

Universidade de Brasília

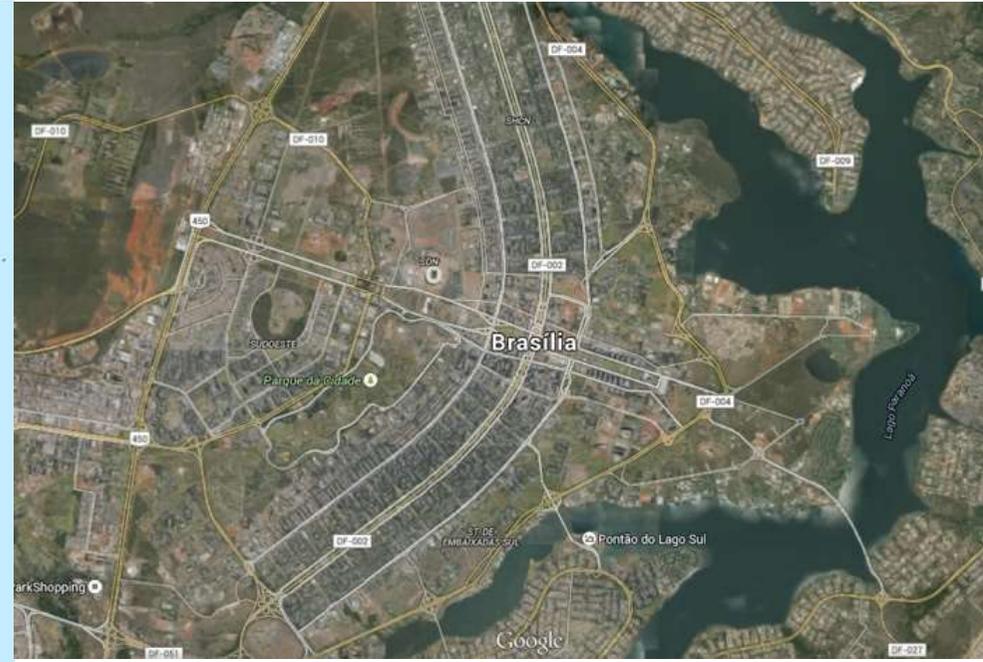
Overview, potential in research and graduate studies, regional insertion and international cooperation



BRASIL



BRASÍLIA



Area of the Federal District $\approx 5,000 \text{ km}^2$

Altitude: 1,100 m



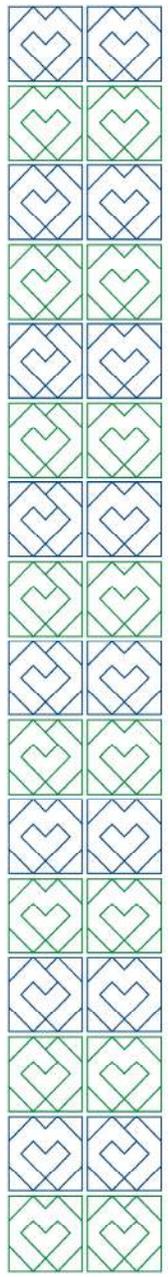
BRASÍLIA

- **Capital of Brazil**, *inaugurated on April 21^{st.}, 1960*
- **Modern, multicultural city**
- **Hosts foreign embassies**
- **Receptive to visitors from other countries**
- ***Population: around 3 million***



BRASÍLIA





UNIVERSITY OF BRASÍLIA

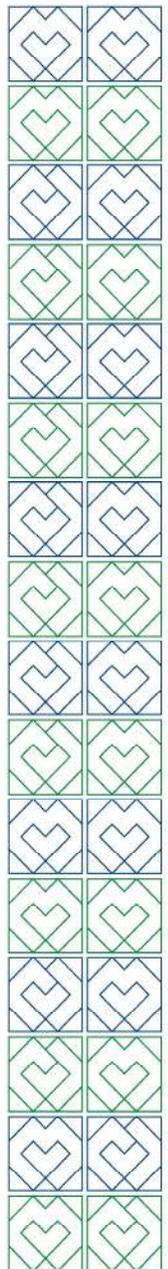
- The University of Brasilia offers **free public education** of excellence for Brazilian and foreign students, with a humanistic, embracive and plural perspective of citizens' rights.
- The University of Brasilia was created in 1962 following the joint vision of the anthropologist Darcy Ribeiro and the educator Anísio Teixeira.
- The University of Brasilia has the highest rating in the Brazilian Ministry of Education's **General Course Index**.
- It has the largest conglomerate of academic facilities in the Center-West, with four campuses in the Federal District.



UnB



UnB,
sua linda



Universidade de Brasília



Dedicated to the promotion of free, inclusive and high-quality education, UnB is among the best universities in Brazil.

Photo: Bento Viana/Divulgação



WORLD INTERNATIONAL RANKINGS 2019

- 8th University in Brazil In Times Higher Education (THE) Ranking 2019
 - Ranking: 801-1000 (three positions compared to 2018)
- Admission to THE Emergent Countries
 - 201-250 among 372 universities
- 737th Position in the Center for World University Rankings (CWUR)
 - From 973 to 737



UnB in Numbers

39,624

undergraduate
students

2,800

Professors

3,100

technical staff

2%

international
students

8,310

postgraduate students

3,700

doctorate students

4,336

master students

6%

international staff

161

undergraduate courses

158

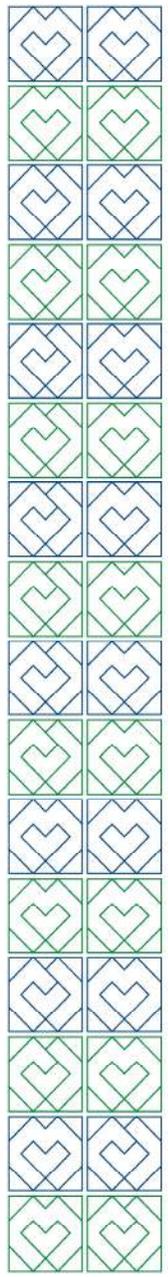
graduate courses

270

Agreements
China - 08

26

institutes



Universidade de Brasília

Four campuses



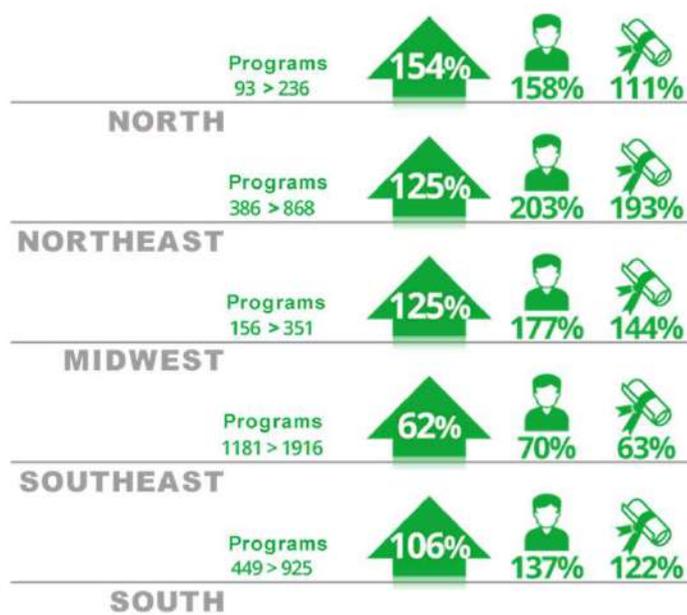
[VIDEO INSTITUCIONAL UNB 13 09 2018 legendado.mp4](#)



National System - CAPES

Growth of Brazilian Postgraduate (2006-2017)

Programs of Postgraduate. Enrolled and graduate.



