



Inova Unicamp Innovation Agency

Actions on COVID-19

Prof. Newton Frateschi
Executive Director
Inova Unicamp



Who am I?



❑ Education:

- UNICAMP: BS and MSc in Physics;
- University of Southern California (USC): MSc and PhD Electrical Engineering

❑ Areas of Expertise: Optoelectronics, Microelectronics, integrated Photonics.

- Professor at the Physics Institute Unicamp:

❑ Management:

- (2005 – 2010) Director of the Center for Semiconductor Components and Nanotechnologies UNICAMP
- (2010-2014) Deputy director and (2014-2017) Director of the Physics Institute at Unicamp

❑ High Tech Startup Experience in the USA

❑ (2017 –) Executive Director of Inova Unicamp



About Unicamp

Campuses, history and
numbers



Campuses



Piracicaba



Limeira



Campinas

Expansion Areas



Unicamp

- Established in October 5, 1966
- Public University of the State of São Paulo (tuition free)
- Focus on high-quality teaching and research
- Services to society and bridges between academy and industry
- Support to innovation and entrepreneurship



in 2017



24 Schools &
Institutes

02 Technical High
Schools

03 Hospitals

863 Beds

1.910 Academic staff

8.178 Non-academic
staff

21 Interdisciplinary
Research
Centers

40,362
Enroled Students (2017)

36 Technical High
Schools courses

66 Undergraduate

152 Graduate (MSc; PhD)

3,764 - high school (technical)

19,581 - undergraduate

Over 73,000 applicants / 3,300 admissions

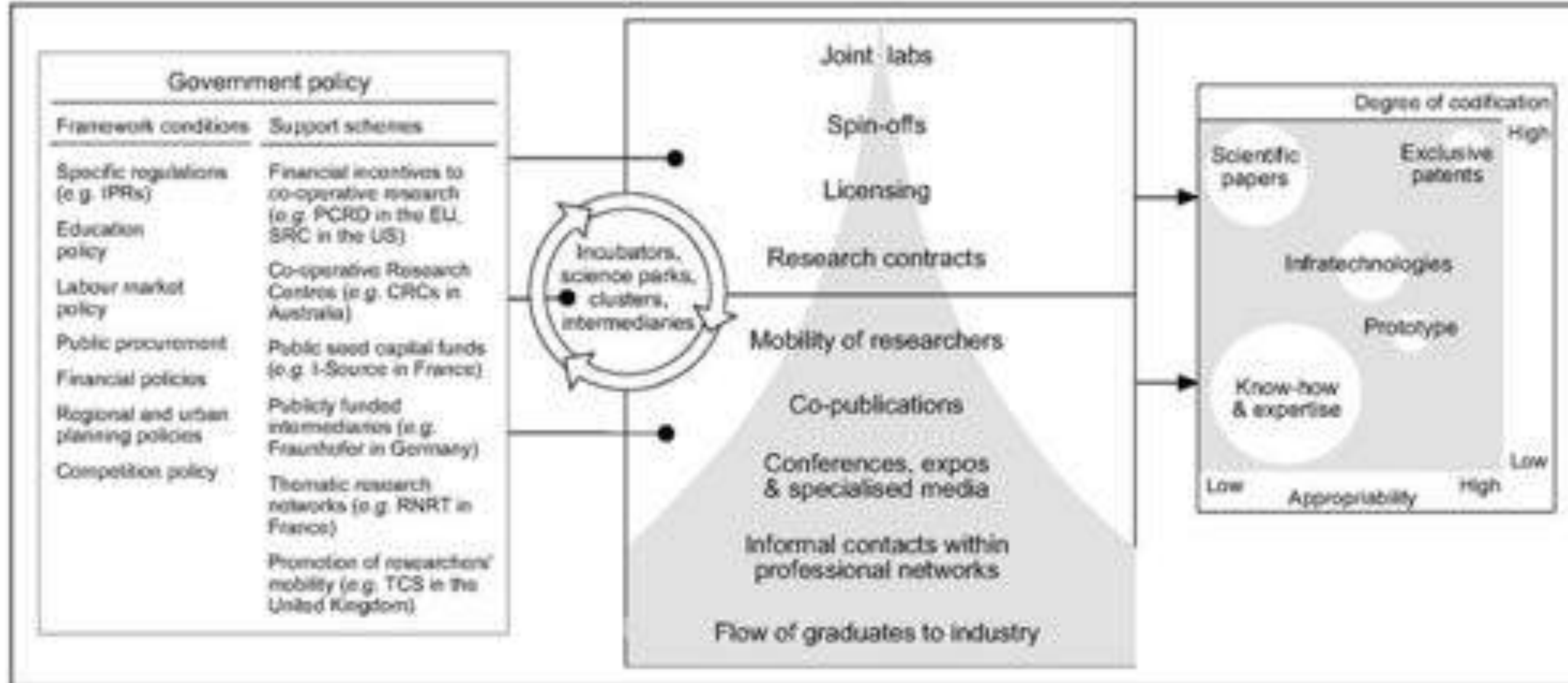
17,017 graduate

1,060 Foreign students



How we work with the industry

Figure 2. Formal mechanisms of ISRs: the tip of an iceberg





Inova Unicamp

Created before the Brazilian Innovation Law of 2004, Inova Unicamp is Unicamp's Technology Innovation Center

Mission: To identify opportunities and promote activities that **encourage innovation and entrepreneurship**, expanding the impact of knowledge and research in favor of a **sustainable socioeconomic development**.



