

FAPESP efforts in funding Sustainable and Renewable Energies in São Paulo: current landscape

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Journée de la recherche - *Verte, durable et renouvelable : les enjeux actuels de l'énergie*

10/04/2017 École de technologie supérieure, Montréal

FAPESP: The Research Council of São Paulo State

- Mission: support research in all fields
- Annual budget: 1% of State revenues (about 1.3 billions US\$ in 2016)
- Support: fellowships, research grants to academic projects, university-industry projects, small business R&D projects
- Special Programs: Biodiversity, Bioenergy, Global Climate Change

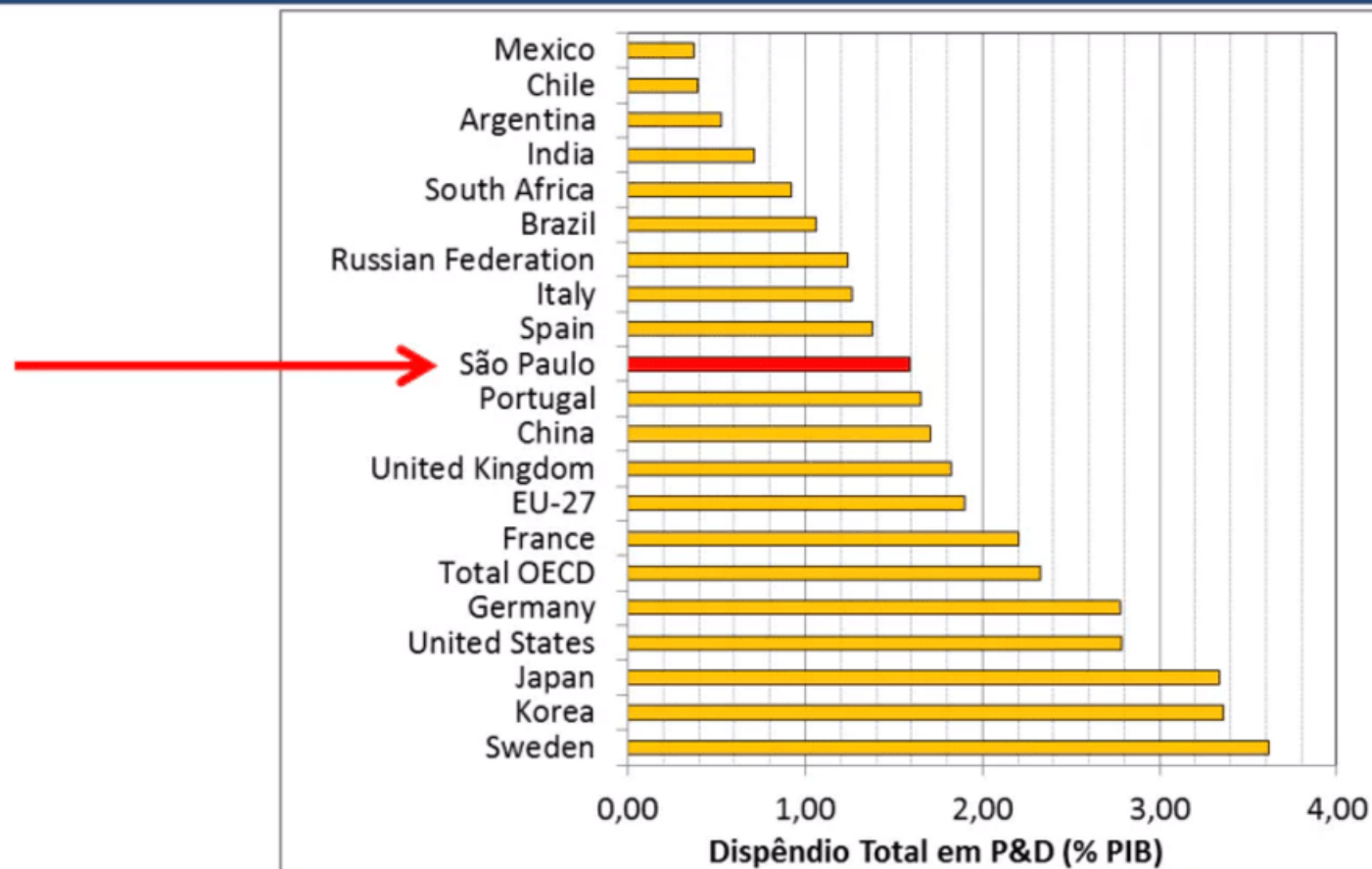


42 Million people
 32% of Brazil's GDP
 45% of Brazilian science
 13% of State budget to HE and R&D
 1.7% GDP for R&D

3 State Universities
 3+1 Federal H.E. institutions
 52 State Tech Faculties
 45% of the PhDs graduated in Brazil (6,131 in 2014)
 22 Research Institutes (19 state/3 federal)

