



Association of International
Education Administrators

2020 ANNUAL
CONFERENCE

*Rethinking Comprehensive
Internationalization for a
Global Generation*

Purposeful Global Engagement: Strengthening Cooperation with Brazil via CAPES Print

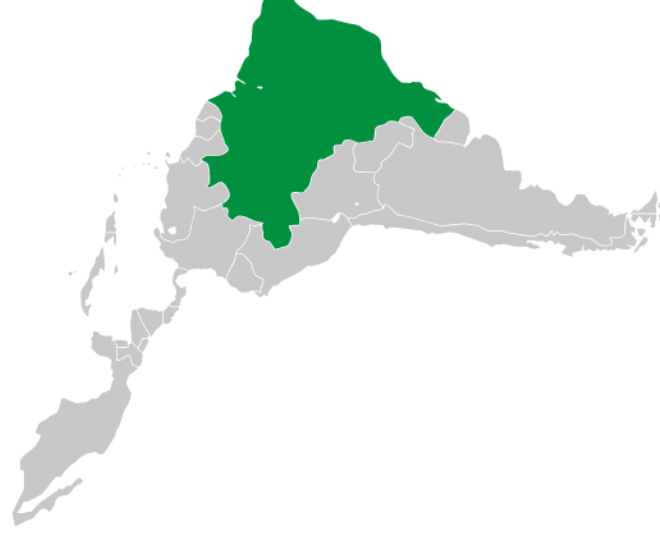
Maria Leonor Maia, UFPE – Brazil

José Celso Freire Junior, UNESP – Brazil

Ni Jadon, McMaster University, Canada

Brazil: Socioeconomic Context

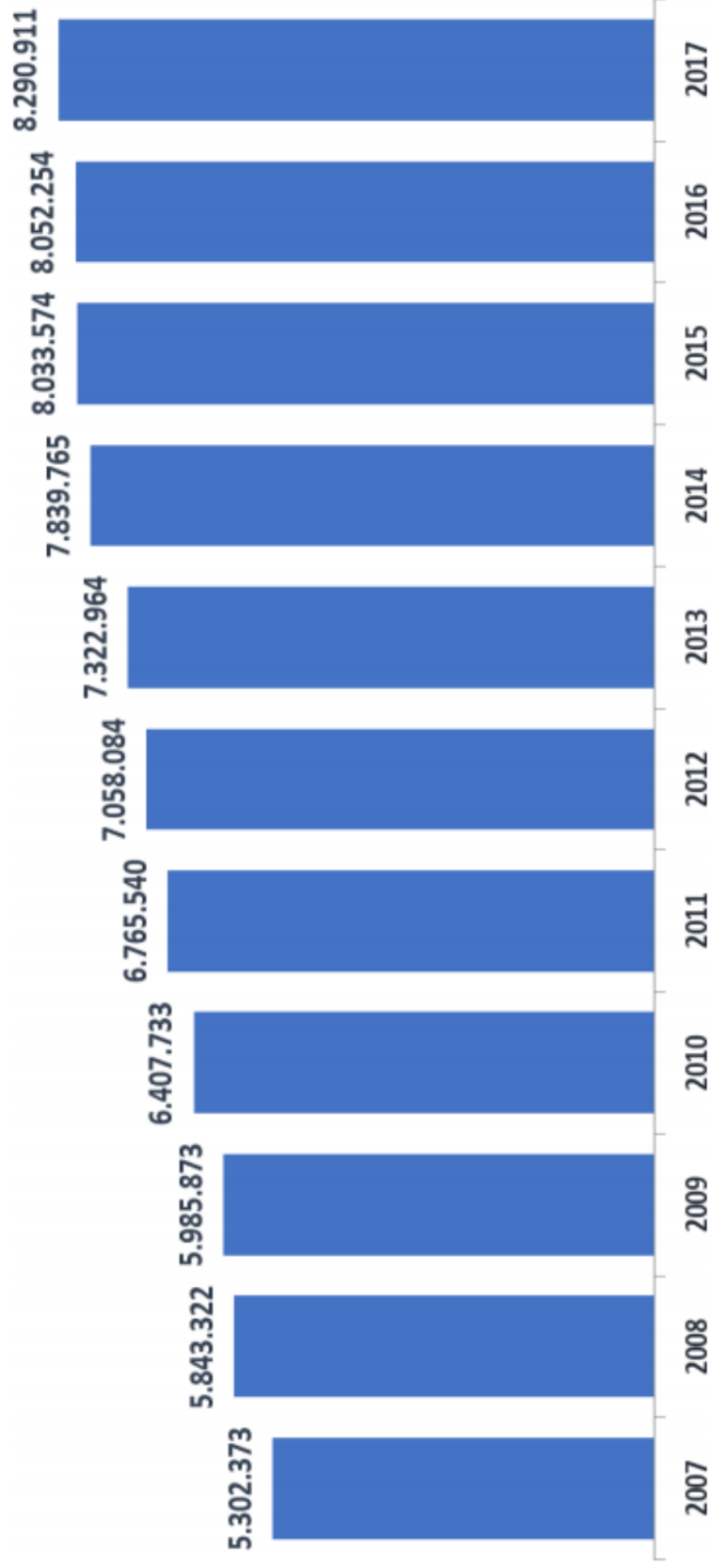
- Population of 209 million people
- Only Portuguese-speaking country in South America (6th most spoken language in the world)
- Largest economy in South America - 9th largest economy in the world
- Annual GDP: 1,6 trillion Euros
- Country full of socioeconomic contrasts
- Ranked 9th in the list of countries with unequal income distribution (Gini index)



