

ENRICH MONTHLY

MONTHLY BUSINESS & INNOVATION NEWS COMPILED BY ENRICH IN BRAZIL



Dear Reader,

a warm welcome and thank you for your time and interest in our **Special Edition** of ENRICH Monthly in May 2020.

It has been several months since the outbreak of the novel virus COVID-19. Since then, our world community has gone through several phases. Research and development of drugs, tests and high-tech solutions has since successfully proliferated. Currently, numerous organizations and individuals around the globe have developed various products and services that are already helping our society during this hardship.

In this context, in this edition of our monthly newsletter we would like to **exclusively present** how our **ENRICH Community** is **fighting** the virus COVID-19. Our Community Members initiate **various actions** to curb and prevent the virus but also to **provide solutions and tackle problems** that resulted due to the pandemic.

We thank you and wish you to stay safe and healthy,
ENRICH in Brazil Team

Read the latest news on Brazil-Europe and click on the name of ENRICH Network Members to find out how they are fighting the COVID-19:

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- MAP OF ENRICH IN BRAZIL'S NETWORK
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- UNICAMP



Latest news from Brazil and Europe, on Bilateral Cooperation and Research, Development, Innovation and Entrepreneurship

Brazil and European Union to Cooperate in Projects to Combat COVID-19

Researchers from Brazil and the European Union (EU) will start working together on projects related to combating the Covid-19 pandemic. The cooperation is the result of the Brazil-European Union (EU) Sector Dialogue "Fostering Twinning Activities in Science, Technology and Innovation". Link [here](#).

MCTIC sets priorities for the period from 2020 to 2023

The Ministry of Science, Technology, Innovations and Communications (MCTIC) published in March 2020 an ordinance in which it defines its priorities for the period from 2020 to 2023. It covers research, development and innovation projects in five technology areas.... Link [here](#).

JPI Urban Europe's Europe Towards Positive Energy Districts (PED) Booklet has been published.

PED Programme aims to support the planning, deployment and replication of 100 'Positive Energy Districts' across Europe by 2025 for urban transition and sustainable urbanisation. ENRICH in Brazil will organize Webinars in 2020 on Urban development related topics including Urban Living Labs as well as PED Programme. Link to the booklet is [here](#).

Coronavirus: Commission Boosts Urgently Needed Research and Innovation with Additional EUR 122 Million

EU Commission has launched a new call for expressions of interest in health-related approaches to combating COVID-19. The deadline for submissions is **June 11, 2020**. A total of EUR 122 million will be made available for this call in Horizon 2020. Link [here](#).

205 Brazilian Organisations Participated in H2020 – Success rate over 19%

According to the March 2020 data of the European Commission, 205 Brazilian organizations participate in 133 H2020 Projects and receive 16,2 million Euro contribution from the EU. The success rate accounts for 19,4%, which is above the European average...

Link [here](#).

OECD published a Study "SME and Entrepreneurship Policy in Brazil 2020"

This publication presents the findings of the OECD review of SME and entrepreneurship policy in Brazil. SMEs play an important role for economic growth and social inclusion in Brazil, accounting for 62% of total employment and 50% of national value added. However, productivity gaps between SMEs and large companies are wider in Brazil than in the OECD area.... Link [here](#).

ENRICH in Brazil vs COVID-19: How ENRICH in Brazil's Network Members are Fighting the Coronavirus

In this edition of our monthly newsletter, we present all COVID-19 related actions our Network organisations are carrying out.

ENRICH in Brazil consists of Founding Members, Associates, Soft Landing Hubs and Project Partners.

The map below shows the Members of our growing ENRICH Community, their locations and relationship types.

On the following pages, we provide a short description of each of our ENRICH Network Members and the actions, initiatives and projects related to COVID-19 they are carrying out.

Moreover, on our [website](#) you can find the latest news on the novel virus from European Union and Brazil.





ANPEI: National Association for Research and Development of Innovative Companies

Brazil

ANPEI is the only Brazilian multisectoral and independent association with the mission of stimulating innovation in companies as a strategic factor for companies' competitiveness and productivity and for the country's economic, industrial, scientific and technological policy. ANPEI enables collaborative and cooperative environments with the ecosystem and its associates. It provides updates on key topics and articulation of policies to encourage innovation and high-level discussions, in addition to institutional representativeness and personalized training in the area.

ANPEI is a Founding Member of the ENRICH in Brazil Centre and Project Partner.

ANPEI IN THE FIGHT AGAINST COVID-19

In this very unique moment of global crisis initiated by the coronavirus pandemic, the importance of science, companies and innovation is increasingly evident. ANPEI, as a representative of innovative companies in Brazil, seeks to give visibility to the initiatives of its associates and professionals from companies that have saved lives - at the regional, national and global levels.

Below, you will find examples of how ANPEI associates have been moving in order to contribute in this moment of crisis - be it sharing knowledge, making donations, or even adapting entire industrial processes to provide the inputs that the Brazilian health system will need throughout this period. ANPEI's aim is to publicize the actions that are being taken and, thus, to encourage the emergence of new initiatives.

- **EMBRAER SA** is creating technologies against Covid-19 and producing components for pulmonary respirators. Click [here](#) for more information.
- **FLEURY SA** is developing a test against coronavirus. Click [here](#) for more information.
- **Institute of Molecular Biology of Paraná – IBMP**

delivering quality diagnostic kits that can be used for testing for fast results in an emergency. Click [here](#) for more information.

- **ROBERT BOSCH LTDA** is developing a rapid test for Covid-19. Click [here](#) for more information.
- **Fiep System** has provided 3D printers as a loan for making face masks to fight Covid-19. Click [here](#) for more information.
- **UNIVERSITY OF SÃO PAULO - AUSPIN USP Innovation Agency** mapped technologies used against Covid-19 Conducting molecular diagnostic tests. Click [here](#) for more information.
- **University of Vale do Rio dos Sinos (UNISINOS)** contributed in the production of face protection masks with 3D printers and launched a Hackaton Covid-19 Challenge Promotion. Click [here](#) for more information.
- **Sidia Institute Of Science And Technology** donated notebooks to the state government of Amazonas to aid in research with chloroquine Informational and didactic materials, such as the Service List and Delivery 2.0. Click [here](#) for more information.
- **SENAI DN** made available BRL 20 million for coronavirus projects. Click [here](#) for more information.
- **SENAI Regional Department of Rio Grande do Sul** provided an assistance in the maintenance of respirators. Click [here](#) for more information.
- **SEIP 7 Technology** produced facial protectors, using 3D printers for donation to hospitals in the region. Click [here](#) for more information.

These are only a few examples of how ANPEI associates are contributing in the fight against COVID-19. For more examples visit: <http://anpei.org.br/covid-19/>



BRASKEM

Brazil

Created in August 2002 by the integration of six companies from the Odebrecht Organization and the Mariani Group, Braskem is today the largest producer of thermoplastic resins in the Americas and the largest producer of polypropylene in the United States.

Its production is focused on polyethylene (PE), polypropylene (PP) and polyvinyl chloride (PVC) resins, in addition to basic chemical inputs such as ethylene, propene, butadiene, benzene, toluene, chlorine, soda and solvents, among others. Together, it makes up one of the most complete portfolios on the market, as it also includes green polyethylene, produced from 100% renewable sugarcane.

Braskem is an Associate of the ENRICH in Brazil Centre.

Braskem units are present in Brazil, the United States, Mexico and Germany, in addition to 16 regional offices in other countries, with the objective of developing partnerships and creating integrated solutions for the Client. 40 industrial units: 29 are installed in Brazil, in the states of Alagoas, Bahia, Rio de Janeiro, Rio Grande do Sul and São Paulo. Five are in the United States, two are in Germany and four in Mexico. Customers in more than 70 countries, on all continents.

Production capacity of Braskem is more than 16 million tons / year of thermoplastic resins and other chemical products.

Link: <https://www.braskem.com.br/>

BRASKEM IN THE FIGHT AGAINST COVID-19

Braskem joins partners to donate material to hospitals and communities to fight coronavirus. Company will donate thermoplastic resins to be transformed into 3 million masks to be donated.

- Donation of thermoplastic resins that allow the

production of hospital masks and aprons. More than 60 million masks or 1 million aprons can be produced

- Donation of basic food baskets for three months to more than 1,200 families working in recycling;
- 50 thousand families around its plants in Brazil will receive hygiene and cleaning products
- Support to the government of Alagoas in the implementation of a field hospital
- Supply of raw material for 3D printing in 8 research centers for the production of hospital protection masks.

Click [here](#) to read more.

Braskem opens an additional BRL 1 billion credit line for customers in the plastic, solvent and specialty chains. Braskem will make available to its customers in Brazil from April onwards a new expansion of credit lines. For all defaulting customers and with credit already approved, an additional line BRL 1 billion at the cost of 100% of the CDI can be used to purchase plastic resins (PE, PP, PVC), caustic soda, solvents and chemical specialties.

"We understand that this is an exceptional moment and not everyone is prepared. This measure is aimed mainly at customers with less credit capacity. This helps both those who are producing more with plastic products to combat the Covid-19 pandemic and those who are suffering from reduced demand", explains Edison Terra, vice president of Olefins and Polyolefins South America.

Available for a period of 60 days, each customer will be able to use this credit to purchase additional volumes, with greater flexibility in the billing periods of their orders.

Click [here](#) to read more.

CISB: Swedish-Brazilian Research and Innovation Centre

Sweden

CISB, Swedish-Brazilian Research and Innovation Centre is a private non-profit association that acts an international hub to promote dialogue and offer a prosperous collaboration environment between Sweden and Brazil.

CISB is an Associate of the ENRICH in Brazil Centre.

The centre's main objective is to identify and support project development initiatives that involve advanced technology that can deliver solution to different industry sectors, causing positive impact in society.