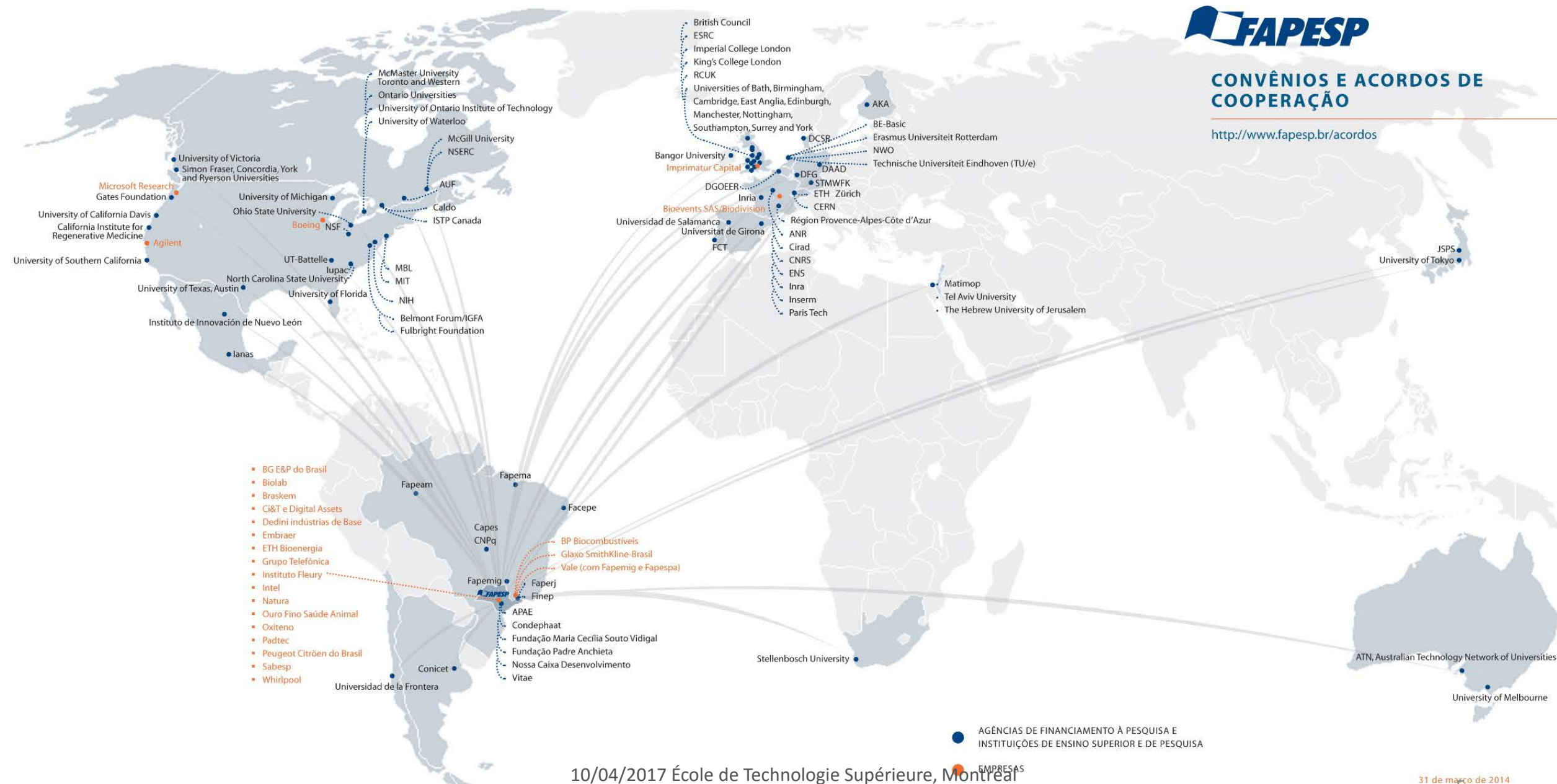
São Paulo R&D Expenditures

International standing



CONVÊNIOS E ACORDOS DE COOPERAÇÃO

<http://www.fapesp.br/acordos>

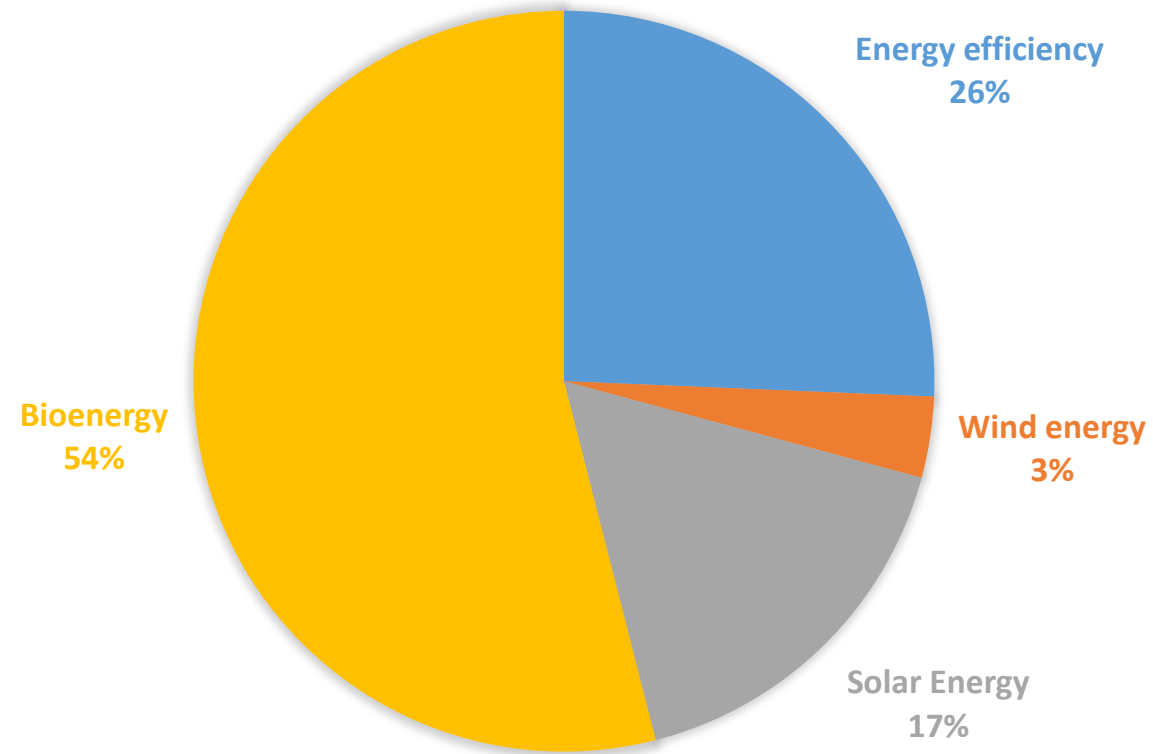