Brazilian Higher Education System

HEI Type	Institutions		Enrollments	
	Total	%	Total	%
Total	2.448	100	8.290.911	100
Universities	199	8,1	4.443.601	53,6
University Centers	189	7,7	1.594.378	19,2
Colleges	2.020	82,5	2.070.747	25
Vocational	40	1,6	182.185	2,2

Brazilian HES: Enrollments



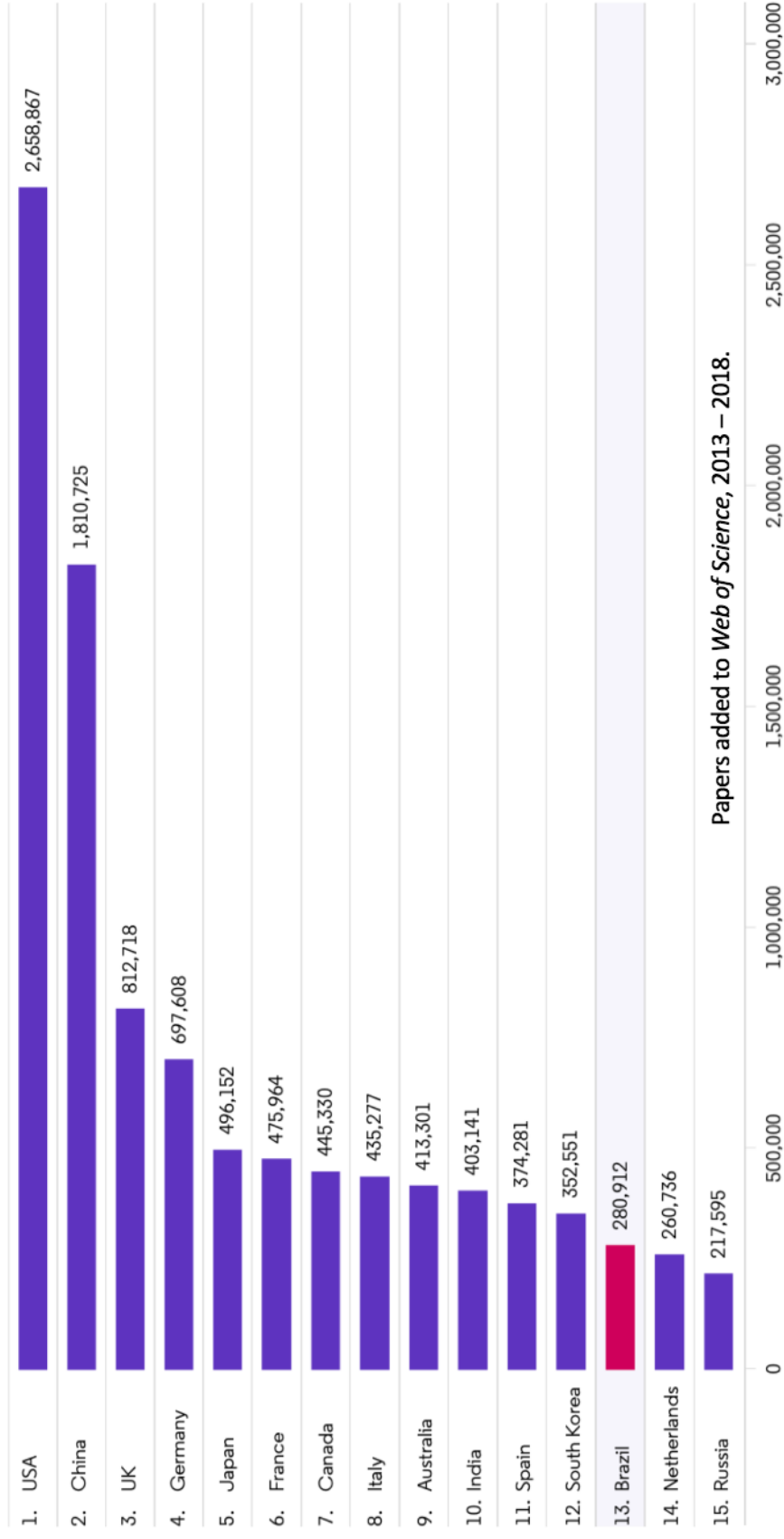
Brazil: Scientific Context

- **Decreased** importance of the Ministries of Science and Technology and Education with important cuts in their budgets
- The numbers of **patents** and articles published in Brazil are increasing, but those of developed countries as well, and in a more substantial way
- Universities, in general, **did not** have institutional plans for the internationalization of the science produced by their researchers – What is observed most of the time are individual initiatives of researchers
- **Urgent need** to develop links with industry – Academy almost dissociated from the industry