The centre wishes to create fertile ground to promote intense collaboration, leveraging and integrating what is best from all parts involved, which represent international companies, small and medium businesses, government, research institutes, and universities mainly in Sweden and Brazil.

For this end, it:

- Creates a neutral environment that stimulates collaboration
- Attracts ideas and projects that can be of interest to CISB's members
- Connects actors from the industry, academy and government both in Sweden and in Brazil
- Integrates different areas of knowledge through the organizing of conferences, workshops and other events
- Gives life to both multidisciplinary and interdisciplinarity in projects
- Provides support to the members in terms of intellectual property (IP) and finding funds for joint projects
- Manages research projects that involve several institutions
- Spreads knowledge

- Promotes exchange programs for innovation training to capacitate professionals in Brazil and Sweden.

Link: <http://www.cisb.org.br/>

CISB IN THE FIGHT AGAINST COVID-19

- **Collaborative Network of Projects and Manufacturing for IEP, Ventilators and Respirators - COVID-19.** The network was born from the need to accelerate the various initiatives of regional actors in the Brazilian Innovation Ecosystem, connecting volunteer professionals and their institutions in this joint effort of the technical-scientific and industrial innovation community. Click [here](#) to read more.
- **Promotion of Call CNPq-MCTIC-MS.** CNPq (Brazilian National Council for Scientific and Technological Development), MCTIC (Brazilian Ministry of Science, Technology, Innovation and Communication) and the Ministry of Health will allocate BRL 50 million for research on the coronavirus. The studies must be aligned with the following themes: Treatment, Vaccines, Diagnosis, Pathogenesis and Natural History of the Disease, Disease Burden, Health Care and Prevention and Control. Click [here](#) to read more.

For more information visit CISB's [webpage](#).



Brazilian National Confederation of Industry
THE FUTURE OF INDUSTRY

CNI: The Brazilian National Confederation of Industry

Brazil

The Brazilian National Confederation of Industry (CNI) is the official and highest-level organization representing Brazilian industry. CNI represents Brazil's 27 state-level federations of industries and 1,245 sectorial employer's unions. Since its founding, CNI discusses and puts forth suggestions to develop and improve public policies and laws that strengthen the productive sector and modernize the country.

In addition, CNI advances research, innovation, and technological development of the national industry. Furthermore, it supports initiatives that seek to improve the standing, social status, and training of workers around the country.

CNI is a Project Partner of the ENRICH in Brazil Project.

CNI directly administers the following organizations:

- The Social Service of Industry (SESI): promotes the quality of life of workers and their dependents, focusing on education, health and leisure, and stimulating the socially responsible management of the industrial business.
- The Euvaldo Lodi Institute (IEL): prepares Brazilian companies for a highly competitive environment, offering solutions in corporate management, business education, and career development.
- The National Service of Industrial Training (SENAI): renowned as a model of professional education and known for the quality of its technological services that promote innovation in the Brazilian industry. As well as professional education centres, SENAI currently operates a network with 60 SENAI Technology Institutes (ISTs) and 30 SENAI Innovation Institutes (ISIs) across the country.

CNI IN THE FIGHT AGAINST COVID-19

I. Innovation Call for the Industry - Mission Against COVID-19

On March 26th, the National Service of Industrial Training (SENAI), along with the Brazilian Company for Research and Industrial Innovation (EMBRAPII) and the Brazilian Industrial Development Agency (ABDI)

launched a public call for proposals to prevent, diagnose and treat COVID-19.

The total amount of support was BRL 20 million for the development of projects focusing on increase the number of ventilators for coronavirus patients; development of virus detection tests and personal protective equipment (PPE) that can replace masks, gloves and alcohol gel; replacement of components used in intensive care units (ICUs), among others.

Solutions could reach BRL 2 million and should be applied immediately, taking effect in 40 days. Registrations ended on March 30th.

SENAI and the Social Service of Industry (SESI) had already launched a first call on March 18, in which six projects were selected to receive BRL 10 million.

II. The + Ventilators Maintenance Initiative

The + Ventilators Maintenance Initiative is a voluntary network to maintain mechanical ventilators that are unusable to help in the treatment of patients with COVID-19. This voluntary network has 39 maintenance points, serving the entire Brazilian territory. They have already received more than 2,200 ventilators and over 530 have already been delivered in perfect operation.

The voluntary network is formed by the National Service for Industrial Learning (SENAI), ArcelorMittal, BMW Group, Fiat Chrysler Automobiles (FCA), Ford, General Motors, Honda, Hyundai Motor Brasil, Institute for Technological Research (IPT) and the Engineering School of the University of São Paulo (POLI-USP), Jaguar Land Rover, Mercedes-Benz do Brasil, Moto Honda, Renault, Scania, Toyota, Troller, Usiminas, Vale, Volkswagen do Brasil and Volvo do Brasil.

The initiative is supported by the Ministry of Health, the Ministry of Economy, the Ministry of Defense, the Brazilian Agency for Industrial Development (ABDI) and ABEClin.

More information at: <http://www.senai.br/respiradores>



III. The + Ventilators Initiative

The SENAI + Ventilators Initiative seeks to expand the supply of pulmonary ventilators in hospitals in Brazil. This initiative operates on three fronts: import of equipment, expansion of national production, adaptation of similar and low-cost products.

With the articulation of the Industry Federation of Santa Catarina (FIESC) and the Santa Catarina Medical Association (ACM), the WEG company, a multinational of electrical equipment based in Jaraguá do Sul (SC), signed a technology transfer agreement with Leistung Equipments, a manufacturer of medical and hospital equipment, to produce artificial ventilators.

FIESC and ACM also signed a contract to import 200 ventilators for the national health system, in partnership with the government of Santa Catarina and Intelbras, a manufacturer of products and solutions in security, networks and telecommunications.

In Amazonas, SENAI developed a prototype pneumatic ventilator as an alternative to models used in hospitals. It consists of a valve system, with oxygen inlets, and can work in a non-invasive (with mask) or invasive (using a breathing tube).

SENAI is also working to develop similar and low-cost products that help to supply the lack of pulmonary ventilators. The Innovation Call for the Industry is financing a project by the company Aredes Hospital Equipments, with support from the SENAI Innovation Institute in Manufacturing Systems, which will adapt veterinary ventilators for human use.

Simplified version equipment could be used by patients in the initial phase, preventing the disease from worsening. The ventilator will be designed, manufactured and tested in the SENAI network. After approval by the Brazilian Health Regulatory Agency (Anvisa), the expectation is to produce 1,000 units per month.

Link:
<https://www.portaldaindustria.com.br/canais/industria-contracovid-19/>

IV. The + Prevention Initiative

Through the + Prevention Initiative, SENAI works to expand the creation of personal protective equipment

(PPE) needed in the fight against COVID-19, such as surgical masks and gloves, hospital aprons, face shields and alcohol gel.

The actions range from the production of these items at SENAI units or in partnership with other industries to the divulgation of technical specifications for the industrial production of hospital masks, aprons, and guidelines for making masks for domestic use.

Surgical masks, face shields, gloves, aprons, and antiseptic products - such as 70% alcohol gel - created at SENAI units or partner industries follow the recommendations of the Brazilian Health Regulatory Agency (Anvisa) and are donated to departments of health in 16 states for distribution to public and private hospitals.

Link:
<https://www.portaldaindustria.com.br/canais/industria-contracovid-19/>

V. The + Diagnosis Initiative

Through the + Diagnosis Initiative, SENAI works to expand the capacity to carry out tests to identify people infected by COVID-19. The actions range from the creation of rapid tests to the validation and implementation of more reliable control tests.

In Paraná, the SENAI Innovation Institute in Electrochemistry will support the Startup Hi Technologies in the production of a test that provides the result in just 10 minutes, with funding from the Innovation Call for the Industry. Up to 450,000 tests are expected to be delivered in up to three months.

In Bahia, the SENAI Innovation Institute in Advanced Health Systems will support the company MDI Medical Equipment Industry and Trade to develop RT-PCR tests, considered "gold standard" by the World Health Organization (WHO). With this exam, it is possible to identify, in real time, the presence of coronavirus in the material collected in the throat or nose. In the initial phase of the operation, the estimation is to produce 4,800 monthly tests, with the possibility of expanding capacity by up to 70%.

Link:
<https://www.portaldaindustria.com.br/canais/industria-contracovid-19/>



Brazil

CONFAP: The Brazilian National Council of State Funding Agencies

The National Council of State Funding Agencies (CONFAP) is a non-profit organization, whose objective is to promote a better articulation of the interests of state agencies that promote scientific, technological and innovation research in Brazil. Created on April 28, 2006, it brings together 26 Research Support Foundations (FAPs), and works as an active part of the National System of Science, Technology and Innovation. The FAPs provide regional funding lines and that applies also to funding related to COVID-19. The most well-known FAPs are e.g.: [FAPESP Sao Paulo](#), [Brasília FAPDF](#), [Minas Gerais FAPMG](#), [FAPESC Santa Catarina](#), [Rio Grande de Sul FAPERGS](#).

CONFAP is a Project Partner of the ENRICH in Brazil Project.

With the premise of science, technology and innovation as strategic factors indispensable to the national economic and social development, CONFAP acts in the defense of the autonomy of state foundations and entities that support research and in the defense of regularity and the effective financial execution of transfers of appropriations. for FAPs. This articulation seeks to respect and defend the diversity of local and regional policies of the States and the Federal District, as well as the decentralization, integration and articulation of the National System of Science, Technology and Innovation.

CONFAP also seeks to stimulate the generation of knowledge and technological innovation and to encourage the expansion of regular partnerships between the FAPs with national and international agencies to promote and encourage the development of ST&I, as well as partnerships with the business sector.