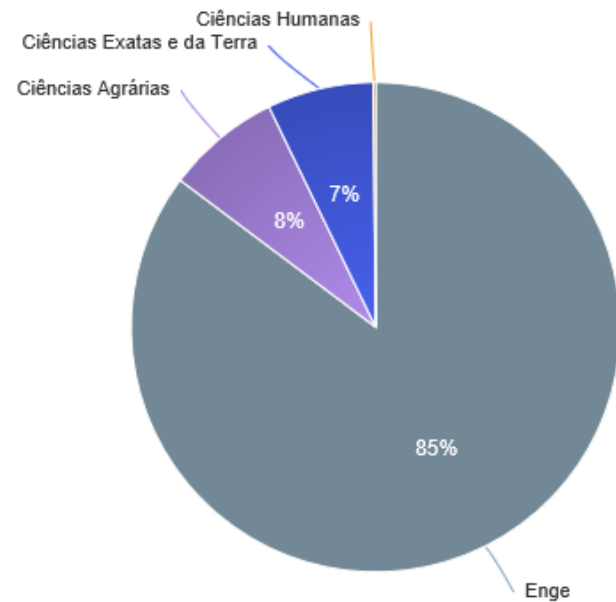


Sustainable Energy Areas: funding from FAPESP

- Bioenergy
- Solar
- Wind
- Energy Efficiency
- Global Climate Change and Bioenergy Programmes