Brazil: Scientific Context

- Solid Post-Graduate System (geocapes.capes.gov.br)
 - 6.471 programs: 771 professionals master, 3.495 research master, 2.205 PhD
 - Number of students: 27.865 professionals master, 121.451 research master and 102.365 doctorate
 - Diplomas per year: 8.407 professionals master, 46.517 research master and 18.625 doctorate
- 37.640 research groups, 147.392 research themes and 254.239 researchers (lattes.cnpq.br/web/dgp/)

Brazil: Research Output indexed in WoS



© Clarivates Analytics - Research in Brazil: Funding Excellence: <https://tinyurl.com/yx4hylvx2>

CAPES Print Program

- Brazilian HEI will manage all the process – Money will be transferred to them by CAPES
- International HEI can only participate by partnering with Brazilian HEIs
- Focus on RESEARCH and mobility of faculty and Ph.D. students
- Importance of co-funding as a component to participate, both internal and from international partners
- All areas and not only STEM
- 36 HEIs selected

CAPES Print Program: Goals

- I. Strengthening and consolidation of the process of internationalization of the Brazilian Higher Education Institutions
- II. Increase the **qualification** of students, administrative staff and researchers / academics
- III. **Construction of strategic and symmetrical institutional partnerships**
- IV. **Increase the impact of the science**

CAPES PrInt Program: Participant HEIs

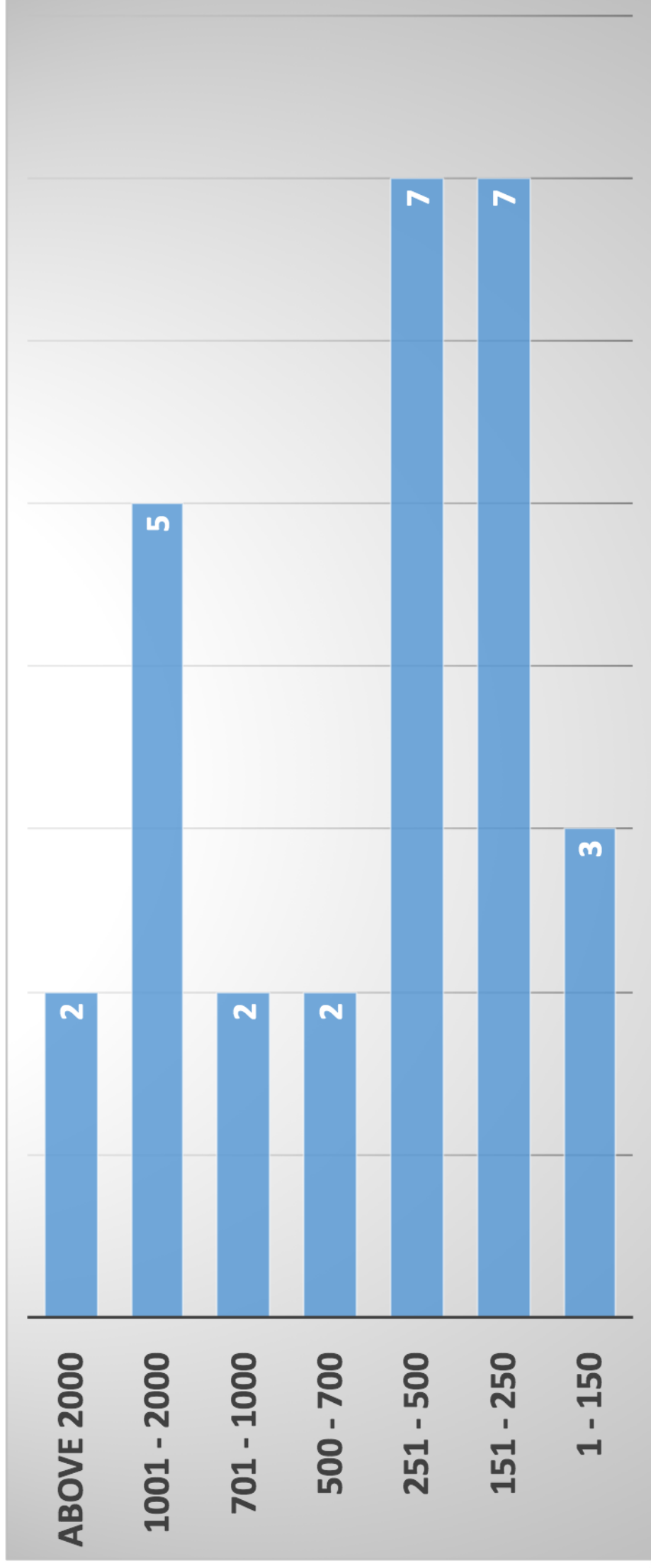
- Private
 - FGV
 - UNISINOS
- State (Public)
 - UERJ
 - UNESP
 - UNICAMP
 - USP
- Confessional
 - PUC-RIO
 - PUC-RS
 - UPM
- Federal (Public)
 - FIOCRUZ
 - FURG
 - INPE
 - ITA
 - UFABC
 - UFBA
 - UFC
 - UFES
 - UFF
 - UFLA
 - UFMG
- Federal (Public)
 - UFMS
 - UFPB
 - UFPE
 - UFPEL
 - UFPR
 - UFRGS
 - UFRJ
 - UFRN
 - UFRPE
 - UFSC
 - UFSCar
- Federal (Public)
 - UFSM
 - UFU
 - UFV
 - UnB
 - UNIFESP

