AMBEV, DELL EMC, Halliburton, Siemens, TecnipFMC e Vallourec.

was of 9.082.454. If compared to 2017, the energy consumption presents a 4%¹⁵ reduction.

Company	2018	2017	Consumption reduction compared to 2017	Motive
AMBEV	2.345.102	Not informed ¹⁶	---	There is no basis for comparison because the company was finishing the installation of its team in 2017. For 2019, the company started a monitoring work with the incubated company Green Ant to reduce electrical energy consumption for 2019.
Dell EMC	840.000	732.592	(there was no reduction)	---
Halliburton	2.502.329	2.825.731	11%	Indirectly it was the installation of a capacitor bank (the main objective of this installation was to reduce additional costs, for example, fines of Light related to reactive energy).
Siemens	1.474.598	1.410.780	(there was no reduction)	There was no consumption reduction if compared to 2017, due to the increase in the Siemens' team.
TechnipFMC	1.761.225	1.871.010	6%	Continuation of Installation of LED lighting fixtures.
Vallourec	159.200	180.200	12%	Consumption Internal Awareness.
Subtotal (without AMBEV)	6.737.352	7.020.313	4%	
Total	9.082.454			

Water



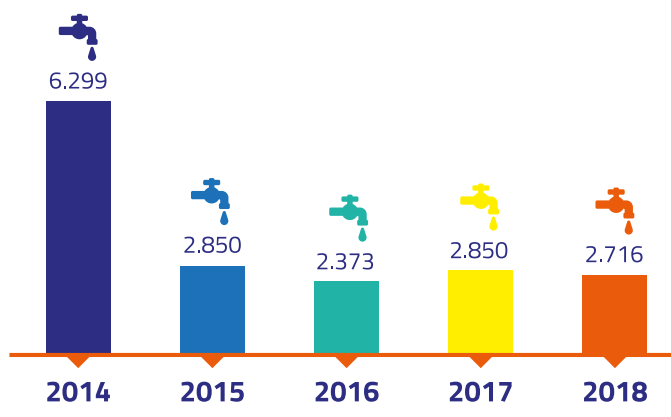
Water in the Park is provided by CEDAE/RJ. The methodology used by the Park's Administration to measure the consumption of the Park's buildings – entrance building, administration building, CETIC and MP – and of common landscape areas is the daily consumption follow-up through its meter.

¹⁵ AMBEV was left out of the calculation of consumption reduction because, in 2017, the company was being installed and its consumption was not included.

¹⁶ In 2017, the company was being installed, and therefore, there is no data for comparison.

In 2018, the water consumed in the areas under the Park's administration was of 2.716 m³, revealing a 5% consumption reduction. This reduction can be justified by the constant monitoring of the hydrometers installed in the Park.

In the end of 2018, the Park started to implement a Rainwater catchment in the CETIC and MP buildings. In 2019, we will have a measurement system that represents the effect of this implementation and we are also planning to start the utilization of the rainwater catchment for irrigation to reduce drinking water consumption in the Park's buildings¹⁷.



Water consumption in the Park's Administration buildings in m³ in 2018

The water consumption of the buildings of the large companies of the Park¹⁸ in 2018 was of 32.281 m³, presenting an average reduction¹⁹ of 14% a year.

¹⁷ Until 2018, drinking water was used for irrigation of the external areas of the Park.

¹⁸ The large companies that provided data of energy consumption were: AMBEV, DELL EMC, Halliburton, Siemens, TecnipFMC and Vallourec.

¹⁹ This rate was calculated without AMBEV's consumption figures since this company was not completely installed in 2017 and its consumption was not informed.

Company	2018	2017	Consumption Reduction compared to 2017	Motive
AMBEV	18.191	Not informed ²⁰	---	There is no basis for comparison, but, in 2018, the company had a water consumption reduction of 22%, due to a Belt work at the unit.
Dell EMC	636	Not informed ²¹	---	
Halliburton	2.174	3.171	31,43%	Raising water consumption awareness among the employees.
Siemens	3.517	3.488	(there was no reduction)	Proportionally, there was a water consumption reduction with the installation of control of flow, the use of sprinklers and the repair of all leaks found. However, the number of people increased on the site so there was no reduction in terms of absolute number.
TechnipFMC	6.883	7.214	4,59%	Actions were not implemented.
Vallourec	1.080	1.176	8,93%	Raising internal consumption awareness.
Subtotal (without AMBEV)	14.290	16.682	14,34%	
Total	32.481			

²⁰ In 2017, the company was being installed, therefore there was no data for comparison.

²¹ The company did not have the exact data.



Discharge of effluents and wastes

Material theme:  (GRI 103-1, 103-2, 103-3, 306-2)

The Park has a system of waste discharge segmented in three levels: Common waste collection; Composting of wastes derived from landscape maintenance; and Collection and destination of recyclable wastes – Park Recycles.

The waste collection system comprises all the solid wastes classified as Class II wastes (not dangerous) – A (not inert), according to NBR 10.004/2004. The system is supported by an outsourced company, duly licensed by INEA, which carry out daily common waste collection that is transported to a waste transshipment station (*estação de transbordo de resíduos - ETR*), also licensed. For common waste, the assessment is done per volume, because the number of 1,2m³ containers is counted, as shown in the following table.

Meses	2018		2017	
	Containers/Month	Volume m ³ /Month	Containers/Month	Volume m ³ /Month
January	121	145,20	88	105,60
February	91	109,20	93	11,60
March	122	146,40	105	126,00
April	111	133,20	84	100,80
May	120	144,00	112	134,40
June	119	142,80	108	129,60
July	114	136,80	94	112,80
August	123	147,60	126	151,20
September	108	129,60	135	162,00
October	135	162,00	133	159,60
November	107	128,40	121	145,20
December	110	132,00	114	136,80
Total	1381,00	1657,20	1313,00	1475,60

In 2018, there was an increase of the waste collected. This is due to the fact that companies/laboratories/ UFRJ departments that were installed in the Park reached their full capacity of waste destination in 2018. In addition, the Park started the operation of its Center of Operations in August and one of the resident companies had a 35% increase in waste collection if compared to the previous year.

The sustainable destination for the wastes derived from landscape maintenance is carried out through a composting process. The daily maintenance process of the Park's green areas produces large quantities of organic matter derived from pruning, rubbing and trees and bush leaf fall. Six years ago, composting furrows were implemented, avoiding monthly hiring of waste disposal companies, which favored the use of this material as raw material of excellent quality to restore degraded soils during the planting period and to maintain tree species and mulching. It was not possible yet to determine the quantity of land produced by this system, but a measurement system for this end is under study.

The collection and destination of recyclable wastes of the Park's administration buildings are conducted by the Park Recycles project which was implemented in 2017 in a partnership with the UFRJ Laboratory of Applied Ecology and progressively introduced the selective collection in the Park, internalizing environmentally correct practices.

In 2018, 323,30 kg of different types of recyclable wastes were sent to garbage collectors cooperatives, observing the decree 5940/06, the guidelines established by the UFRJ Recycle Commission and the Park's Sustainability Policy, as shown in the following table.

Months	Paper	Cardboard	Plastic	Glass	Metal	Cans	Tetrapak	Total
January	14,7	10,90	9,6	24,20	0	0,6	0,4	60,4
February	13,6	23,40	12,7	0,00	0	1,1	0,7	51,5
March	13,1	11,70	8,1	0,20	0	1	0,7	34,8
April	11,1	6,40	6,9	0,20	0	0,4	0,4	25,4
May	0,5	3,20	4,2	1,30	0	1,2	0,1	10,5
June	0,8	13,40	1,7	0,00	0	0,1	0	16
July	0	0,00	0	0,00	0	0	0	0
August	0	0,00	0	0,00	0	0	0	0
September	0	0,00	0	0,00	0	0	0	0
October	1,4	30,60	1,2	0,40	0	0	0	33,6
November	33,4	14,80	5,1	0,00	0	0,4	0,8	54,5
December	3,2	11,40	4,3	16,50	0	0,5	0,7	36,6
Total	91,80	125,80	53,80	42,80	0,00	5,30	3,80	323,30

Recyclable Wastes in kg destined to cooperatives in 2018²²

The potential energy and **Co₂** consumption avoided are shown in the following table. This means that, as the materials sent for recycling by the Park generate an energy and CO₂ potential. These recycled materials are inserted in the productive chain as raw materials and will not need to be explored again in nature. Consequently, the industries will save energy and will produce less CO₂ since they will not need to produce these materials again.

Energy Consumption avoided (GJ/T)		CO ₂ emission avoided (TCO ₂ /T)	
2017	9,1034	2017	0,4079
2018	11,9894	2018	0,7132

Data provided by the UFRJ Laboratory of Applied Ecology

22. Data provided by the UFRJ Laboratory of Applied Ecology.

The destination of the recyclable materials is monitored on a weekly basis. For the wastes control a collection form of recyclable materials (GRMR) is used, and this form is attested by members of the Campus administration department, of the recipient Cooperative and of the Park's technical team. Currently, the CCS Recycles, a project of the Center for Health Sciences of UFRJ, receives the recyclable wastes of the Park and it carries out the whole sorting and processing procedures in its sorting center.

The perspectives for 2018 were not accomplished. Therefore, for 2019, our goal is the expansion of the selective collection system to the whole area of the Science Park, thus facilitating the construction of a Sorting and Processing Center, which will enable the interface of the companies with research groups of wastes, reinforcing the circular economy and the Park's mission.

Management of transparency and integrity in the Park

Material theme:  (GRI 103-1, 102-16)

The Science Park does not have its own policy of ethics and integrity. Yet, it adopts the Policy of Integrity and Transparency of the Institute for Graduate Studies and Research in Engineering – COPPETEC²³, considering that the financial and operational of the Park has the support of this Foundation.

²³ To see details of the Policy of Integrity and Transparency of the COPPETEC Foundation, visit the electronic website of the Foundation on the link: http://www.coppetec.coppe.ufrj.br/site/documentos/politica_integridade_2017.pdf

As a complement, the Park develops the Transparent Park program (*Parque Transparente*), a series of actions that make publicly known the data of relevance and public interest of the Park and its management. On the Park's electronic website there is a page called Transparent Park (*Parque Transparente*) which presents the management activities of the UFRJ Science Park and how the institutional governance works. This website is continually updated as the actions occur.

Besides acting as channels to disseminate information, the electronic page as well as the social networks used by the Park are featured as a channel of online communication and accountability.

In 2018, the access to governance information was simplified, giving adequate publicity to the actions carried out. These measures are part of a planning focused on mechanisms of transparency, governance and management, in compliance with the law and the principles that rule the activities within innovation environments such as the UFRJ Science Park, giving more publicity to the actions carried out.

The highlight of this year was the approval of the statutes of the UFRJ Science Park by the UFRJ University Council, during a meeting on November 8, 2018, through RESOLUTION N. 10/2018. With this new Normative Resolution, published in the UFRJ Report n. 46, of November 15, 2018, the previous PTEC-UFRJ rules of procedure was repealed. They had been approved originally during a regular meeting of the University Council that took place on May 8, 1997 (UFRJ Report n. 24, of June 12, 1997).

With respect to ethics and integrity, the Park has values, principles, patterns and norms of behavior developed in 2016,



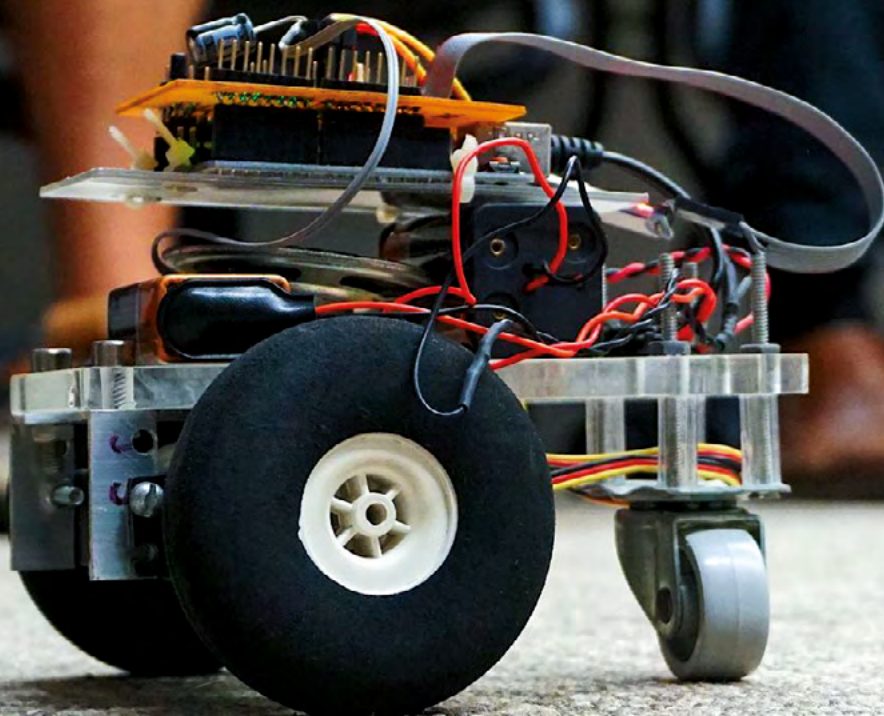
in cooperation with a team of consultants, experts and partners, and available in its Strategic Planning 2016-2045²⁴.

As a complement, in addition to the Strategic Planning and the General Statute, the Park has an Operational Statute, Rules for Land Assignment, a Policy for Support and Sponsorship and a Sustainability Policy, instruments that help the Park to conduct an effective and transparent management.

For 2019, the goal is to initiate the writing of the Policy of Integrity and Transparency of the Science Park, and this is part of the reinforcing actions of its system of governance and management.

24 To see the complete Strategic Planning 2016-2045 of the UFRJ Science Park, click on the link: http://www.parque.ufrj.br/wp-content/uploads/2017/04/plano_estrategico.pdf

The Park and local development



Science Parks are environments that aim to revitalize both regional and national economies, adding knowledge and technological innovation. The UFRJ Science Park make daily efforts to fulfill its role and foster the creation and development of innovation companies, to promote interaction of these companies with UFRJ and other centers of research and technological development, as well as to help disseminating a new entrepreneurial and innovative culture in the area. Following, we present the impacts of our activities for UFRJ, for the resident companies and for the area where the Park is located.

Developing UFRJ

The Park contributes to the development of the UFRJ students by creating qualified job opportunities; by providing students with the opportunity of getting in contact with real challenges faced by the private sector and bringing up the innovation theme to the daily activities of the university.

UFRJ Innovation Hub



The HUB is a space at UFRJ for those interested in experimenting, prototyping and interacting with different areas of expertise. The project, a result of a partnership among the UFRJ students, the UFRJ Science Park the UFRJ Innovation Agency, is located in the UFRJ Science Park, and is a place of interactions between the industries and the university. Its efforts are intended to create an environment where the actors of both the local and regional ecosystems of innovation and entrepreneurship are able to contribute to generate knowledge in a productive manner, particularly to face the urgent challenges of our society.



Photo: Arthur Rivel

The major goals of the HUB are: to establish connections – networks within the networks – with laboratories, universities, companies, museums, etc.; to encourage and support innovation in STEAM²⁵; to be a catalyst for transforming changes and a support system for local, regional and state efforts; and to promote an integrated ecosystem that is dynamic, synergist and that is in a continuous process of learning.

