

# Webinar on EU-Brazil cooperation/ Opportunities in nanotech sector



FUNDAÇÃO DE AMPARO À PESQUISA E INOVAÇÃO  
DO ESTADO DE SANTA CATARINA

# FAPESC in short



Governmental state agency which funds:

1. Innovation
2. Research
3. Scientific knowledge disclosure
4. Human resources training



Located in one of the most innovative Brazilian capitals, FAPESC has partnerships with federal agencies and international institutions

# 1. Stemmer Prize for Innovation

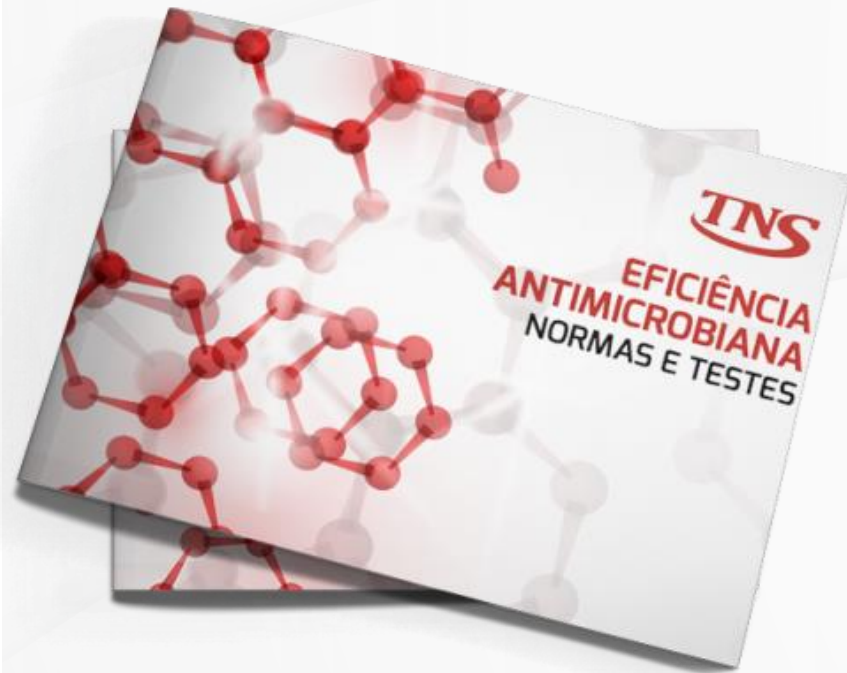
- Financial prize for companies, S&T institutions and inventors
- More than BR 2 million in 7 editions

Nanovetores S. A. is a local company that won both Stemmer Prize (2011), and Brazil-Germany Innovation Award (2014), from the German Chambers of Commerce Abroad. With offices in Brazil and USA, it focus on the development of nano and micro encapsulation systems with natural actives.



# 1. Sinapse: Fostering Innovative Startups

- More than BRL 35 million invested in 5 editions (plus scholarships for company staff)
- More than 400 startups created in SC
- Record of proposals to 6th edition: 1791

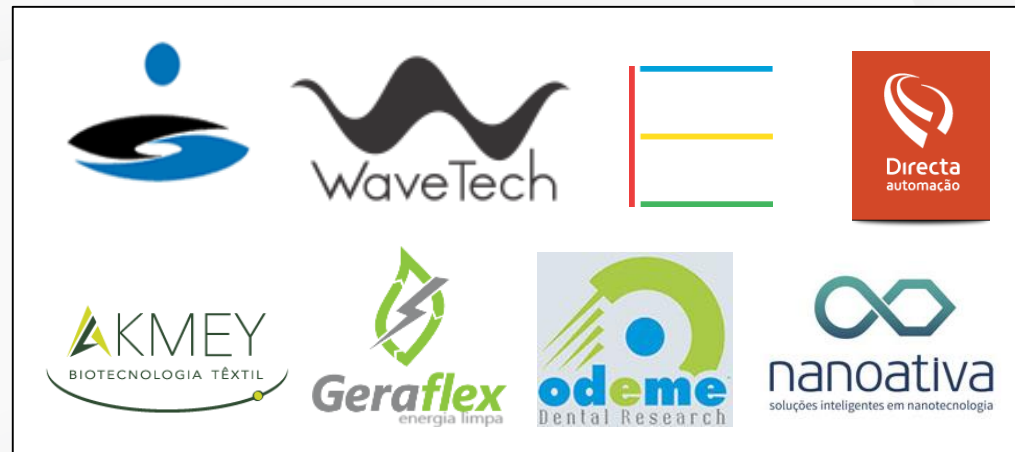


Focused on industrial applications in micro, bio and nanotechnology, TNS presents antimicrobial solutions to be incorporated on textiles, polymers, ceramics and paints, providing high efficiency against microorganisms harmful to human health.