CONFAP has several cooperation agreements with the European Union. The Implementing Arrangement between the European Commission and the CONFAP to provide research opportunities in Europe for Brazilian researchers, for instance, was signed on the 13th of October 2016. The Administrative Arrangement between the Directorate-General for Research and Innovation of the European Commission (DG RTD), on

the one side, and the Brazilian National Council for Scientific and Technological Development (CNPq), the Brazilian Funding Agency for Studies (FINEP) and CONFAP, on the other side, on the mechanisms to support EU-Brazil cooperation in research and innovation activities, was signed on the 22nd of May 2018.

Link: <https://confap.org.br/en>

CONFAP IN THE FIGHT AGAINST COVID-19

On May 22nd, scientists and authorities met in an online conference to reinforce scientific cooperation between Brazil and the European Union. The conference brought together scientists and Brazilian and European authorities who are developing ST&I policies and research through the close bilateral relationship between the parties, with emphasis on research that is looking for solutions to combat COVID-19, and for the areas of Energy, Agriculture and Environment.

In his speech, Fábio Guedes - president of Confap and Fapeal - pointed out that the Confap agreement with the European Research Council (ERC) provides better opportunities for collaboration between Brazilian and European researchers, and that recently the partnership has made it possible to launch an edict aimed at combating Covid -19, focused on seeking new forms of diagnosis and new drugs.

Projects focused on Covid-19, aimed at Diagnostics, Therapeutics and Vaccines were presented by the researchers: Ana Paula Fernandes - Federal University of Minas Gerais (UFMG); Anna Odone - Università Vita-Salute San Raffaele (Italy); Esper Georges Kallás - University of São Paulo (USP); Benjamin Murrell - Karolinska Institutet (Sweden); Jorge Elias Kalil Filho - University of São Paulo (USP) and Matti Sällberg - Karolinska Institutet (Sweden). Click [here](#) for more information.

Moreover, on May 20th, Fábio Guedes represented the Scientific Committee of the Northeast (C4NE) in an audience of the Federal Chamber of Deputies on the COVID-19. Click [here](#) for more information.



GRAND-DUCHÉ DE LUXEMBOURG
Consulat Général hc à São Paulo

Consulate-General of Luxembourg

Luxembourg

The Honorary General Consulate of Luxembourg in São Paulo is an Associate of the ENRICH in Brazil Centre.

Diplomatic relations between Brazil and Luxembourg were established in 1911. Despite having a small territory and population, the partnership with Luxembourg is significant for Brazil – both for its important role in articulating positions within the European Union and for the presence of an important Portuguese-speaking community (about 16% of Luxembourg’s population is of Portuguese origin).

At the multilateral level, Brazil and Luxembourg hold close positions on issues such as human rights, self-determination of peoples, nonintervention, peaceful solutions to conflicts, cooperation and respect for decisions taken in international forums. The two countries cooperate in initiatives to eradicate terrorism and drug trafficking, combat nuclear proliferation, expansion and liberalization of international trade and reduction of protectionism.

In 2015, Luxembourg was the third largest investor in Brazil. Although modest, bilateral trade has experienced rapid growth. Trade reached USD 123 million in 2012, with USD 73 million in Brazilian exports. Luxembourg also represents a gateway to Brazilian products in other European markets. The ease of contact with the Luxembourg market represents an important advantage for Brazilian companies, which in the Grand Duchy can benefit from access to important decision-making centers.

Link: <http://consuladoluxemburgo.com.br/en/home-2/>

Mr. Jan Eichbaum, Luxembourg’s Consul General hc, has recently published an article on the effects of “crises, challenges, wars and convulsions” like the current pandemic that was caused by COVID-19. Such crises “trigger a circuit of synergies that induce us to seek new solutions”, says Eichbaum and adds that the virus has the most democratic nature affecting “young and old, famous and anonymous, Eastern and Western”, wealthy and poor. It does not discriminate.

Mr. Eichbaum suggests possible solutions that could positively contribute to the fight against the COVID-19. In one of his suggestions he advocates for ENRICH in Brazil, saying that “just as [world citizens] now have numerous global initiatives involving research institutes, laboratories, scientists, health researchers in search of forms of treatment and vaccines, [people around the globe] must do something similar by setting up a social inclusion task force through ENRICH, which is an ideal platform” to combat the virus and come out of the fight even stronger and more united than prior the pandemic. Read the full article by visiting the link: <https://bit.ly/2X7N688> (English)

or <https://bit.ly/36yGMcN> (Portuguese).



Germany

DLR: The German Aerospace Center

The German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR) is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport, security and digitalisation is integrated into national and international cooperative ventures. DLR is also responsible for the planning and implementation of Germany's space activities on behalf of the federal government.

DLR is a Project Partner of the ENRICH in Brazil Project.

DLR is also the umbrella organisation for one of Germany's largest project management agencies (DLR-PT), which has been providing an array of services to assist key decision-makers from government, science, industry and education for over 40 years. It develops practical strategies, manages funding programmes and projects, assists in dialogue processes and supports knowledge transfer and utilisation on behalf of its clients. A designated worldwide partner, DLR-PT opens up networking opportunities and encourages international collaboration. Here, it places a focus on interdisciplinarity, internationality and innovation. As part of DLR, the Project Management Agency is a key contributor to DLR's 'Science, Innovation and Education' field of operations.

DLR IN THE FIGHT AGAINST COVID-19

I. Funding announcement for research on COVID-19 in the wake of the Sars-CoV-2 outbreak

Funding will be provided for individual projects and, exceptionally, small research consortia (up to 3 partners). Funding will also be provided for individual projects by German applicants who wish to participate in international research consortia within the framework of the global research response to COVID-19 coordinated by the WHO. The funding covers a period of 18 months; the BMBF intends to share relevant data with international sponsors who are WHO-coordinated in GloPID-R. Funded projects must be application-oriented research and development: projects relying mainly on basic research are not

eligible for funding. Cooperation with thematically related R&D projects abroad is possible, although the international partner(s) must in principle have their own funding for their part(s) of the project. However, if cooperation with a foreign working group is necessary for the processing of an essential work package, personnel and material resources in the form of a subcontract are eligible for funding.

Deadline for submission: 11 May 2020

Link:

https://www.dlr.de/pt/Portaldata/45/Resources/Dokumente/GF/2020_03_02_Call_announcement_covid19.pdf

II. DLR retrofits 3D printer to produce medical protective equipment

The German Aerospace Center has successfully tested the conversion of its 3D printers. Where models for aerospace research are usually produced, medical protective equipment can be manufactured during the Coronavirus crisis.

The review was prompted by a request from the European Commission for assistance in the production of urgently needed medical equipment.

Link:

https://www.dlr.de/content/en/articles/news/2020/01/20200327_respiratory-masks-and-parts-for-respirators.html

III. DLR supplies Corona crisis teams with face shields

Due to the current lack of medical aids in the corona crisis, the German Aerospace Center (DLR) is using its laboratory capacity for the production of face shields. Where normally satellites are mounted, visors are now being created in 3D printers and by hand.

Links:

https://www.dlr.de/content/de/artikel/news/2020/02/20200420_dlr-versorgt-corona-krisenstab-bremen-mit-gesichtsschutzvisieren.html and https://www.dlr.de/content/de/artikel/news/2020/02/20200428_dlr-und-arena2036-drucken-gesichtsvisiere-gegen-troepfcheninfektion.html



Belgium

EBN: European Business and Innovation Centre Network

The European Business and Innovation Centre Network (EBN) gathers around 130 quality-certified EU|BICs (business and innovation centres) and 40 other organisations that support the development and growth of innovative entrepreneurs, startups and SMEs in the most effective, efficient and sustainable way.

EBN is a Project Partner of the ENRICH in Brazil Project.

EBN IN THE FIGHT AGAINST COVID-19

European Business and Innovation Centre Network (EBN) in collaboration with the European Business Angels Network (EBAN) has launched online fundraising e-pitches for EBN member companies working on concrete and innovative long-term solutions to tackle the spread of the virus.

I. “Mondays for Innovation - e-Pitch your COVID-19 Solution in front of investors”

The objective of this new initiative titled [“Mondays for Innovation - e-Pitch your COVID-19 Solution in front of investors”](#) is to provide opportunities for companies looking to raise pre-series-A / series-A funding to pitch their solutions. Selected companies will have a total of 5 minutes for their pitch, during which companies are expected to outline their solution but also delve into what they are looking for in terms of investments, partnerships, or distribution channels in other EU countries, etc. After each pitch, a dynamic 10 minutes Q&A session directly with investors takes place. It is a unique opportunity to pitch to interested investors, get in direct contact with them and raise substantial funding.

The e-Pitching is for companies operating in the following sectors:

- Infection Support Technologies and Materials (i.e. 3D printing of protection and respiratory materials).

- Medical (i.e. Medication; vaccines and medical diagnosis).
- Clever Teleworking (i.e. tools, applications or programmes developed to support professionals work from home).
- People/Population (i.e. population tracking apps, disease spread monitoring, self-diagnose mobile solutions, etc).

Link: <https://ebn.eu/mondays-for-innovation/>

II. “#EBNvsCOVID19 | EBN Members Fighting COVID-19”

EBN Members and EBN Members companies are fighting hard since the beginning of the pandemic to find solutions, readapting their business, providing free services, or making masks to protect citizens. The European Business and Innovation Centre Network (EBN) is calling under the initiative [“#EBNvsCOVID19 | EBN Members Fighting COVID-19”](#) to all EBN Members to share those solutions to give them international visibility. EU|BICs, business support organisations and incubators members of the EBN Family have proved in different occasions how important they are in their local and regional ecosystems. EBN wants to proudly showcase this, with all the initiative collected EBN is going to prepare an info digest.