28 respondents

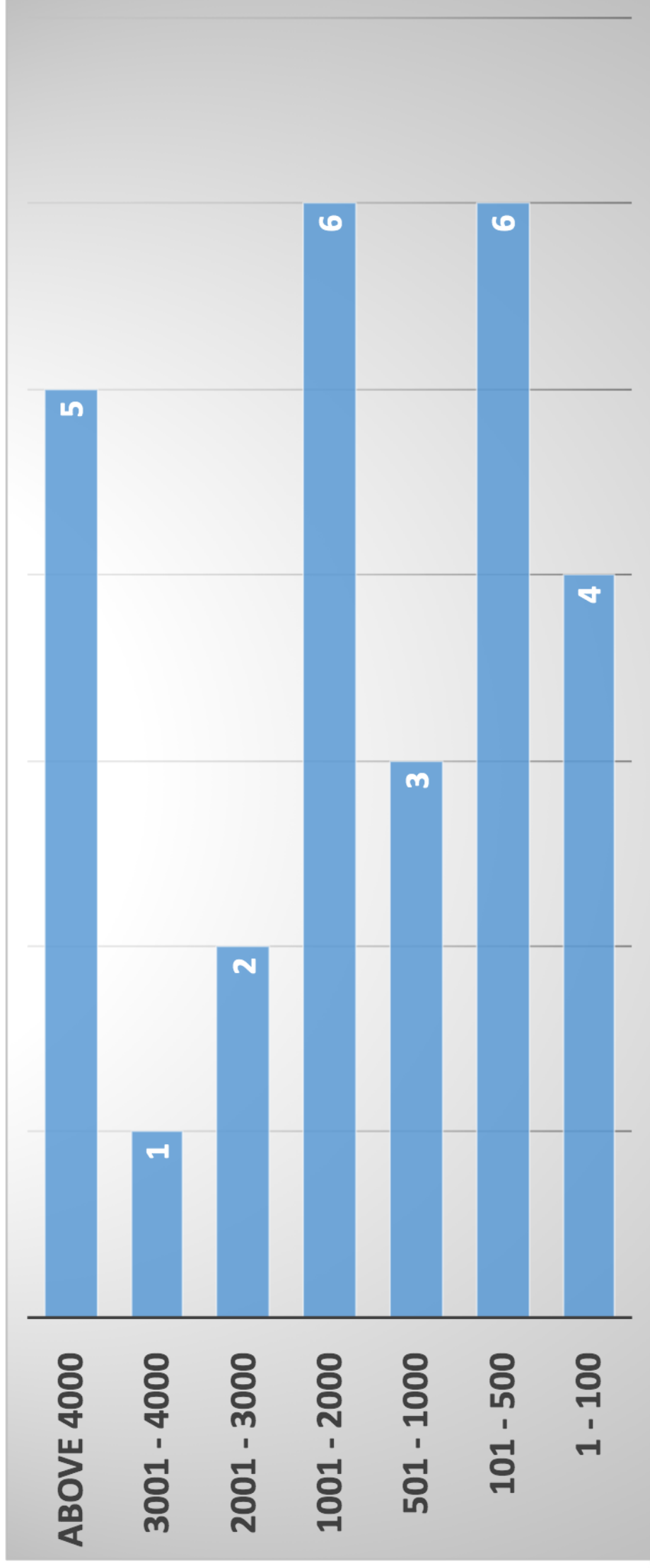
Number of Graduate programs



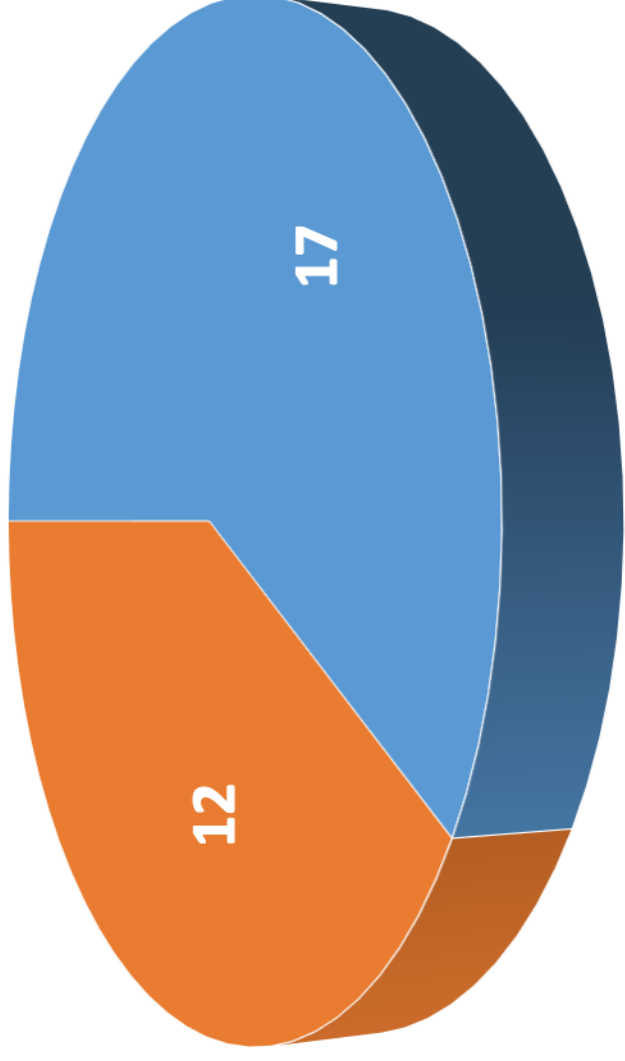
Faculty involvement



Ph.D. students involvement