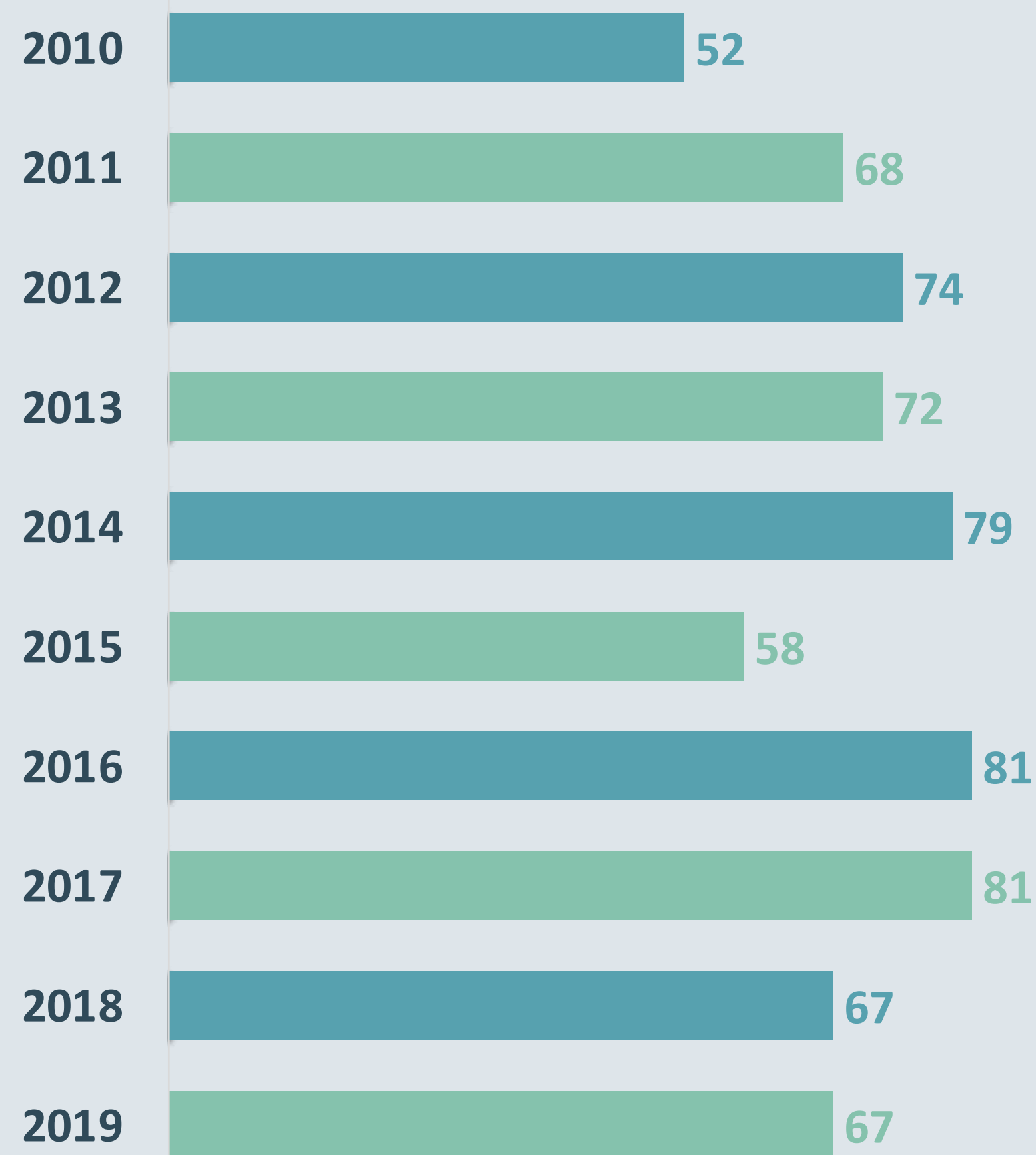
Focus:

- Intellectual Property
- Partnerships and Cooperative Projects
- Entrepreneurship & Unicamp's Science and Technology Park
- Institutional Relations & Communication

Indicadores

2019

Patents Filled at INPI (Brazil)



Patent Portfolio



Invention
Disclosures



Patents Filled at
INPI (Brazil)



Patents Granted



PCT



Patents Filled
Abroad

53

**R&D Contracts established with
companies in 2019**

Total Value:

R\$ 133.496.706,19



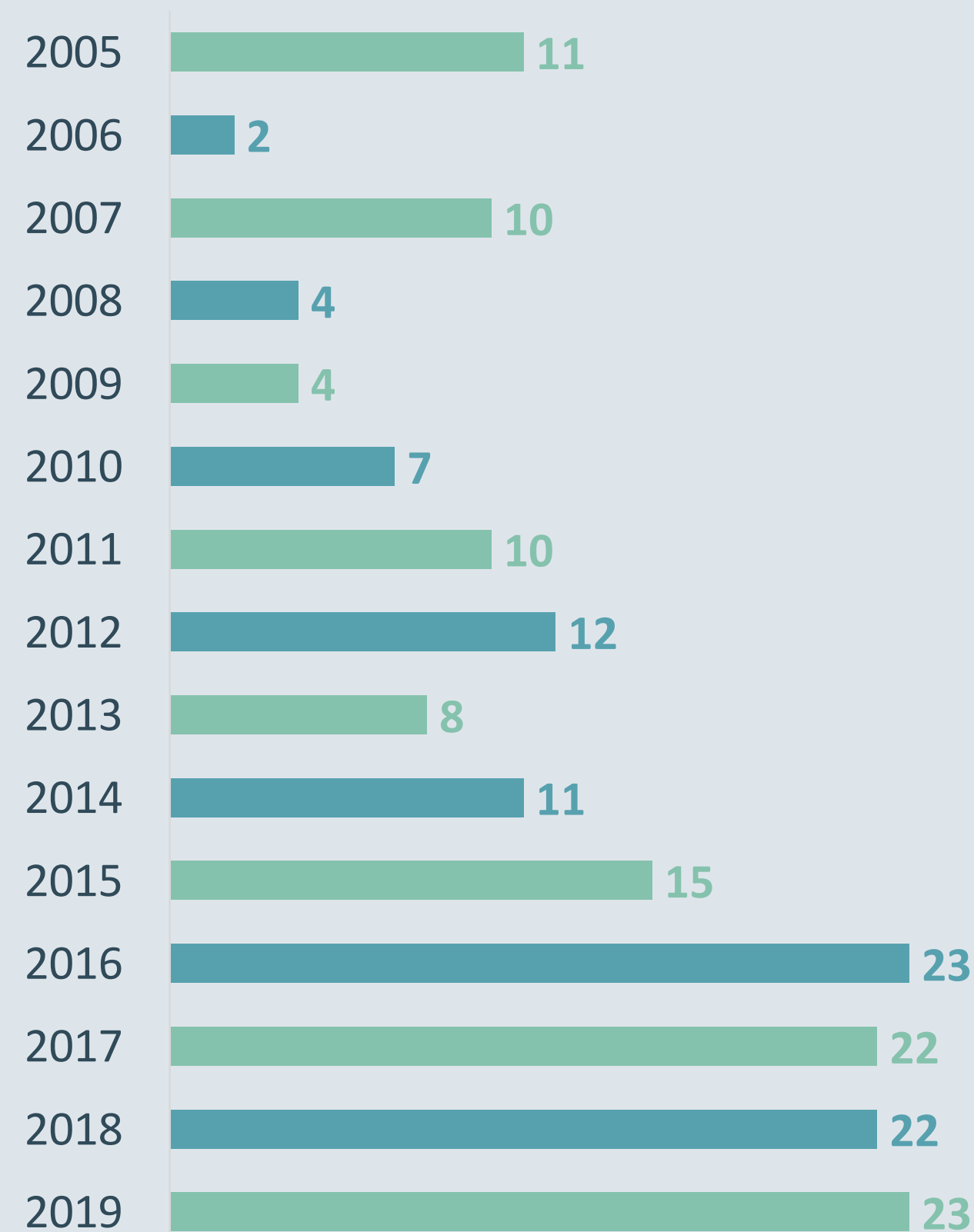
Indicadors

Ano: 2019

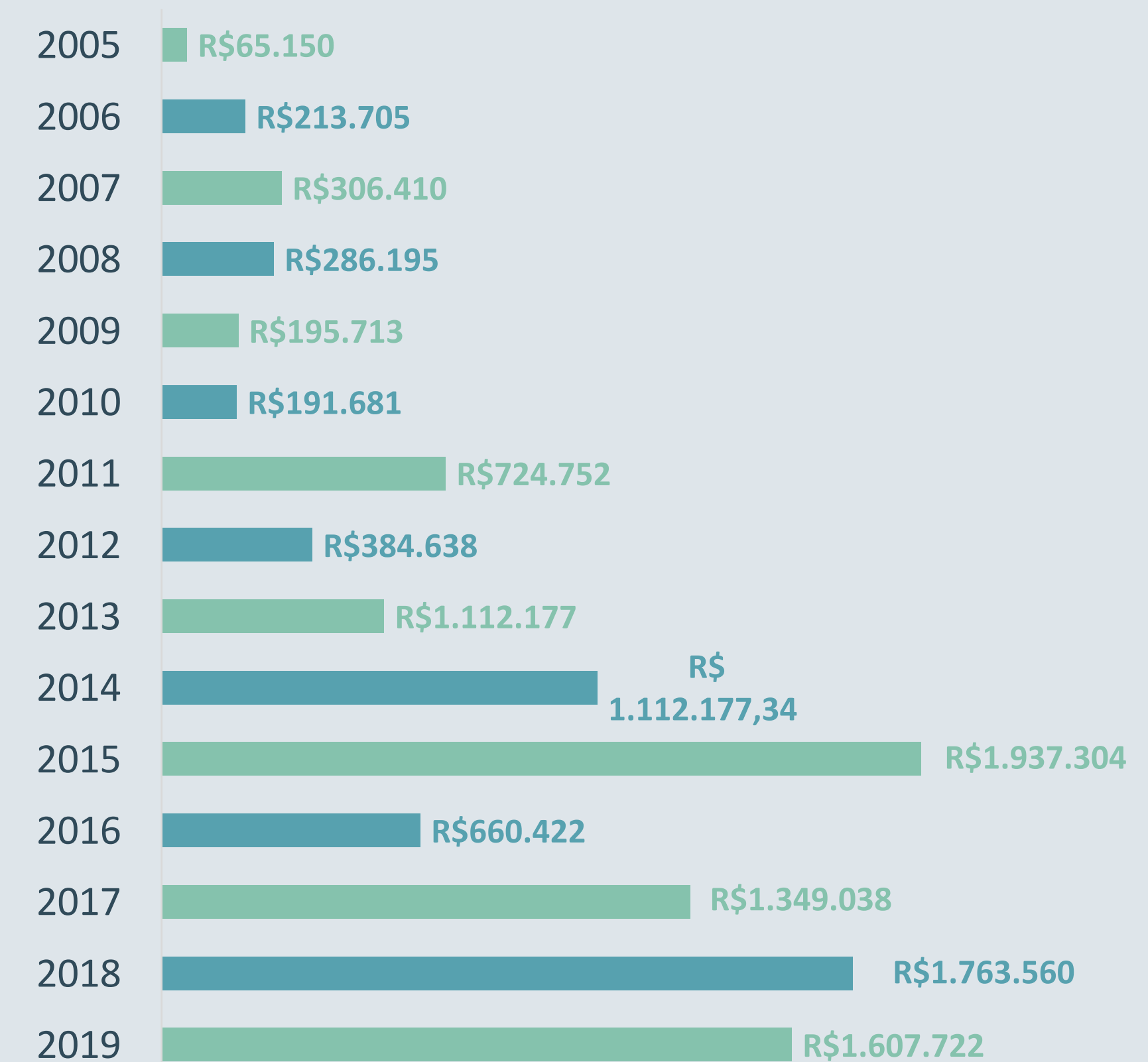
Ongoing Licenses



Licenses of Intellectual Property (signed a year)



Royalties





PARQUE CIENTÍFICO
E TECNOLÓGICO
DA UNICAMP

**100.000 urbanized m² inside
Campinas' Campus**

Which companies can be part of the Park?

- **Companies with R&D agreements with Unicamp**
- **Incubated startups at Unicamp's Incubator**
- **Startups, Third Sector and Governmental Organizations**

32 Companies

440 Direct Jobs

293 R&D Dedicated Jobs

15 Research Contracts with Unicamp

R\$ 11 million in R&D Contracts signed with
Unicamp in 2019



32 Companies

*) 1ST TRIMESTER OF 2020

LARGE COMPANIES AND R&D LABS

ELDORADO

SAMSUNG

PROMETEON

Semantix

MC1
WIN THE MARKET

ideal!
Electronic Systems

IBM

SOME STARTUPS AND INCUBATED COMPANIES

ALBA

FM2S
EDUCAÇÃO & CONSULTORIA

baíta

ClassApp

SOLPE®

BIOX Tech

processium do Brasil
Process & Product Design

NeuralMind

DILETTA
APLICATIVOS



PRODB

dpr
ENGENHARIA E SIMULAÇÃO

COGNETi – TEC

NÚCLEO



VÉRTICE



LIB



INCAMP



ANEXO

SOMA



Launching scheduled for 2020

What is a Unicamp's Alumni Company?

Company that has as a founding partner a student or alumni of Unicamp, an employee, former employee, a academic, or a company that is a spin-off of Unicamp, and incubated and graduated companies from Incamp.