National System for Graduate Studies

2017

4.296
programs

6.434
courses

3.476
masters

2.219
doctorates

739
professional masters

278.792
enrolled

82.738
graduates

2019

4.564
programs

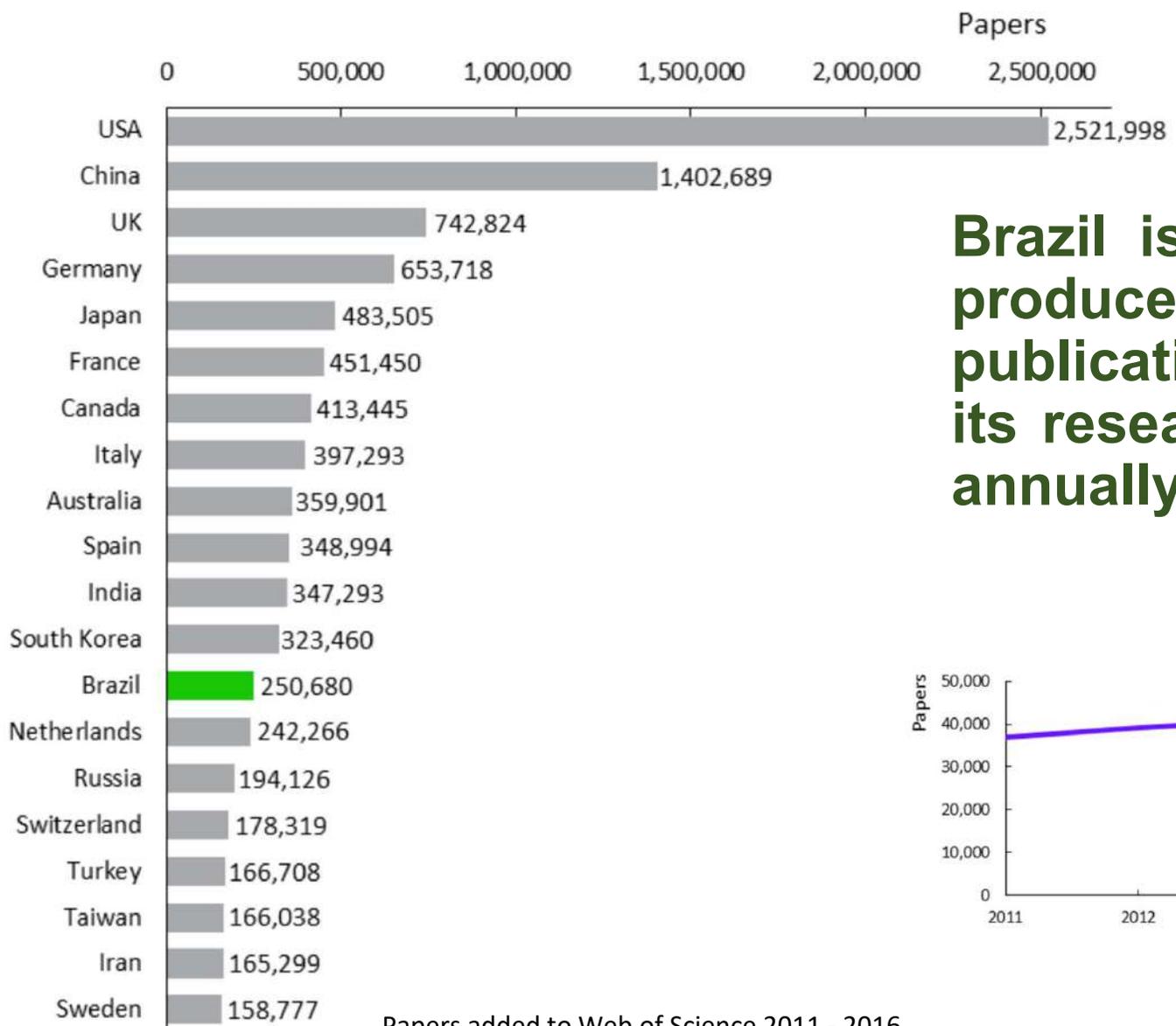
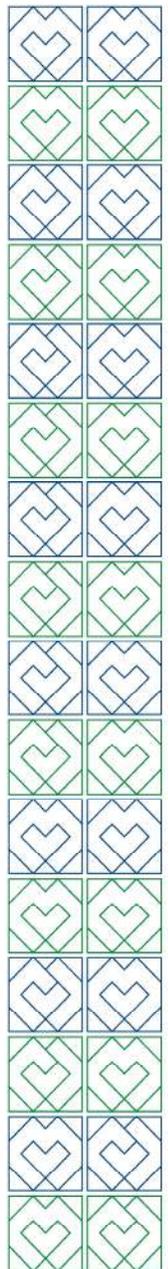
6.877
courses

3.636
masters

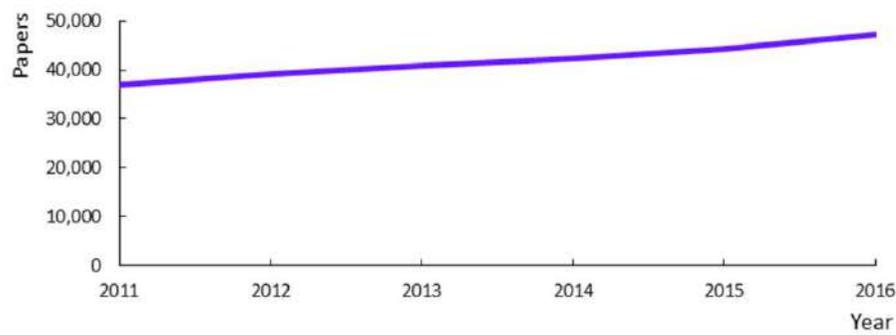
2.380
doctorates

837
professional
Masters

24
professional
doctorates

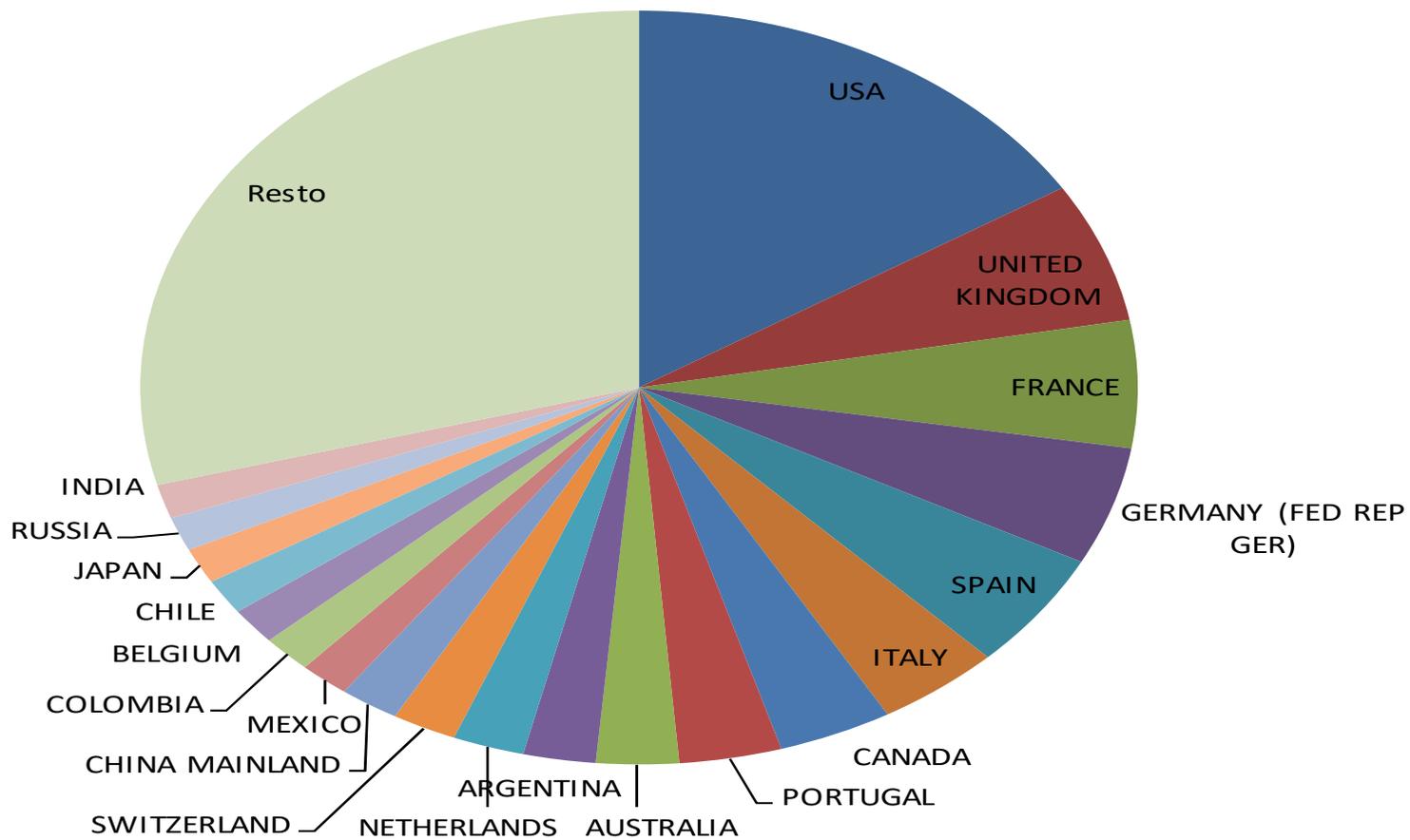


Brazil is the 13th largest producer of research publications globally and its research output grows annually