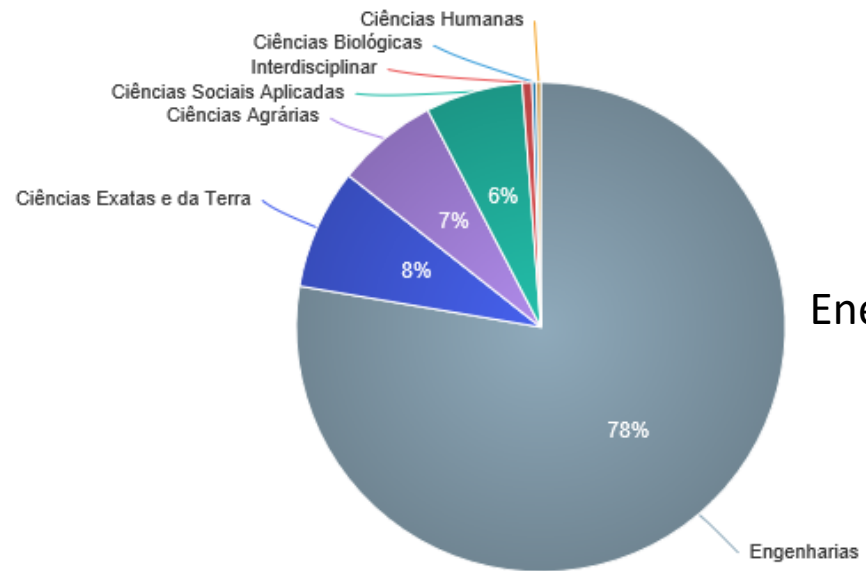
Current funding by main areas





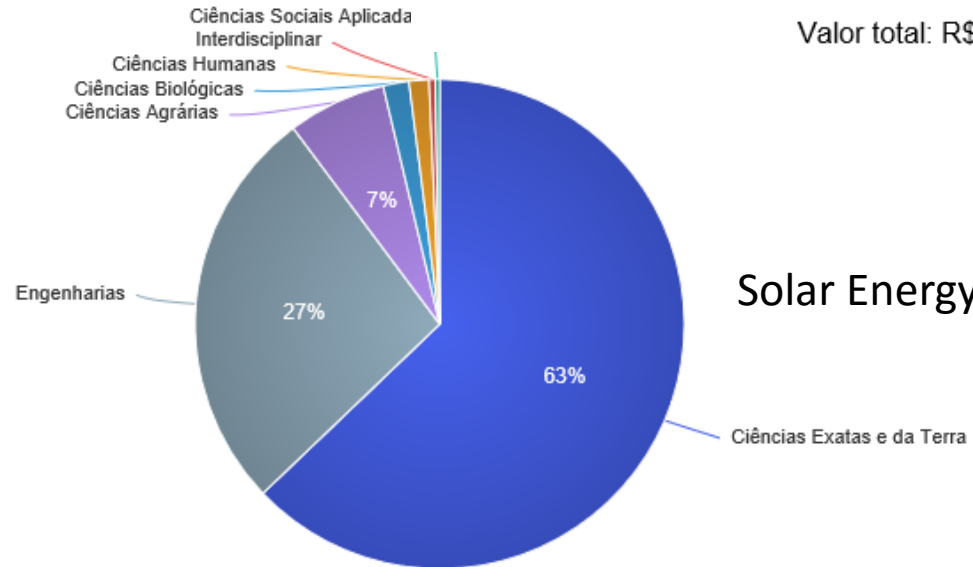
Wind Energy

Valor total: R\$3.920.970,64