The target audience stays beyond the borders of UFRJ, offering access to its physical space to students, artists, small companies, researchers, entrepreneurs and any person willing to create or do something tailored.

In 2018, the main activities developed were:

²⁵ Science Technology Engineering Art Math (STEAM) is translated as Ciência, Tecnologia, Engenharia, Arte e Matemática.

Projects	Development of low-cost prototype for L'Oreal
	T 24 Touchwall (booth of the UFRJ Science Park) - Touchwall at the booth of UFRJ Science Park designed by Mirabilis Studio for the Rio Oil & Gas Fair 2018 that happened at Rio Centro.
Lectures	Lecture Jamboré 2018
	Sustainable Solutions for social problems – Lecture delivered by Pim van Baarsen in room G209 - Center for Technology UFRJ. The lecture was the result of a partnership between USIS/PEP, the UFRJ Science Park, the Netherlands Consulate and Espaço HUB
	Data Dramatization - Lecture delivered by Ruben van de Ven at the CPM/ECO UFRJ Auditorium. The lecture was a partnership between the UFRJ MediaLab, PPTLCOM, LAVITS, ECO-Graduate Studies Department, the UFRJ Science Park, the Netherlands Consulate and the HUB
	Democratization of Science: The future of the microscopes – Lecture delivered by André Chagas/Prometheus Science at the HUB (room 108 - CETIC/ UFRJ science Park). The lecture was the result of a joint action of the HUB, the <i>Conector Ciência</i> and the Researchers Network.
	Salt City, technology, innovation and sustainability – Lecture delivered by Eric Geboers at the auditorium of the Institute of the Brazilian Architects. The lecture was a partnership between IAB, LAMO, the UFRJ Science Park, the Netherlands Consulate and the HUB
	Science and education for social transformation - Lecture delivered by Edgar Morya about Neuroengineering in Macaíba at the Auditorium of the UFRJ Science Park
	Democratization of Science: Microscope in the schools - Lecture delivered by Filipe Oliveira/Conector Ciência at the HUB (room 108 - CETIC/ UFRJ Science Park). The lecture was the result of a joint action of the HUB, the <i>Conector Ciência</i> and the Researchers Network.
	Mechanisms of support to the core innovation movements – Lecture delivered by the HUB during Academic Week of Public Administration at UNIRIO on the topic: "The Future of Administration".
	Mechanisms of support to the core innovation movements – Lecture delivered by the HUB during II Symposium of Nanoscience and Nanotechnology at the UFRJ Campus in Xerém.
	Technological Innovation at the Companies – Practical Considerations on Tax and Accounting Aspects - Lecture delivered by Antonio Romano Soares and David Aires, at the auditorium of the UFRJ Science Park.
Workshops	Inovação Tecnológica Nas Empresas – Considerações Práticas Sobre Aspectos Tributários e Contábeis - Palestra oferecida por Antonio Romano Soares e David Aires, no Auditório do Parque Tecnológico da UFRJ.
	Scraping of Public Database with Python - <i>Não é bruxaria é pandas!</i> - Workshop with Fernando Masanori Ashikaga. Lecture by Judite Cypreste, at the Startup RIO.
	Fundamentals of 3D Graphic Computation and Digital Animation – Workshop conducted by Maurício Vidal (Consequence Studio - Estúdio Consequência) at Espaço HUB
	Silkscreen and Woodcutting – Workshops conducted by Thais Freitas and Gabriel Menezes at Espaço HUB

Courses	3D Printing - Course offered by Maker Factore at <i>Espaço HUB</i>
	Python for Biology - Course offered by Osiris at <i>Espaço HUB</i>
	Arduino - Course offered by Osiris at <i>Espaço HUB</i>
	Arduino - Course offered by Ignácio Ricart at <i>Espaço HUB</i>
	Industrial Biotechnology - Course offered by Osiris at <i>Espaço HUB</i>
	Principles of Biopharmaceutical Training- Course offered by Osiris at <i>Espaço HUB</i>
	Biological Engineering - Course offered by Osiris at <i>Espaço HUB</i>
	Minicourse on Crowdfunding - Minicourse on Crowdfunding offered by Benfeitoria at <i>Espaço HUB</i>
Hubeer	Event focusing on the activation of the network of entrepreneurial movements.
	HUBeer! #11 - SMART FARM: Intelligent Farms, using the arduino platform with Claudio Miceli. Beers under the control of Goodfellas brewery.
	HUBeer! #12 - Deep Learning applied to biology with Fernando Limoeiro. Beers under the control of Elf's Golden Beer brewery.
	HUBeer! #13 - 3D Printing applied to architecture with Júlia Nodari. Beers under the control of Colina 315 brewery.
	HUBeer! #14 - Design and creative programming for physical and digital interfaces with Marlus Araujo. Beers under the control of Goodfellas brewery.
	HUBeer! #15 - Wearables: Sensorial Technology with Iane Cabral. Beers under the control of Aberema brewery.
	HUBeer! #16 - Tatiana Rappoport (There are girls in the area and there are children in the area) talked about the low level of representativeness of women in the area of the exact sciences from the point of view of a female physicist, including a little of her personal experience. Beers under the control of Johnson's Beer brewery.
	HUBeer! #16+1 - Raphael Amorim talked about the development of open source projects. Beers under the control of Aberema brewery.
Chat	HUBeer! #18 - "From students to professionals: Is it possible to continue innovating?" with Caio Chacal. Beers under the control of Aberema brewery.
	Chat with the <i>Benfeitoria</i> on Crowdfunding, Recurrent Funding and Matchfunding in the Auditorium of the UFRJ Science Park.

Events	Arduino Day RJ 2018 - Rio de Janeiro Arduino Day at Estácio College at Nova América Shopping Mall.
	EJCM no HUB - Activity of the Company Jr EJCM at the HUB
	Biomaker Battle RJ – 1 st edition of the Biomaker Battle carried out by a partnership with the D'Or Research Institute and the HUB at the D'Or Research and Teaching Institute
	JSday Rio de Janeiro - JSday Rio de Janeiro 2018 at the Oito - Oi Futuro
	@GN ² Startups Germinator – Rounds offered by GN ² at Espaço HUB
	CEU – 1st Cycle University Entrepreneur - Cyclo offered by CEU at the Knowledge Spaceship - <i>Nave do Conhecimento</i> in Engenho de Dentro
	Viradão EJCM – Activity of the Company Jr EJCM at Espaço HUB
	Playtest game trials – Open test of “DeMagnet VR” by Bitcake Studio in the Auditorium of the UFRJ Science Park
	Playtest game trials – Open test of the games “Hero Legend” and the two awarded games “Astro Pig” and “Paper Pig” carried out by Gamer Trials at Espaço HUB.
	Drone Day – Activity carried out by NADE, NTPRO and Abravant at the MP building, during the Gastronomic Fair of the UFRJ Science Park
Aulas	MP building, during the Gastronomic Fair of the UFRJ Science Park
	Minerva Jam - Prototyping – Activity carried out by Minerva Digitais at Espaço HUB
Participations	Entrepreneurship and Innovation with impact surveys – Rounds of classes of BSL Experience carried out through a partnership between BioStartup Lab and the HUB at Espaço HUB
	Expo McLaren - Visit to the Expo McLaren at CENPES 2.
	HackCamp – Participation in HackCamp carried out by Rio Hacker Maker Space in Paty do Alferes.
	Global Student Entrepreneur Awards (GSEA) – Participation of Caroline Gonzaga in the Global Student Entrepreneur Awards (GSEA), a program organized by Entrepreneur's Organization (EO)
	Week of Global Entrepreneurship - Activities offered by the HUB at Espaço HUB: “What defines form? A conversation about visual representation” with Zeilane Fernandes, “Introduction to Game Design” with To-maz Cuber Guimarães, “Basic Tools for assessment and prospection” with Carol Gonzaga, “User Experience and Prototyping” with Larissa Galeno, “Arduino for entrepreneurs” with Gabriel Bastos and Bruno Horácio, “Projects on Augmented Reality for beginners” with Ana Moreno and “3D Magick” with Ricardo Cunha Michel
Hackathon	Hackerscamp: Solutions for intelligent houses - Hackerscamp in the PICNIC Brasil 2018 program, at Jockey Clube Brasileiro.
	Hackathon EJCM - Hackathon carried out by the company Jr EJCM at the HUB



Internships

The total number of internships in 2018 at the UFRJ Science Park was 114. This number increased 68%, if compared to 2017. The number of interns/trainees coming from UFRJ, was 72, representing 63% of the total number of posts. If compared to the previous year, the increase in the number of contracts of interns/trainees coming from UFRJ was 50%.

	UFRJ	Other Universities	Total
Resident Trainees	70	41	111
Management of the Park	2	1	3
Incubator	0	0	0
Total	72	42	114



Social Investment

The goal of the Program “Parque Investe” (lit. The Park Invests) is to stimulate the institutional development of UFRJ, by supporting and encouraging programs, projects and actions that value experimentation and multiple ways of knowledge and expression. Support and encouragement consist of: direct funding, institutional support or aid in getting funds from resident companies, according to the Support and Sponsorship Rules of the Park.

The projects that received direct support in 2018 were: the Affirmative Actions Prize and the Institutional Program of Scientific Initiation Scholarship Program for High Schools) (PIBIC-EM).

The goal of the Affirmative Actions Prize is to annually select five Works developed in the UFRJ Graduate Programs that focuses on Affirmative actions in order to turn visible the different approaches related to them, such as their relevance for an inclusive perspective of society, their interface with the human rights topic and the role of the university education in this debate. In 2018, three works were selected:

- **1st place** – “Brave New World: science and the deaf”, by Júlia Barral Dodd Rumjanek, from the Graduate Studies Program in Biological Chemistry – IBqM, CCS.
- **2nd place** – “Social Participation, population and development in Brazil (1994-2014): the emergency of internationalization of the civil society and new interpretations about the monitoring of public policies for the analysis of foreign policy”, by Richarllys Martins, from the Graduate Studies Program in Public Policies and Human Rights– NEPP DH, CFCH.
- **3rd place** – “Teaching of Chemistry in question: applying the Law 10.639/03 to deconstruct the myth of neutrality of science”, by Stephany Petronilho Heidelmann, from the Graduate Studies Program in Teaching of Chemistry – Chemistry Institute, CCMN

And there were two honorable mentions:

- “ENEM/SISU and the affirmative actions in UFRJ prestigious courses”, by Melina Klitze Kerber Martins, from the Graduate Studies Program in Education (PPGE) -Teachers’ College, CFCH.
- “I want to be a Dental Surgeon – A permanence policy for the students of the UFRJ School of Odontology (FO-UFRJ)”, by Fernanda Ignácio Fernandes, from the Master’s Degree Program in Dental Practice – School of Odontology, CCS.

The institutional program of scholarships for scientific initiation for high school students (PIBIC-EM) – sponsored by the Park since 2014 – aims at supporting the activities developed with high school students of public, vocational and military schools or private schools of application in the UFRJ labs, so as to disseminate scientific and technical knowledge.

The main results of the program are a greater integration between high school students and the scientific method, motivation and meeting of expectations in research, direction about academic career choices and the development of research in the under-graduate studies. It should be pointed out that the students made presentations at scientific events and, particularly, at the UFRJ *Semana de Integração Acadêmica*.

With resources from the Park, the program could double the amounts covered by the scholarships, from R\$ 100 to R\$ 200, as well as the number of scholarships. In 2018, a total of 41 scholarships were offered and 20 of them began this year only.

In 2018, the students made presentations at national scientific events and at UFRJ events: *Jornada de Iniciação Científica, Tecnológica, Artística e Cultural* (JICTAC) and *Semana de Integração Acadêmica*.

Photo: Arthur Rivelto





In 2018, the projects supported with resources derived from resident companies²⁶ were the following: Sponsorship to purchase uniforms for the students of the School of Gastronomy - INJC / UFRJ, and E-Fest South America 2018.

The initiative of the Course on Gastronomy of the INJC/UFRJ to seek out sponsorship to purchase uniforms for the students aimed at contributing to increase accessibility of the students, as well as to reduce the dropout rate. On the other hand, the initiative E-Fest South America 2018 aimed at presenting engineering innovations to undergraduate students from all Latin America.

Integration companies-university



Material theme: (GRI 103-1)

The integration of companies-university is the very reason of existence of the Park and aims to accomplish its major objective: "to foster the continuous increase of the innovation capacity of the ecosystem" of the Park's Strategic Planning 2016-2045.

²⁶ To learn more about the UFRJ projects presented to the Park for support in the funding prospection from the resident companies, see the section "Presentation of UFRJ initiatives to the companies" on page 80.

We believe that the innovation capacity of an ecosystem **depends on the connections and interactions that may be created between the actors that form this network**. For this reason, the Park acts as a link involving **resident companies, research centers, university, students, investors, among others**, to maximize the capacity for innovations with high added value and that can impact the socioeconomic development of the society.

Creation of direct and ongoing connections for the promotion of the integration of companies-university and encouraging the cooperation between the companies. The **UFRJ** initiatives correspond to the **actions carried out** by the Park to integrate the resident companies and the university in 2018.

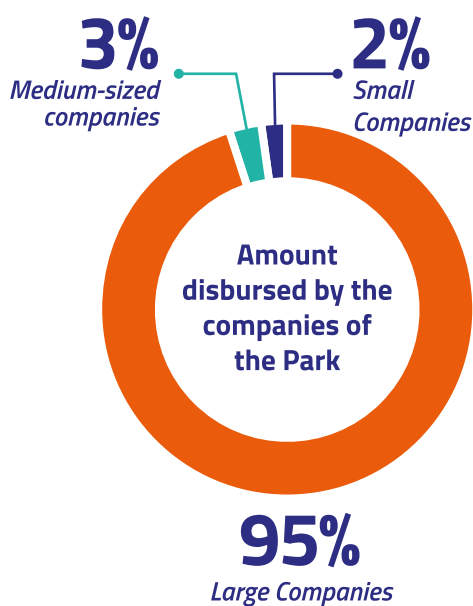
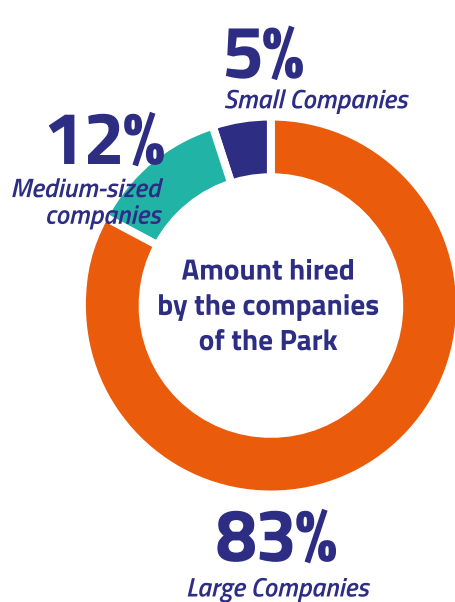
1. Creation of direct and ongoing connections for the promotion of the integration of companies-university:

After the meetings for individual monitoring of the resident organizations called Cells of Interaction, the companies report on the challenges they find when doing Research & Development and Innovation (R&D, I) and the team of the Park then suggests potential partners within the university that can help the companies. The links created here can involve UFRJ research groups, entrepreneurial initiatives taken by UFRJ students (Innovation Hub- UFRJ) and other resident companies of the Park and of the Incubator. Negotiations occur within companies-UFRJ.