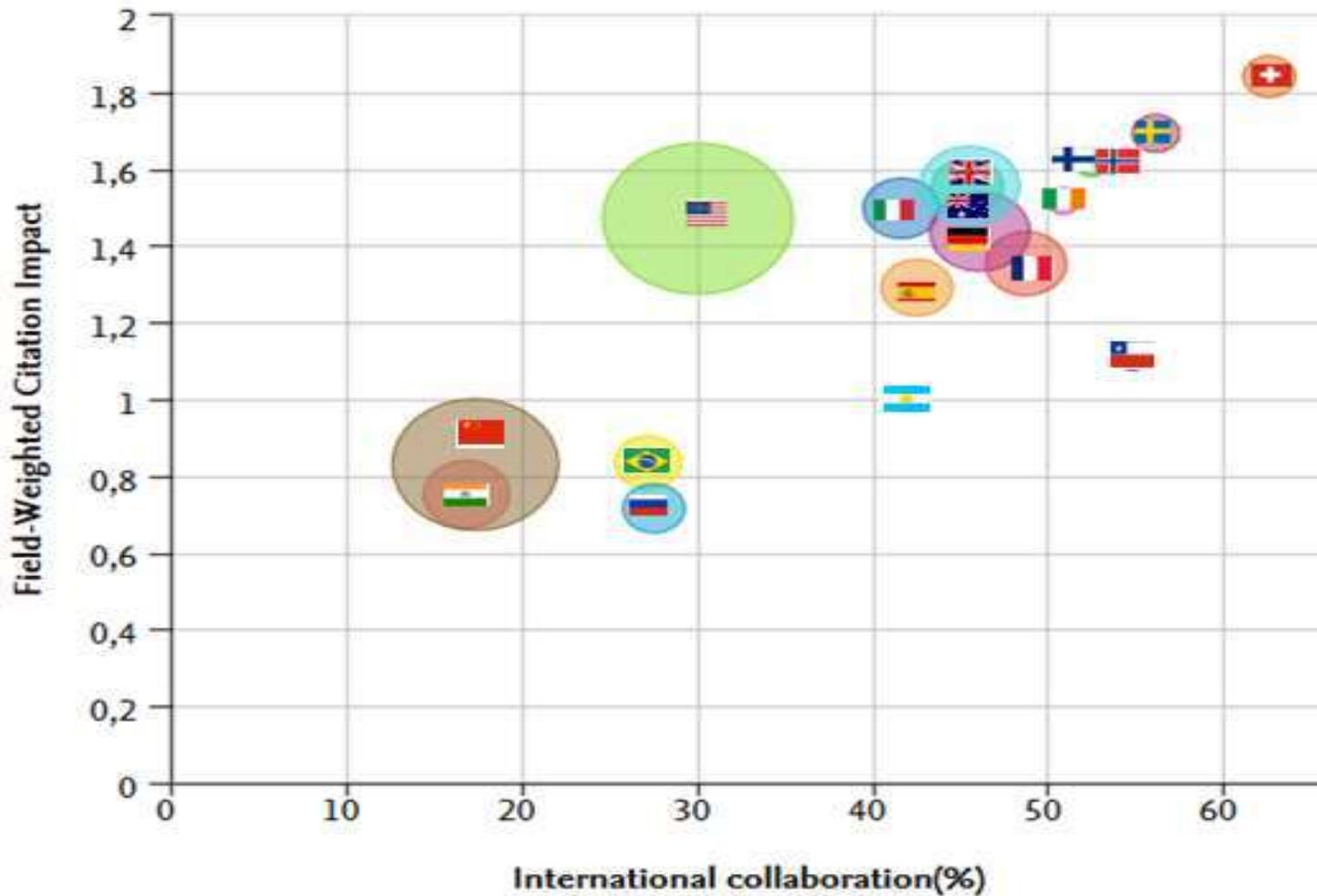


Papers added to Web of Science 2011 - 2016

Publications with Brazil

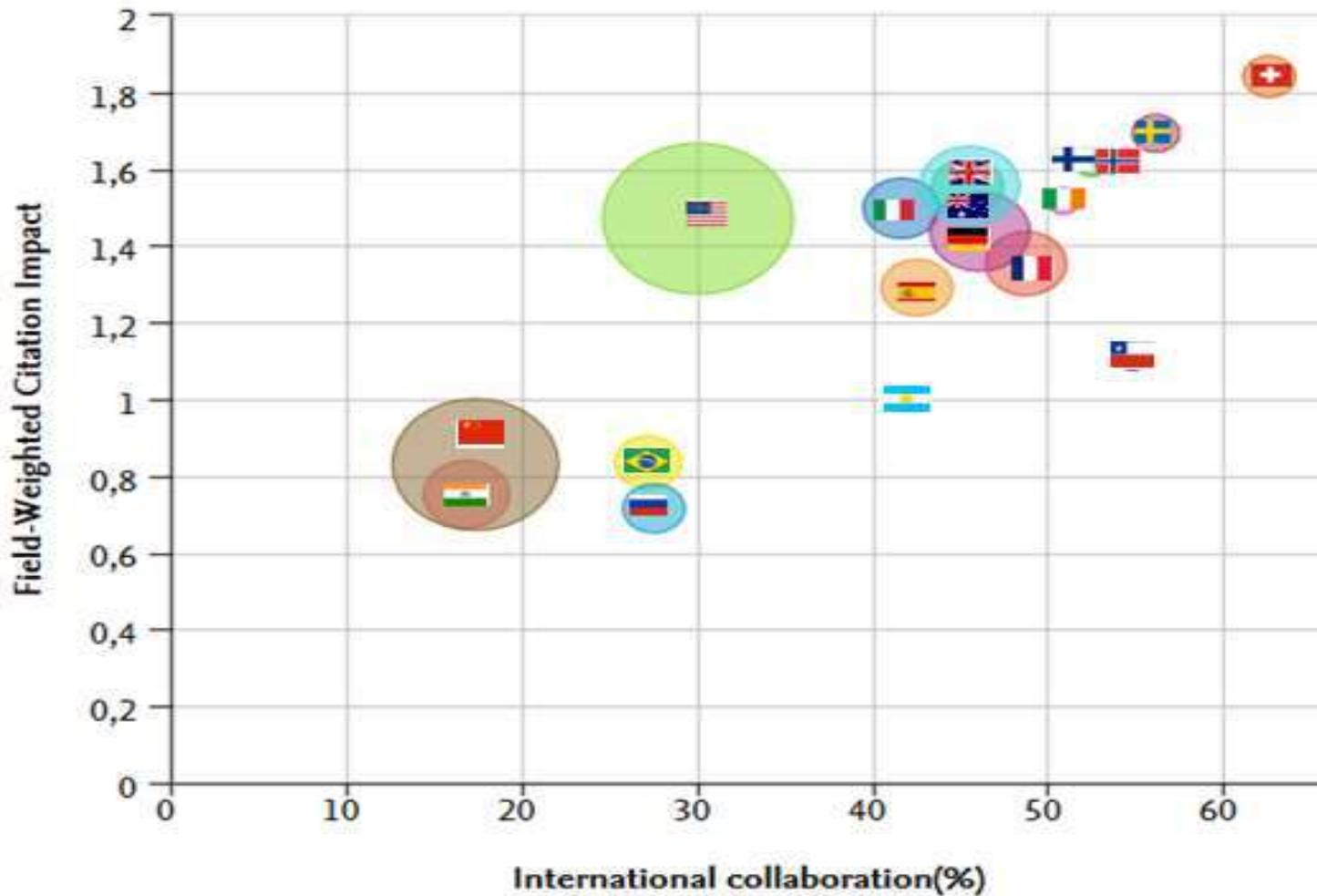


Research Challenges in Brazil



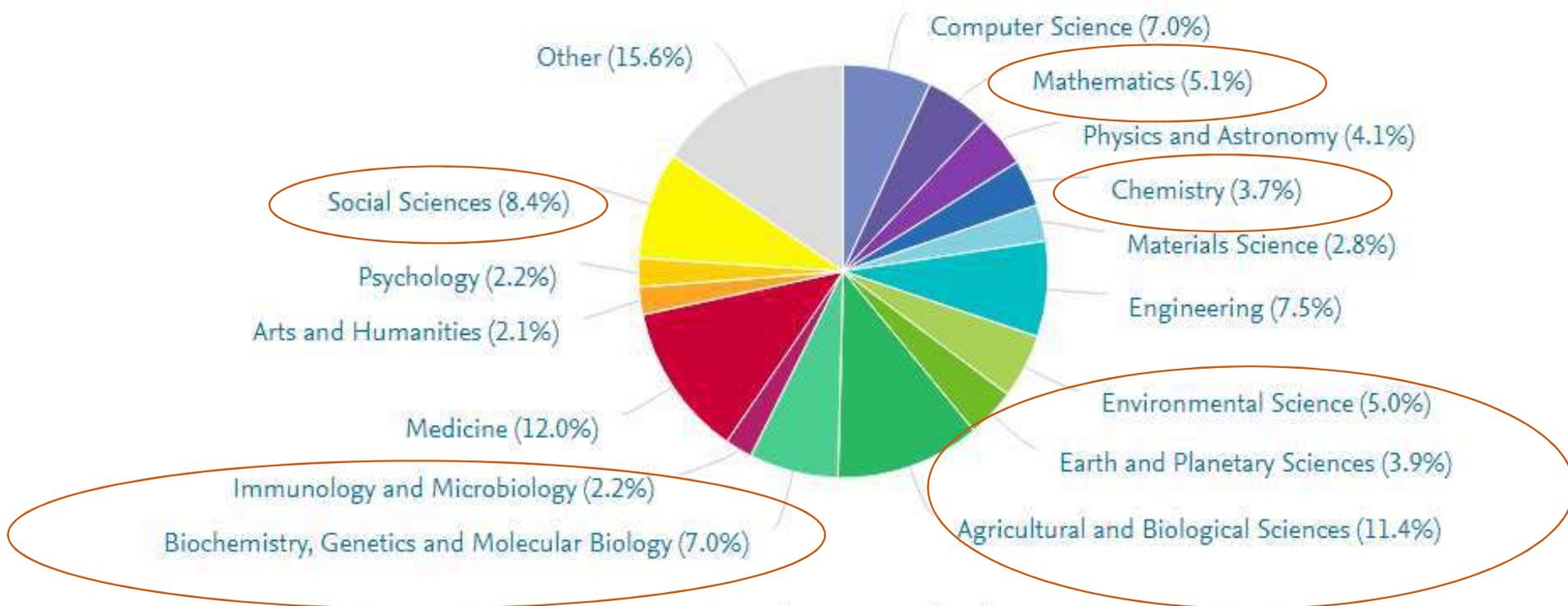
Brazil's citation impact has historically been below the world average but has increased by more than 15% over the past six years