**Alumni or
student**



**Academic or
Employee**



Incubated

EVOLUTION

2016

514

registered

434

active

28

sold

2017

584

registered

485

active

39

sold

2018

701

registered

604

active

39

sold

2019

815

registered

717

active

43

sold

JOBS CREATED AND REVENUE

2016

21.995

jobs

R\$ 3bi

revenue

2017

28.889

jobs

R\$ 3bi

revenue

2018

30.931

jobs

R\$ 4.8bi

revenue

2019

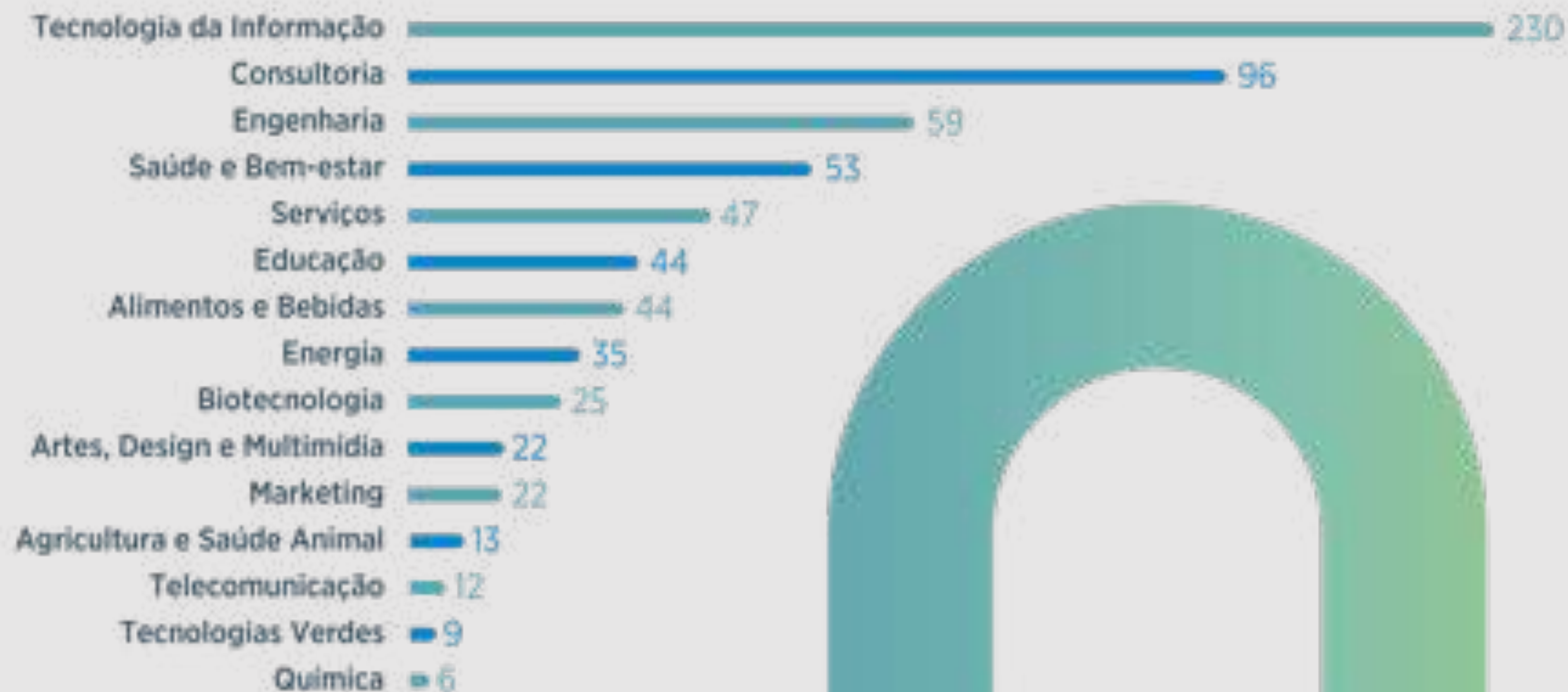
31.343

jobs

R\$ 7.9bi

revenue

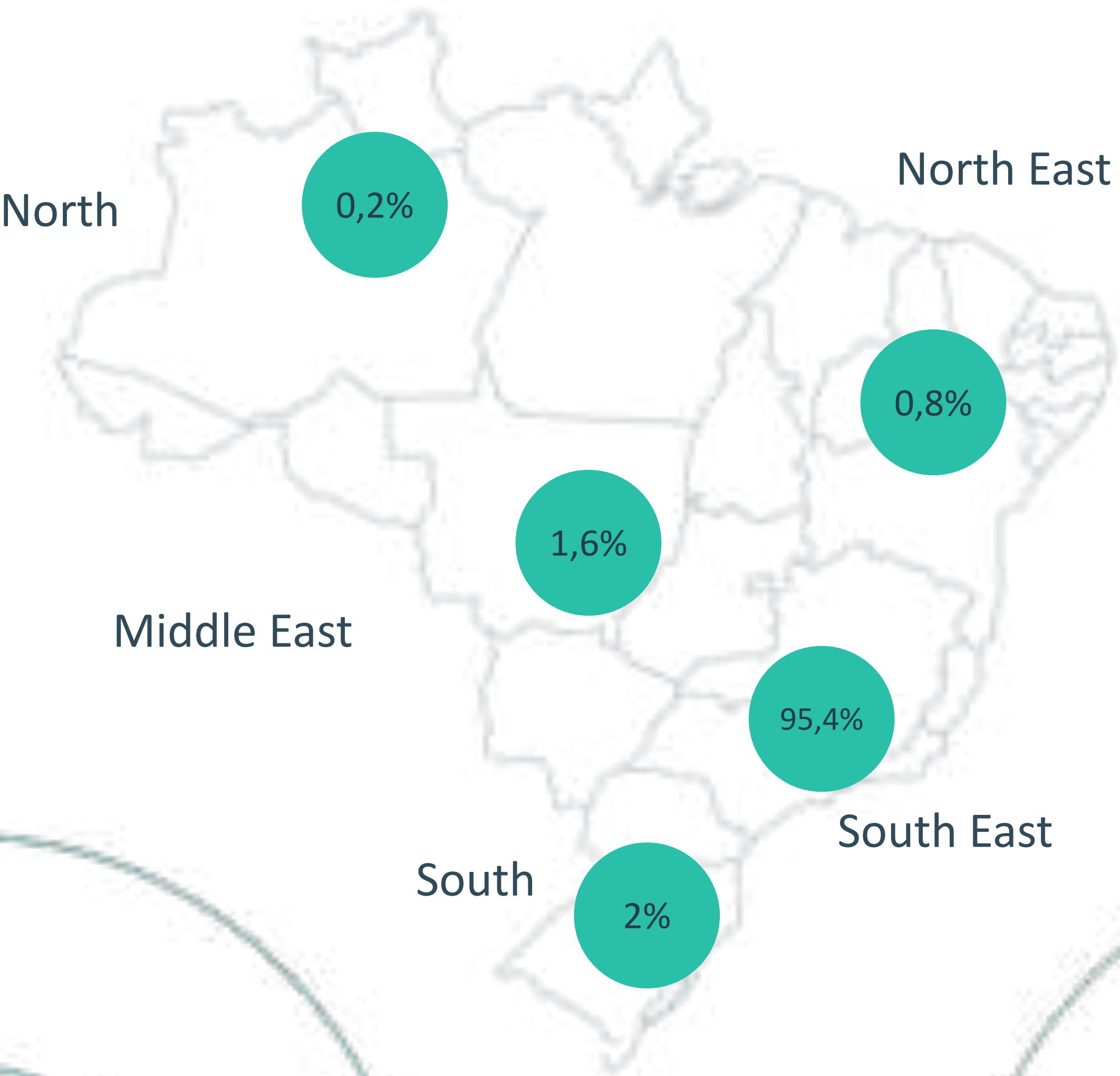
NUMBER OF COMPANIES BY AREA



LOCATION



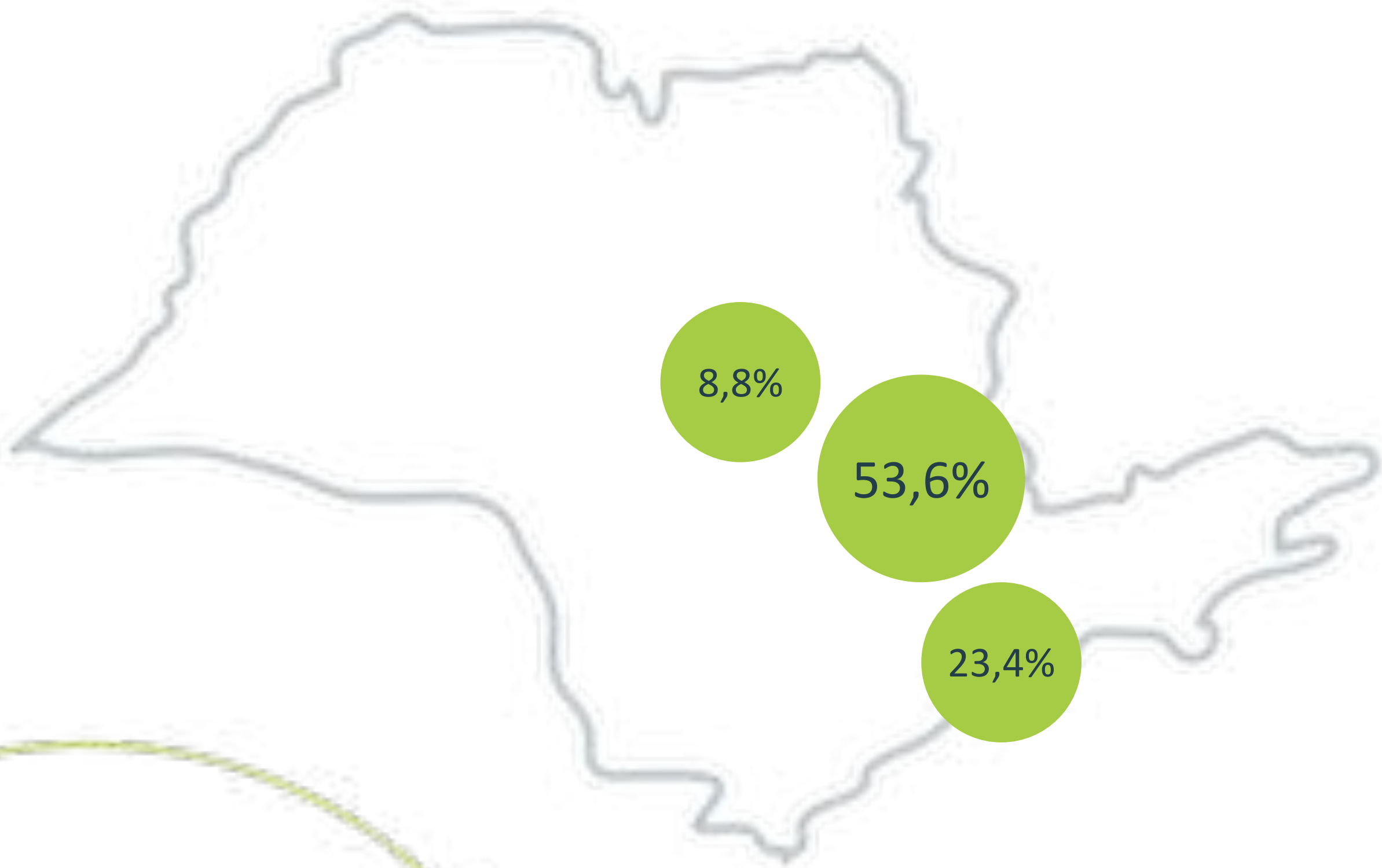
Region	Percentage
South East	95,4%
South	2%
Middle East	1,6%
North East	0,8%
North	0,2%



LOCATION IN SÃO PAULO



Distribuição em São Paulo	
Companies in São Paulo State	86,4%
Companies in Campinas	53,6%
Companies in São Paulo	23,4%
Companies in Metropolitan Area of Campinas	8,8%
Companies in other cities of São Paulo State	14,2%





Call for Cases: COVID-19 related solutions





Chamada de Cases: Soluções de startups relacionadas ao COVID-19

A Agência de Inovação da Unicamp abre uma chamada de cases de startups que têm ou estão adaptando ou desenvolvendo soluções que possam mitigar ou resolver problemas relacionados à pandemia do COVID-19, conhecido como coronavírus.