# 1. Tecnova: public grants for companies



- Investments: BRL 23 million
- Conclusion: 2017



53 companies received between BRL 180,000 and BRL 600,000 from FINEP and FAPESC



## 2. Productive arrangement in Nanotechnology

- Research project since 2013
- Partners: Fundação CERTI, R&D Labs from UFSC and UDESC, enterprises
- Approximately Nanotech 90 enterprises in Brazil, 26 in SC



Nanosecurity in practice: Researchers produced a guide for Nanotechnology companies

## 2. INCTS: National Research Institutes

- Investments: BRL 15 million in 4 SC INCTs (101 in Brazil)
- Conclusion: 2017



President Michel Temer was impressed by the telemedicine technology developed in SC, at INCT for Digital Convergence

## 2. SC Forestry Inventory

- Investments: BRL 6.1 million
- 10 years of research in 2017

**nature** International weekly journal of science

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Archive > Volume 525 > Issue 7568 > Articles > Article

NATURE | ARTICLE

日本語要約

### Mapping tree density at a global scale

T. W. Crowther, H. B. Glick, K. R. Covey, C. Bettigole, D. S. Maynard, S. M. Thomas, J. R. Smith, G. Hintler, M. C. Duguid, G. Amatulli, M.-N. Tuanmu, W. Jetz, C. Salas, C. Stam, D. Piotto, R. Tavani, S. Green, G. Bruce, S. J. Williams, S. K. Wiser, M. O. Huber, G. M. Hengeveld, G.-J. Nabuurs, E. Tikhonova, P. Borchardt, C.-F. Li, L. W. Powrie, M. Fischer, A. Hemp, J. Homeier, P. Cho, A. C. Vibrans, P. M. Umunay, S. L. Piao, C. W. Rowe, M. S. Ashton, P. R. Crane & M. A. Bradford [Show fewer authors](#)

[Affiliations](#) | [Contributions](#) | [Corresponding author](#)

Nature **525**, 201–205 (10 September 2015) | doi:10.1038/nature14967  
Received 06 May 2015 | Accepted 23 July 2015 | Published online 02 September 2015  
| Updated online **09 September 2015**



Outcomes were published in *Nature* and *The Washington Post*



# 3. Proeventos (Scientific Disclosure)

- Investments in 2017: BRL 1.95 million
- Same amount will be invested in 2018

International Iberian Nanotechnology Laboratory was represented at the Workshop Innovative Solutions in Nanotechnology for SC State Industry



**WORKSHOP**  
Soluções Inovadoras em Nanotecnologia para a Indústria Catarinense

**5 DE MAIO / 9H ÀS 18H**  
Centro de Eventos FIESC  
Rod. Admar Gonzaga, 2765, Itacorubi - Florianópolis

A Federação das Indústrias do Estado de Santa Catarina – FIESC, a Universidade Federal de Santa Catarina – UFSC, por meio do Laboratório Interdisciplinar para o Desenvolvimento de Nanoestruturas – LINDEN e a Fundação de Amparo à Pesquisa e Inovação do Estado de Santa Catarina – FAPESC, convidam para o Workshop “Soluções Inovadoras em Nanotecnologia para a Indústria Catarinense”.

O evento tem como objetivo reunir empresas para discutir os desafios de desenvolvimentos em nanotecnologia com vistas à incorporação de soluções inovadoras para impulsionar a competitividade de setores chaves da economia catarinense.

### PROGRAMAÇÃO:

- 9h** - Credenciamento.
- 10h** - Abertura.
- 10h15** - Palestra de Abertura - Nanomateriais e desenvolvimento de novos produtos - Prof. Tito Trindade, Aveiro/Portugal (International Iberian Nanotechnology Laboratory - INL).
- 11h** - Mesa Redonda - Oportunidades de Financiamento de Projetos em Nanotecnologia.
- 12h** - Almoço.
- 13h** - Case - Nanopartículas antimicrobianas.
- 13h40** - Case - Funcionalização de nanoargilas.
- 14h20** - Case - Produtos nanoencapsulados.
- 15h** - Case - Materiais e superfícies nanoestruturados.
- 15h20** - Encerramento.
- 15h30** - Café de encerramento.
- 16h** - Rodada de negócios.