Research Challenges in Brazil



Brazil produces some very highly-cited papers and has achieved good rates of papers in the world's top 1%

Overall research performance UnB



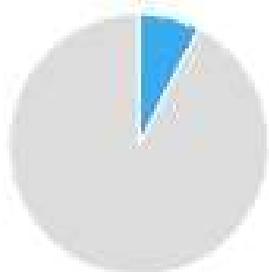
Year range: 2015 to 2019

Data source: Scopus, up to 12 Apr 2019



Research Performance UnB

Publications in top 10% most cited worldwide



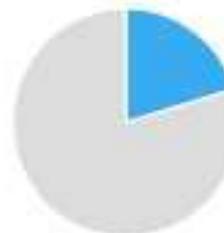
Universidade de Brasilia:

7.7%

Brazil:

9.1%

Publications in top 10% journals by Cited Score Percentile



Universidade de Brasilia:

20.3%

Brazil:

20.9%

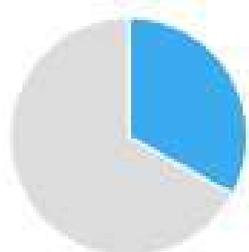
Year range: 2015 to 2019

Data source: Scopus, up to 12 Apr 2019



Research Performance UnB

Publications co-authored with
Institutions in other countries



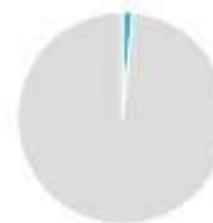
Universidade de Brasilia:

33.0%

Brazil:

31.9%

Publications with both academic and
corporate affiliations



Universidade de Brasilia:

1.6%

Brazil:

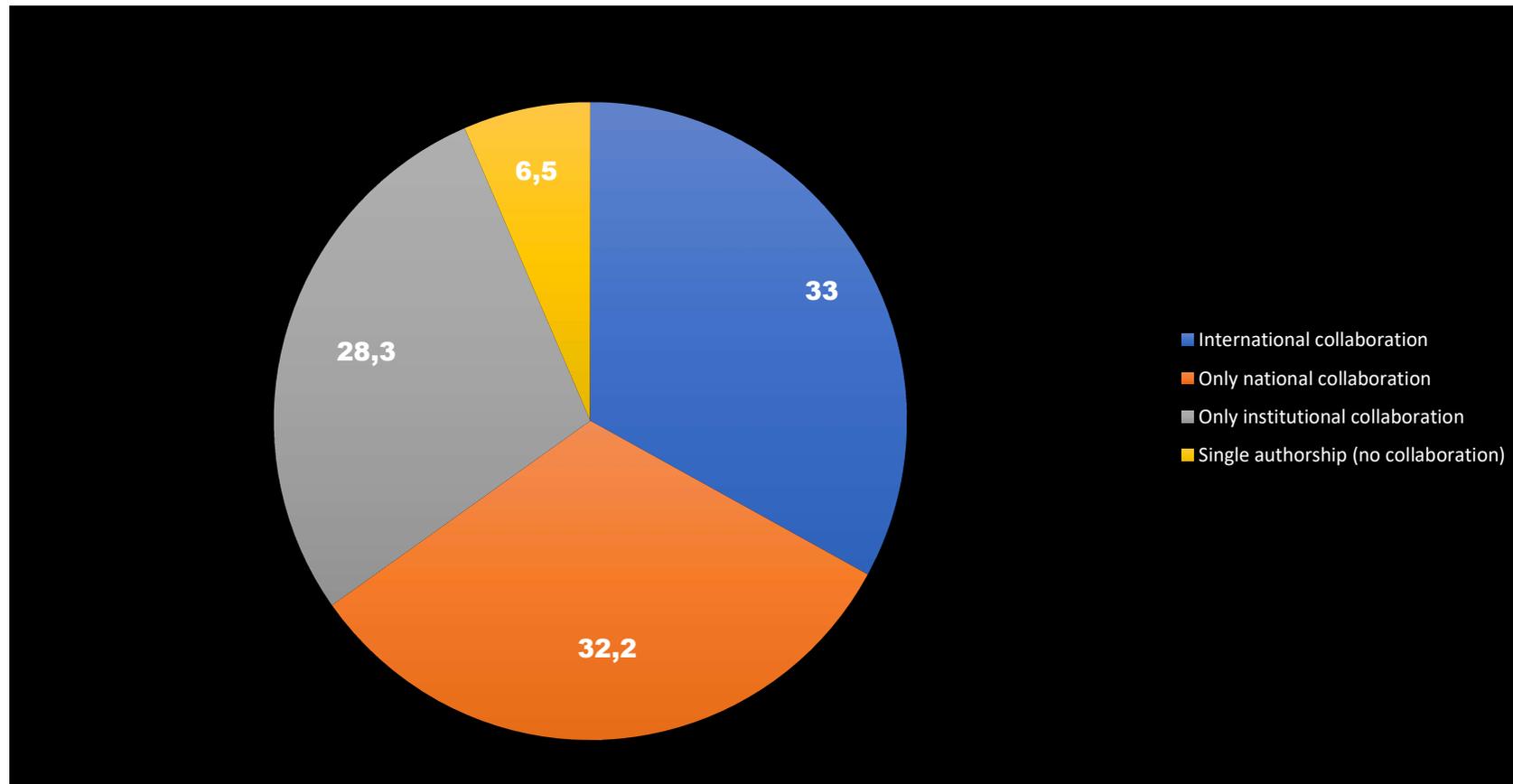
1.9%

Year range: 2015 to 2019

Data source: Scopus, up to 12 Apr 2019



Publication collaboration (2015-2018) UnB



Data source: Scopus, up to 12 Apr 2019



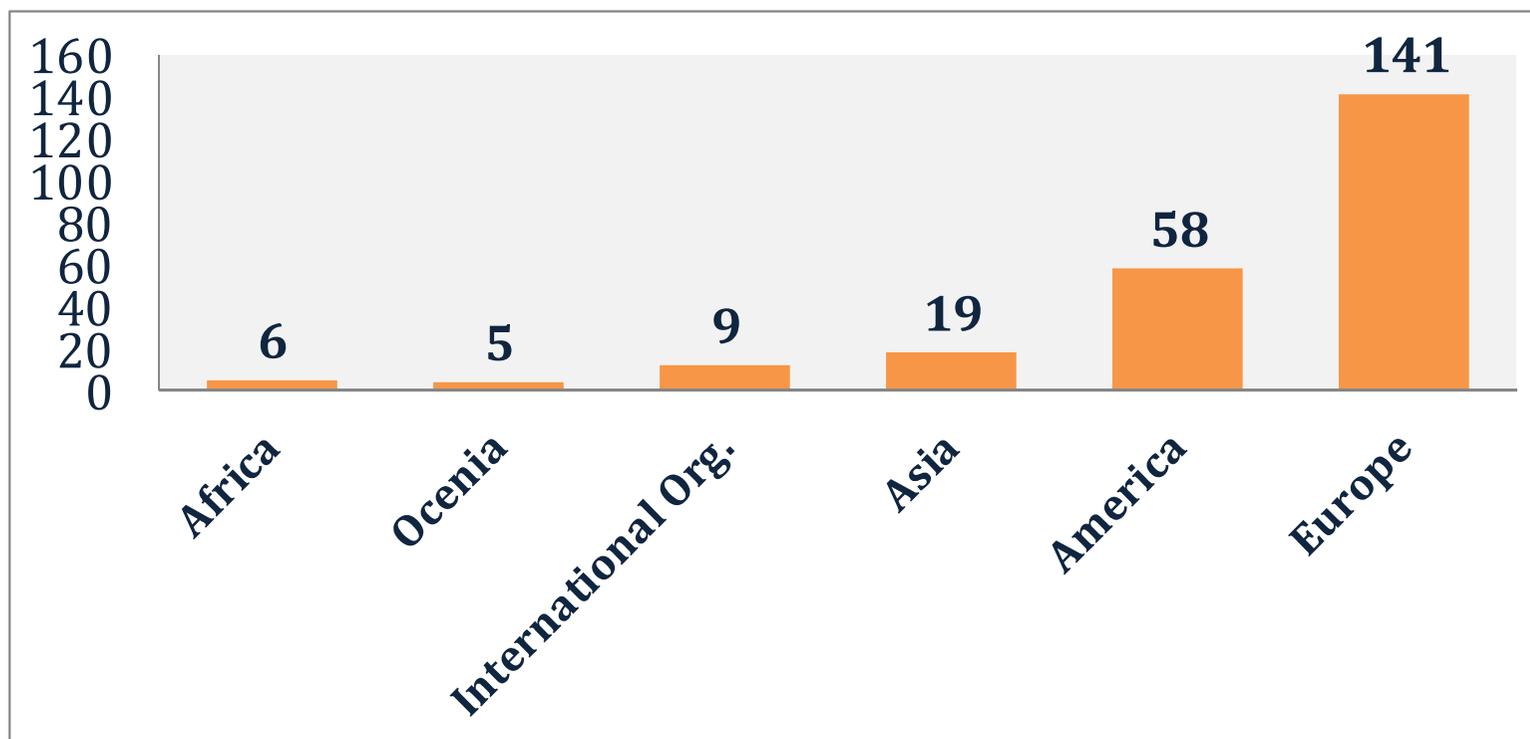
Impact of collaboration (2015-2018)