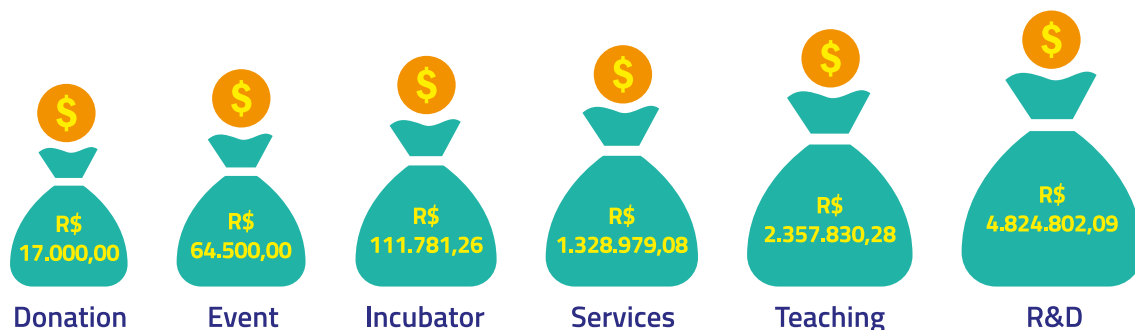
As a result of the connections between the companies and the university in 2018, 98 projects in cooperation with the university were hired amounting to R\$ 8.704.892,71, of which R\$ 4.824.802,09 involved research and development related to the following areas:

Automation	Logistics
Big Data	Machine learning
Biotechnology	Fluid mechanics
Bot	Computational mechanics
Cloud Computing	Environmental modelling
Construction industry	Seismic modelling
Electromagnetic compatibility	Nanotechnology
Energy	Environmental power of biodiversity
Oceanic structures	Beverage production process
Manufacturing of pipes	Offshore submarine processes
Drugs	Reuse of by-products
Innovation management	Robotics
Artificial Intelligence	Vaccines
IoT	Wi-fi

Despite the fact that the companies hired R\$ 8,704,892, 71 in projects, they spent R\$ 7,199,292,63 and invested almost 52% of that amount in R&D.



One can see that more than 80% of the amounts hired and disbursed in the cooperation with UFRJ come from large companies. This is possible because cooperation agreements vary according to the size of the companies.



Amounts hired in 2018 by types of cooperation

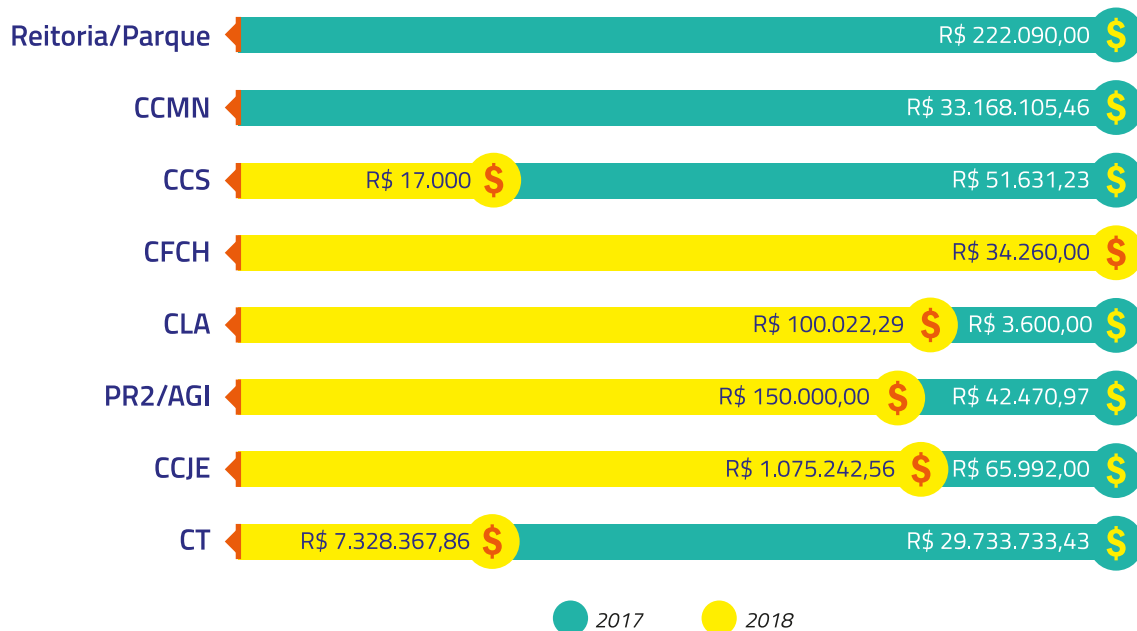


Since 2010, the resident companies of the UFRJ Science Park have signed 486 cooperation projects with the University, which corresponds to the accumulated amount of R\$ 229.907.215,71 over the last nine years. The cumulative amount disbursed by 2018 was R\$ 155.023,854,62.

In 2018, the amounts that were invested in R&D represent 55% of the cooperation carried out throughout the year. One can see that 27% of the money was invested in teaching, and the rest

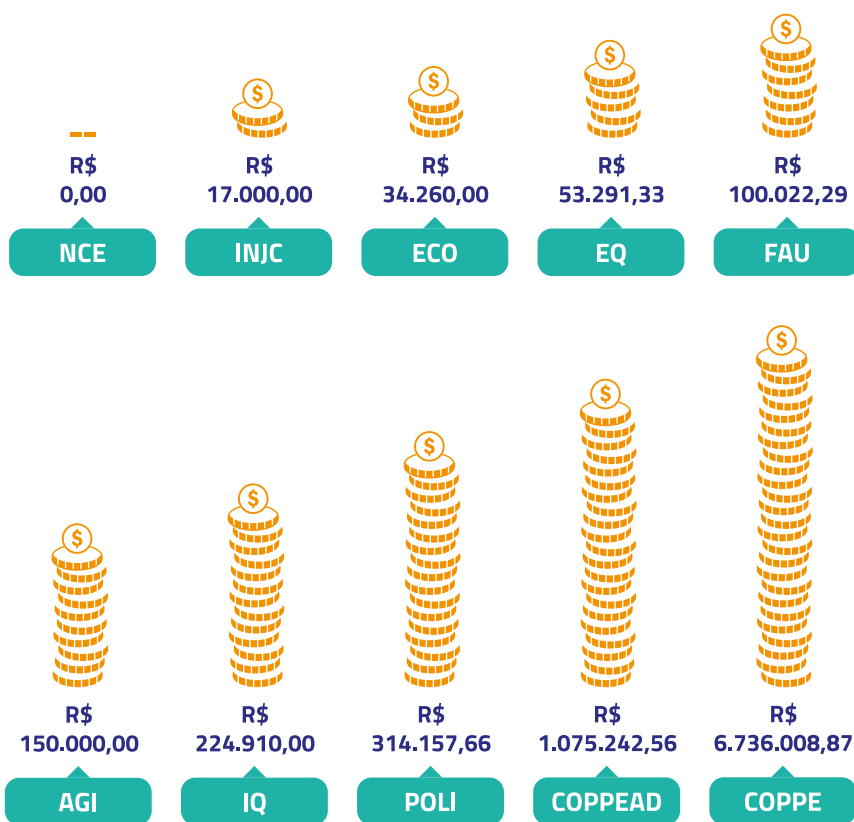
of the interactions with the University were carried out through services, events, donations and the Coppe/UFRJ Business Incubator. Compared to the previous year, the investment in cooperation (R&D) is more balanced, i.e. 97% in 2017 compared to 55% in 2018.

The graph below shows the investments made in cooperation/interaction with each university center, in 2017 and 2018. In 2017, most of the resources invested were divided between the Center for Technology – CT (47%) and the Center of Mathematical and Nature Sciences – CCMN (52%). In 2018, one can see that more than 80% of the resources were invested in the Center for Technology – CT.



Investment in cooperation/interaction in 2017 and 2018 by university centers

The investments made by all units show that 77% of the amounts went to COPPE; and 12% to COPPEAD, as we can see below. Of the 77% of resources invested in CT (R\$ 7,328,367.86), 92% went to COPPE.



2. Presentation of the initiatives taken by UFRJ to the companies

In 2018, 25 proposals of initiatives were submitted to the Articulations Managing Committee, 24 of which were considered cooperation initiatives. Compared to 2017, the number of requests of support to the University initiatives decreased by 4%.



UFRJ initiatives are projects sent by the university to attract investments from companies. This can only happen when the projects are approved by the Articulations Managing Committee and when they are considered cooperation projects between the companies and the University.

Em 2018, foram submetidas 25 propostas de Iniciativas da UFRJ ao Comitê Gestor de Articulação, sendo 24 enquadradas como cooperação. Comparando ao ano de 2017, o número de solicitações de apoio às iniciativas da UFRJ diminuiu em 4%.

Das propostas enquadradas como cooperação, 58% eram eventos; 17%, projetos de P&D; 13%, projetos de extensão; e os 12% restantes eram relativos à bolsa de estudos e ensino.

Das iniciativas aprovadas e enviadas para apreciação das empresas residentes, cinco foram apoiadas. Duas das iniciativas receberam o recurso em 2018, e as outras três receberão em 2019.

Developing the companies



An innovation ecosystem becomes effective when the different actors that make up this network interact and strengthen each other. When we think about what motivates several institutions



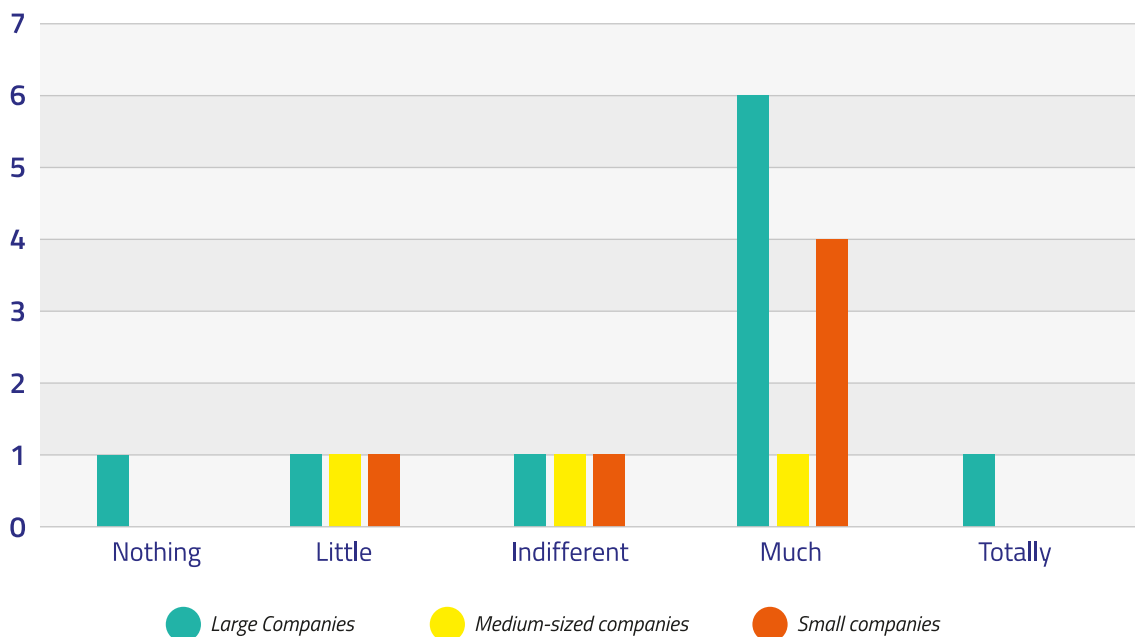
Photo: Jady Louise

to integrate an environment such as the environment of the UFRJ Science Park, one needs to consider the following: the opportunities for knowledge exchange, the strategic location, the potential for interaction with other actors in the production chain and the opportunity for internationalization (when you are a small company).

In 2018, we did a survey²⁷ to understand the perception that our residents have regarding the impact of being within the innovation environment of the UFRJ Science Park.

One learned that in 2018, 67% of small companies stated that being a resident company of the Park made their organization become considerably more innovative. Only 17% stated that they benefited little from our environment and the same percentage stated that being part of the Park made no difference. When it comes to the medium-sized companies, one third stated that being in our environment contributed a lot to the innovating aspects of the companies; one third said that it didn't make a difference, and one third stated that it contributed very little. As for the large companies of the Park, 60% stated that being in this environment contributed a lot to their innovation. The other 40% are equally distributed among the following perceptions: indifferent, little and nothing.

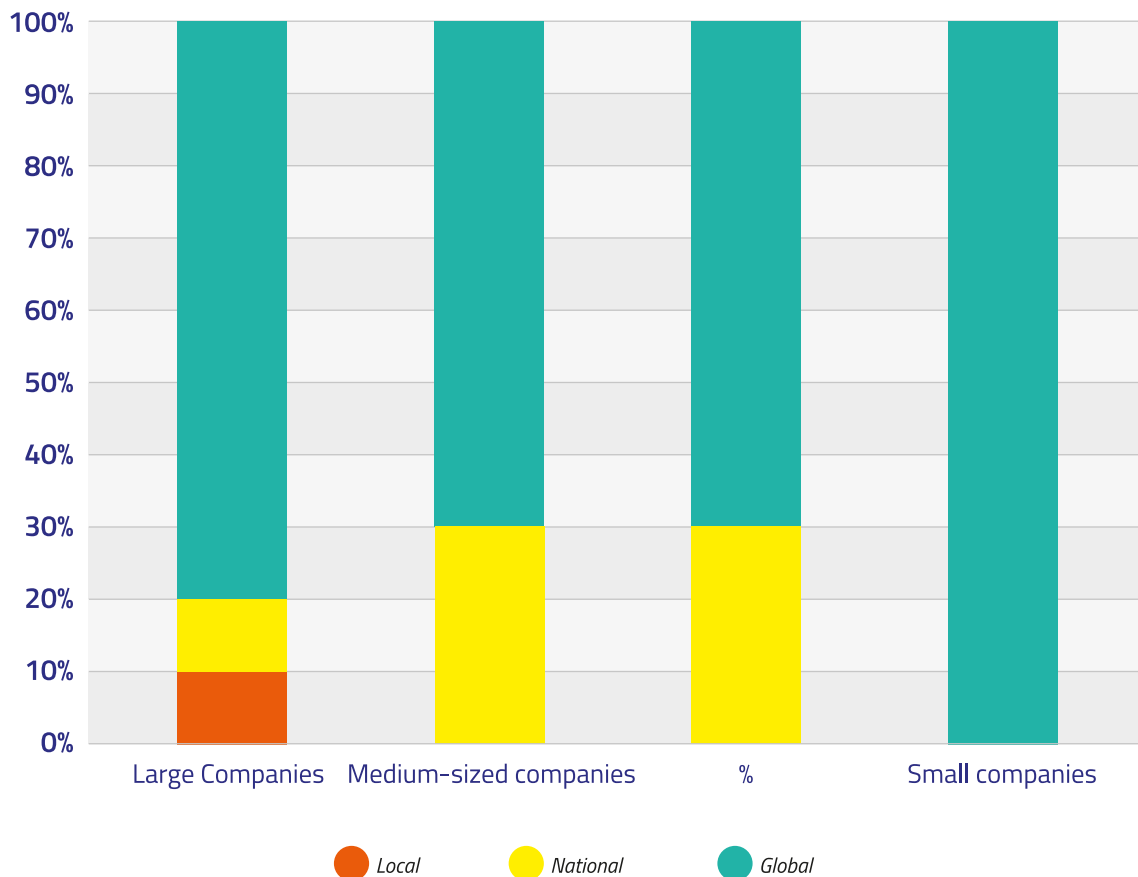
²⁷ This research was carried out with the resident companies of the Park, with the exception of the incubated companies. The following companies responded to this survey: Ambev, Dell EMC, EMBRAPPII, Fiocruz, GE SUEZ, GPE, Halliburton, Manserv, MJV, Mobicare, Neopath, Oceanpact, PAM Membranas, PROMEC, Schlumberger, Senai CETIQT, Siemens, Superpesa, TechnipFMC, Tenaris, Twist, Vallourec, Wikki.