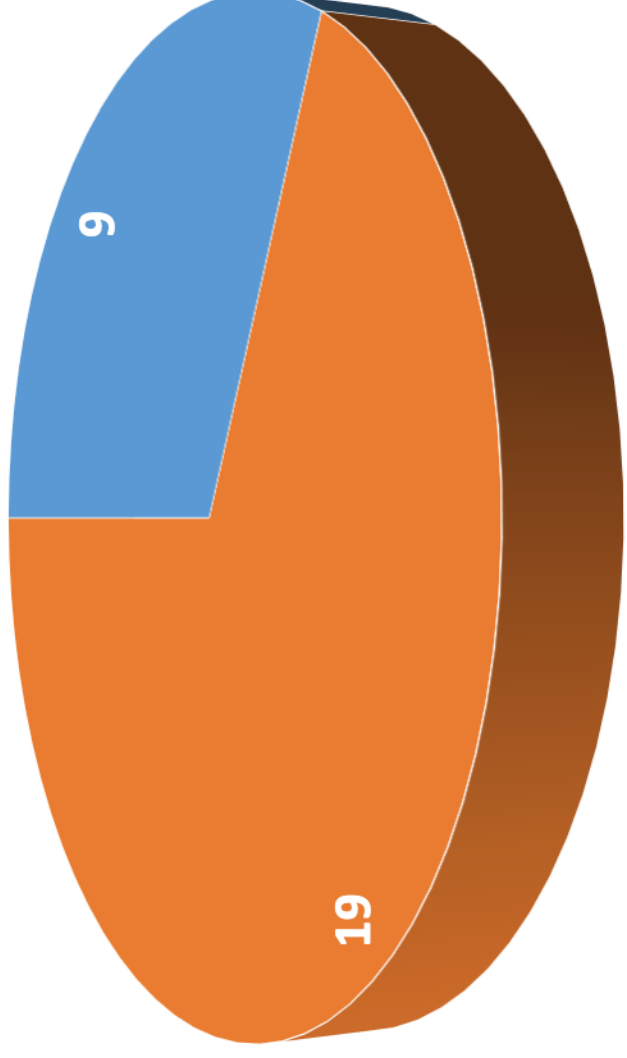


Internationalization plan developed for Print?



■ Yes ■ No

Did graduate programs have an internationalization plan before PrInt?