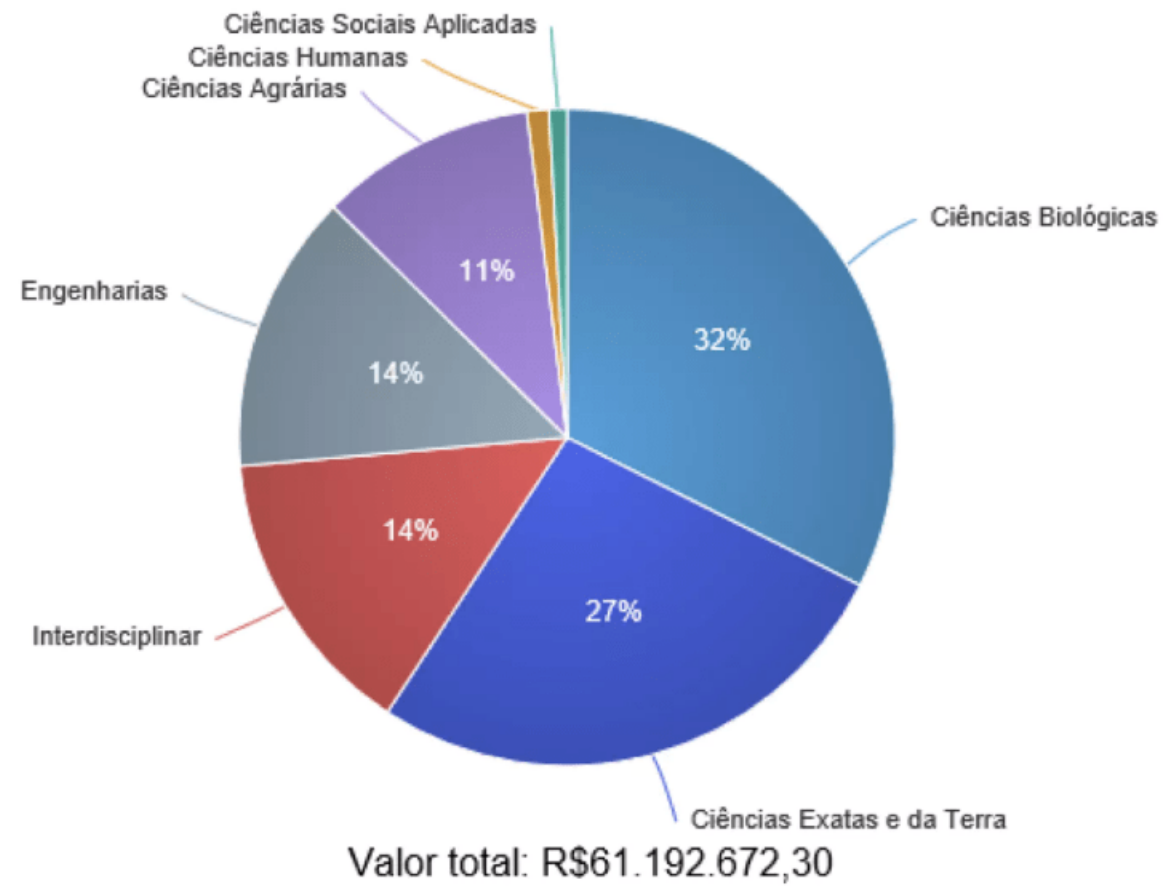
Energy Efficiency

Valor total: R\$28.038.221,48



Solar Energy

Valor total: R\$19.032.280,75