Number of resident companies stating that the Park has contributed to their organizations become more innovative

With regard to the technologies developed by the research centers installed in the Science Park, one can see that most of them have an international reaching: 80% of the technologies of the large companies have a global scope, 10% have a national scope and 10% a local scope; 67% of the technologies of the medium-sized companies have an international reaching, the other 33% have a national scope; and 100% of the technologies of the small companies have a global reaching.





Coverage of the technologies developed by each unit installed in the Science Park



Interaction between the companies of different sizes

Material theme:  **(GRI 103-1)**

An innovation ecosystem becomes effective when the different actors that are part of it interact and strengthen each other. When we develop the relationship between companies, we are promoting the continuous increase in the innovation capacity of the ecosystem – the ultimate goal of the Park's 2016-2045 Strategic Planning. Therefore, it is important that

the Park plays a central role in stimulating interactions so that the relationship between laboratories, large, small and medium-sized companies becomes a lever for innovation as well as for attracting new companies to the Park.

If the Park wants to be an environment of innovation, it is important that the companies installed in the Park interact not only with the university but also with each other. This is the way to become closer and closer to a consolidated innovation ecosystem. In order to achieve this goal, during the year 2018, the UFRJ Science Park and the Coppe/UFRJ Business Incubator held 67 meetings which are detailed in the table.

	Theme	Program	Date of the event	Speaker
1	Ambev	Interaction between Large companies and Startups	January 8, 2018	Bruno Nunes Caldeira Stefani
2	Individual conversations with startups for possible interactions	Interaction between Large companies and Startups	January 8, 2018	Internal
3	Presentation Inova VLI	Disclosure	January 9, 2018	Alexandre Gallotti
4	FINEP's presentation - Second Call	Disclosure	January 9, 2018	Alexandre Cabral
5	Presentation of Inova VLI Open Innovation Program.	Interaction between Large companies and Startups	January 9, 2018	Internal
6	WS Digital Marketing	Decolar / Crowd	January 11, 2018	RD Station-Enzo
7	WS First Sales	Decolar / Crowd	January 16, 2018	Leonam Jesus
8	Mining Lab Program presentation	Disclosure	February 2, 2018	Mateus Farias
9	Visit to meet INC. He didn't talk to the companies.	Interaction between Large companies and Startups	February 6, 2018	Internal
10	Lucimar meeting at the company. (Interaction with the University)	Interaction between Large companies and Startups	February 19, 2018	Internal
11	Presentation of the Brazil Innovative Program	Disclosure	February 22, 2018	Fábio Marcio Dias
12	Presentation of the VetorAG Program	Disclosure	February 26, 2018	Clarisse Gomes

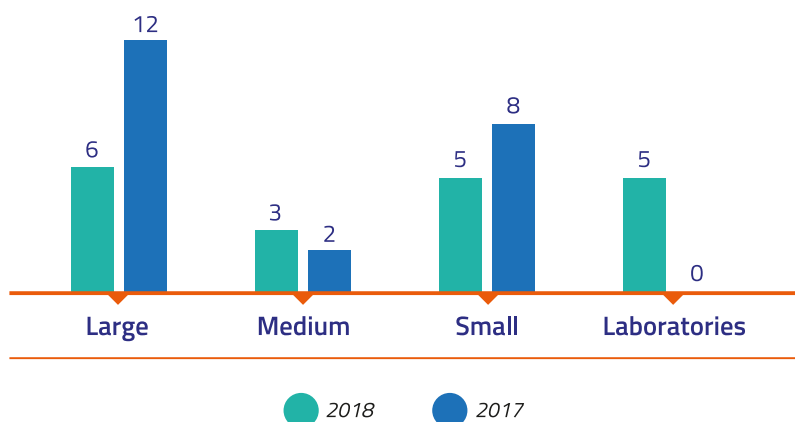
13	CTE - Presentation Digital Construction Network	Interaction between Large companies and Startups	February 26, 2018	Francine
14	Presentation of the VetorAG Program	Interaction between Large companies and Startups	February 26, 2018	Internal
15	Presentation of the Digital Construction Network	Interaction between Large companies and Startups	February 26, 2018	Internal
16	Dissemination of the Shell Startup Challenge Brazil Program	Disclosure	March 1, 2018	Marcelo Mofati
17	Dissemination of the Shell Startup Challenge Brazil Program	Interaction between Large companies and Startups	March 1, 2018	Internal
18	The dawn of Hydrogen Energy	Open Talk	March 8, 2018	Professor Paulo Emílio Valadão de Miranda
19	Women, ageing and career	Trajectory X	March 8, 2018	Marcia Tavares
20	Matchmaking Mentoring Event	Mentoring	March 13, 2018	Angela Lins - Coppead
21	WS Intellectual Property	Decolar / Crowd	March 13, 2018	Atém e Sá
22	Decolar accounting for lay people	Decolar / Crowd	March 15, 2018	Fred L. A.
23	Talk to Entrepreneur - Answer that.	Crowd Talk	March 20, 2018	Paulo Monteiro
24	Metro Rio	Interaction between Large companies and Startups	March 21, 2018	Leonardo Blasi Rodrigues
25	Group chat with startups for possible interactions	Interaction between Large companies and Startups	March 21, 2018	Internal
26	Vale	Interaction between Large companies and Startups	March 26, 2018	Leonardo Crespo
27	Ws Finance for entrepreneurs	Decolar / Crowd	March 26, 2018	Vicente - Coppead
28	Group chat with startups for possible interactions	Interaction between Large companies and Startups	March 26, 2018	Internal
29	Intelligent future beyond innovation	Meetings at the Park	March 27, 2018	Gil Giardelli
30	SENAI-Shell Call	-	April 2, 2018	SENAI Institute of innovation - Virtual Production Systems
31	Video Training	Decolar / Crowd	April 5, 2018	Danielle Lua
32	Peer Review	Crowd	April 9, 2018	-
33	Workshop on Best Practices for Taxes	Crowd / Decolar	April 9, 2018	Nós 8 - Marcelo Figueira

	Theme	Program	Date of the event	Speaker
34	Workshop about 'Myths and Truths About Startups'	Crowd / Decolar	April 16, 2018	Nós 8 - Helder Galvão
35	Peer Review	Crowd	April 16, 2018	-
36	Resources for Social Investment	Open Talk	April 18, 2018	Eliane Damascus
37	Membership agreement	Decolar	April 19, 2018	Felipe Herrera
38	Nissan and UFRJ – Round 1- Nissan challenge and UFRJ skills	Interaction Workshop	April 19, 2018	Luis Felipe Clavel e Clara - Nissan
39	IP Day	Meetings at the Park	April 24, 2018	UFRJ
40	Peer Review	Crowd	April 30, 2018	Other
41	Peer Review	Crowd	May 7, 2018	-
42	WS legal aspects of the investment and divestiture process	Crowd	May 7, 2018	-
43	Peer Review	Crowd	May 15, 2018	Telefônica - Ana Fusco
44	Launch Call 2018	Crowd	May 15, 2018	Telefônica - Ana Fusco
45	Ws Crowd Valuation	Crowd	May 21, 2018	-
46	How to turn a technician into a sales-man?	Open Talk	May 22, 2018	7 Consulting - Ramon Calvo
47	WS economic scenarios	Meetings at the Park	May 24, 2018	Gulhereme Mercês
48	NISSAN and UFRJ - submission of tenders	Interaction Workshop	May 24, 2018	Robson Dias (PEE), Suzana Kahn and Mauricio Aredes (PEE)
49	AMBEV and UFRJ - Presentation of the university's capabilities	Interaction Workshop	May 25, 2018	Yola Miranda - Ambev Miscellaneous (EMP, PEE, PEQ, EQ, NCE, IMA)
50	Il Money Morning	Meetings at the Park	June 13, 2018	-
51	Presentation of the Vallourec Open Brazil	Disclosure	June 21, 2018	-
52	Presentation of the Finep 2018 tender	Disclosure	July 17, 2018	Roberto Chiacchio

	Theme	Program	Date of the event	Speaker
53	Corporate Sustainability: Current Challenges	Open Talk	July 25, 2018	Leonardo Marques
54	Presentation of the Innovation Tender for the Industry and of the Petrobras Distribuidora Startups Challenge	Disclosure	August 9, 2018	Persons from BR and Firjan
55	Presentation of the tender for supporting projects of the Boticário Group Foundation	Disclosure	August 10, 2018	William Of Avila Almeida
56	Valuation and Finance	Decolar	August 16, 2018	-
57	Corporate Demoday	Demoday	August 28, 2018	-
58	Hackathon Ambev presentation	Disclosure	August 30, 2018	Ambev
59	Director's presentation at Rio Oil & Gas	Fair	September 24, 2018	Internal
60	Industry 4.0 - Initial Conversation	Interaction between Large companies and Startups	March 3, 2018	Internal
61	Corporate Sustainability: Current Challenges	Ambev Workshop	October 5, 2018	-
62	New International Business - Brazilian success stories	Open Talk	October 18, 2018	Prof. Renato Cotta de Mello and Profa. Clarice Secches Kogut
63	Presentation of Innova Trends	Open Talk	October 31, 2018	Mariana Doria
64	40 + in	Disclosure	November 13, 2018	-
65	Decolar Governance		November 11, 2018	-
66	Technion director	Disclosure	November 26, 2018	Dana Sheffer; Ricardo Lomaski
67	Impact of the General Data Protection Act on Business	Meetings at the Park	November 28, 2018	-

In order to evaluate the perception of the resident companies about the interactions established between them, with the incubated companies and with the laboratories installed in the Park, a survey was carried out, the result of which will be presented below.

Of the total number of respondents²⁸ - 28 companies are large, medium and small-sized, - 19 companies have established some kind of interaction with a resident company or laboratory. Of these interactions, most were of a strong character, meaning that they closed some deal and / or did something together.

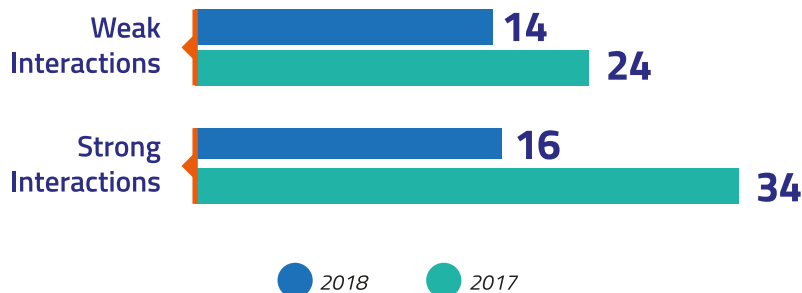


Comparative chart of the number of companies that interacted with other resident organizations of the Park in 2017 and 2018

Nine companies stated that they had not established any kind of interaction with another resident company of the Park in 2018. One can observe that the number of companies that interacted in 2018 was higher than in 2017, but the number of interactions decreased²⁹, as shown in the chart.

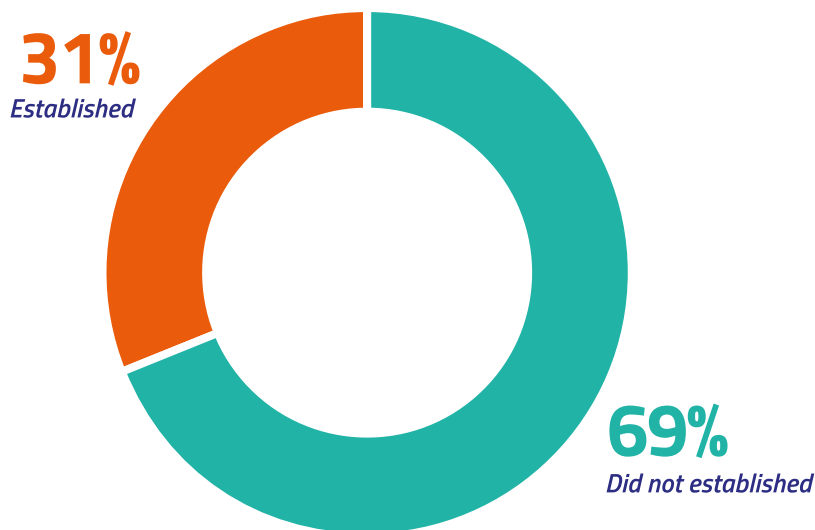
²⁸ The companies that participated in the survey were: Ambev, CEGN, Dell, EMC, EMBRAPII, Fiocruz, Fundo Verde, GP, Halliburton, LabNeo - Coppe/UFRJ, LabOceano, LAMCE - Coppe/UFRJ, Manserv, MJV, Mobicare, Neopath, Oceanpact, Paineel Brasileiro de Mudanças Climáticas (PBMC), PAM Membranas, PROMEC, Schlumberger, Senai CETIQT, Siemens, Superpesa, TechnipFMC, Tenaris, Twist, Vallourec, Wikki.

²⁹ We are trying to make sense of the reason for the decrease in the number of interactions.



Comparison of the number of strong and weak interactions in the years 2017 and 2018

Another important point that needs to be taken into account in the evaluation of the innovation ecosystem is the relationship between the residents and the companies in their production chains. To assess this issue, the companies of the Park were asked whether they had provided any product, service or established any technical cooperation with Petrobras in 2018.



Companies that have supplied some product, service or established some technical cooperation with Petrobras in 2018

By 2018, 31% of the companies that responded to this survey³⁰ had provided some product, service or established some technical cooperation. They all participated in the oil and gas production chain in some way.

Diversification of economic sectors and size of companies

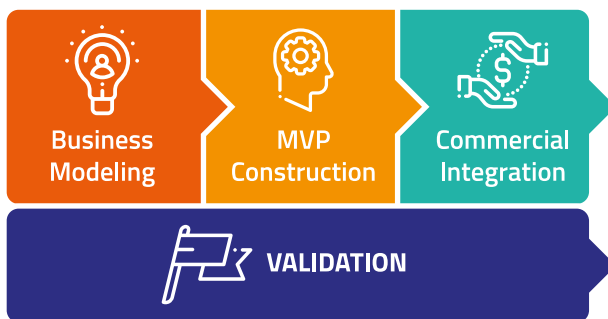


Material theme: (GRI 103-1)

CrowdRio Program

Together with Telefônica Open Future, the Science Park offers the **CrowdRio** Program for digital business development and the IoT. The program provides support for the transformation of ideas into enterprises or for the strengthening of existing businesses.

The program for pre-acceleration of startups, based on the Lean Startup methodology, is structured in three four-month cycles, according to the scheme below, and allows ideas to be validated and become companies during the program.



³⁰ In 2016, 15 companies answered the survey questionnaire. In 2017 the number of respondents increased to 21.