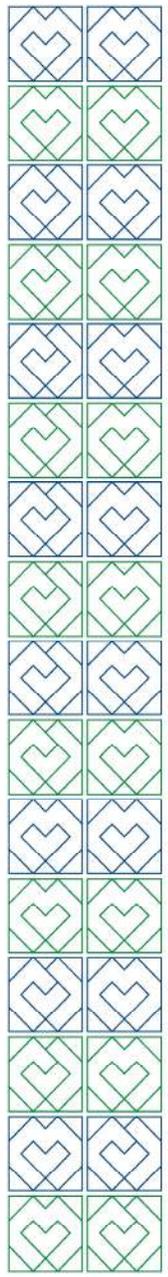
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Metric	Publications	Citations	Citations per Publication	Field-Weighted Citation Impact
International collaboration	3.041	25.597	8,4	2,13
Only national collaboration	2.963	8.146	2,7	0,65
Only institutional collaboration	2.601	4.297	1,7	0,5
Single authorship (no collaboration)	595	412	0,7	0,47

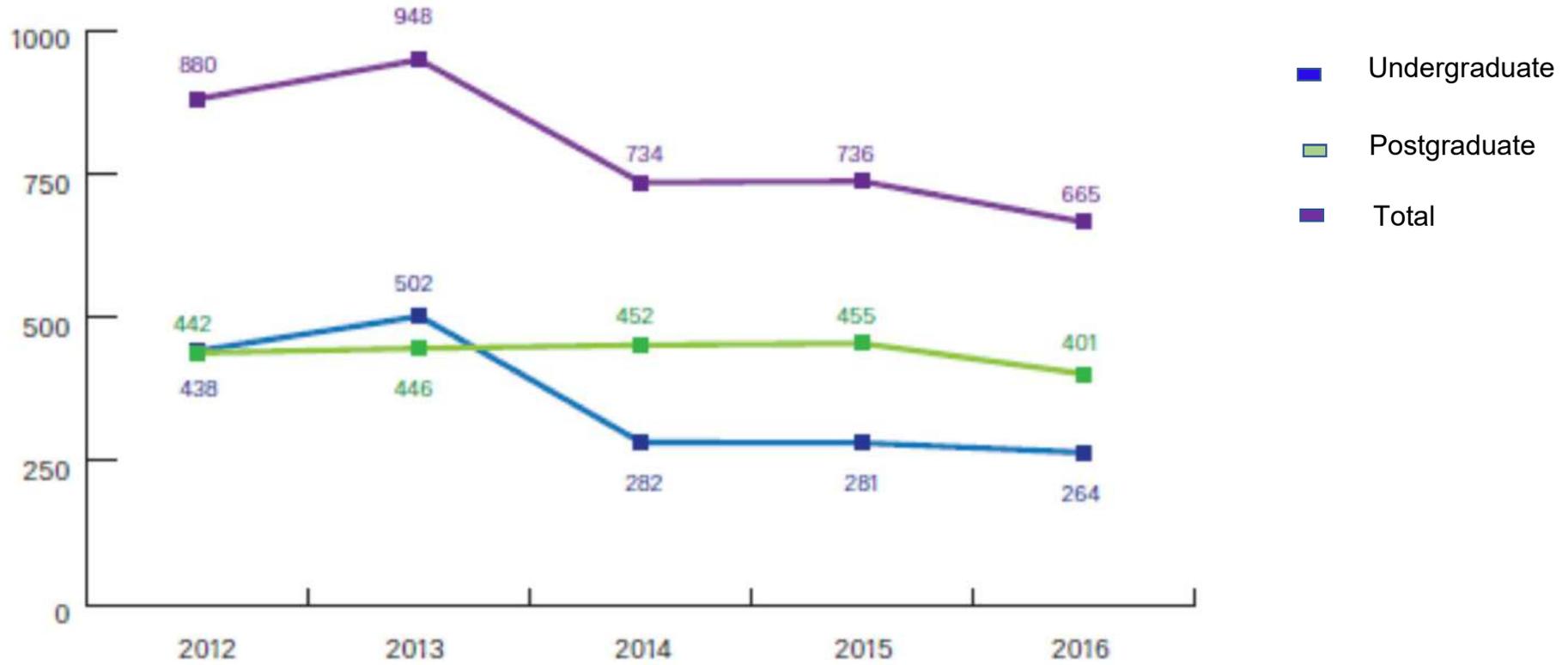


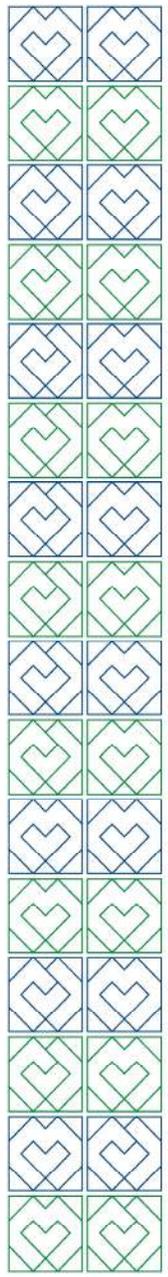
INTERNATIONAL COOPERATION Agreements





Evolution of the number of international students

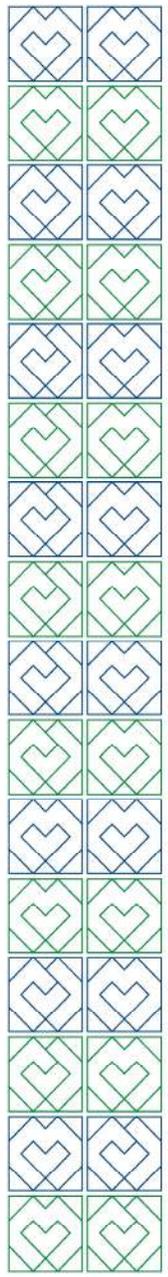




International Institutes at UnB

- Casa da Cultura da América Latina (Latin America Cultural House)
- Casa Franco-Brasileira da Ciência (French-Brazilian Science House)
- Confucio Institute
- Sejong King Institute – Korea Brazil Society (KOBRAS)
- International Catedras

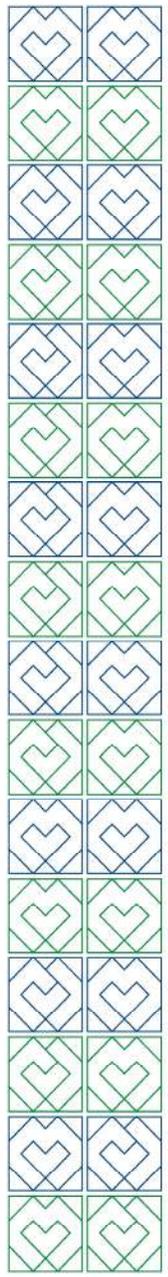




GRADUATE STUDIES

- 3.558 research projects, in all areas
- International projects
 - Canada
 - United States
 - Europe
 - Latin America
 - China
 - Others





GRADUATE STUDIES

- **Foreign Professors in Graduate Programs**
- **Researchers and professor mobility**
 - Many professors studied abroad and have international collaboration
 - Support for post-doctoral internships
 - Sandwich PhD possibility



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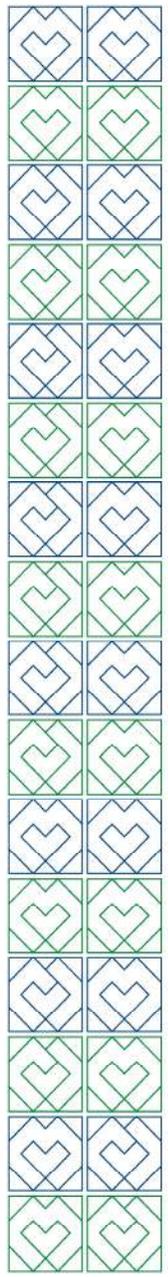


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GRADUATE STUDIES

- 4 teachers with training in China – 1 woman and 3 men ;
- 6 teachers with Chinese naturalness – 1 woman e 5 men.