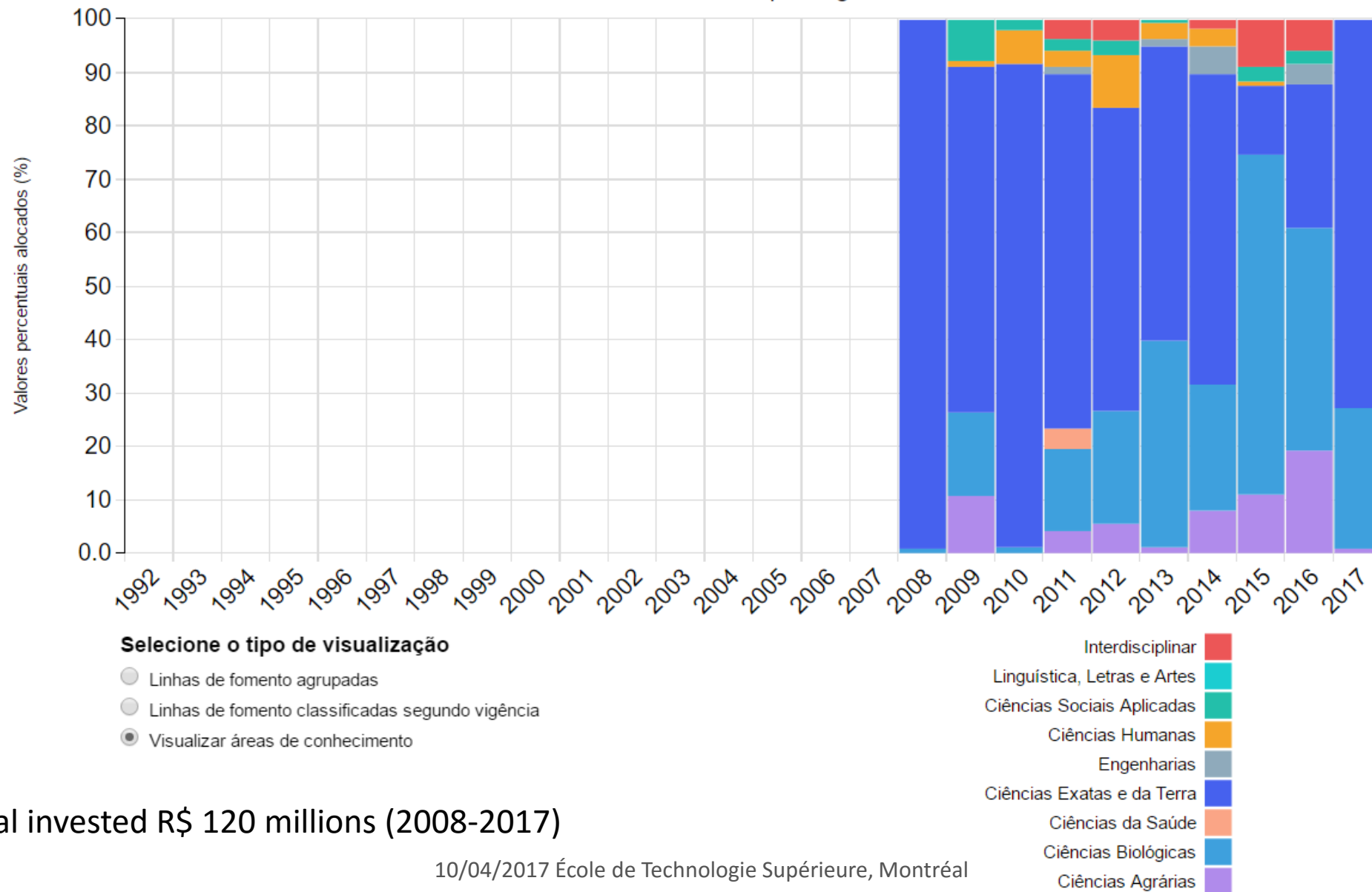


Bioenergy

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Mudanças Climáticas Globais

Percentual total sempre é igual a 100.