The first cycle is that of *Business Modeling*, which aims to turn the business model of the startups more mature, by building a value proposal. Also included in this phase are activities to strengthen the composition of teams and corporate agreements between their members.

The second cycle, *MVP construction*, includes the use of agile development methodologies to create an initial prototype solution (MVP) focusing on the user experience.

The third cycle, *Commercial Insertion*, includes building strategies for the outreach of first sales. This includes defining the monetization and pricing model, selecting marketing and communication strategies, and training in sales and negotiations. Throughout the evolution of the three cycles presented, validation steps are taken, i.e. interactive processes are performed by the startups to test and confirm the validity of the solutions they want to offer.

In 2018, the CrowdRio program welcomed two group classes. Until June, activities of the second and third cycles of the program were carried out and the startups of the class that began in 2017 (listed below) participated in it.

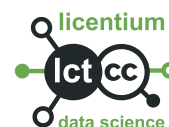


Champz



Genuine
Language

Sr. Francisco



The selection of new participants for the 2018 class began in June. Altogether, 28 candidates submitted their applications, eight startups were approved and started the program's activities in August. The selection process was attended by six external evaluators (outside the Park and Telefônica). The evaluators are successful entrepreneurs who started their careers in the Coppe/UFRJ Business Incubator. The participants of the 2018 edition of the program are the following.

Startup	Brief Description
4IMart	Architecture development for automation solutions, using <i>machine learning</i> and AI techniques, creating IoT embedded systems, based on the Arduino platform and Raspberry PI integrated with real-time cloud tracking systems.
Bela Horta	<i>Bela Horta</i> promotes food without pesticides in the urban area by planting made in fair boxes. It is a vegetable garden plant located in the urban area of Rio de Janeiro that uses recyclable and sustainable products for the making of our small urban farms. The land for planting and the seedlings of the week are 100% organic, coming directly from the rural producers of the regions of Guapimirim, Petrópolis, Teresópolis and Nova Friburgo, certified by ABIO / Orgânicos do Brasil. The gardens are 100% artisanal.
Champz	<i>Champz</i> is a social platform that allows people to sponsor amateur and semi-professional athletes and track their results by means of a <i>fantasy game</i> .
Soccer for a cause	Auction platform for objects used by soccer athletes.
Event management	Collaborative funding of events for parties and trainees
Genuine Language	New solution, through face-to-face polyglot events, to learn and practice foreign languages.
Sr. Francisco	Platform that connects elderly people with their relatives in a non-invasive way, keeping their privacy and increasing their affective bonds.
Yplus	The development of a secure resource sharing network based on Blockchain technology, P2P protocols and strong cryptography.



COPPE/UFRJ Business Incubator



Mission

to promote the transformation of knowledge into innovative technology-intensive businesses, strengthening the entrepreneurial culture in UFRJ and the country's development.



Vision

to be a reference among the incubators of the state of Rio de Janeiro, of Brazil and of the world for our competence, pro-activity, ability to identify businesses with high innovation potential and ability to offer infrastructure, training and services that contribute effectively to the development and success of these companies.



Values

visibility; ethics; independence; transparency in actions; entrepreneurship and innovation; meritocracy in team management; institutional link with UFRJ; university inserted in society; incentive and support to incubates without paternalism; self-criticism.



INCUBADORA
DE EMPRESAS
COPPE/UFRJ

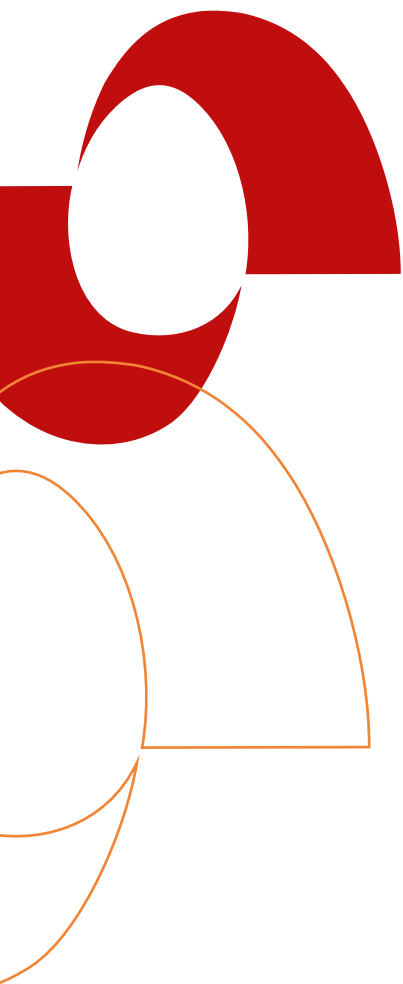


Founded in 1994, COPPE / UFRJ Business Incubator is an environment specially designed to stimulate the creation of new companies based on technological knowledge, generated mainly in research groups of the Federal University of Rio de Janeiro. Over the course of its more than 20 years of its existence, COPPE / UFRJ Business Incubator has been responsible for the design and development of nearly 100 companies. On the 31st of December 2018 it included 30 startups-residents of a wide variety of sectors, namely: telecommunications, oil & gas, data science, artificial intelligence, virtual and augmented reality, agribusiness, biotechnology, animal health, energy, civil engineering, process optimization, robotics, simulation, information technology, and communication, etc.

These companies employed 245 people, including their partners, and 124 employees have Masters and Doctorate degrees in their fields of activity.

Coppe / UFRJ Business Incubator plays an important role in consolidating UFRJ's Science Park, in strengthening the entrepreneurial culture of the University and the country's technological development.





Since 2017, the integration of activities between the Park and the Incubator has been intensified. Training courses, lectures, programs and events for the entrepreneurs of the Incubator have been extended to the companies in the post-incubation and acceleration programs of the Park (CrowdRio), as well as to the small-and medium-sized companies. This is the case with the Decolar Program and the Mentoring Program.

Through training, individual consulting and continuous follow-up, the Incubator works on five main axes: market, management, capital, technology and entrepreneur. These make up the Core (best practices suggested by the Reference Center for Support of New Ventures). This set of incubated business development services makes up the Decolar Program. The training courses, which take place monthly in the Incubator auditorium, involve speakers who give presentations on topics relevant to the universe of entrepreneurship, going through the core axes described above. Throughout 2018, nine Decolar meetings were held.

The Incubator partners with institutions renowned in their areas of operation and provides a series of programs aimed at developing business strategies. In partnership with COPPEAD, it offers the *Mentoring Program*, which aims to stimulate strategic reflection of *startups* through the guidance of experienced market professionals trained at the COPPEAD Institute of Administration. Together with SEBRAE, the Sebrae Negócios Program aims to analyze business models to understand the difficulties and limitations that hinder their better positioning in the market.

In a fixed way, the Coppe /UFRJ Business Incubator offers various consulting services to resident companies, including marketing, communication/press, visual, financial, accounting, business and legal planning. In addition, the Incubator runs the Technological

Radar Program, which looks for technologies with the potential to become promising businesses and that are developed in the laboratories of the university. Since 2008, more than 60 technologies have been mapped and in-depth feasibility studies have been carried out. The aim of the program is to stimulate the emergence of new academic *spinoffs* and support them in the Incubator.

Another relevant point in 2018 was the Incubator's investment in activities aimed at the capital development of its *startups*. Each year, the Incubator hosts the *Demoday*, when it presents its most mature and business-driven companies with potential for attracting investment from the community of venture capital investors (investment funds and angel investors), as well as from large companies interested in approaching *startups*. In advance, entrepreneurs are prepared for negotiation (*valuation*) and presentation (*pitch training*). The public of companies that performed in *Demoday* 2018 included resident companies in the Incubator and post-incubation *startups* of the Science Park.



Below are the programs developed by the Incubator in 2018.

Name	About	Aims	Target audience	Results
Mentoring	Individual mentoring sessions	In the activity, Coppead alumni guide resident entrepreneurs in their strategic challenges. The program provides an opportunity for the mentor to offer his market experience in addition to networking expanding.	Resident companies in the Incubator and small and medium-sized resident companies in the Science Park	An average of 240 individual mentoring meetings. In addition to holding a major program opening event in the Incubator.
Decolar	Monthly lecture cycle	Incubated business development services are called Decolar Program. The actions are developed in five axes: Market, Capital, Management, Entrepreneur and Technology	Resident companies in the Incubator and small and medium-sized resident companies in the Science Park	Holding 10 lectures in the year
Corporate Demoday	Presentation of startups to large companies	The program aims to stimulate the interaction between startups and large companies in order to generate partnerships between the parties	Resident companies in the Incubator and post-incubated resident companies in the Science Park (15 participating companies)	1 annual event held
Godparents Program	Orientation sessions	More experienced entrepreneurs guide beginners in the Incubator on practical issues related to the day-to-day life of a company	Resident companies newly arrived in the Incubator (6 companies)	Average of 18 individual meetings
Entrepreneurial Trajectories Program	Group meetings for personal development of the entrepreneur	Lectures and group dynamics that aim to support the entrepreneur in his professional and personal life planning and to better understand the ecosystem in which s/he is inserted as well as players and trends, i.e. sector research.	Resident companies newly arrived in the Incubator (6 companies)	3 group meetings.
Program 40+in	Promoting engagement and strengthening of networking to identify talents over 40 years old who see entrepreneurship as an opportunity to reinvent themselves or grow in their current career.	Regular meetings	Mature companies and professionals with market experience	A first meeting held.

It should be noted that the Incubator creates a *match* environment for its resident startups and large companies. Regular meetings (individual or group) are held so that large companies present their demands and start-ups present solutions to the problems listed. For the Incubator's business graduates (there are 69 startups), the Incubator acts through the dissemination of events and the promotion of connections.

Desenvolvendo a Economia e a Região

Job creation (GRI 102-7)



In 2018, the Park had a total of 1,609 professionals employed in the management of the Park and Incubator, in the resident companies and in the laboratories installed in both the Park and the Incubator.

	2016	2017	2018
Companies and Laboratories in the Park	841	743	1281
Companies and Laboratories in the Incubator	159	154	245
Park's administration	73	73	72
Incubator's management	13	13	11
Total	1086	983	1609

Compared to 2017, there was a 64% increase in the workforce employed in the Park. This shows that, throughout the year, resident companies and laboratories were hired to develop new products and services.

61% of the Park's employees are male and 39% female.

	Male	%	Female	%	Total	%
Companies and Laboratories in the Park	764	59,64	517	40,36	1281	100,00
Companies and Laboratories in the Incubator	173	70,61	72	29,39	245	100,00
Park's administration	43	59,72	29	40,28	72	100,00
Incubator's management	5	45,45	6	54,55	11	100,00
Total	985	61,22	624	38,78	1609	100,00

The qualification of Park employees, i.e. companies and laboratories resident both in the Park and in the Incubator, as well as their administrations, are mostly graduates and undergraduate students (57%) and 22% of the Park's staff have Master's degrees and PhDs, as shown below.

	Doc- tors / doctoral candida- tes	Holders of Mas- ter's / Master's stu- dents	%	Gradu- ates/ under- gradu- ate stu- dents	%	Upper secon- dary / ongoing	%	Below secon- dary	%	Total	%
Companies and Laboratories in the Park	117	114	18,26	762	60,24	272	21,50	0	0,00	1265	100,00
Companies and Laboratories in the Incubator	124		50,61	121	49,39	0	0,00	0	0,00	245	100,00
Park's administration	3	3	8,33	22	30,56	32	44,44	12	16,67	72	100,00
Incubator's management	0	2	18,18	3	27,27	5	45,45	1	9,09	11	100,00
Total	244	119	22,79	908	57,00	309	19,40	13	0,82	1593	100,00

Taxes for the city



The companies located in the Park are research and development centers and, therefore, do not carry out sales or the provision of services. However, sometimes these activities correlate with R&D activities. Considering this, in 2018 the companies installed in the park generated R\$ 1,027,035, 40 in state taxes (ICMS) and R\$ 2,188,821,19 in municipal taxes (ISS), totaling approximately R\$ 3,2 million in municipal and state taxes. Compared to the previous year, there was a 100% increase in revenue.

Knowledge (intellectual property)



The number of requests for intellectual property rights is one of the indicators used to evaluate the innovative activity in organizations. In the Park, there are companies which believe that it is more appropriate to work with the notion of industrial secrecy instead of using patents.

Therefore, we surveyed the resident companies in 2018 and found that 46% of them (12 companies) requested some intellectual property title, while 54% (14 companies) said they did not request it. Thirty-three patent and one trademark titles were deposited. Compared to the previous year, there is an increase of 50%. In the accumulated result, 164 intellectual property titles have already been deposited due to research carried out in the UFRJ Science Park.

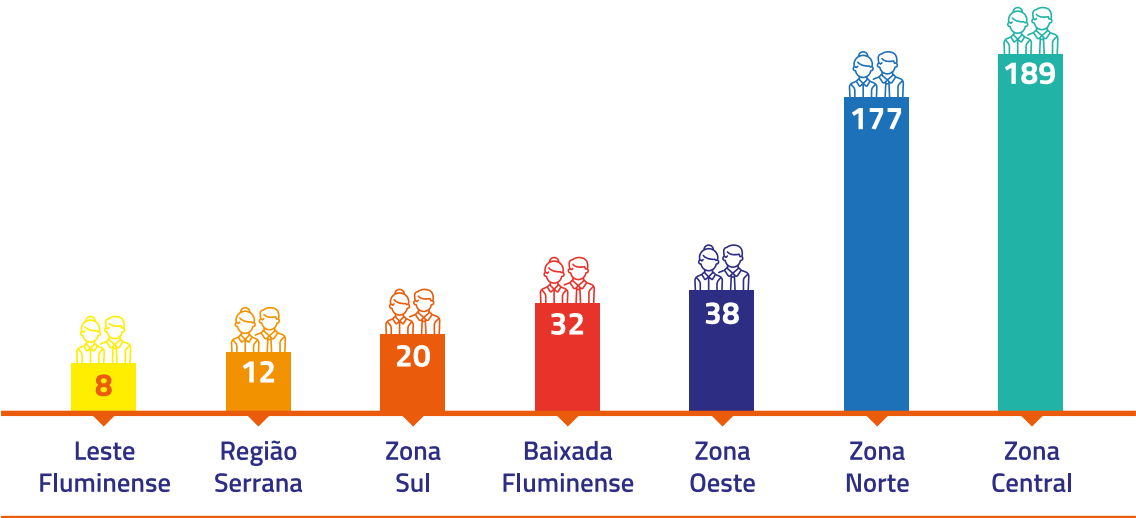
Suppliers (GRI 102-9, 102-10)



Our suppliers are selected by observing the best practices of public procurement, including Law 8.666 (Bids). All procedures

(registration, verification of their compliance with legislation and contracting) are carried out by the COPPETEC Foundation (which makes the financial management of the Park). In order to stimulate local development, the Park seeks to disseminate its purchase demands to local suppliers, so that they can participate in public competition processes **(GRI102-9)**. For 2018, the goal of the Park was to have a supply chain policy incorporating good sustainable purchasing practices. For 2019, the goal is to define the parameters needed to establish a supply chain policy.

Of the resources allotted in 2018, 33% went to contracting suppliers. Throughout the year, 555 contracts were closed with suppliers of services for events, materials for building maintenance, space conversation and landscaping, office supplies, printing services, consultancy, licenses and software, waste collection service, communication, telephony, among others **(GRI 102-9)**.