■ Yes ■ No

Strategies

Alignment with strengths

Deep Diagnosis

Involvement of various sectors

Comprehensive Internationalization

Integration between sectors

Transversality

Networks and strengths

Language policy

Reduced number of partners

Internal synergy and social impact

Partnerships and co-financing

Reciprocity

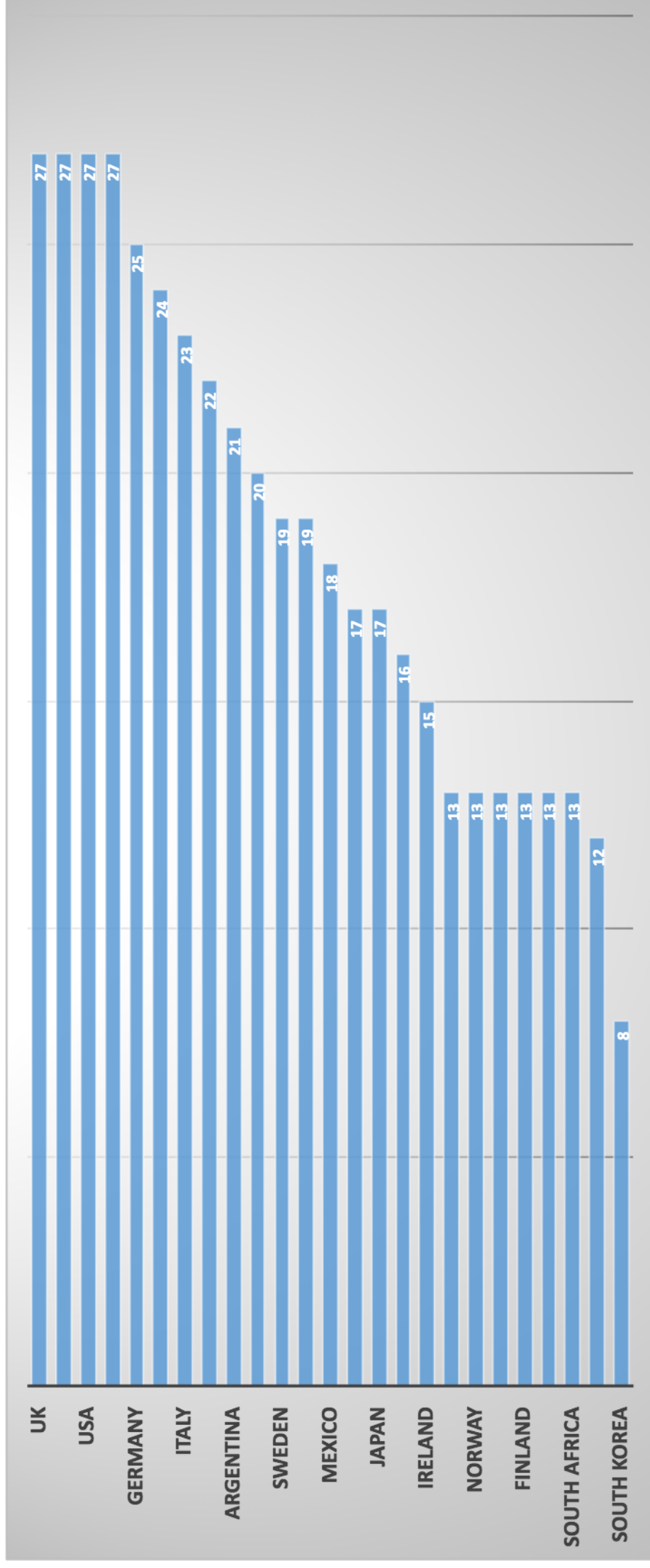
SDG

Multiculturalism

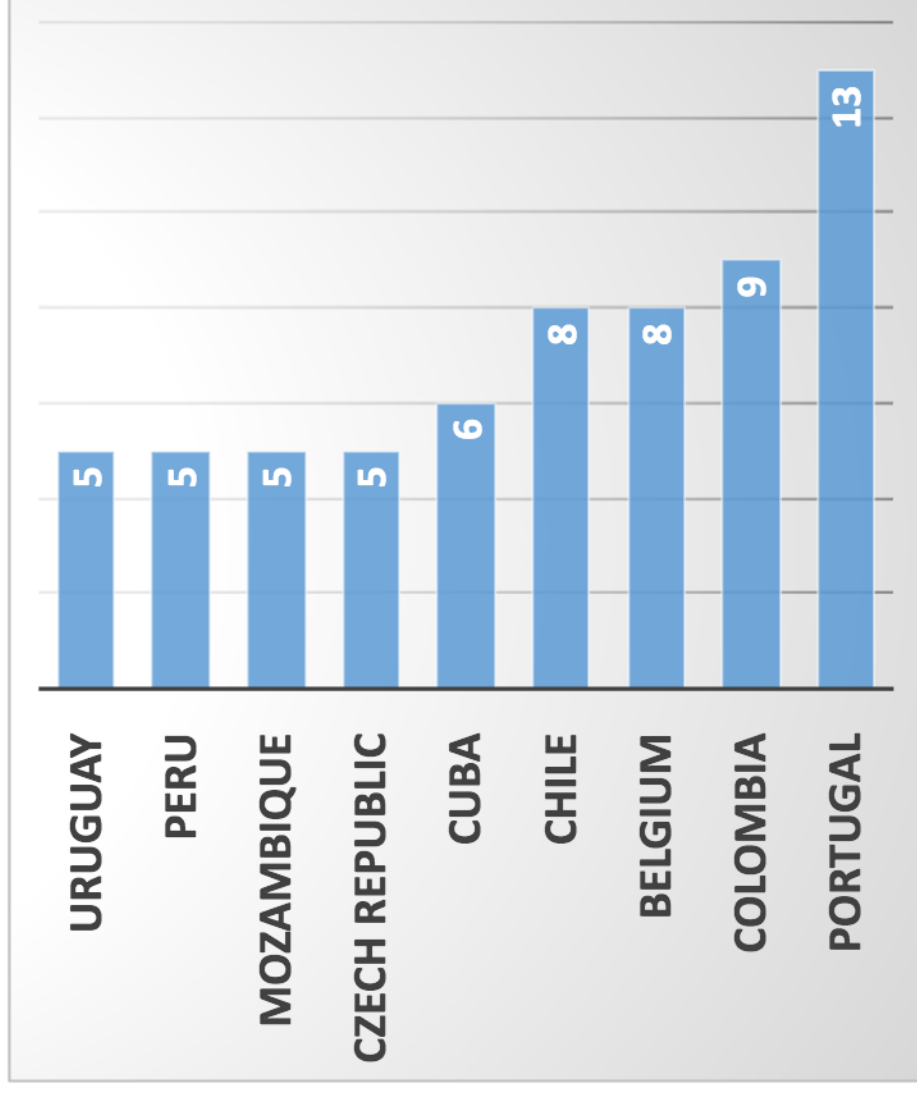
Sustainability and integration with industry