To do this, EBN Members are asked to:

- Make a short video or a nice picture with your initiative
- Tweet or post to your followers on Twitter, Facebook, LinkedIn or Instagram
- Use the hashtag #EBNvsCOVID19 and tag EBN (@eubic or @eurobicnet)

To see what have been done so far visit the following EBN link: <http://ebnvsCOVID19.ebn.eu/>



Austria

FFG: The Austrian Research Promotion Agency

The Austrian Research Promotion Agency (FFG) is the National Agency to support industrial research, development, and innovation in Austria. The FFG is wholly owned by the Republic of Austria, represented by the Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation, and Technology (BMK) and the Federal Ministry for Digital and Economic Affairs (BMDW).

FFG is a Project Partner of the ENRICH in Brazil Project.

As national funding agency for applied research FFG operates a total national budget worth more than EUR 500 million. Around 40 national research promotion programmes enable quick access to research funding services for companies operating in all business sectors, including subsidiaries of foreign industrial groups but also for universities# research organizations and researchers.

All FFG activities aim to strengthen Austria as a research and innovation centre on the global market and thus help to ensure the long-term availability of high-quality jobs and maintain the prosperity of one of the world's wealthiest countries. These goals reflect the statutory purpose of the FFG: "The purpose of the FFG is to promote research, technology, development, and innovation for the benefit of Austria." FFG sees international cooperation as an integral part of its objectives and strategies to enhance the competitiveness of Austrian companies and R&D entities.

FFG offers:

- Access to the relevant Austrian RTI players, actors, and multipliers
- Broad knowledge in research promotion and funding activities
- Excellent expertise in European Programmes such as Horizon 2020
- Access to the respective networks, such as the Enterprise Europe Network (EEN, EUREKA, Eurostars-2, COSME). EEN and EUREKA are

international oriented networks to bolster market-oriented research and business cooperation

FFG IN THE FIGHT AGAINST COVID-19

I. Emergency Call-Austria

In the fight against the corona virus, the Austrian federal government is making a total of 26 million euros available for related research and innovation actions through "Emergency Call". The FFG is responsible to process the Emergency Call in a fast-track procedure. The accelerated process enables research activities to start as quickly as possible.

Funding is provided for R&D projects and clinical trials of Austrian companies, which focus on the topics ([see here](#)) related to the coronavirus and which can be implemented in a short period of time. Individual R&D projects can be supported in the areas of alternative and innovative, industrial manufacturing strategies in medically critical areas (e.g. protective clothing).

Links:

<https://www.ffg.at/ausschreibung/emergencycall-covid-19> and <https://www.ffg.at/corona-support>

Cooperation with scientific organizations such as universities and research organizations are encouraged. In order to facilitate this cooperation and given the urgency and the need for a quick action, FFG has compiled links and contact persons of scientific institutions or network organisations interested in offering their expertise and/or services to Austrian companies, which can be found on the FAQ page of the Call (German only).

II. EUREKA Call for solutions for COVID-19 Echo Period – Life without a vaccine

Austria is taking part in the multilateral tender of the EUREKA network - companies could submit market-related research projects to the FFG until May 15, 2020.



Research projects are expected to address the following areas: infection prevention and protection, sanitary engineering, diagnostics and tests as well as therapeutics, vaccines and medicines. Austria, Canada, Denmark, France, the Netherlands, Spain, South Africa and Turkey participates in the call. Only companies can submit proposals. However, collaboration with universities and research institutions is possible. At least two companies from two different countries must submit their market-oriented research project. Funding is provided in the respective country with national funds.

Link:

<https://www.eurekanetwork.org/content/multilateral-call-solutions-covid-19-echo-period>

III. Other Relevant Measures

- Separate hotlines are established for funding services, SMEs, Start-ups, Research Incentives, Internships.
- Advisory and information services for companies are focused on national and European emergency measures and programmes.
- Employees are mostly in the home office and well equipped with the necessary infrastructure, also for

virtual meetings etc. Thus, customer advice works by phone, electronically or via remote meeting.

- Funding continues 'remotely'. Funding decisions and disbursements are accelerated, where possible.
- The research premium (tax incentive) programme for companies is fully digital with no restrictions.
- Advisory and jury meetings are held digitally as planned. Electronic contract signing process is under preparation.
- Focus on the liquidity of the customers: Funding payments are transferred quickly.
- On-site inspections are carried out by sending documents or carried out remotely, if this is possible for the funding recipient.
- Call deadlines can be extended if necessary.
- Customer requests are processed with the greatest flexibility to extend the deadline, defer payback of loans, etc.
- Warnings related to loan payments, reports are suspended.

For more information about the FFG support actions visit (in German): <https://www.ffg.at/corona-support>

For information about the European-wide support measures visit (in German): <https://www.ffg.at/corona-support/europa>



Sistema Fiep



FIEP System

Brazil

The Fiep System is an institution composed of Fiep (Federation of Industries of the State of Paraná), Sesi (Social Service for Industry), Senai (National Service for Industrial Learning) and IEL (Euvaldo Lodi Institute).

It works in an integrated way, with solutions capable of improving the results of the industries, moving the economy, making dreams come true, employing and projecting Paraná in the international scenario.

FIEP is a Soft Landing Hub of the ENRICH in Brazil Centre.

The Fiep System strengthen the industry and thus contribute to Paraná's socioeconomic progress, by a strong performance in the areas of representation, education, innovation and technology, and worker safety and health.

The trajectory of the Fiep System begins in 1943 and is marked by important achievements and the pioneering spirit of innovative Paraná people that allowed industries to diversify their activities. With units throughout the state, it has brought excellent services and new horizons to entrepreneurs , evolving the agricultural economy in the region to produce steel and energy , expanding sectors such as fabrics, beverages, furniture, automotive, petrochemical, production goods, among others. others.

From the construction of a past with solid values, it was possible to establish a present of victories and structure a promising future for industries and Paraná.

FIEP SYSTEM IN THE FIGHT AGAINST THE COVID-19

Since the moment and that Covid-19 was declared a pandemic by the World Health Organization, the Fiep System actively acts to support industry and society in fighting the disease, either through strategic articulation with government, industries and unions, either with the technical contribution available in its lines of action.

- **Sesi in Paraná** produced and disseminated free booklets with information related to the new coronavirus, in addition to keeping its social networks updated daily with tips and news about the subject. It also provided a Health Center with

doctors and specialists to answer questions about Covid-19.

- **Senai in Paraná** operates through its Accelerators and Institutes of Technology and Innovation. The Accelerator **Sistema Fiep de Pato Branco**, for example, lent its 3D printer to the Municipal Health Department to manufacture facial masks for health professionals. **The Instituto Senai de Tecnologia em Metalmeccânica de Maringá**, on the other hand, following an initiative by Senai Nacional, will work on the maintenance of damaged mechanical respirators and out of operation to return them to hospitals in Paraná.
- **The Senai Institute of Innovation in Electrochemistry**, in Curitiba, will help the startup Hi Technologies to expand the availability of Hilab, an exam that diagnoses the new coronavirus in 10 minutes. The proposal is one of the first approved by the special call for tenders for Innovation for Industry, which supports projects linked to Covid-19. The Institute will provide researchers, infrastructure and financial support.
- Another accelerator of the **Fiep System**, FullDNA works with the identification of the genetic susceptibility index of each person to the new virus. With the test, people more sensitive to the disease can take more assertive protective measures.
- Since the beginning of the crisis caused by the pandemic of the new coronavirus / Covid-19, the **Fiep System** has been mobilizing to assist the industry of Paraná in this time of difficulties. In addition to guidelines on actions that can be taken by companies, the entity has been dialoguing with the public authorities to seek solutions that guarantee the sequence of essential industrial activities and minimize the impacts for the sector. Internally, it also adopted measures to preserve the health of its students, customers and employees.

Click [here](#) to read more or [here](#) to visit the webpage of the Fiep System.



FIOCRUZ: The Oswaldo Cruz Foundation

Brazil

The Oswaldo Cruz Foundation (Fiocruz) is attached to the Brazilian Ministry of Health and is one of the most prominent science and technology health institutions in Latin America. It is also considered as one of the world's main public health research institutions. Fiocruz promotes health and social development, generate and disseminate scientific and technological knowledge, be an agent of citizenship. These are the concepts that guide the actions of the Fiocruz, under the Ministry of Health, the most prominent institution of science and technology in health in Latin America. Fiocruz has historically maintained a strong international presence through cooperation and exchange with health and science and technology institutions in various countries. This work is coordinated by the Center for International Relations in Health (CRIS). International technical assistance has provided important support to the development of the Oswaldo Cruz Foundation over the years, first through a North-South relationship, relying on prospecting by specific researchers, and later with greater institutionalization and participation by organizations from partner countries and multilateral agencies.

Fiocruz is an Associate of the ENRICH in Brazil Centre.

FIOCRUZ IN THE FIGHT AGAINST COVID-19

The Laboratory for Respiratory and Measles Viruses of the Oswaldo Cruz Institute (IOC / Fiocruz) has been named a World Health Organization (WHO) Reference Laboratory for Covid-19 in the Americas. After the formalization of the agreement between WHO and Fiocruz, the unit starts to carry out confirmatory tests of the disease in the region, in addition to being part of the entity's network of laboratory specialists for Covid-19. Read more [here](#).