Number of contracts per region in the state of Rio de Janeiro

As far as the geographical aspects are concerned, 86% of suppliers live in Rio de Janeiro, the vast majority of them are residents around the Fundão Campus³¹ (77%) – 3% of suppliers are located in the Maré district and on the island of the Fundão Campus). **(GRI 102-10).**

Social Responsibility



In 2018, the UFRJ Science Park and its resident companies supported around 10 projects that benefited several public audiences located around the island where the Fundão Campus is located.

We would like to highlight the following projects:

Olympic Maré

The project aims to encourage students from the Public Schools of Maré to participate in the Brazilian Mathematical Olympics of Public Schools (OBMEP).

The project was founded in 2017 and in 2018 it received the support of 8 resident companies and of the 4th Regional Education coordination (CRE). As a result, 4,640 students were enrolled for the first round of the Olympics – 163% more students than the previous year – with 227 passing for the second round. As an award to the students who passed to the second phase, the Park organized a visit to demonstrate the importance of mathematics on a daily basis in the Park. The visit took place in April 2019.



³¹ North and Central Zone of the city of Rio de Janeiro.

The project aims to encourage students from the Public Schools of Maré to participate in the Brazilian Mathematical Olympics of Public Schools (OBMEP). The resident companies that participated the project in 2018 were: Neopath, Twist, DELL EMC, Halliburton, Schlumberger, Promec and SENAIS-CETIQT.

Dell Mini-Company

Dell EMC volunteer project whose goal is to support students from high school public schools to set up a mini technology company. The company's volunteers mentor the activities that take place on a single day of the week.



Dogs in the park

Volunteer action promoted by the companies of the Park, by employees and students of the university as well as by employees of the Incubator, to treat, rescue, castrate, host and promote the adoption of abandoned dogs in the Science Park. In 2018, five female dogs were rescued, four of which were donated; seven puppies, six of which were donated; two males, of which one was donated. In 2019, the Park will support volunteers in the animal adoption campaign and fair.

Children's Project "Python Girls"

DELL EMC provided food and logistics to host children from public schools who started learning python. The aim of the project is to give all the tools to those children so that they learn how to apply their knowledge to a large technology company down the road.

Easter campaign

The resident company Halliburton raised chocolates and sweets to be donated to charities at the time of Easter.

Sustainable Gincana in the residential village of UFRJ

During the Environment week, Siemens mobilized an action for raising awareness of children and young people towards the environment through a Sustainable Gincana. Gincana consisted of actions and games, transmitting ecological learning, such as: water saving, recycling, selective collection, general knowledge about the environment, etc.

Citizenship action in the residential village of UFRJ

The company TechnipFMC took the following activities to the village on Citizenship Day (October 5, 2018): haircut; preparation of the work permit and Social Security (CTPS) with the Ministry of Labor; and issuance of identity documents with the participation of the DMV.

Donation campaign for clothes, hygiene items and school supplies

In October 2018, the Park mobilized its community to donate clothes, diapers, hygiene items, mattresses, supplies, among other, for the residents of two houses of the Residential Village that were destroyed in a fire. The companies that joined the campaign were: AMBEV, Dell EMC, GPE, Halliburton, Siemens and Superpesa, as well as the LabOceano laboratory.



Prezados,

Na noite de ontem, duas casas da Vila Residencial foram destruídas por conta de um incêndio. Nelas moravam duas famílias com 6 crianças, que ficaram sem roupas de cama e banho, vestuário, fraldas e itens de higiene.

Estamos realizando uma campanha de arrecadação destes itens. As crianças têm as seguintes idades: 6 meses, 2, 3, 4, 5 e 7 anos.

As doações podem ser feitas na recepção do Parque Tecnológico da UFRJ.



In addition to participating in this campaign, the resident company AMBEV also carried out a campaign of hygiene products for donation to residents in street situations – NGOs infected by the good – on the Governador island (near Fundão Campus).

TechnipFMC annually carries out the Colibri project, aimed at collecting clothes and shoes, donated since 2017 to the Residents ' Association of the Residential Village.

Halliburton carried out donation campaigns for clothing and cold clothing to Macaé charities.

Children's day campaign

Halliburton has collected toys for donations to institutions that care for children and adolescents in need, in Macaé. DELL EMC, on the other hand, organized the event on children's day in partnership with the NGO Health Child Restart, which was active until that year at the Institute of childcare and Pediatrics Martagão Gesteira of the Health Sciences Center of UFRJ – IPPMG.

Christmas campaign

TechnipFMC ran an internal toy donation campaign for the UFRJ residential village. 200 toys were collected for the village children. AMBEV has sponsored 40 children (donation of toys and clothing for Christmas) from a poor neighborhood in São Gonçalo. Halliburton has collected, for its Christmas campaign, school supplies for donations to Macaé institutions that care for children and adolescents in need.

Institutional representativeness (GRI 102-13)

The UFRJ Science Park plays a significant role in activities aimed at the scientific and socioeconomic development of Rio de Janeiro and Brazil. Currently, it sits on the Governing Council of the Technology Council of the Federation of Industries of the state of Rio de Janeiro (FIRJAN) and on the Advisory Council of the National Association for the Promotion of Innovative Enterprises (ANPROTEC).

It also participates in the following projects: Committee for the promotion of the relationship between large and micro-sized companies and between medium and small-sized companies as a driver for innovation (ANPEI); Executive Group of the Industrial Complex in Life Sciences (GECIV Rio de Janeiro) of the government of the state of Rio de Janeiro; and Advisory Committee for the ABDI/Inmetro project in the "Environment for the Demonstration of Technologies for Smart Cities". The UFRJ Science Park is affiliated to the International Association of Science Parks and Areas of innovation (IASP); the National Association for the Promotion of Innovative Enterprises (ANPROTEC); and the National Association for Research and Development of Innovative Enterprises (ANPEI). Its main partners are the Ministry of Science, Technology and Innovation, the Government of the state of Rio de Janeiro, Rio Negócios, Sebrae, Faperj, the Rio de Janeiro Municipality, Finep and CNPq.

Visibility

UFRJ's Science Park has its consolidated image, internally and externally, as one of the most relevant innovation environments in the country. The technologies developed here, the products and services generated, in addition to the potential for interaction with the university, attract the attention of an audience with very different characteristics.

Among them are opinion leaders, national and international press, digital influencers, students and teachers, businessmen and entrepreneurs, investors, governments, other actors in the innovation and entrepreneurship sector and society in general. For this purpose, the communication sector works on several axes for information to reach the public according to its profile and with the most appropriate tool.

Events and institutional activities

Throughout 2018, the Park participated actively in events and institutional activities to strengthen its image internally and externally. One of the highlights of that year was the participation of the Park at the Rio, Oil & Gas fair, the largest in the sector in Latin America. The Park had its own stand and showcased the activities with resident companies and the networking expansion.



PARQUE TECNOLÓGICO UFRJ

O Parque Tecnológico da UFRJ estará na Rio Oil & Gas 2018, principal evento do setor da América Latina. Um único espaço: empresas de grande envergadura, o pequeno porte e laboratórios da UFRJ apresentarão produtos e soluções inovadoras. As empresas desenvolvem suas atividades de P&D em parceria com a UFRJ, um dos maiores polos de excelência acadêmica do país. Também participaremos da O&G Techweek 2018 com uma palestra da direção do Parque. José Carlos Pinto.

24 a 27 SET

Estaremos no Bloco 2, no estande 934, no pavilhão 2, Avenida Salvador Allende, 6555, Barra da Tijuca - RJ

PALESTRA

No dia 24, às 14h25, o diretor do Parque Tecnológico da UFRJ, José Carlos Pinto, irá ministrar a palestra "Hoje para transformar", na O&G Techweek 2018.





For four days, in September, hundreds of people visited the stand of the UFRJ Science Park at the Rio, Oil & Gas fair where innovative technologies from companies, startups and laboratories of the institution were presented. At the Park's stand, an interactive wall was mounted, using Arduino, pressure sensors and mapping, to tell the story of technological development in the oil and gas field in Brazil. At the parallel event, at TechWeek, the Park's CEO, José Carlos Pinto, participated in a debate with a lecture on how technological innovation is able to boost and transform the oil and gas field.

Other activities

In 2018, we started proactive actions to relate the Park's image to events of interest. This way, the Park appeared as a supporter of the following events as a counterpart to the dissemination in its media and its internal audience.

- "Driving the environment from innovation to technology," promoted by AMCHAM in April.
- Hacking Rio, in July.
- TED UFRJ (how to (re) build the University?), in July.
- Institutional partnership with Rio Conventions Bureau- Park is the institution's official source of information in a Newsletter about Rio for qualified mailing.
- 5th Brazilian Venture Capital Conference (ABVCAP), in September.
- Global Forum on Innovation and Technology in Sustainability (FITS 2018), in November.





Prezados,
Foi um prazer recebê-los no Parque Tecnológico da UFRJ. Esperamos que tenham gostado da visita.

Parque Tecnológico da UFRJ

Visitation program

The visitors program of the UFRJ Science Park received 517 people in the year 2018 in 44 groups of 13 different nationalities. Compared to 2017, the number of visitors fell by about 20%, a decrease related to the decrease in demand from foreign visitors. 2,581 visitors came in group visits via registration on the institution's website.

Traditional and social media

Another metric used to evaluate the Park's visibility is the appearance in traditional and social media. Throughout 2018, the Park was the subject of 394 news articles in newspapers, on-line resources, radios and TVs across the country. Despite the restriction of disclosure

because of electoral legislation, the appearance of the Park in the media was 10% higher than in 2017, with emphasis on the opening of the Ambev Research Center, the system of currents developed by LabOceano and the position of UFRJ as a leader in the innovation ranking of Folha de S. Paulo.

Part of the Park's activities, the COPPE/UFRJ Business Incubator also leveraged the Park's image. From January to 31 December 2018, 81 news articles about or references to the incubated companies and graduated companies from the Incubator were published.

O GLOBO

Abaixo o preconceito

O Parque Tecnológico da UFRJ inaugurou uma galeria de arte a céu aberto. É composta por obras de artistas da Escola de Belas Artes, como esta, "Recicláveis", de Thales Valoura. Ele transformou mobiliários de coleta seletiva em "lixeiras" para racismo, machismo, LGBTfobia...

Ou seja: o público pode depositar nessas lixeiras bilhetinhos confessando seus preconceitos ou se queixando de situações que passaram.



**PRODUÇÃO
NACIONAL
AVANÇA**

Fornecedores locais apostam em inovação para ganhar espaço no país e no exterior

Por Felipe Datt

Fundada em 2013 e residente da incubadora de startups da Cepprev/Uni São Paulo de 2018, a *Flowcap* desenvolveu um novo sistema de inteligência artificial para monitorar a saúde dos equipamentos de uma indústria de petróleo e gás. A empresa emprega engenheiros, físicos e químicos, e já possui contratos com grandes empresas de petróleo e gás. A *Flowcap* também possui uma plataforma de comunicação com os fornecedores, com o objetivo de melhorar a eficiência das análises para a transmissão de dados importantes.

"Eu sou especialista em big data", diz o fundador da startup, Luis Viana. A expectativa é que a primeira rodada de financiamento seja de até R\$ 1 milhão, com a Financiadora de Estudos e Projetos (FINEP), criada em 10 de maio de 2019, oferecendo na tecnologia já lançada em 2018, o primeiro projeto de financiamento para montar uma unidade de inovação em O&G, na Noruega, no fim de 2017. "A ideia é capturar oportunidades no mercado do Norte do Brasil, porque quando a gente chega lá, a gente encontra um potencial enorme para a pesquisa do petróleo", diz.

Casos como o da *Flowcap* mostram um movimento crescente de startups brasileiras que estão buscando, inicialmente, que apoiem em investimentos em pesquisa e desenvolvimento.

O crescimento é bilionário: mercado de petróleo gas. A descoberta das áreas do pré-sal e o estabelecimento de uma política de controle local motivaram as empresas a desenvolverem projetos de exploração e produção de petróleo à arribada de óleo e gás, de forma a tornar os processos de exploração e produção em locais fronteiriços e remotos mais atraentes.

Grupos empresariais e alianças estratégicas como Equinor (antiga Statoil), Exxon Mobil e a estatal Enx, estão combinando no Brasil equipamentos para projetos de produção de petróleo e gás em águas profundas e ultra profundas, e a Alvarado estão entre os fornecedores.

Diversas iniciativas de cooperação em pesquisa e desenvolvimento (P&D) e inovação entre a academia e o setor privado estão sendo desenvolvidas. O exemplo é o Rio Grande do Sul, Shell Brasil, São Paulo e Rio de Janeiro. No final de maio, Shell Brasil, Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP) e a Petrobras anunciaram um investimento de R\$ 110 milhões na criação do Centro de Inovação em Novas Energias (Cine), com foco em pesquisa avançada para transformar gases de efeito estufa em energia elétrica.

O histórico de cooperação com a Petrobras, que se desenvolveu desde a década de 1970, também é o diferencial do Rio de Janeiro (URJ) à medida que a

[illegible]

desse Brasil, de acordo com a pesquisa realizada pela consultoria francesa Schlumberger-UHL, aponta a atuação das empresas brasileiras no exterior como uma das principais fontes de crescimento econômico para as companhias em 2014. Segundo o estudo, a maioria das empresas em análise já possui uma estratégia de internacionalização, com 70% delas tendo operações em outros países. A pesquisa também aponta que a maioria das empresas em análise já possui uma estratégia de internacionalização, com 70% delas tendo operações em outros países. A pesquisa também aponta que a maioria das empresas em análise já possui uma estratégia de internacionalização, com 70% delas tendo operações em outros países.

rio de P&D da multipropriedade no domínio para aplicações em de olho e gás. Os no Brasil passaram a de o mundo. O centro tecnologia administrativa ercial José Mauro ferencia nova geração e leves, que alcançam obo, peso e capacidade.

da da Empresa de e, Kelso Glorzi, enescente dos centros nas universidades" e na falta de incentivos, investimentos em P&D e to. Um exemplo é o do da Indústria Na-Promising), criada atualmente está em

Com aporte de R\$ 180 mi, Ambev inaugura centro de inovação no Rio

Realizado no Parque Tecnológico da UFRJ, o projeto é o sétimo centro de pesquisa do grupo InRev no mundo.

minic Lander

abricante de bebidas Ambev sugura hoje um novo centro de pesquisa no País, com o foco no desenvolvimento de produtos voltados ao mercado da América do Sul. O projeto de R\$ 10 milhões é uma expansão do Parque Tecnológico da Universidade Federal do Rio de Janeiro que já atraiu grandes empresas, como a Petrobras, Hallibur-

Segundo a empresa, o centro com equipamentos para testes de pesquisas e produção de variedades dos tipos de bebidas, é o mais avançado do grupo AB InBev do qual faz parte.

“No CIT Carveleiro conseguimos conduzir três vezes mais projetos com a metade do tempo”, afirma o gerente do centro, Daniel Baumann. Apesar de estarem voltados para o consumidor da América do Sul, os produtos desenvolvidos pela equipe brasileira poderão ser reproduzidos em qualquer lugar do mundo, já que todos os processos tecnológicos da companhia – a todo só sete – são interligados.

Entre as vantagens de con-

Baumann não deu detalhes, mas, apesar de recém-chegados, já existem conversas com a vizinha L'Oréal, também instalada no parque da UFRRJ, para desenvolver produtos em conjunto, aproveitando possivelmente ingredientes da cadeia cervejeira para uso cosmético.