Institutional priorities

CAPES Partner Countries

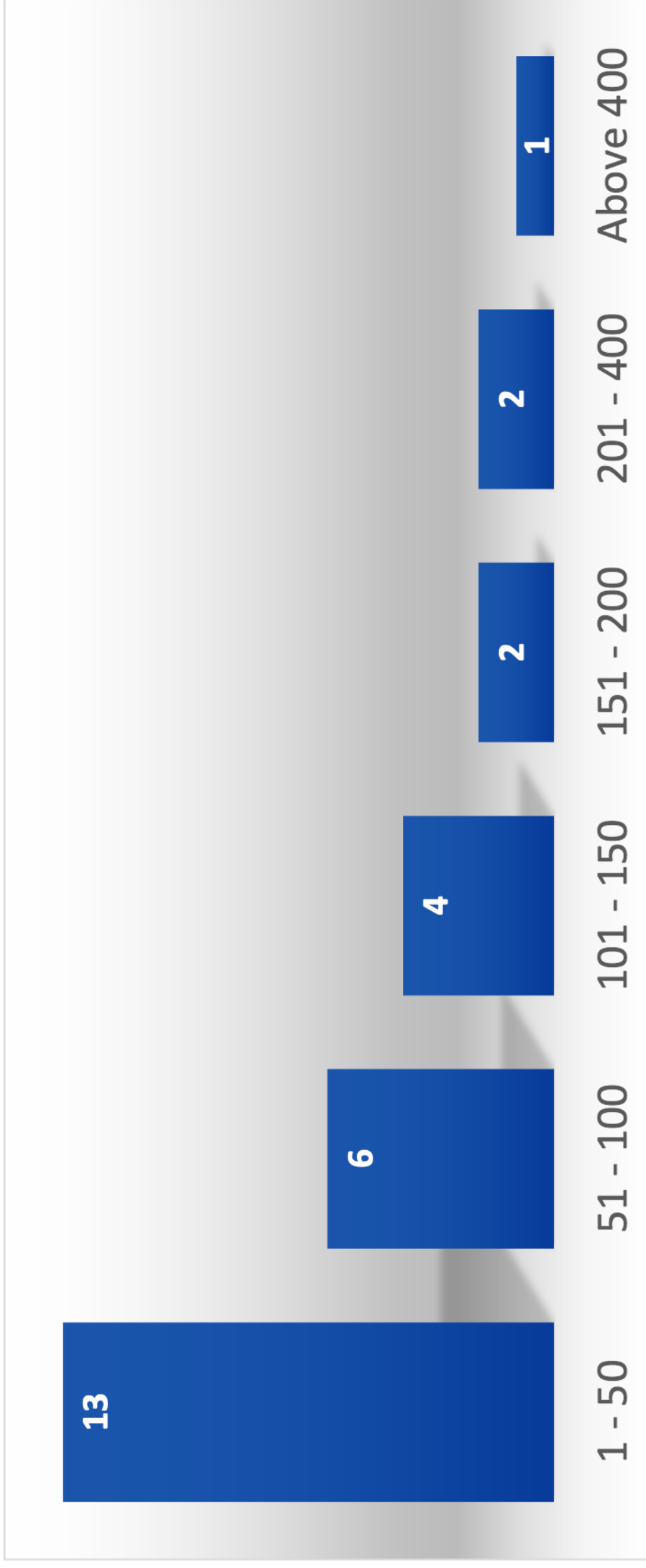


Countries not indicated by CAPES



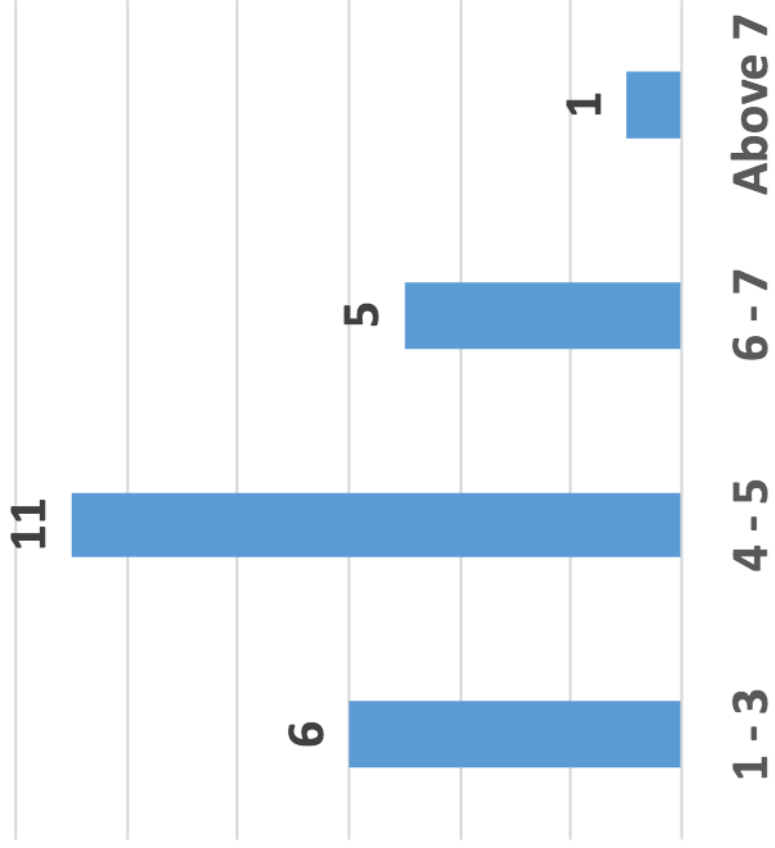
venezuela
ecuador french mozambique
republic
angola east chile hungary
cyprus czech