Total invested R\$ 120 millions (2008-2017)

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FAPESP/BAYLAT-Workshop 2017: State of São Paulo, Brazil and Free State of Bavaria, Germany

GUIDELINES FOR APPLICANTS

1. Overview

The São Paulo Research Foundation (FAPESP) and the Bavarian State Ministry of Education, Science and the Arts of the Free State of Bavaria, (StMBW), Bavaria, Germany represented by the Bavarian Academic Center for Latin America (BAYLAT), Bavaria, Germany, signed a Cooperation Agreement for Research on April 11, 2012, aiming to implement scientific and technological cooperation between researchers from Bavaria, Germany and from the State of São Paulo, Brazil, through the funding of joint research projects.

This element is designed to provide financial support to bring together a Free State of Bavaria and the São Paulo State cohort of early career researchers and PhD students who are about to defend their thesis to take part in a workshop focusing on building links for future collaboration and enhancing the researchers' career opportunities.

Workshops will be coordinated by two leading researchers **one from a higher education or research institutions in the Free State of Bavaria, Germany one from a higher education or research institution in the State of São Paulo, Brazil**.

Proposals will be accepted in any discipline/multidisciplinary area including from the natural sciences, social sciences, arts and humanities (see Annex 1 or 2 for further details). FAPESP and the Free State of Bavaria will co-fund the workshops.

2. Who can apply

Two leading researchers, **one from a higher education or research institutions in the Free State of Bavaria, Germany one from a higher education or research institution in the State of São Paulo, Brazil**, are welcome to send in a joint application to propose a theme for the workshop using the application forms and online platform described in Item 16. Both applicants will be referred to as "**Workshop Coordinators**".

2.1 Workshop Coordinators from the State of São Paulo **must be or have been** Principal or Co-Principal Investigators of research projects funded by FAPESP within at least one of the following FAPESP funding lines: Thematic Projects, Young Investigators Award (JP), Research, Innovation and Dissemination Centers (CEPIDs/RIDCs), and Research Partnership for Technological Innovation (PITE).

3. Location of the workshops

The workshops will take place, one in the State of São Paulo, Brazil, and one in the Free State of Bavaria, Germany.

4. Timing of the workshop

Deadline: 19 of June 2017

Belmont Forum Collaborative Research Action 2016 "Transformations to Sustainability"

Guidelines for Proponents from the State of São Paulo, Brazil

RESEARCHERS MUST FOLLOW THE MAIN BELMONT FORUM CALL FOR PROPOSALS FOR DETAILS REGARDING APPLICATION, FUNDING, SELECTION CRITERIA, PROPOSAL PREPARATION AND SUBMISSION at: <https://www.belmontforum.org/transformations-sustainability-t2s>

1 Introduction

This international collaboration opportunity aims to develop understanding of and promote research on transformations to sustainability, which are of significant social, economic and policy concern throughout the world and of great relevance to both academics and stakeholders. Another objective is to build capacity, overcome fragmentation and have a lasting impact on both society and the research landscape by cultivating durable research collaboration across multiple borders, disciplinary boundaries, and with practitioners and societal partners.

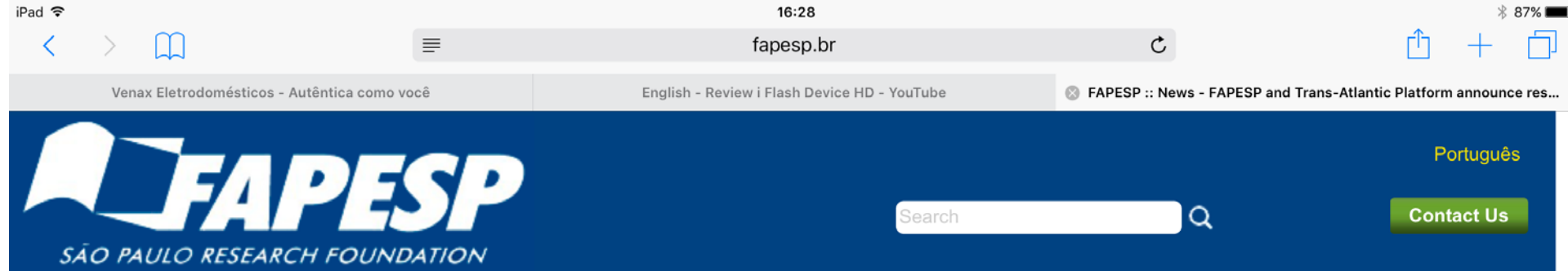
The aim of this Call for Proposals is to fund top-level basic and applied research by scientists in the State of São Paulo, that will provide sound scientific basis for actions and policies to be undertaken by Brazilian governments, private sector and the society at large, to promote actions that lead to a sustainable society and personal lifestyles.