Inaugurado em 2003, o Parque Tecnológico da Universidade Federal do Rio de Janeiro chegou a ser conhecido como o berço da tecnologia do setor petrolífero. Aos poucos, porém, foi se diversificando e hoje abriga 63 instituições de várias áreas nos seus 302 mil metros quadrados



Pinto, da UFRJ, soluções robotizadas e automatizadas para águas profundas

4 | Boa Chance

EMPREENDEDOR

PAINEL DE OPORTUNIDADES

Novas residentes na incubadora da Coppe

A Incubadora de Empresas da COPPE/UFRJ recebeu cinco novas residentes este mês. As empresas selecionadas foram a Polen, *marketplace* online dedicado comercialização de resíduos e materiais secundários, como embalagens descartáveis após o consumo; a Eagle, empresa de análise gestão e liderança esportiva; a Rockare, que atua no setor de petróleo e gás fornecendo processamento e interpretação de dados petrofísicos e física digital de rochas com o objetivo de modernizar os procedimentos padrões da área de exploração produção da indústria de óleo e gás; a Hapiseeds, que utiliza tecnologia inovadora de engenharia genética para aumentar a produção de alimentos usando práticas menos prejudiciais ao meio ambiente; e a RioBotics, que atua no desenvolvimento de alta tecnologia, prestação de serviços e manutenção em robótica e sistemas autônomos. Com a chegada das novas empresas, a incubadora passa a ter 29 residentes. O novo edital já está aberto: <http://www.incubadora.coppe.ufrj.br>

14 | Rio



ANSELMO GOIS

Com Ana Cláudia Guimarães, Daniel Brunet e Tiago Rogero
globo.com.br/anselmo E-mail: cokuna.anselmogois@coppe.com.br Foto: F

A palavra é...

A Twist, startup do Parque Tecnológico da UFRJ, desenvolveu uma plataforma online, chamada Eleições Live, que observa quais palavras estão mais ligadas aos candidatos à presidência. A saber: Bolsonaro — "calou", "Deus" e "fim"; Haddad — "Lula", "ajude" e "verdade"; Ciro — "votem", "vote" e "único"; Cabo Daciolo — "Deus", "Fé" e "kkkk".

OS 70 ANOS DE CARREIRA DE NATHÁLIA

A grande atriz Nathália Timberg que se prepara para viver nos palcos a americana Iris Apfel, estilista e decoradora que é ícone da

Newsletter

In order to disseminate information about the activities that take place in the Park and in the Coppe/UFRJ Business Incubator, a bilingual Newsletter has been sent monthly since 2015 to 1,019 subscribers, a number that is 5% higher than in December 2017.

NOTÍCIAS DO PARQUE

A newsletter do Parque Tecnológico é uma publicação mensal que traz informações sobre as principais atividades desenvolvidas na Instituição e eventos de interesse.

RECONHECIMENTO

Parceria com empresas faz UFRJ liderar ranking das universidades mais inovadoras do Brasil

Parceria com empresas coloca UFRJ à frente em inovação

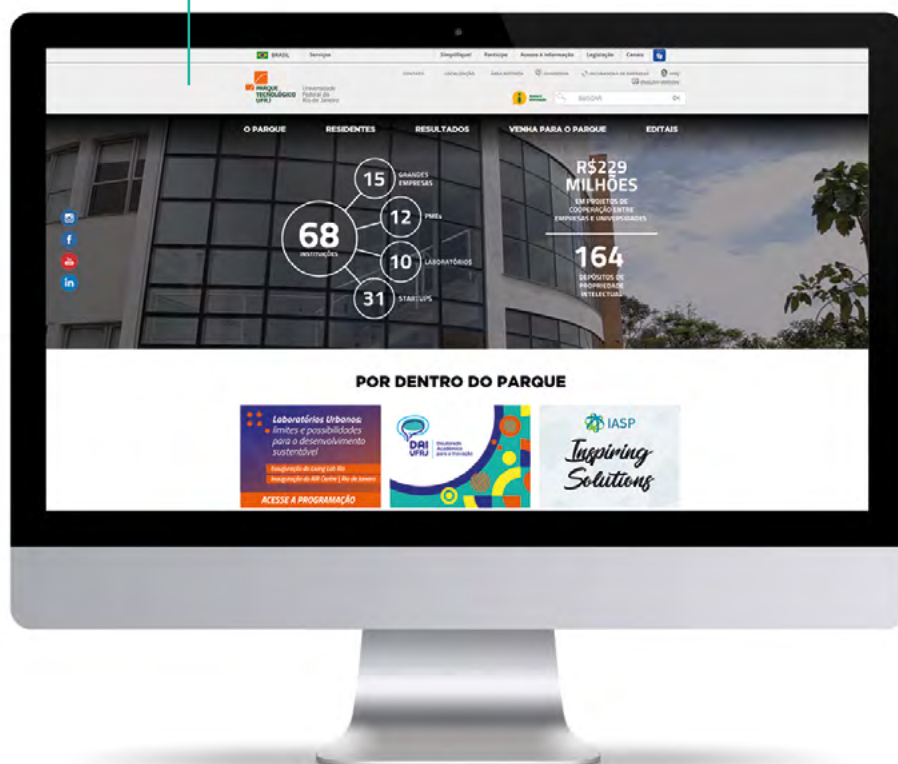
A UFRJ é a universidade brasileira mais inovadora do país, segundo o Ranking Universitário de Folha de S. Paulo (RUF), publicado esta semana. Foram avaliados dois quesitos: a quantidade de patentes pedidas em dez anos e as parcerias realizadas com o setor produtivo. A conquista foi alcançada graças a iniciativas como o Parque Tecnológico da UFRJ e a Incubadora de Empresas da Coppe, que promovem a interação entre empresas e universidade com o objetivo de transformar a pesquisa acadêmica em bens e serviços que beneficiem a sociedade. Saiba mais sobre o ranking no [site da Folha](http://site.daFolha).

Digital and social media

At the end of 2018, the UFRJ Science Park and COPPE's Business Incubator started implementing a strategy of action in the digital environment to increase their communication with the influencing public and to improve navigability in their networks, especially in their [institucional website](#).

Until December 31, the Park's Facebook page recorded **4,816** followers. In December 2017, it had 3,893 likes. The Incubator's Facebook page received **5,143** likes in the same period. The performances on LinkedIn and YouTube also had relevance, but on a smaller scale.

For the year 2019, a platform of contacts of digital influencers was hired to develop relationships with this audience in a qualified way. The idea is to increase our participation in digital media and to give disseminate information about the activities developed here.



“Criatividade é
a inteligência
se divertindo”

The Park and the future



Strategic Planning 2016-2045

In order to position the UFRJ Science Park at another level in terms of management, the Strategic Planning for 2016-2045 established an Implementation Agenda (2017-2020), composed of a portfolio of two strategic actions: (1) cooperation for innovation and (2) development of people; and eight strategic programs (2017- 2020), deployed in 24 projects, as illustrated in the following table:

Programs	Projects
I. New Portfolio of Services	1. Review of the portfolio of services that the Park offers
	2. Structuring new services of high added value
	3. Communication and advertisement for the portfolio of services
II. Park's expansion	4. Acting in physical and virtual spaces
	5. Elaboration of a branding strategy and plan of communication
	6. Expanding the Park to discontinuous spaces
III. + Companies	7. Searching new national and international companies
	8. Developing a cluster of companies in the health area
IV. Park's Sustainability	9. Review of the costs structure
	10. Searching new ways of fundraising
	11. Alternative plans for the use of the existing infrastructure
V. Parque Lab – Innovation and experimenting	12. Creation of HUB UFRJ
	13. Finalizing the Cube
	14. Structuring experiments for social and environmental solutions
VI. Wellbeing and leisure services	15. Identification and launching of convenience services
	16. Mobility services
	17. Urban interventions and promotion of cultural events
VII. Institutionalization and Governance	18. Institutionalizing the Park
	19. Incorporating the COPPE/UFRJ Business Incubator
	20. Corporate governance
VIII. Management Excellence	21. Review of processes
	22. Using instruments for monitoring the strategy and management of the Park
	23. Using instruments for monitoring and managing the planning of activities
	24. Structuring the center for monitoring and managing routines

In 2018, the goals focused on the structuring and implementation of the projects. In this context, 100% of the projects were initiated, as well as the strategic actions, thought of as cross-cutting and continuous elements during the duration of the Implementation Agenda.

For 2019, the project portfolio is expected to show an execution percentage above 75% at the end of the year.



National and International Partnerships

Following the final objective of “expanding the Park into discontinuous spaces and innovating in its relationship with the companies”, two important international partnerships were established in 2018. The first corresponds to the Eastern Oklahoma County Partnership (EOCP), whose mission is to stimulate the creation, promotion and maintenance of jobs and investments in Oklahoma, USA. The second, was the Air Centre, which is an organization based in the Azores, Portugal, the mission of which is to act as a network for scientific and technological cooperation for the development of policies, programs, and research projects in the context of the Atlantic Ocean, and to align national priorities to global challenges through joint efforts.



In both cases, we seek the insertion and consolidation of the international presence of the UFRJ Science Park in international research, development and innovation networks. More specifically, the agreements include actions related to the internationalization of technology-based companies (reception of foreign companies in Brazil and sending Brazilian companies abroad), the organization of events, training courses and other actions that make the relationship between organizations possible.

In the course of 2018, the first actions foreseen in the memoranda of understanding were initiated. With EOCP, the focus was on bringing American and Brazilian companies closer together. With the Air Centre, efforts focused on creating a socio-environmental experiment that will focus on Guanabara Bay. By means of a meteoceanographic observation platform developed with UFRJ technologies, researchers hope to create innovative solutions that can be staggered to other cities around the world.

For 2019, the goal is to intensify the cooperation efforts foreseen in the Memoranda of Understanding signed with these organizations, notably regarding the internationalization of companies and the development of socio-environmental experiments linked to Guanabara Bay.



The Cube

Positioned in a central area of the Science Park, the Architectural Design of the Cube space, inspired by the Rubik's Cube (toy that functions as a three-dimensional puzzle, invented by Hungarian Ernő Rubik), constitutes a set of buildings composed of a main building (18x18x18m) and 5 smaller attachments (6x6x6m) in cube format.

The Cube Space - External area
Source: Parque Tecnológico - UFRJ



The main building will have a total of 6 floors, hosting an auditorium, a gallery of Visual Arts and a Café-bistrô, in addition to the technical and circulation areas required for its operation. The view of the spaces between each floor guides the idea of intersection and flow between the environments. Within this design, the internal spaces should allow the implementation of technological solutions for the establishment of receptive and modern environments that promote communication between the various *stakeholders* of the Park.

The five attached cubes, called capsules of creativity and innovation, will serve as multi-purpose spaces for workshops, experiences, coworking and projects of artistic and technological nature.

The project to create the Cube Space was born in the year 2010, in the perspective of expanding the scope of operation of the UFRJ Science Park and enhancing its ecosystem of creativity and innovation in an integrated way to the university community and the population of Rio de Janeiro. The city of Rio de Janeiro, recognized for its cultural and creative vocation, stands out for its development potential associated with the sectors of the creative economy. The university plays a key role in this process as a locus of teaching, research and extension. The works were started in 2015 and in 2018 the construction works of the building advanced rapidly. The infrastructure and sewage stages are ready and the stages of completion are urbanization are about to begin. According to the updated schedule of the project, the opening will take place in the second half of 2019. All the programming and activities developed by the Cube will be planned and disseminated throughout 2019 .

In order to meet the growing demand for shared use of spaces in the Park, in addition to its cultural vocation, the Cube will be a multi-user building suitable for co-working and open innovation

activities. Thus, by sheltering companies from different sizes, working in a cooperative way in a creative, inspiring and integrated environment, it is expected that the Science Park will continue consolidating its presence in the Brazilian innovation ecosystem. **(GRI 102-48)**

Square

Increasing the integration of the community and generating a culture and leisure environment have always been among the Park's main concerns. In 2018, there was intense work to build the cube. In addition, the planning of the New Park Square began.

The New Park Square was a demand that arose in 2017 and 2018 consolidated the ideal architectural project that would match the budgetary planning of the Park. The Square will be a public space for decompression and well-being, so as to stimulate the conviviality in the external areas of the Park. The Square will host cultural and gastronomic events and its opening is planned for 2019.

Security

2018 was a year of hard work to ensure the safety of the Park's Community. New cameras were installed for the integrated monitoring of all areas of the Park, the restructuring of the monitoring center with the establishment of 24h monitoring and the intensification of patrols for the safety of the Park. These actions helped to make the control and monitoring of the Park areas more efficient and increase the feeling of security within the Park.



About the report





the coverage period of this report, based on GRI Standards, is from January 1 to December 31, 2018. (GRI 102-50)

this report has been prepared according to GRI Standards: Essential Option. (GRI 102-54)

(GRI 102-46)

This publication follows the principles of transparency and good practices of the UFRJ Science Park in terms of sustainability and presents the main highlights and indicators of economic, financial, social and environmental performance of the organization for the year 2018. Since 2015, the sustainability report has been published on a yearly basis **(GRI 102-52)**, the first being in the standard version, in the essential option³².

³² The last publication of the report (2017 Sustainability Report – covering the period from January 1 to December 31, 2017) took place in June 2018 **(GRI 102-51)**.

Sustainable Development Goals (SDGs)

In 2017, the UFRJ Science Park approved its Sustainability Policy in the Governing Council. It committed itself to sustainable development, to be in line with the international best practices of sustainability and to engage its stakeholders, by following the guidelines established in the United Nations 2030 agenda for Sustainable Development, through the Sustainable Development Goals – SDGs:



Since then, the Park has been proceeding with the alignment of its actions, projects and programs to the SDGs. In this report, we will see the icons of each SDG alongside the reporting of each action, project and program that we have developed and to which we intend to contribute. For 2020, we will begin to align the Park's strategy with the Sustainable Development Goals.

Reach

The information submitted relates mainly to the management of the UFRJ Science Park. Where possible, the results of the innovation environments that make up the Park have been included: Coppe/UFRJ Business Incubator, resident companies and Park Laboratories.

This report addressed the performance of the Park in the state of Rio de Janeiro, as well as in Brazil and internationally **(GRI 102-4)**.

Stakeholder Mapping

The mapping was carried out in 2016, when the Park was developing its Strategic Planning 2016-2045. This process was done by a consulting company with the support of the Park's staff. The prioritization process followed the guidelines of the GRI.

Once the stakeholders were mapped, their impact on the economic, social and environmental development of the Park was analyzed and identified as this group is influenced by our economic, social and environmental performance. The prominent audiences were engaged and consulted for the creation of the Park's material topics **(GRI 102-42)**.