I. Fiocruz will be producing 11 million molecular tests

The Laboratory for Respiratory Viruses and Measles of the Oswaldo Cruz Institute (IOC/Fiocruz) has been nominated Reference Laboratory of the World Health

Organization (WHO) for Covid-19 in the Americas. After the formalization of the agreement between the WHO and Fiocruz, the unit will now begin making confirmatory tests for the disease in the region, and will also join the WHO network of laboratory specialists for Covid-19

Link: <https://portal.fiocruz.br/en/news/fiocruz-will-be-producing-11-million-molecular-tests>

II. Covid-19: Fiocruz shares experiences on The Global Health Network

With the aim of presenting innovative initiatives to respond to the pandemic, researchers from the Foundation participated in a virtual workshop with Portuguese speaking countries, organized by the Research Capacity Network (REDe) and the sharing knowledge base incorporated into the online platform The Global Health Network, from the University of Oxford. Alongside Jocelyne de Vasconcellos, from the National Institute of Health Research in Angola, and Wildo Araújo, professor at the University of Brasília (UnB), researchers Maurício Barreto, general coordinator of the “Center for Data and Knowledge Integration for Health” (Cidacs/Fiocruz Bahia), and Gustavo Matta, coordinator of the Social Impacts axis at the Fiocruz Covid-19 Observatory, exchanged experiences on how they are facing in Brazil the challenge imposed by Covid-19 for science. Gustavo Matta, who is also a researcher at the National School of Public Health (Ensp/Fiocruz), presented the main actions Fiocruz has been undertaking since before the arrival of the new coronavirus in Brazil. Some of the highlights are the production of diagnostic kits, the training of national and international laboratories for this diagnosis and the beginning of the construction of a 200-bed hospital center for critically ill patients, which will participate in the Solidarity clinical trial of the World Health Organization (WHO) to verify the effectiveness of treatment regimens for the disease.

Link: <https://portal.fiocruz.br/en/news/covid-19-fiocruz-shares-experiences-global-health-network>





III. Fiocruz investigates the action of anti-retrovirals against Covid-19

A Fiocruz research has observed that the drug Atazanavir, used against HIV, was able to inhibit viral replication and to reduce the production of proteins that are related to the inflammatory process in the lungs, and therefore to the worsening of the clinical symptoms of the disease. Specialists have also looked into the combined use of atazanavir and ritonavir, another drug used to fight HIV. The research, coordinated by the Center for Technological Development in Health (CDTS/Fiocruz), involves scientists of the Oswaldo Cruz Institute (IOC/Fiocruz) and Respiratory Viruses and Measles, Immunopharmacology, Molecular Biology, and Endemic Diseases, and the Laboratory of Research on Thymus, as well as the Evandro Chagas National Institute for Infectious Diseases (INI/Fiocruz), the Research Institute D’Or, and the Iguazu University.

Link: <https://portal.fiocruz.br/en/news/fiocruz-investigates-action-anti-retrovirals-against-covid-19>

IV. United against Covid-19

Fiocruz launched the program United against Covid-19, aimed at individuals and organizations interested in making their contribution at this time of health crisis. In addition to expanding Fiocruz’s actions in combating Covid-19 in this pandemic moment, the donations received will leave a great legacy for the whole of society. Unlike field hospitals, temporarily installed for actions in times of crisis, the modern Covid-19 Pandemic Hospital Center - National Institute of Infectology, in Rio de Janeiro, will be a permanent construction, which will combine cutting-edge equipment with dedicated professionals and highly specialized: a great victory for the Unified Health System (SUS). In the new Center, clinical studies will also be conducted in order to enable treatments and forms of prevention to Covid-19. Achievements that,

even in the long run, will continue to positively impact public health around the world.

Link: <https://unidos.fiocruz.br/#acoes>

Fiocruz launches a partnership program for actions against Covid-19 - More information [here](#).

Following are other examples of projects and initiatives taken by Fiocruz:

- **Fiocruz project for surveillance of the new coronavirus in sanitary sewers.** Researchers from the Oswaldo Cruz Foundation (Fiocruz), in partnership with the city of Niterói, in the state of Rio de Janeiro, started a study to check for the presence of genetic material from the new coronavirus (SARS-CoV-2) in sewage system samples of the city. The objective is to monitor the behavior of the spread of the virus throughout the Covid-19 pandemic. Click [here](#) for more information and for [here](#) for the results published.
- **Covid-19: projects help vulnerable populations in Ceará.** Fiocruz released the results of the projects approved by public call with a focus on emergency actions that help to stop the spread of Covid-19 in vulnerable populations or that guarantee minimum conditions of survival for families impacted by social distance. One of the projects approved in the Public Call is the popular Observatory of the impacts of the coronavirus on the traditional fishing communities of Ceará. The proposal seeks to ensure food security and the health of fishing families during the pandemic, with the distribution of food baskets, monitoring of impacts and coordination of health and social protection services, in addition to mapping cases in the community, among other actions. Click [here](#) to read about all approved proposals or [here](#) to see the list of these proposals.

The Fraunhofer-Gesellschaft, headquartered in Germany, is the world's leading applied research organization. With its focus on developing key technologies that are vital for the future and enabling the commercial exploitation of this work by business and industry, Fraunhofer plays a central role in the innovation process. As a pioneer and catalyst for groundbreaking developments and scientific excellence, Fraunhofer helps shape society now and in the future.

Founded in 1949, the Fraunhofer-Gesellschaft currently operates 74 institutes and research institutions throughout Germany. The majority of the organization's 28,000 employees are qualified scientists and engineers, who work with an annual research budget of 2.8 billion euros. Of this sum, 2.3 billion euros is generated through contract research. The Fraunhofer-Gesellschaft cooperates with legally independent Fraunhofer affiliates in Europe, North and South America and Singapore. Representative Offices and Senior Advisors worldwide form a bridge between the local markets and the Fraunhofer Institutes.

Fraunhofer is Europe's leading application-oriented research organization. Its research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by its researchers and developers has a significant impact on people's lives.

Fraunhofer Gesellschaft is a Founding Member and the Fraunhofer IPK is Project Coordinator of the ENRICH in Brazil Centre.

FRAUNHOFER IN THE FIGHT AGAINST COVID-19

Working at the forefront of the fight against the pandemic, Fraunhofer experts are supporting the efforts of industry and society to cope with the immediate effects and the consequences to come. Critical life sciences projects, our close collaboration with businesses, joint challenges with partners, direct and indirect medical support – Fraunhofer is reporting on all this and more in its special feature on the “Fraunhofer vs. Corona” campaign. The following are

only a few examples from various and numerous projects and actions initiated by Fraunhofer Gesellschaft:

I. Drug

CoroVacc – Development of a SARS-CoV-2 specific vaccine based on attenuated carrier viruses. In the anti-corona project "CoroVacc", the Fraunhofer Institutes IGB and IZI want to develop an attenuated SARS-CoV-2 specific vaccine virus, to this end, they combine the competencies in virus engineering (IGB) with vaccine development up to testing in animal models (IZI). Read more about the CoroVacc and about many other drug developments of Fraunhofer [here](#).

II. Diagnostic

The mobile Fraunhofer IBMT epidemiological laboratory (epiLab) in use for nationwide early detection and prevention of SARS-CoV-2 infections. The remarkable technological advance of the Fraunhofer Institute for Biomedical Engineering IBMT in the field of mobile epidemiological laboratories, as well as its long-time expertise in the setup of biological safety laboratories and its handling of biotechnological samples contributes in times of the Corona pandemic to the fight against SARS-CoV-2. Read more about the CoroVacc and about many other diagnostic developments of Fraunhofer [here](#).

III. Devices

3D printer makes emergency ventilator system with integrated electronics and sensors. Researchers at the Fraunhofer Institute for Machine Tools and Forming Technology IWU have developed a prototype for an emergency ventilator made by a 3D printer. Composed of biocompatible plastic, the device can be sterilized with steam. Its integrated electronics and sensors enable the operator to set and monitor this ventilation machine's key parameters. The device alerts clinical users in the event of a disruption. Tested under realistic conditions using a phantom lung, the system proved its merits with physicians on hand to observe the trial. Read more about the CoroVacc and about many other devices developments of Fraunhofer [here](#).





IV. Data

Fraunhofer Austria processes data to support government ministries. Fraunhofer Austria's logistics experts are processing and preparing transport and trade data to help make Austria's supply lines for essential goods more resilient during the corona crisis. Read more about the CoroVacc and about many other data uses of Fraunhofer [here](#).

V. Interviews

“We will rise to this challenge”. The Exscalate4CoV (E4C) consortium, which includes Fraunhofer Institute for Molecular Biology and Applied Ecology IME, has received three million euros in research funding from the European Commission's emergency response fund to combat the coronavirus pandemic. Prof. Gerd Geißlinger, Executive Director of Fraunhofer IME comments: “Our team has the scientific excellence... Click [here](#) to read the full interview and many other interviews of Fraunhofer experts.

VI. Give a Breath – Challenge.

In the face of the corona crisis Munich Re and Fraunhofer-Gesellschaft are launching a challenge for the purpose of pooling the most capable minds in order to alleviate the consequences for those heavily affected all around the globe. Read more [here](#).

Read more about:

- How for years the Fraunhofer-Gesellschaft has been conducting research for applied solutions and

concepts to be prepared before, during and after major crises. [Recovering strongly from the corona pandemic through Resilience Engineering.](#)

- Just how virtual can research be? FutureWork360, a joint project by the Fraunhofer Institute for Industrial Engineering IAO and the Fraunhofer Institute for Manufacturing Engineering and Automation IPA, shows how new and, most especially, virtual forms of communication and collaboration can help. Click [here](#) to read.
- How to hack the crisis in the region? The online platform “Hack the Crisis” is intended to promote the exchange between health authorities, science and IT experts and enables all those involved to submit suggestions or problems that will be worked on together. This is announced by the Fraunhofer Institute for Open Communication Systems FOKUS, whose Digital Public Services division is a partner in the initiative.

Visit [Fraunhofer page](#) dedicated to the “**Fraunhofer vs. Corona**” campaign to access all information about Fraunhofer's projects conducted and actions taken in curbing and fighting the COVID-19 and its consequences.





International Association of Science Parks
and Areas of Innovation

IASP: The International Association of Science Parks and Areas of Innovation

Spain

IASP is the worldwide network of science parks, innovation districts and other areas of innovation. With members in over 70 countries, it connects professionals managing innovation ecosystems worldwide and provide services that drive their growth, knowledge sharing and internationalisation.

IASP is a Project Partner of the ENRICH in Brazil Centre.