FAPESP would like to contribute to the necessary transitions of Brazil to a low-carbon and sustainable economy. While Brazil has achieved a major reduction on emissions from land use change and deforestation, emissions from the Energy, Agriculture, Transport and Industry sectors have grown substantially in the last 20 years. Brazil also faces multiple challenges related to the rapid urbanization, demographic transitions, and socioeconomic. However, without major changes in its use of natural resources and its social structure, Brazil will not transition to a sustainable economy. Furthermore, many of the adaptation actions required to transform Brazil to a sustainable economy are not directly related to public policies. They will also require changes in our personal lifestyles and on the investment profile of the private sector.

In the last 20 years, FAPESP and other funding agencies have contributed to support strong groups of researchers that investigate the physical basis of climate change, mostly in the Earth Sciences. By contrast, the amount of researchers that are involved in the questions of transformations to sustainability is still limited, relative to the size of the physical basis and scientific questions. By issuing a call for Research Proposals on the themes of transformations to sustainability, FAPESP expects that researchers for Social Sciences, Humanities, Architecture and Urbanism, and related domains will contribute to the collective increase in knowledge that could letter to more balanced societies.

This call is supported by Belmont Forum selected funding agencies from different countries and also by agencies related to the NORFACE (New Opportunities for Research Funding Agency Co-operation in Europe), an ERA-NET network. The complete list of participants can be found at: <https://www.belmontforum.org/transformations-sustainability-t2s>

Deadline (Full Proposal) : Late June 2017



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FAPESP and Trans-Atlantic Platform announce result of call for proposals

The Sao Paulo Research Foundation (FAPESP) and fifteen other international research funders today jointly awarded approximately \$9.2 million to international teams investigating how large-scale computational techniques may be applied to answering research questions in the humanities and social sciences. These teams will be pursuing research in numerous areas, including musicology, economics, linguistics, political science, and history.

Each of the fourteen winning teams is composed of researchers from multiple scholarly and scientific disciplines, working collaboratively to demonstrate how cutting-edge big data techniques can be used to investigate a wide range of research questions across the humanities and social sciences.

The T-AP Digging into Data Challenge is sponsored by research funding organizations from eleven nations, organized under the auspices of “T-AP,” the [Trans-Atlantic Platform for the Social Sciences and Humanities](#). T-AP is an unprecedented collaboration between key humanities and social science funders and facilitators from South America, North America and Europe. T-AP aims to enhance the ability of funders, research organizations and researchers to engage in transnational dialogue and collaboration.

Participating nations and funding organizations include: Argentina ([MINCyT](#)); Brazil ([FAPESP](#)); Canada ([SSHRC](#), [NSERC](#), [FRQ](#)); Finland ([AKA](#)); France ([ANR](#)); Germany ([DFG](#)); Mexico ([CONACYT](#)); Netherlands ([NWO](#)); Portugal ([FCT](#)); UK ([AHRC](#), [ESRC](#)), and US ([NEH](#), [NSF](#), [IMLS](#)).

One of the 14 proposals selected involves researchers affiliated to institutions of higher education and research in the State of São Paulo in partnership with researchers from other countries, as indicated below:



Sixteen international research funders announce the winners of the 2017 T-AP Digging into Data Challenge

Summary

- Most of our current projects in RE are directed to bioenergy
- FAPESP funds applied and basic research
- FAPESP wants to increase its relevance funding research to support meeting the Brazilian NDC
- Strong participation in international programs (Energy & Climate) such as Belmont Forum (energy, food and water), FAPESP-US NRC
- FAPESP is the scientific representative from São Paulo in the RLS-Sciences and is willing to cooperate with its partners.