A intenção é mapear soluções de startups, principalmente as empresas-filhas da Unicamp formadas por ex-alunos da Universidade, em diversos aspectos sociais que estão sendo afetadas com a pandemia do COVID-19. Ou seja, serão analisados os casos de iniciativas do campo de prevenção, tratamento diagnóstico e de mudanças de estilo de vida pessoal ou profissional.

Os cases serão analisados para avaliar sua aplicabilidade e divulgados no site oficial da Agência de Inovação da Unicamp (www.inova.unicamp.br). Também serão prospectados parceiros ou atores potenciais para que as soluções sejam potencializadas para uma absorção do mercado e sociedade.

Você tem uma solução inovadora? Conte para nós.
Queremos conhecer e compartilhar o máximo de soluções oferecidas pelas startups nesse período de crise.

O nome e a foto associados à sua Conta do Google serão registrados quando você fizer



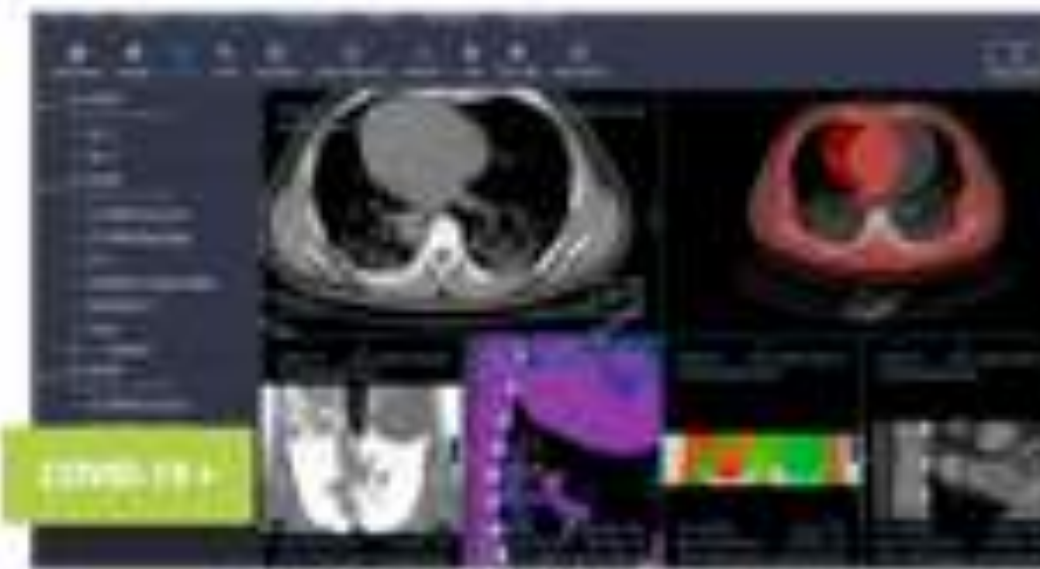
During the months of **March** and **April**, Inova Unicamp collected informations about **COVID-19** related **solutions** from **Unicamp Alumni Companies** and other startups from our ecosystem

Cases: Soluções de startups para o COVID-19



29 abril 2020 - Por: Marina Moura em Prevenção Soluções COVID-19

Câmara de ozônio para desinfecção de EPIs e máscaras para reutilização da startup Panazon Ambiental



29 abril 2020 - Por: Marina Moura em Soluções COVID-19 Tratamento

Solução RT CONNECT para diagnóstico e acompanhamento de pacientes com Covid-19



29 abril 2020 - Por: Marina Moura em Outras Soluções COVID-19

Uso de Magoya do Cerrado pela Startup INSPIRA na busca por imunização contra o novo coronavírus

[Veja mais cases](#)

88 solutions received between March 20th – April 29th

Inova's committee selecteced **16** to be publish on our **website**, on our **social media** platforms and broadcasted in special weekly **newsletters**.

We focused on **technology based solutions**.



Solutions



Treatment



Prevention



Diagnosis



Information



**How to adapt
personal or
professional life**



Other

Ozone chamber for disinfecting PPE and masks by Panozon Ambiental



Panozon Ambiental is a Brazilian **startup** that developed a **chamber** similar to an autoclave, but that works without the need for heat and humidity.

The solution disinfects objects using **ozone gas**, is portable and does not require installation – it works by simply plugging into an electrical outlet.