IASP members enhance the competitiveness of companies and entrepreneurs of their cities and regions, and contribute to sustainable economic development through innovation, entrepreneurship, and the transfer of knowledge and technology between universities and companies. Engaged in their local communities they provide environments that enhance a culture of innovation and attractive places to live and work.

IASP is an NGO in Special Consultative Status with the Economic and Social Council of the United Nations. IASP is a founding member of the World Alliance for Innovation - WAINOVA.

IASP IN THE FIGHT AGAINST COVID-19

I. Dedicated page showcasing activities carried out by IASP community against COVID-19

IASP launched a dedicated page aimed at showcasing what is going on in the IASP communities, sharing the innovative solutions from within the IASP network currently being developed to combat the impact of the virus on our daily lives - whether this is producing vital medical supplies in new ways, working to develop a vaccine, IT solutions, or new production methods. IASP member based entrepreneurs, researchers, startups, SMEs and mature companies all feature on this global platform, an initiative that also helps to show the power of the innovation community and how these projects and companies contribute to society. The website currently has 207 solutions from 24 countries across the world, and is growing on a daily basis. Following are a few examples:

- In Brazil, Tecnopuc has opened the doors of its Crialab, FabLab and Usalab for developing community initiatives that can help fight Coronavirus, and are already making protective face masks for healthcare workers
- in the Netherlands, High Tech Campus Eindhoven is working to maintain a sense of community even when people can't get together with a communications campaign highlighting all the work that the management team and resident companies are doing from home, sharing tips for remote work and how to keep in touch with colleagues.
- At MIND in Italy they are taking a whole-community approach, extending a competition for children focused on sustainable development to provide educational activities even while school is suspended, and helping them transform their feelings in this difficult period into creative proposals for the city and community. With their focus on life sciences, MIND has also donated medical supplies to the emergency hospital being set up nearby to treat COVID-19 patients.
- The Valencian Institute of Genetic Medicine, based in the University of Valencia Science Park (Spain), is adapting its microbiology laboratories to carry out 300-500 daily coronavirus tests, and the park is also compiling online tools, solutions and recommendations for dealing with the crisis.

Link: <https://www.iasp.ws/covid19>

II. Blog highlighting efforts of science park members

IASP is also highlighting the efforts that science park members themselves are making in order to support their communities and companies, via the blog page.

Link: <https://www.iasp.ws/activities/blog/@84/iasp-members-support-companies---communities-against-covid-19> and <https://www.iasp.ws/activities/blog/@86/innovation-ecosystems-continue-the-fight-against-the-pandemic>



When you care, you create beauty

NATURA BRASIL

Brazil

Natura Brasil is Brazil's largest beauty company. It was founded by Luiz Seabra in and opens its first in store in the traditional Oscar Freire shopping street in São Paulo in 1969. In addition to Brazil, Natura Brasil is also located in Argentina, Bolivia, Chile, Mexico, Peru, Colombia, the United States and France.

Natura Brasil is an Associate of the ENRICH in Brazil Centre.

For Natura Brasil, innovation is one of the cornerstones of the implementation of this sustainable development. In 2016 the company devoted 50 million euros to it and launched 255 products, reaching an innovation index (percentage of revenue from products launched in the last two years) of 54.3%.

The company's goal is to generate value through the integration of 3 pillars : economic, societal and environmental. The Amazônia programme is an example of how it works and Natura Brasil's daily actions are guided by this need of balancing these 3 pillars.

Since its creation, sustainable development has been at the heart of Natura Brasil's concerns. Forest conservation, waste reduction, climate protection. Natura Brasil is committed to the planet every day. But our commitments are not limited to that. For several years, the theme of waste reduction has become increasingly a major topic. Between the development of bulk products offers in supermarkets, the gradual disappearance of plastic bags from trade or even the balcony composters, Natura Brasil thinks everyone can in its own way help to reduce the global production of waste. Natura Brasil has been committed to the environment for several decades.

Natura Brasil uses ingredients from the Amazon, partners with families throughout the region to help

them farm sustainably, and packages its products in 100% post-consumer recycled containers and so-called "green" sugar cane ethanol plastic. Since 1969, Natura Brasil's reason for being has been to create and sell products and services that promote the harmonious relationship of the individual with oneself, with others and with nature.

The company offers products in several categories: bath, body care, face care, hair care, perfumes, and we use vegetable ingredients from the Brazilian biodiversity, harvested in partnership with local communities. Thanks to its commitment to sustainable development since its creation and its objective by 2020 to generate a positive environmental, social and economic impact, Natura Brasil has also become the world's largest certified B Corp company and the first publicly traded company to receive this certification in December 2014.

Natura Brasil delivers exclusive and sustainable innovation by combining the power of nature and state-of-the-art science, in more than 2,000 products and over 7,000 formulas, 45 company-owned stores, products in 3,800 pharmacies and a market leading online platform.

When founding Natura Brasil, Luiz Seabra wished to reconcile his passion for cosmetics and human relationships, so that along with the business operation a more human, stronger and lasting dimension could also grow. His ideal: to improve the world a little more every day, offering everyone the opportunity to feel better with himself and with his entourage, the Bem estar Bem. Building a better world consists also to give everyone the opportunity to be part of it, to contribute to a new future, and that is why education has such an important role for Natura Brasil.

Link: <https://www.naturabrasil.com/>

PqTec: The São José dos Campos Technology Park

The São José dos Campos Technology Park (PqTec), created at the end of 2006 and institutionalized in 2009, is a project for society as a whole. It is embedded in the history of the city, and characterizes the region's vocation: that of uniting the academic, research, and development universe with industry and other sectors of the economy that draw on the resources of modern technology.

PqTec is a Soft Landing Hub of the ENRICH in Brazil Centre.

PqTec's proposal is to translate knowledge into goods, processes, and services with high added value, evoking the local tradition that began 50 years ago in the Department of Aerospace Science and Technology ("DCTA") with a project that originated Embraer.

For such purpose, PqTec makes the Park a point of convergence of governments, universities, companies, and society. Here it has the Government, in the municipal, state and federal levels, applying public policies and investing financial resources at PqTec. It has the academy, contributing and receiving inputs for ideas and development of scientific-technological concepts. It has the companies, making efforts and using their corporate knowledge to develop products, services, and processes. And it has society, whether represented in our Board of Directors or as a target of projects designed at PqTec and performed by companies and institutions of science and technology.

To make this confluence effective, PqTec seeks to create the necessary stimulation instruments to respond to the demand of advanced sectors, which need to maintain their sustainability and competitiveness in an environment of research, innovation, and entrepreneurship.

Link: <http://www.pqttec.org.br>

PQTEC IN THE FIGHT AGAINST COVID-19

- Against forecasts, some companies have excelled in business during the pandemic, especially those that

invest in the digital market and connections. The startups Lá Vem Bebê and Emanda, accelerated by Nexus, PqTec's innovation hub, are examples of this. Click [here](#) for more information.

- COVID-19 demanded that many businesses reinvent themselves to fight the pandemic and was no different with companies linked to PqTec. SP RIO+ interviewed Marcelo Nunes, coordinator of the Brazilian Aerospace Cluster, who told about the movement of the aerospace sector to create solutions against Coronavirus and the role of PqTec to stimulate and facilitate the connection between companies. Click [here](#) for more information.
- What does the aerospace market look like around the world from now on? To help Brazilian companies in the sector understand the whole scenario, PqTec today conducted the webinar Studies of the Aerospace Market - United States and Europe, in partnership with Apex-Brasil. Dedicated exclusively to companies associated with the Brazilian Aerospace Cluster and members of the Aerospace Brazil sector project, the study presented the market perspectives of commercial, executive, defense and space aviation, in the face of the challenges imposed by Covid-19 throughout the chain and other movements of the segment, such as the shutdown of the Boeing 737 Max, the potential market gain in Europe by Airbus and the search for liquidity by the airlines. Click [here](#) for more information.
- A Akaer, resident at PqTec, was agenda on TV Band this week. The company develops high-tech products for the aerospace and defense markets, but is also acting against Covid-19. He has put his team to develop solutions that increase the safety of health professionals and monitor people's temperature. Click [here](#) for more information.

For many other projects and actions against COVID-19 associated with PqTec visit its [webpage](#) or/and follow it on social media.

PORTO DIGITAL: Entrepreneurial Cluster / Technology Park

Porto Digital is an entrepreneurial cluster / technology park of innovative companies in the ICT and Creative Industries, located in the historical city centre of Recife, Brazil. For the past 20 years, it has fostered urban renewal and socioeconomic development through the creation and attraction of start-ups and global technology players. It is among the largest technology parks in the world, hosting 339 companies and their +11,000 workers. It has been three times recognized as the “Best Habitat for Innovation in Brazil” by the Brazilian association of parks and incubators, The global media and academic books have featured Porto Digital, such as WIRED Magazine, The Financial Times, Business Week, Bloomberg, The Guardian, BBC, Jerome S. Engel’s Global Clusters of Innovation, and Frédéric Martel’s Smart, among others.

Porto Digital is a Soft Landing Hub of the ENRICH in Brazil Centre.

Porto Digital’s Incubator was awarded by Anprotec as “Best Incubator in Brazil for Local/Sectoral Development”, twice with the ICE/Anprotec’s ‘Impact Incubation & Acceleration’ award and featured among IASP’s 2016 ‘Inspiring Solutions’. For its work in urban renewal, having renovated +90,000 sq. mt. of historical buildings, the Brazilian Heritage Institute IPHAN awarded Porto Digital with the prize ‘Rodrigo Melo Franco de Andrade’ for the Excellence in Shared Management of the Cultural Heritage.

Porto Digital’s Management Unit is an important actor in the local science, technology and innovation system, supporting the local, regional and federal governments in STI and development policy making and implementation.