(GRI 102-40, 102-42)

- ***Resident companies***
- ***UFRJ special laboratories in the Park***
- ***Governing Council***
- ***Coppe / UFRJ Business Incubator***
- ***Functional management of the Park***
- ***Service providers***
- ***COPPETEC Foundation***
- ***UFRJ Residential Village Residents Association (AMAVILA)***
- *Rector*
- *Pro-Rectors*
- *Academic units*
- *Undergraduate studies*
- *Postgraduate studies*
- *Civil society*
- *Embassies*
- *NGOs and Foundations*
- *Affiliations*
- *Other ICTs*
- *R&D centers*
- *Funding and promotion agencies*
- *Class representations*
- *Investors*
- *Municipal Government*
- *State Government*
- *Federal Government*

Engagement and consultation

(GRI 102-43, 102-44)

The public interests of the Park were involved according to the following scheme:



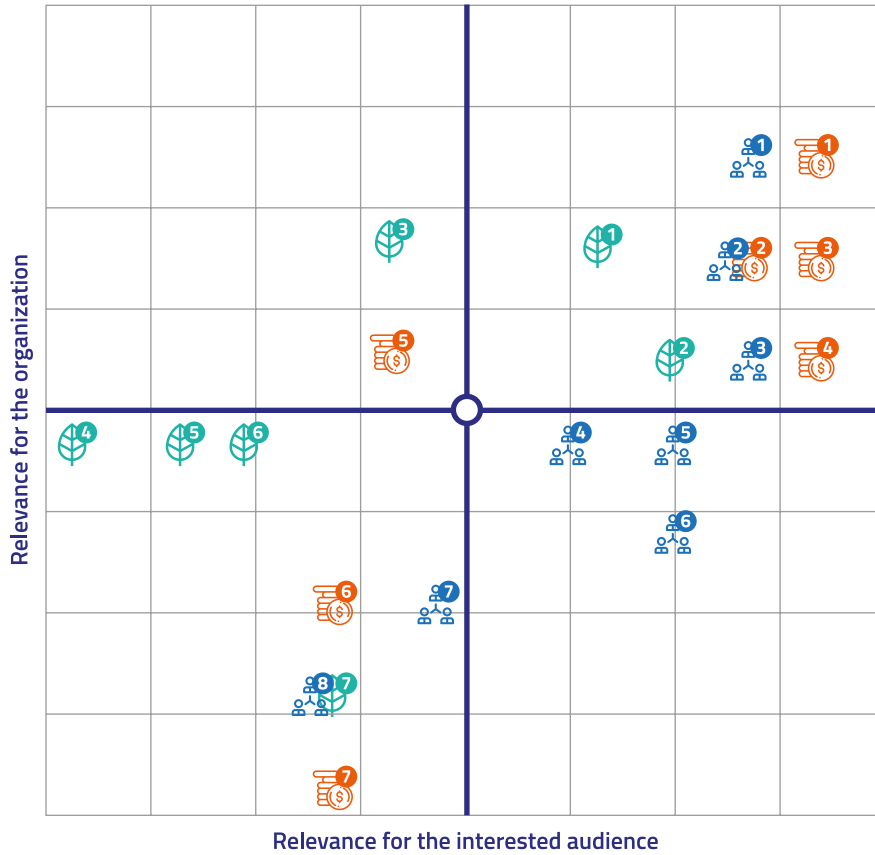


In 2017 and 2018, the resident companies and the functional management of the Park administration were the engaged stakeholders. Both received feedback about the Park's material sustainability topics and considered that their concerns for environmental, social and economic impacts are still compatible with the prioritized material topics.

For the definition of the topics, the "principles for defining the content of the report" were considered, i.e. context of sustainability, materiality, completeness and inclusion of relevant audiences.

Materiality Matrix (GRI 102-47)

The results obtained in the process of engaging and consulting with the Park's stakeholders, reflecting significant economic, environmental and social impacts inside and outside the organization are demonstrated in the Materiality Matrix below.



 **SOCIAL**

- 1 Employment (hiring, turnover, benefits)
- 2 Quality of life in the Park
- 3 Engagement of people
- 4 Relationship with the surrounding
- 5 Training and career
- 6 Integration events of the Park's community
- 7 Cultural diversity
- 8 Complaint mechanisms related to the Park's operation

 **ECONOMIC**

- 1 Business-University integration
- 2 Diversity of economic sectors and size of companies
- 3 Transparency and integrity
- 4 Interaction between companies of various sizes
- 5 Investment in local infrastructure
- 6 Park's Logistics
- 7 Sales Practices

 **ENVIRONMENTAL**

- 1 Disposal of effluent and waste
- 2 Mobility
- 3 Energy use
- 4 Greenhouse gas emissions
- 5 Biodiversity
- 6 Impacts of the Park's services on the environment
- 7 Water use

All nine prioritized topics were presented and validated by the Park's Board of Directors and guided the elaboration of this report.

-  Business-University integration
-  Employment
-  Transparency and integrity
-  Quality of life in the Park
-  Diversity of economic sectors and size of companies
-  Interaction between companies of various sizes
-  Engagement of people
-  Mobility
-  Disposal of effluent and waste



Report limits (GRI 102-46)

Sustainability categories	Materiality	Limits	
		Direct control of the Park	Indirect control of the Park
Economic	Business-University integration	x	
	Transparency and integrity	x	
	Diversity of economic sectors and size of companies	x	
	Interaction between companies of various sizes	x	
Social	Employment	x	x
	Quality of life in the Park	x	
	Engagement of people	x	x
Environmental	Disposal of effluent and waste	x	x
	Mobility	x	

There was no significant change in relation to the periods covered by previous reports with regard to the Scope and Limits of aspects (GRI 102-49). More information or questions regarding the content of this report can be e-mailed to the address sustentabilidade@parque.ufrj.br (GRI 102-53).



PARQUE TECNOLÓGICO  UFRJ

Material Theme Table



Material theme list - GRI 102-47			Limits - GRI 102-46 and 103-1	
Material theme	GRI aspects	Indicators reported	Main audiences impacted and suggested audience	Material aspect inside / outside the organization
Business-University integration	***	Specific indicators	Resident companies; UFRJ special laboratories in the Park; Board of Directors; COPPE Business Incubator; UFRJ laboratories and UFRJ as a whole.	Inside and outside the organization
Transparency and integrity	***	Specific indicators	All relevant publics in the Park	Inside and outside the organization
Diversity of economic sectors and size of companies	***	Specific indicators	Resident companies; UFRJ special laboratories in the Park; Board of Directors; COPPE Business Incubator; UFRJ laboratories and UFRJ as a whole.	Inside and outside the organization
Interaction between companies of various sizes	***	Specific indicators	Resident companies; UFRJ special laboratories in the Park; Board of Directors; COPPE Business Incubator; UFRJ laboratories and UFRJ as a whole.	Inside and outside the organization
Employment	Employment; Training and Education	GRI 401-1, 404-1	Functional management of the Park	Within the organization
Quality of life in the Park	***	Specific indicators	Functional management of the Park; resident companies; UFRJ special laboratories in the Park; COPPE Business Incubator; UFRJ and UFRJ laboratories as a whole.	Inside and outside the organization
Engagement of people	***	Specific indicators	Functional management of the Park; resident companies; UFRJ special laboratories in the Park; COPPE Business Incubator; UFRJ and UFRJ laboratories as a whole.	Inside and outside the organization
Disposal of effluent and waste	Effluents and waste	GRI 306-2	Resident companies; UFRJ special laboratories in the Park; functional management of the Park	Within the organization
Mobility	***	Specific indicators	Resident companies; UFRJ special laboratories in the Park; functional management of the Park; COPPE Business Incubator; UFRJ laboratories and UFRJ as a whole.	Inside and outside the organization

GRI Summary (GRI 102-55)

GRI patterns	Item	Page	Omission
GRI 101: Reasons			
GRI 102: General disclosure	Organization profile		
	102-1 Organization's name	11	
	102-2 Main activities, brands, products and services	22-25	
	102-3 Location of the organization's headquarters	20	
	102-4 Location of operations	131	
	102-5 Shareholder control and legal form of the organization	20	
	102-6 Markets in which the organization operates	22-28	
	102-7 Organization's role	33	
	102-8 Information on employees and other workers	33-37	
	102-9 Organization supply chain	105; 107	
	102-10 Significant changes occurring in the organization or in its supply chain	105; 107	
	102-11 Precautionary approach or principle	58	
	102-12 Externally developed initiatives	Does not apply	The Park does not follow any charter, principle or other initiatives developed externally. However (write about the alignment of the Park on the ODS)
	102-13 Participation in associations	111	
	Strategy		
	102-14 Statement by the president	8-13	
	Ethics and integrity		
	102-16 Values, principles, standards and behavior	67-69	



GRI patterns	Item	Page	Omission
	Governance		
	102-18 Governance structure	29-31	
	Stakeholder engagement		
	102-40 List of stakeholder groups	131	
	102-41 Collective bargaining agreements	Does not apply	The employees working relationships in the Park are not backed by collective bargaining.
	102-42 Identification and selection of stakeholders	131	
	102-43 The organization's approach to involve stakeholders	132-133	
	102-44 Main topics and concerns raised	132-133	
	102-45 Entities included in the consolidated financial statements	Does not apply	The Park has no legal personality and its financial administration is carried out through a Support Foundation accredited to the UFRJ.
	102-46 Definition of the content of the report and limits of material themes	129-136; 139	
	102-47 List of material themes	133-136; 139	
	102-48 Recasting of information	126	
	102-49 Modifications to the report	136	
	102-50 Report period	129	
	102-51 Date of most recent report	129	
	102-52 Reporting cycle	129	
	102-53 Contact for questions about the report	136	
	102-54 Report approach according to the GRI Standards	129	
	102-55 GRI content summary	140-145	
	102-56 External assurance	Does not apply	No external verification of this report was made

GRI patterns	Item	Page	Omission
Material themes			
Business-University integration			
GRI 103	103-1 Explanation of materiality and its limit	79-85; 139	
	103-2 Management approach and its components	Does not apply	The Park does not have a specific policy to manage the theme specifically. However, the Park's strategic planning for the 2016-2045 determines its vision for 2045 and the objectives to be achieved by 2020.
	103-3 Evaluation of the management approach	Does not apply	The Park is building the tools for assessing effectiveness and the results of its management.
Quality of life in the Park			
GRI 103	103-1 Explanation of materiality and its limit	38-53	To see in detail the integrity and transparency policy of the COPPETEC Foundation, please access the foundation's website through the link: http://www.coppetec.coppe.ufrj.br/site/documentos/politica_integridade_2017.pdf
	103-2 Management approach and its components	38-53	
	103-3 Evaluation of the management approach	38-53	
Diversity of economic sectors and size of companies			
GRI 103	103-1 Explanation of materiality and its limit	95-103; 139	
	103-2 Management approach and its components	Does not apply	The Park does not have a specific policy to manage the theme specifically. However, the Park's strategic planning for the 2016-2045 determines its vision for 2045 and the objectives to be achieved by 2020.
	103-3 Evaluation of the management approach	Does not apply	The Park does not have a specific policy to manage the theme specifically. However, the Park's strategic planning for the 2016-2045 determines its vision for 2045 and the objectives to be achieved by 2020.

GRI patterns	Item	Page	Omission
Interaction between companies of various sizes			
GRI 103	103-1 Explanation of materiality and its limit	88-95; 139	
	103-2 Management approach and its components	Does not apply	The Park does not have a specific policy to manage the theme specifically. However, the Park's strategic planning for the 2016-2045 determines its vision for 2045 and the objectives to be achieved by 2020.
	103-3 Evaluation of the management approach	Does not apply	The Park does not have a specific policy to manage the theme specifically. However, the Park's strategic planning for the 2016-2045 determines its vision for 2045 and the objectives to be achieved by 2020.
Engagement of people			
GRI 103	103-1 Explanation of materiality and its limit	38-53; 139	
	103-2 Management approach and its components	38-53	
	103-3 Evaluation of the management approach	38-53	
Mobility			
GRI 103	103-1 Explanation of materiality and its limit	52-53; 139	
	103-2 Management approach and its components	Does not apply	The Park doesn't have a mobility policy. But it has actions that account for the theme.
	103-3 Evaluation of the management approach	Does not apply	The Park doesn't have a mobility policy. But it has actions that account for the theme.

GRI patterns	Item	Page	Omission
Series 200 (economic topics)			
Transparency and integrity			
GRI 103: management approach	103-1 Explanation of materiality and its limit	75-77; 147	
	103-2 Management approach and its components	Does not apply	The Science Park does not have its own ethics and integrity policy. However, it follows the Policy of Integrity and Transparency followed by the Foundation for the Coordination of Projects, Research and Technological Studies – COPPETEC, because the financial and operational management of the Park receives the support of the Foundation.
	103-3 Evaluation of the management approach	Does not apply	The Science Park does not have its own ethics and integrity policy. However, it follows the Policy of Integrity and Transparency followed by the Foundation for the Coordination of Projects, Research and Technological Studies – COPPETEC, because the financial and operational management of the Park receives the support of the Foundation.
Desempenho Econômico			
GRI 103: management approach	103-1 Explanation of materiality and its limit	62-64	
	103-2 Management approach and its components	Does not apply	The financial management of the Science Park comprises a set of administrative actions and procedures that aim to maximize the economic and financial results of the organization. The management is a responsibility of the COPPETEC Foundation, which acts as a managing body, in accordance with the provision of Law No. 8.958/94, which regulates the activities of such institutions.
	103-3 Evaluation of the management approach	Does not apply	The financial management of the Science Park comprises a set of administrative actions and procedures that aim to maximize the economic and financial results of the organization. The management is a responsibility of the COPPETEC Foundation, which acts as a managing body, in accordance with the provision of Law No. 8.958/94, which regulates the activities of such institutions.
	201-1 Direct economic value generated and distributed	56-57 (Financial management)	

GRI patterns	Item	Page	Omission
Series 300 (environmental topics)			
Effluents and wastes (disposal of waste and effluents)			
GRI 103: management approach	103-1 Explanation of materiality and its limit	64-67; 139	
	103-2 Management approach and its components	64-67	
	103-3 Evaluation of the management approach	64-67	
GRI 306: effluents and waste	306-2 Total weight of waste broken down by type and method of disposal	64-67	
400 series (social topics)			
Employment			
GRI 103: management approach	103-1 Explanation of materiality and its limit	31-33; 139	
	103-2 Management approach and its components	31-33	
	103-3 Evaluation of the management approach	31-33	
GRI 401: employment	401-1 New employee hiring and employee turnover	35-36	
	103-1 Explanation of materiality and its limit	31-33	
GRI 103: management approach	103-2 Management approach and its components	não procede	The Park doesn't have a people management policy. However, in 2018, we started the construction of a Continuous Policy of People Development that is not yet finished and it is yet to be implemented.
	103-3 Evaluation of the management approach	não procede	The Park doesn't have a people management policy. However, in 2018, we started the construction of a Continuous Policy of People Development that is not yet finished and it is yet to be implemented.
GRI 404: training and education	404-1 Average hours of training per year per employee	40; 139	

The Park's Team

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Technical Records

UFRJ Science Park Sustainability Report - 2018

1st edition

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**This report was based on non-confidential information provided by all functional managers and companies of the UFRJ Science Park.*

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MCTIC - Ministry of Science, Technology, Innovations and Communications.

State government of Rio de Janeiro

City government of Rio de Janeiro

FINEP - studies and projects financial supporter

SEBRAE - Brazilian support service for micro and small companies

FAPERJ - Carlos Chagas Filho Foundation for research support in Rio de Janeiro

Rio Negócios - Agency for the promotion of investments in Rio de Janeiro

ANPROTEC - Brazilian Association of Science Parks and Business Incubators

ANPEI - National Association for research and development of innovative companies

IASP - International Association of Science Parks and Areas of Innovation

TecnoPUC - Science and Technology Park of PUC-RS

Digital Port - Science Park

TusPark - Tsinghua University Science Park

Telefônica

FIRJAN - Federation of industries of the state of Rio de Janeiro