Clique aqui e confirme sua presença.

Realização:

# 4. Graduate Scholarships

## Master's and Doctoral degrees

- 7 calls (one in progress, almost 400 scholarships)
- 825 scholarships since 2013
- Investments: BRL 22.7 million



Doctoral student Guilherme Ortigara Long made the best presentation in the *43rd Benthic Ecology Meeting*, in Florida

# International Cooperation

- CONFAP and EU signed their first agreement in 2014
- In 2016, new agreement with European Research Council



In May 2016, EU ambassadors had their annual meeting in SC (and visited FAPESC).

# ERC Call

- Opportunity to Brazilian active Postdoctoral Grantees
- Principal Investigators holding ERC grants will host Brazilian researchers to contribute to their teams up to 12 months
- 2 researchers will be supported by FAPESC, among 12 from whole Brazil

Biologist Regina Affonso, from UFSC, will develop sensors to detect volatile microbial composts with researchers from Lisbon University.

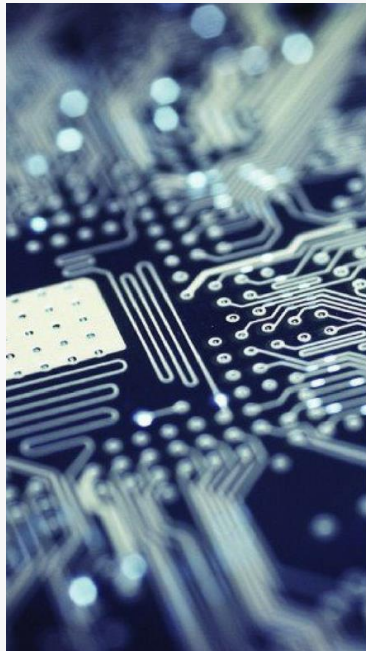


- In 2014, CONFAP became the first Brazilian institution to operate this UK fund in Brazil
- 26 FAPs (FAPESC included) have joined the agreement and co-funding projects
- The success of previous calls prompted the extension of the agreement until 2021



# Mobility CONFAP Italy

- Agreement between CONFAP and Italian Universities Network, represented by UNIBO (Bologna)
- FAPESC will offer “sandwich doctorate” grants for 6 months in Italian Universities



De 18 a 21 de dezembro,  
Florianópolis sedia o evento  
íto-brasileiro sobre inovação,  
indústria 4.0, transferência de  
tecnologia e mobilidade  
acadêmica. Inscreva-se e venha  
conhecer novas oportunidades  
de mercado e também em  
pesquisas acadêmicas.

[jointlab.wixsite.com/udesc](http://jointlab.wixsite.com/udesc)



*UDESC-UNIBO Joint Lab on Big Data for Industry 4.0* will be held Dec. 18-21 in Florianópolis. Italian government representatives are expected.

# Agreement with Berlin-Brandenburg



- FAPESC-Berlin Partner joint call prompts partnerships in advanced optical technology among companies from SC and from the Berlin-Brandenburg metropolitan region



**Cooperação SC & Berlim**  
Inovação com Fotônica



**ALTERAÇÃO DE CRONOGRAMA**  
**INSCRIÇÕES ATÉ 30 DE JANEIRO**



**FAPESC**  
Fundação de Amparo à Pesquisa e  
Inovação do Estado de Santa Catarina

The complex block contains a logo with a red and green waveform, a title in bold black text, two nighttime photographs of bridges (one suspension, one stone arch), a green and black announcement, and the FAPESC logo with its full name.

# Project AWARE

- ***Applied Network on Automotive Research and Education:*** Federal Ministry of Education and Research of Germany + DAAD (German Academic Exchange Service)



- Partnership between UFSC and FAPESC: two master's students currently in Germany for studies in Automotive and Mechatronics Engineering

In June 2016, Gargioni joined the Project AWARE workshop in Germany.





# Thank you!

**Sergio Gargioni**

President of FAPESC

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Photo taken from FAPESC, in Florianópolis