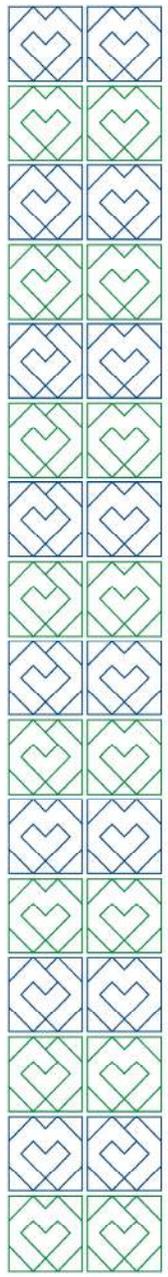




GRADUATE STUDIES: important informations

- **Co-tutelle and double and triple degree courses**
- **Many international Research projects**
- **Language School**
- **Support for publishing in international magazines**
- **Modern laboratories**





GRADUATE STUDIES FOR INTERNATIONAL STUDENTES AT UnB

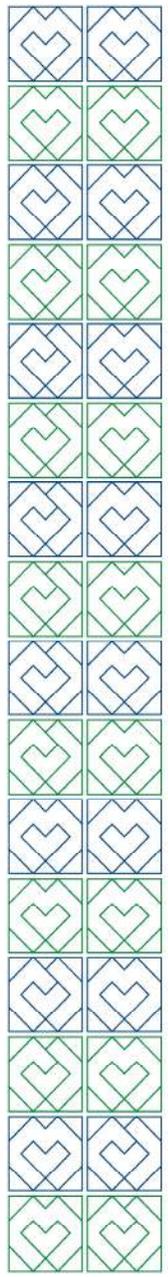
- **Challenges**

- **Language**

- **Increase the participation in research networks**

- **Funding**

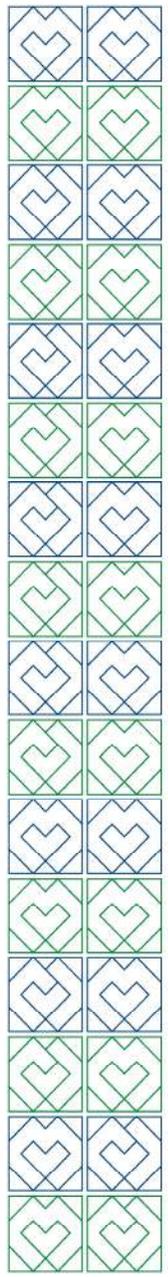




CAPESPrINT

To promote the ongoing development of high-level researchers and professionals working in the development of science, technology, and/or innovation to address the complex contemporary issues emerging in local and global contexts.



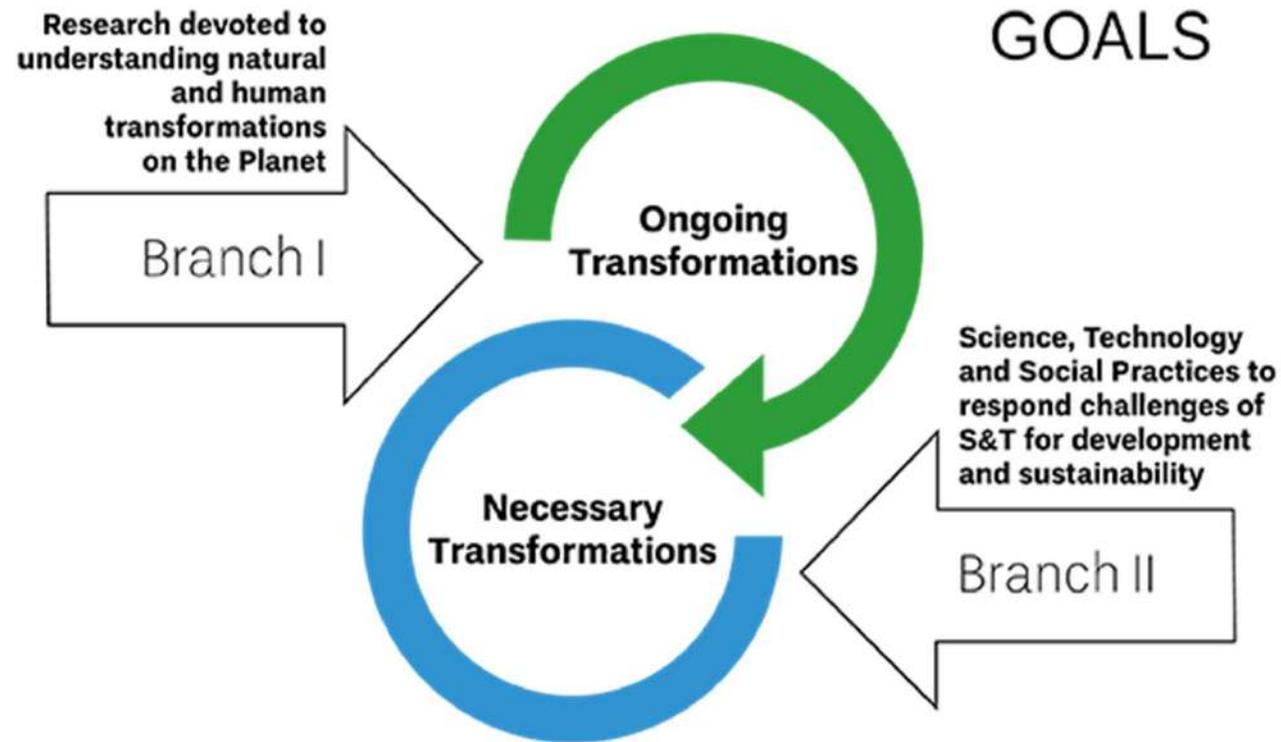


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- Question to be addressed: the transformation of *Planet Earth* in *different dimensions* – geological, ecological, socio-cultural, political, and economic.
- Some of these *transformations trigger crises* (e.g., environmental disasters, epidemics, deepening inequality, starvation, intolerance) and call for the *formulation of innovative* (theoretical and practical) *solutions*, which should consider the challenges of development and sustainability for life on Earth today and into the future.

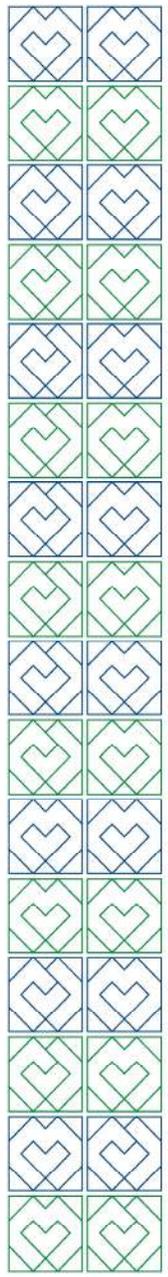


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Six priority themes have been selected to address this overarching issue, organized into two branches





Priority themes

Theme 1
**Natural and Human
Dynamics Affecting the
Planet**

Theme 2
**Inequality, Globalization, and
their Effects on
Contemporary Society**

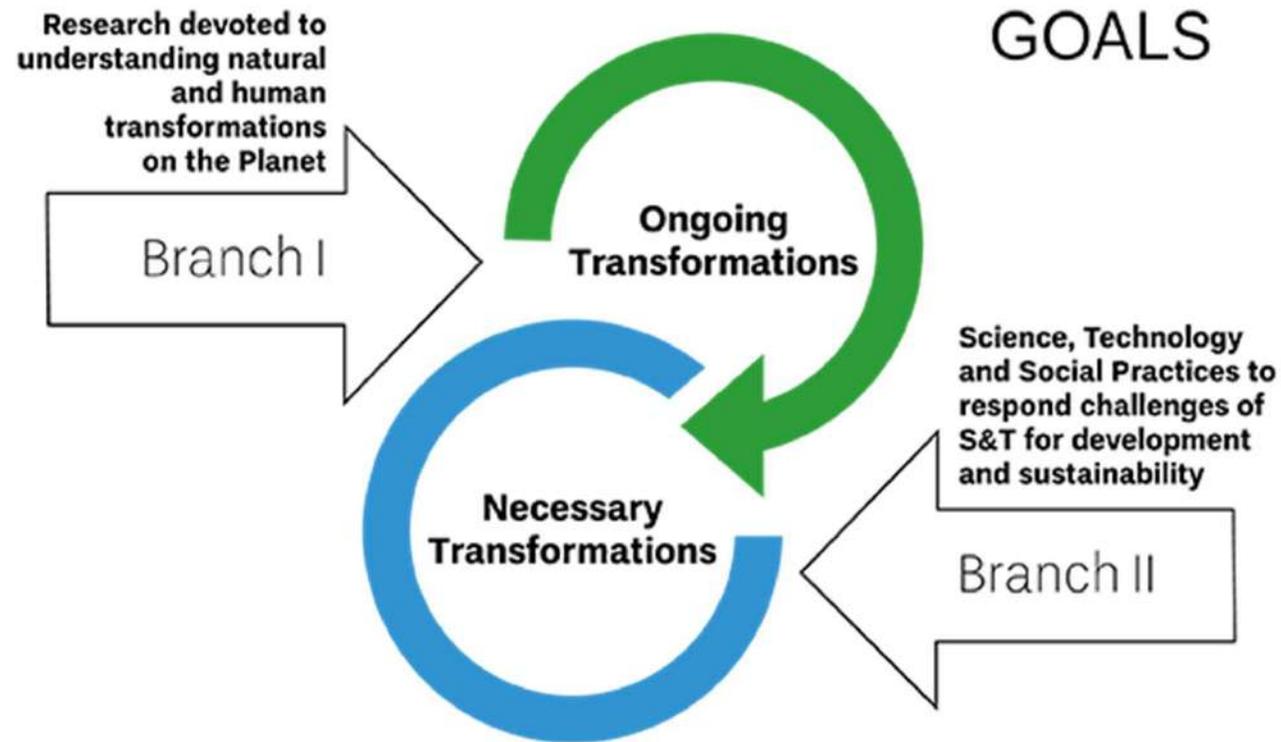
Theme 3
**Life and Health in a
Changing World**