PORTO DIGITAL IN THE FIGHT AGAINST COVID-19

I. OIL Covid Challenge

In partnership with Pernambuco State Public Ministry (Prosecution Office) and the State Health Secretariat, Porto Digital launched an open innovation call to

support innovative solutions for specific challenges of the Covid19 pandemics. In a single week of intensive effort, 543 ideas were submitted from all over the country, from which 71 were selected in a first round, and 8 received a total of BRL 1.3 million for developing their ideas into applicable solutions, for immediate procurement by the government.

Link: <https://www.portodigital.org/119/37975-porto-digital-e-mppe-lancam>

II. OIL Covid-Economy Challenge

OIL Covid Economy Challenge aims at identifying particular economic challenges created by the COVID19 pandemics and by the social distancing prevention measures, and supporting the development of solutions that help companies to survive during the pandemics and come up with new strategies and business models for the new normal, post-pandemics.

III. MPF-Porto Digital STI Network Strategy for Epidemics

Porto Digital is cooperating with the Brazilian Public Ministry (Federal Prosecution Office) and the Prosecutor-General of the Republic for structuring and operating a nation-wide interdisciplinary network strategy of science, technology and innovation, from epidemiology and medicine to data science and economics, for supporting national health authorities and local governments in fighting the current COVID19 pandemics and its social and economic outcomes, and prepare for future epidemics that periodically arise.

IV. Data.Recife

Porto Digital and the Recife Municipality are setting up a decision support service based on big data/analytics and led by experts in Data Science, Public Policy, Epidemiology and Economics, in order to support the development and implementation of a gradual, flexible and dynamic reopening strategy for the city of Recife, once past the peak of COVID19 infection, and mitigating both the health and economic impacts of the pandemic.



■■■■

V. Help Pilar Community Initiative

Porto Digital is leading an initiative of raising donations from companies and individuals, including via crowdfunding, to support the 300 very poor families that live in the Pilar Community during the quarantine period, by giving food vouchers and other basic necessity items.

Besides Porto Digital itself, Porto Digital companies have started various initiatives to curb and fight the COVID-19. Following are a few examples:

▪ Anjo Amigo by Inovaway

Anjo Amigo, which means Friendly Angel, is a platform that works as a collaborative social networking app that connects elderly people to younger volunteers who are able to give support and look after them on a daily basis.

Link to company website: <https://inovaway.org/>

▪ Dycovid – Dynamic Covid Tracking by Mamba Labs

Dycovid is a solution that performs contact tracing in a digital and anonymous way from an app installed on citizens' cell phones. This is done through the identification of contacts between people in a totally anonymous way and with total guarantee of privacy.

Link to company website: www.mambalabs.com.br

Link to solution website: www.dycovid.com.br

▪ Xô Corona by Bento Tecnologia

Xô Corona, pronounced as *Shoo Corona*, is an app that promotes voluntary social isolation using behavioral economics tools, visual language and gamification principles in order to reduce the speed of propagation of COVID-19. The application promotes staying at home and, at the same time, seeks the adhesion of other users. With it, the user can set a daily goal to the amount of hours at home, and he can share its individual performance on social media. The app is available on the common app stores.

▪ Medvelox

Medvelox was designed to help health professionals to monitor and keep up with the clinical evolution of their patients through this moment of crisis. The solution is a custom mobile communication app that enables users to see evolution graphics, attach important documents, and visualize other specialists' comments by the way that the information is organized and structured in the application.

Link to company website: <https://www.medvelox.com/>

▪ COVID 19 Assist by Ehealth Potiguar

Covid 19 Assist was developed with the purpose to monitor the health status of the professionals that are involved in the battle against the COVID19 on a daily basis. The data obtained about the health professionals will be made available to the Government in order to obtain the best working conditions to these people involved.

Link to solution website:

<https://assistcovid.netlify.app/login>

▪ ProXper by Alis

ProXper is an information workflow management application that gathers real-time epidemiological data on a platform that provides information from infected patients during the virus cycle. The solution collects the data from several sources in an integrated way, which allows the users to monitor, manage, and check predictions about the whole scenario.

Link to company website: <https://www.alis-sol.com.br/>

▪ In Loco's Geolocation Technology

By using In Loco's geolocation technology, the app seeks two strands of activity: create mobile media campaigns to alert people in a contrary situation of what is recommended as the ones visiting beaches, parks, malls, and others public spaces; and the other strand is to create an isolation score that is daily calculated, to measure the growth, or not, of the social isolation in certain geographic areas, based on the mobility flow of these locations.

Link to company website: <https://www.inloco.com.br/pt/>

▪ Bioptamers' Diagnostic Solution

Bioptamers' project proposal is to create a pre-diagnostic test that uses conventional PCR with a higher potential of detection, but cheaper and without false positive results for identification of the virus in the saliva of patients. By this, the pre-diagnostic can solve samples with higher virus concentration avoiding waste of resources for samples. Additionally, the project developed more specific and better performing primers for real time PCR compatible with SYBR green reagent turning the WHO standard protocol more sensible and cheaper.

Link to the company website: www.bioptamers.com

RCISD: Regional Centre for Information and Scientific Development

Hungary

RCISD is an innovative SME, founded by scientists and R&D managers to carry out scientific research but also for participating in coordinating & support actions, furthermore being a kind of back office where the management R&D activities can be outsourced.

RCISD is Founding Member of the ENRICH in Brazil Centre and Project Partner.

Although RCISD is involved mainly in management and implementation of R&D projects including mapping, social and political analysis, etc., it is participating in the research activities too. The flexibility of the SME makes it possible being a major contributor to a research by employing R&D personnel for the duration of a project. Coordination and support (organisation of a workshop or a reception, etc.) is much easier in a

small company than in large research entities like a university or a research centre.

As a well established platform for regional and international cooperation RCISD is particularly interested in contributing to the development and integration of support strategies and decision making practices in strategic international cooperation projects too.

As ENRICH in Brazil project partner and founding member, RCISD is naturally involved in the actions against COVID-19 carried out by ENRICH in Brazil Centre itself.

Link: <http://rcisd.eu/>



Established in 1996, Sabancı University (SU) in Istanbul, Turkey ranks among the highly rated research institutions in Turkey. The University employs more than 700 staff members and teaches to 4100 undergraduate and 1100 graduate students. SU is consistently ranked among the top three universities in Turkey and is currently ranked 44 in the Times Higher Education Young University Rankings. According to the Entrepreneurial and Innovative University Index of the Scientific and Technological Research Council of Turkey (TUBITAK), SU has been internationally recognized as one of the most innovative and research-oriented universities in Turkey. SU has many research centers and centers of excellence in biotechnology, nanotechnology, materials science, and mobilizes its know-how, resources and infrastructure in the fight against COVID-19.

SU is a Project Partner of the ENRICH in Brazil Centre.

SU IN THE FIGHT AGAINST COVID-19

I. SUNUM infrastructure has opened to serve Covid-19 kit manufacturers

Sabancı University nanotechnology Research and Application Center (SUNUM) has equipped with the appropriate professional set-up, knowledge base and

infrastructure for in-vitro diagnostic kits. For COVID-19, SUNUM puts its resources at the service of private and public kit developers and antibody / biological agent producers who are actively involved in the combat against COVID-19. For this purpose, it has created a virtual collaboration platform with its 24 strategic partners.

Link: <https://gazetesu.sabanciuniv.edu/en/society-and-science/sunum-infrastructure-serve-covid-19-kit-manufacturers>

II. Sabancı University and Kordsa support healthcare professionals

Sabancı University and Kordsa which co-operate under the roof of “Composite Technologies Center of Excellence” will contribute to the design, analysis and prototyping of medical devices and their parts used in Covid-19 treatment, as well as healthcare professionals’ protection equipment. The center has started the preparations of production by 3D printing of plastic and metal parts for medical devices used in covid-19 treatment.

Link: <https://gazetesu.sabanciuniv.edu/en/society-and-science/sabancı-university-and-kordsa-support-healthcare-professionals-their-fight>



Sociedade Portuguesa de Inovação

SPI: Portuguese Innovation Society

Portugal

Sociedade Portuguesa de Inovação (SPI) is a private consulting company created in 1996 as an active centre of national and international networks connected to the research and innovation sectors. SPI has become a leading promoter of linkages between national and international public and private organizations / companies / S&T institutes. SPI has coordinated and provided expert support on projects based in Europe, Asia, North America, South America and Africa. Currently, SPI has over 80 full-time staff located in the various offices of the company in Portugal, Spain, China, USA, and with an affiliated office in Belgium (Brussels) through the European Business & Innovation Centre Network (EBN).

SPI is a Founding Member of the ENRICH in Brazil Centre.

SPI IN THE FIGHT AGAINST COVID-19

As a Partner and Founding Member of various international projects, SPI has initiated the following actions:

I. ENRICH in Brazil – series of webinars

SPI together with ENRICH in Brazil has launched a webinar series “**Calls for startups with solutions for the COVID-19 outbreak.**”. One of the webinars focused on the discussion of the details of the Inova Innovation Agency from UNICAMP call for startup cases with solutions for the COVID-19 pandemic. In the session, Prof. Newton C. Frateschi, PhD (Inova Executive Director) presented the Agency priorities, and focused on the open call they have for startups that can provide solutions to mitigate the problems related to the COVID-19 pandemic (prevention, treatment, diagnosis, lifestyle changes in both professional and personal scenarios). The idea was to map and disseminate the selected startups work, and most importantly to link the startups to the innovation ecosystem and to find possible partners to escalate the solutions to the market. The call was coordinated by Unicamp and other local institutions in Brazil.

Click [here](#) to stream the recorded webinar.