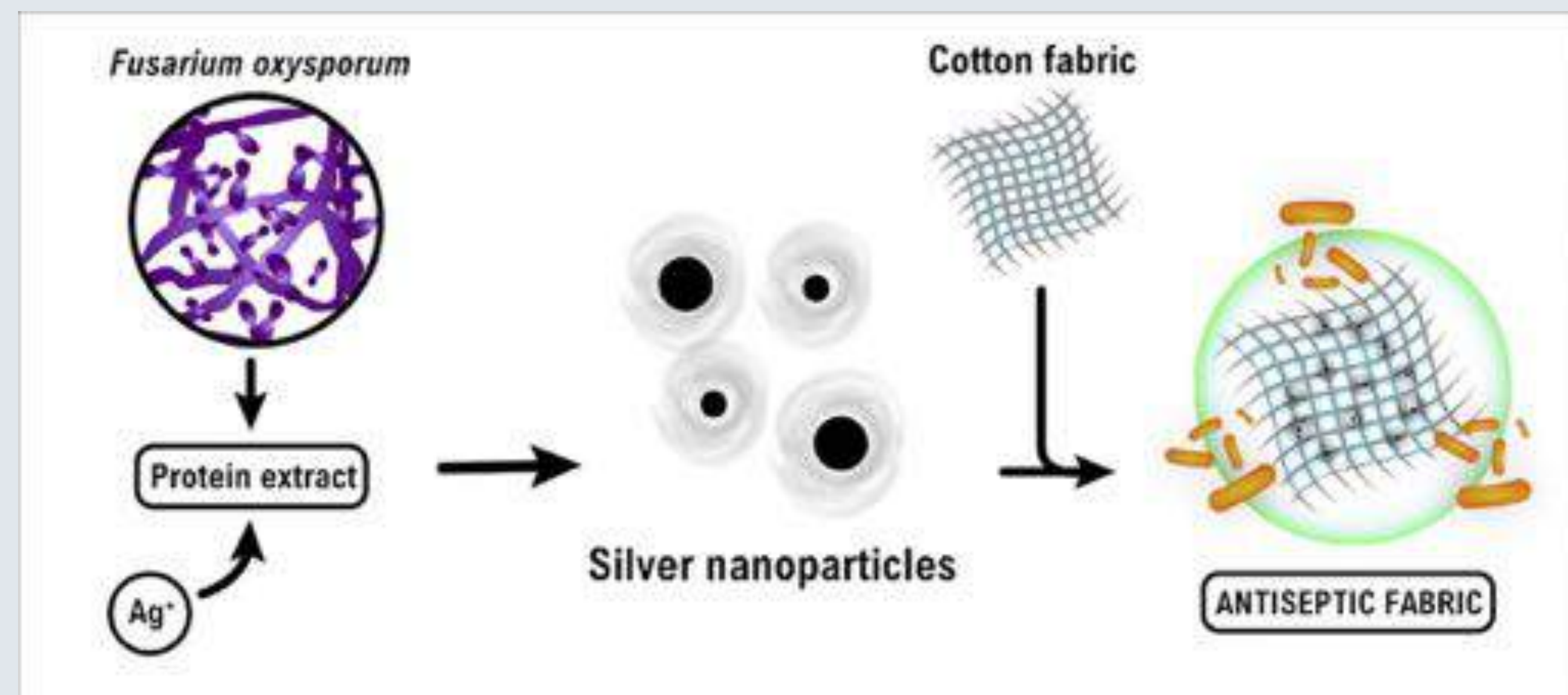
The chamber was tested at the IB Virology Laboratory at Unicamp with surgical masks inoculated with Coronavirus and was **efficient** in reducing $\geq 99.99\%$ of viruses.

<https://o3care.panozon.com.br/>

Antiseptic technology for fabrics by ChemBioNano

ChemBioNano is a Brazilian **startup** that developed a technology that enables the production of more efficient masks and PEE.

The startup uses **biogenic silver nanoparticles** for the manufacture of fabrics, clothing and facial masks with **antiseptic properties**. The technology can also be used in **spray** form and is able to sterilize surfaces and material used in patient care.





Inova Unicamp together with the UNICAMP COVID – 19 Task-force



We launched a system to facilitate interaction with companies interested in:

- Research and Development (R&D),
- Services
- Consultancy
- and Technology Licensing in the context of the coronavirus pandemic.



System was launched in May 20th



FOCUS ON: companies seeking the expertise of researchers or the infrastructure of the University's laboratories to support the development of new products with diverse applications in the scope of the pandemic.

“We took advantage of our expertise, contacts and the channel that we already have at Inova’s website and adapted it, including the option of the CALL FORCE-TASK FORCE COVID-19 to facilitate communication between companies interested in cooperating and researchers in this scope of the pandemic”

https://www.inova.unicamp.br/conexao_empresa/#/

Some responses (5 days)



Some company requests at:

https://www.inova.unicamp.br/conexao_empresa/#/ :

- ☐ Partnership for the validation of a new Pulmonary Ventilator;
- ☐ Partnership for characterization and technical validation of equipments for Personal Protection Equipment (PPE) Disinfection;
- ☐ Disinfection Chemical materials analysis;
- ☐ Clinical Research for antiviral activity investigation;

Legal procedures and IP



In order to facilitate and expedite the collaborations:

- ☐ Need simple forms/procedure for the utilization of the university infrastructure and for consulting;
- ☐ Need to expedite, although with special care, issues related to Intellectual property;
- ☐ A form was proposed by Inova, and quickly issued by the president's office;
- ☐ This allowed better legal certainty for the university and the collaborators and better outcome of the results.



Thank you!

Call: https://www.inova.unicamp.br/conexao_empresa/#/

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