Theme 4
**S&T for Development and
Sustainability**

Theme 5
**Diversity, Social Practices,
and Affirmation of Rights**

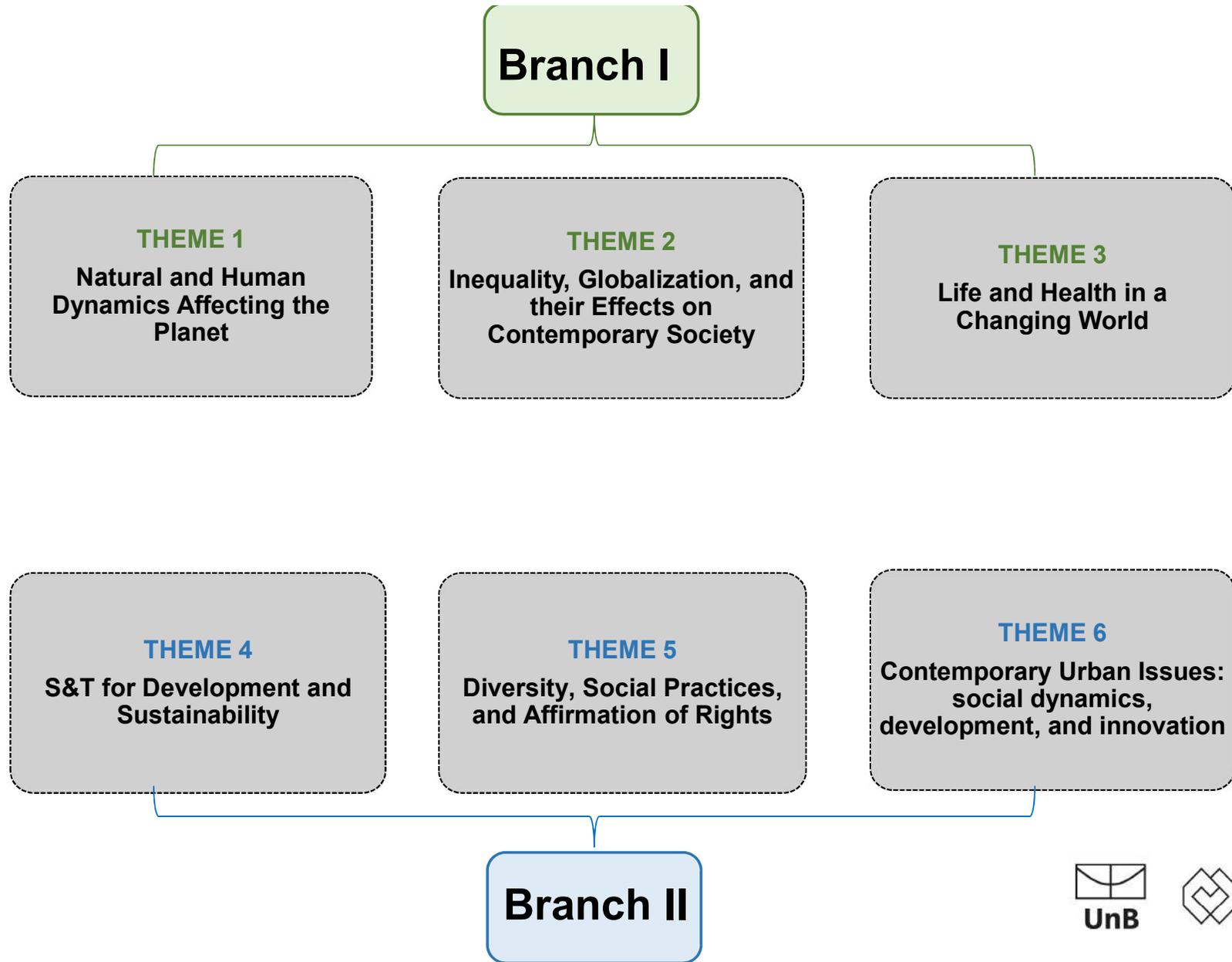
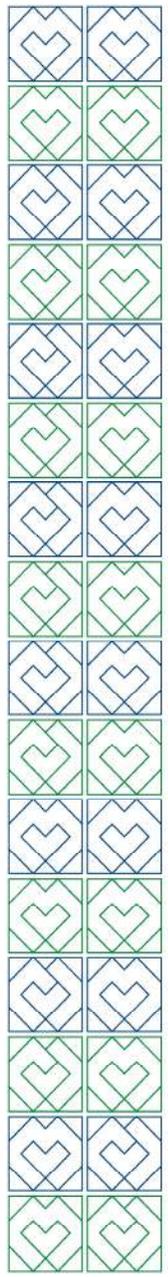
Theme 6
**Contemporary Urban Issues:
social dynamics,
development, and innovation**

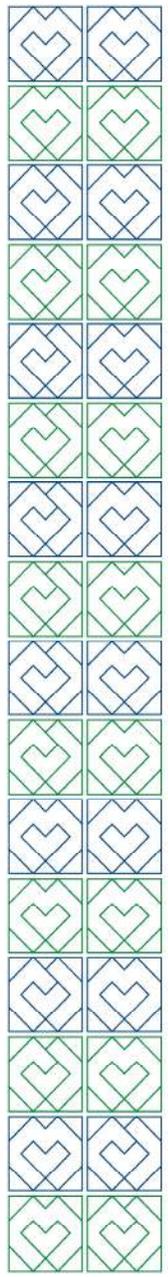
CAPESPrint UnB



Six priority themes have been selected to address this overarching issue, organized into two branches







Ongoing Transformations

SUBTHEMES

Graduation Programs

THEME 1
Natural and Human Dynamics Affecting the Planet

- 1.1. History of the Dynamics of Life on Earth: paleoenvironment, climate change, and socio-environmental impacts
- 1.2. **Mineral, Petroleum, and Water Systems: geodynamics, commodities, and socio-economic significance**
- 1.3. Changes in Land Use and Natural Resource Usage
- 1.4. New Materials (Rare metals, sources of raw materials)

Anthropology, Biological Sciences (Molecular Biology), Sustainable Development, Law, Ecology, Economics, Informatics, Geology, Geography, Geotechnics, Mathematics, Chemistry

THEME 2
Inequality, Globalization, and their Effects on Contemporary Society

- 2.1. Democracy, nation-states, and global governance
- 2.2. **Inequality and transformations in the world of work, population flows, and social subjectivities**

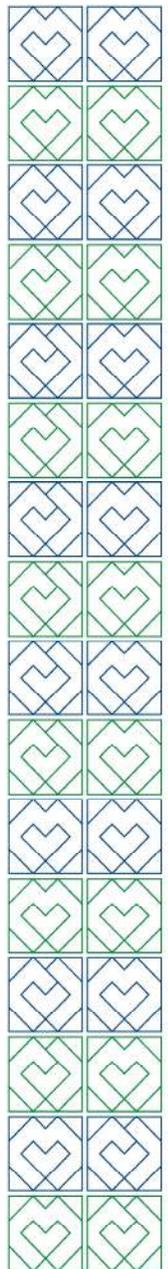
Administration; Anthropology; Chemistry; Law; Ecology; Economics; Education; Information Science; Informatics; Geography; Human and Health Development; International Relations; Linguistics; Literature; Mathematics; Political Science; Social Policy; Sociology; Social, Occupational, and Organizational Psychology; Sustainable Development.