II. ENRICH in China – series of webinars

- COVID-19 Research Opportunities and Project Showcases in Europe and China
- How to turn our communities more resilient during the COVID-19 outbreak?
- Connecting to Chinese Medical Suppliers in the Fight Against COVID-19
- The Application of Genetic Testing Technology in the Fight Against COVID-19
- Peeking into China's post-COVID-19 future
- AI technologies that help human fights COVID-19, China Case Study

III. ENRICH in China – COVID-19 Response Call

Financial investment opportunities available for innovative companies with solutions dealing with the COVID-19 pandemic for innovative companies with a potential product or service that can support the worldwide response to the COVID-19 outbreak? ENRICH in China has a range of global investors who are looking for innovative ideas, which could provide a response to the issues being faced due to this pandemic.

To know more click [here](#).

IV. ECCP COVID-19 Forum

European Cluster Collaboration Platform launched a task force in regards to COVID-19 “ECCP COVID-19 Forum”. This action access all information that is available today in regards to COVID-19 (notifications, announcements, articles and news from the ECCP platform, social media and any other credible sources) and make it more digestible, presentable and appealing. In the past weeks, the main focus has been the COVID-19 outbreak itself and how it has affected many daily economic and other activities. Now, we are focusing more on the post-pandemic stage (i.e. the recovery stage) and the efforts/plans which are being implemented in its wake.

Here are examples of what SPI has published recently:

- Current state: click [here](#).
- Post-COVID-19: Click [here](#) and [here](#).

Link: <http://www.spi.pt/en.index>

TecnopARQ: Technology Park of Viçosa

Brazil

The tecnopARQ (Technology Park of Viçosa) is a campus research park of Federal University of Viçosa (UFV), one of the most important universities in Brazil. In 2019, UFV was considered the ninth most entrepreneurial university in Brazil. The tecnopARQ is located at Minas Gerais State, which is the country's third GDP. Its mission is to promote the creation and development of technology-based companies and the diffusion of entrepreneurial culture and innovative technologies from the academic community, contributing to local development. In order to fulfill its mission, tecnopARQ was designed as a differentiated innovation environment, both with regard to its functioning and structuring, as well as with regard to products, services and benefits offered to companies, scientific community and stakeholders.

The technoPARQ is a Soft Landing Hub of the ENRICH in Brazil Centre.

The tecnopARQ has a remarkable urbanist project, with 214 hectares of area, of which 174 are preservation permanent area. Thus, the tecnopARQ provides 40 hectares for companies and partners to be able to build their facilities. In its headquarter, the companies have access to numerous state-of-the-art conference rooms, multiple collaboration stations and private office rooms. It is a “live-work-play-learn” environment that fosters unique collaborations and educational experiences. By its infrastructure and services, tecnopARQ has conditions for facilitating business partnerships and speeding up the pipeline through which research with a great university becomes reality.

In the tecnopARQ, the technology-based companies, be they large companies, startups, spin-offs, business projects and academic research may be supported in terms of acceleration, pre-incubation, incubation and resident company program. By its incubator and accelerate program, tecnopARQ offers valuable services for turning research into businesses and jobs, launching companies and negotiating master research agreements. The incubation services offer a way to more readily connect people, ideas, projects and resources for accelerate business relationship, partnership and innovation. By its resident companies' program, the tecnopARQ team provide management,

technological and innovation assessment for development, grow and competitive of the firms.

For twice, the tecnopARQ's incubator received the national award for “Best Business Incubator Oriented to Local and Sectoral Development”. In 2019, the incubator received the first prize in the category of awareness for the business theme of impact in the call for Good Practices in Incubation and Acceleration of Impact, launched by the Entrepreneurial Citizenship Institute (ICE) and the Brazilian Association of Science Parks and Business Incubators (Anprotec). In 2014, tecnopARQ was one of the finalists of best technology park in Brazil by Anprotec and in this same year was award in the 1st International Association of Science Parks and Areas of Innovation (IASP) Inspiring Solutions. In 2020, the tecnopARQ was credited as an ENRICH in Brazil Soft Landing Hub.

TechnopARQ IN THE FIGHT AGAINST COVID-19

TecnopARQ has offered to support the production of technological innovations in combating Covid-19 at UFV, for the production of facial shields (doinglês, Face Shield), using 3D printing as an emerging technology. The commission is made up of University staff and aims to discuss, plan and develop solutions for the development of technologies in products, services and processes to combat Covid-19 disease.

Click [hier](#) for more information.

The tecnopARQ / UFV companies have been working to combat covid-19 too. For instance, [MedYes's](#) data technology system in the context of COVID-19 performs in the version for patients as a virtual health assistant that organizes medical history, allows the monitoring of chronic diseases, assists in the use of medications and enables the sharing of information with the professional health and family members. Another example is the [Seduca](#) company. The Sedusa product was designed to reduce the time needed to perform school tasks, in addition to integrating parents, teachers and students. Teachers can access the system to launch notes, class diaries, send assignments and assignments to students, edit the content taught in classes and send extra materials directly to students.

TECNOVATES: The Vale do Taquari Science and Technology Park

Brazil

The Vale do Taquari Science and Technology Park (TECNOVATES) is an innovation environment, an initiative of Univates, linked to the Directorate of Innovation and Sustainability - Dins, which has the support of public and private entities. It was officially established in 2010 to foster research and innovation by means of simultaneous interaction between universities, private institutions and the government.

TECNOVATES is a Soft Landing Hub of the ENRICH in Brazil Centre.

TECNOVATES offers national and international people and companies a structure for research, development and innovation (RD&I), mainly in the areas of:

- Food Technology (laboratories of microbiology, food chemistry, food biotechnology, diary products development, food biotransformation centre, food FabLab)
- Environmental and Energy Technologies (research in electrochemical characterization, acarology, botany, biogas and renewable energies, waste management)
- Health and Well-being Technologies
- Information and Industry Technologies
- Creative
- Market Hub

TECNOVATES offers rooms of different lengths for the installation of companies and / or their research and development units. All rooms have lighting, air

conditioning and data network (telephone and internet) installed. Collective work environment linked to TECNOVATES provides partner companies, incubators, Univates students and the community in general, with shared work space and exchange of experiences between entrepreneurs.

The number of resident and incubated companies at the TECNOVATES grew continuously over the years just as the number of projects in partnership with private companies. Areas of the incubated and pre-incubated companies were: food, health, automation, information, environmental, trade, animal health, fashion, logistics, management and internationalization.

TECNOVATES has research and development projects for new products and / or services in partnership with the public and private sectors. Among the research areas, the following stand out:

- Enzymatic transformations
- Effluent and waste treatment
- New dairy products
- Development of alternative energy sources
- Biological pest control
- Natural drinks
- New products of plant origin
- New flour products

Link: <https://www.univates.br/tecnovates/>



Brazil

UNICAMP: The University of Campinas

The University of Campinas (UNICAMP) was established in 1966. It is a public University of the State of São Paulo, Brazil, focusing on high-quality teaching, top-end research, services to society, bridges between academy and industry, and innovation and entrepreneurship. The University in numbers:

- 24 Schools and Institutes; 2 Technical High Schools; 36 Technical High Schools courses; 66 Undergraduate courses; 152 Graduate (M.Sc & PhD) - 46% are top grades (ranked by Ministry of Education); 3 Hospitals; 40,362 Students and 1910 Faculty Members
- Top Brazilian university in number of published articles per faculty member; responsible for about 8% of Brazil's articles in scientific journals (approx. 3,149 articles indexed and 20,753 publications); top Brazilian university in number of patents (approx. 1042 patent portfolio, 133 licensed patents and 219 computer programs)
- 15th: world's top 50 universities under 50 years old; 2nd: Latin America's top 10 universities (QS Ranking); 9th: top BRIC's universities

UNICAMP is a Project Partner of the ENRICH in Brazil Centre.

UNICAMP IN THE FIGHT AGAINST COVID-19

The actions at UNICAMP Task Force to discuss and prepare the University to face coronavirus disease 2019 (COVID-19) effects was established on March 9th, 2020. At that time, Brazil had 25 confirmed cases, 2 months later we have more than 178 million cases. Most of the classes were replaced by online classes and for those who need laboratory facilities are requested to follow specific rules. The COVID-19 Task Force also worked along with the Institute of Biology by working and adapting their research projects to envisage the pandemic matters.

The initial results of the Task Force efforts are already at the service of the population. UNICAMP'S scientists quickly developed and validated a gold standard diagnostic from World Health Organisation (WHO) to speed up the testing of suspected patients arriving at UNICAMP'S health system. In a short time, the mark of 1000 tests carried out was surpassed. Another urgent

concern: the widespread testing needs imported inputs and the Task Force works on validating national inputs to overcome this dependency. But the results are besides of these achieved: the devastating disease attacks far beyond the respiratory tract and a research group has identified its action on neurons, for instance. Mathematicians and engineers focused on numbers and models, creating projections that quickly began to raise awareness among the population and inform the actions of the university and public policies on the need for social isolation. The mobilization spread through the university's institutes, colleges and research centres, because the dimensions of the problem, which affect the human condition, are wide.

To articulate these and other actions, two weeks ago, UNICAMP sent a message to the University community asking about the interest in joining the Task Force and interested parties filled a form, quickly describing the research or activities related to COVID-19. The response was immediate and on the Task Force website information on 70 projects already registered can be accessed.

The projects range from biological sciences and health to art history, engineering, materials science, mathematics, chemistry, physics, education, physics, demography and scientific dissemination. Project initiators are searching for vaccines, developing clinical tests, observing drug interactions, investigating mechanisms of action of the virus in the human body; improving equipment; informing the public, seeking ways of teaching in different areas of knowledge, studying the record of this period; assessing the effects of the pandemic on vulnerable situations in children and adolescents; looking for improvements in patient conditions, among others. These are initiatives developed in 18 different institutes, in addition to seven interdisciplinary research centres, involving more than 500 researchers including professors and students. Read more [here](#).

Click [here](#) for information from UNICAMP groups conducting research against Covid-19.

Link:

<https://www.unicamp.br/unicamp/index.php/english>