THEME 3
Life and Health in a Changing World

- 3.1. Genetic and molecular mechanisms in diseases
- 3.2. **Health and society, epidemiology of chronic, emerging, and neglected infectious and non-infectious diseases**

Bioethics; Biological Sciences (Molecular Biology), Clinical and Cultural Psychology; Health Sciences; Medical Sciences; Informatics, Geography, Molecular Pathology





Ongoing Transformations

SUBTHEMES

Countries

THEME 1
Natural and Human Dynamics Affecting the Planet

- 1.1. History of the Dynamics of Life on Earth: paleoenvironment, climate change, and socio-environmental impacts
- 1.2. Mineral, Petroleum, and Water Systems: geodynamics, commodities, and socio-economic significance
- 1.3. Changes in Land Use and Natural Resource Usage
- 1.4. New Materials (Rare metals, sources of raw materials)

Norway, Denmark, Canada, Finland, **China**, Australia, The United States, Belgium, Spain, Italy, Germany, France, the United Kingdom, Sweden, South Africa, Argentina (16)

THEME 2
Inequality, Globalization, and their Effects on Contemporary Society

- 2.1. Democracy, nation-states, and global governance
- 2.2. Inequality and transformations in the world of work, population flows, and social subjectivities

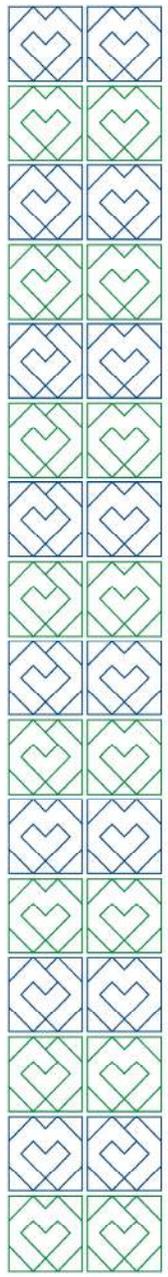
Germany, Netherlands, France, United Kingdom, Sweden, Switzerland, México, Portugal, Australia, Belgium, Spain, United States, New Zealand, Italy, Argentina, South Africa, **China**, Canada, Finland, Japan, Denmark (21)

THEME 3
Life and Health in a Changing World

- 3.1. Genetic and molecular mechanisms in diseases
- 3.2. Health and society, epidemiology of chronic, emerging, and neglected infectious and non-infectious diseases

Sweden, Japan, Denmark, France, Canada, Switzerland, the United Kingdom, Belgium, Switzerland, the United States, Germany, Portugal, the Netherlands, Argentina, Mexico, Australia, Spain (16)





Ongoing Transformations

SUBTHEMES

Countries

THEME 2
Inequality, Globalization, and their Effects on Contemporary Society

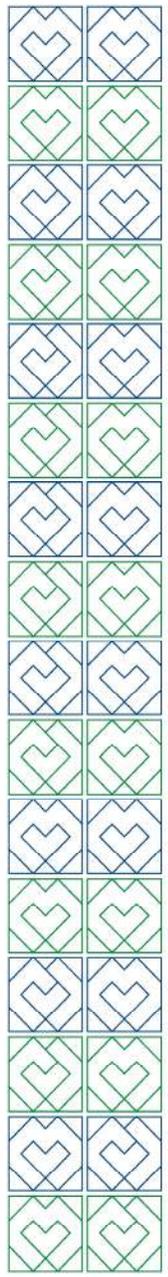
2.1. Democracy, nation-states, and global governance

2.2. . Inequality and transformations in the world of work, population flows, and social subjectivities



Administration; Anthropology; Chemistry; Law; Ecology; Economics; Education; Information Science; Informatics; Geography; Human and Health Development; International Relations; Linguistics; Literature; Mathematics; Political Science; Social Policy; Sociology; Social, Occupational, and Organizational Psychology; Sustainable Development.





Necessary Transformations

SUBTHEMES

Graduation Programs

THEME 4
S&T for Development and Sustainability

- 4.1. . Improvement of techniques for managing natural resources in an integrated and sustainable manner:
- 4.2. Development of biotechnological methods and techniques that enable the creation of novel industrial processes
- 4.3. Production of new knowledge about Cerrado
- 4.4. 4.4 Identification of new pharmacological targets and development of new forms of therapeutic intervention

Molecular Biology, Animal Science, Ciência da Informação, Healthy Science, Ciências Médicas, Desenvolvimento. Sustentável, Ecologia, Geografia, Geologia, Geotecnia, Informática, Patologia Molecular, Processos de Desenvolvimento Humano e Saúde, Psicologia Clínica e Cultural

THEME 5
Diversity, Social Practices, and Affirmation of Rights

- 5.1. . Social and educational practices and the promotion of human development
- 5.2. Valuing socio-cultural diversity and the affirmation of rights (including the right to difference and the right to culture):

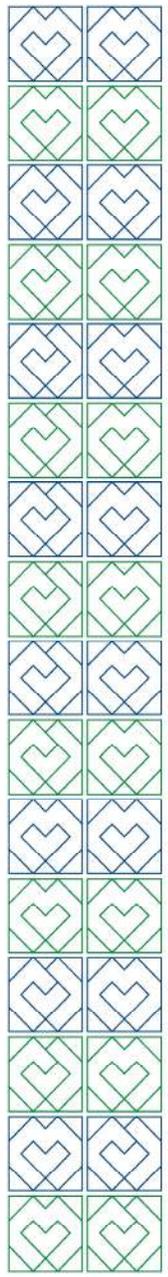
Animal Sciences, Biological Sciences (Molecular Biology), Clinical Psychology and Culture, Chemistry, Informatics, Ecology, Economics, Plant Pathology, Geology, Geography, Medical Sciences, Healthy Sciences, Sustainable Development, Molecular Pathology

THEME 6
Contemporary Urban Issues: social dynamics, development, and innovation

- 6.1. **Environmental issues, technology, and sustainability**
- 6.2. Urban social dynamics

Anthropology , Ecology, Education , Geology, Geography, Geotechnics, Social Psychology and the Psychology of Work and of Organizations, Mathematics, Social Policy, Processes of Human Development and Health, Chemistry





Necessary Transformations

SUBTHEMES

Countries

TEMA 4
S&T for Development and Sustainability

- 4.1. Improvement of techniques for managing natural resources in an integrated and sustainable manner:
- 4.2. Development of biotechnological methods and techniques that enable the creation of novel industrial processes
- 4.3. Production of new knowledge about Cerrado
- 4.4 4.4 Identification of new pharmacological targets and development of new forms of therapeutic intervention

China, Canada, Denmark, the United States, France, Japan, Italy, Australia, Belgium, Spain, Germany, the Netherlands, the United Kingdom (13)

TEMA 5
Diversity, Social Practices, and Affirmation of Rights

- 5.1. Social and educational practices and the promotion of human development
- 5.2. Valuing socio-cultural diversity and the affirmation of rights (including the right to difference and the right to culture):

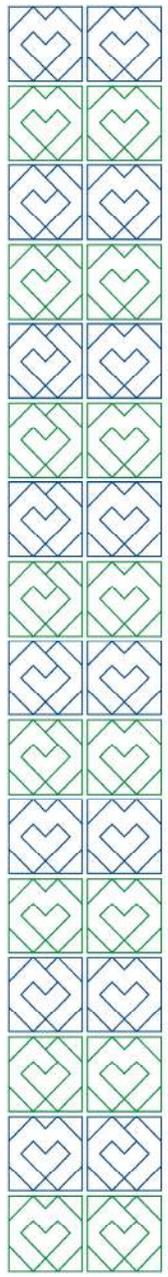
África do Sul , Alemanha, Argentina , Bélgica, Dinamarca, Espanha, Estados Unidos, França, Holanda, Itália, Japão, Suíça (12)

TEMA 6
Contemporary Urban Issues: social dynamics, development, and innovation

- 6.1. Environmental issues, technology, and sustainability
- 6.2. Urban social dynamics

Germany, the United States, Argentina, Australia, Canada, Spain, Switzerland, the United Kingdom, China, Italy, Sweden, France, Denmark.

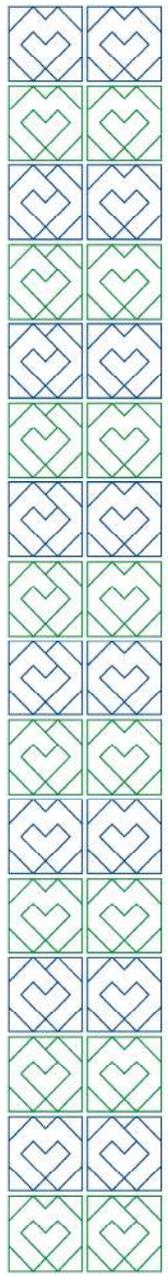




CAPESPrint UnB Cooperation

- *Technical and scientific missions - Organize joint technical and scientific missions, aiming at developing the research themes.*
- *Promote human resources development with cutting edge/innovative profiles insertion of the/with University of Brasília;*
- *Winter and Summers Schools - Offer winter and summer courses with the colleagues on priority research topics at the University of Brasília.*





CAPESPrint UnB Cooperation

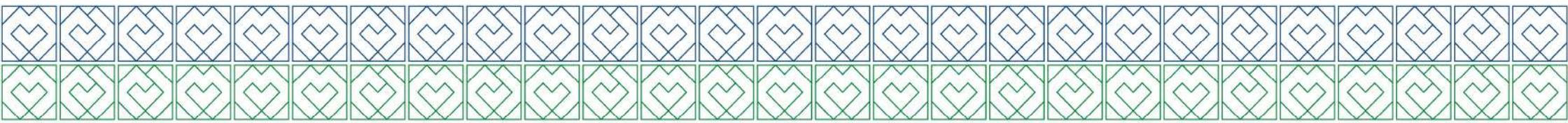
- *Organize scientific meetings with researchers after the technical and scientific missions return to dissemination of results;*
- *Multi-user laboratories - Support multi-user laboratories at the University, with ongoing international research projects. To have the opportunity to send and receive PhD students, etc;*
- *Postgraduate courses - Encourage the creation/offer of postgraduate courses with a high degree of internationalization and the participation inside the cooperation;*



CAPESPrint UnB Cooperation

- *Encourage the cooperation among professors/researchers in work missions in Brazil;*
- *Quality of institutional scientific production;*
-





UnB,
sua linda

meu orgulho é você

Adalene Moreira Silva
Dean of Graduate Studies

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