israel belgium peru
taiwan arabia
portugal
cape verde turkey costa
colombia poland
luxembourg cuba uruguay algeria
bolivia greece singapore
netherlands

Number of international partners

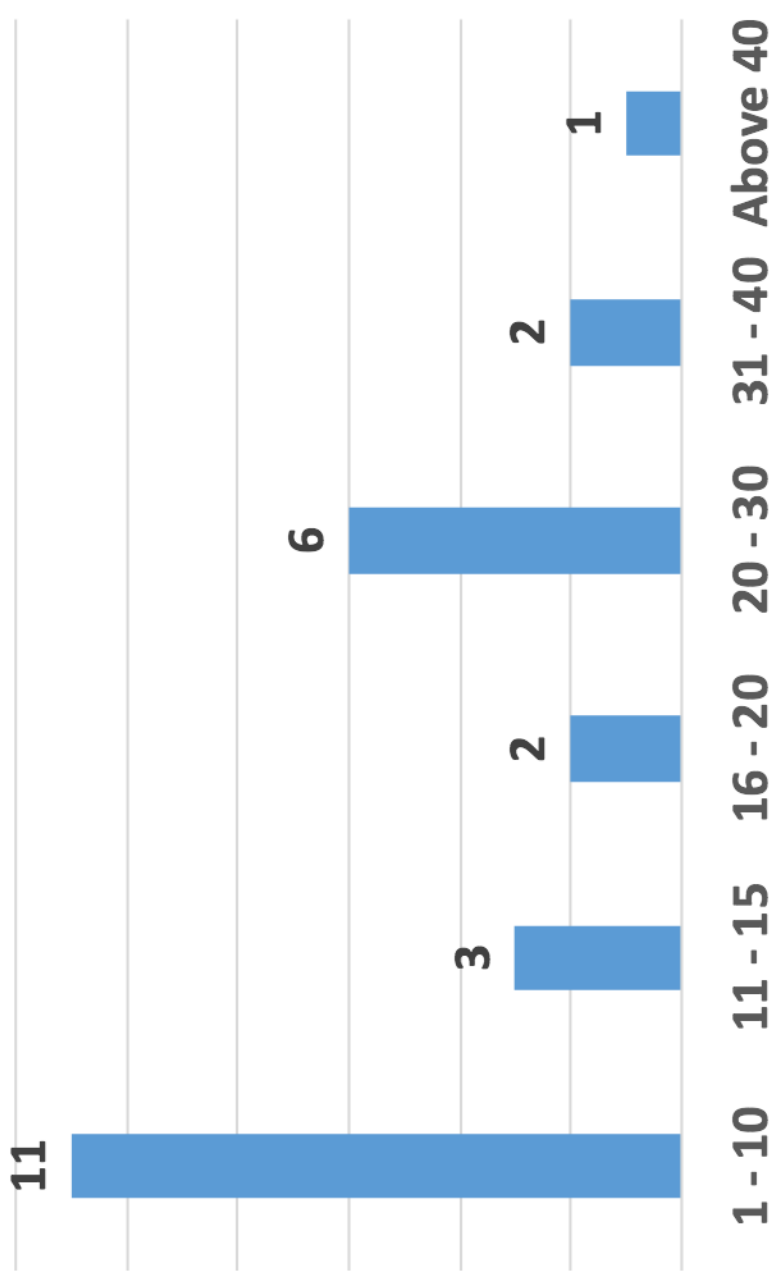


Themes and Projects

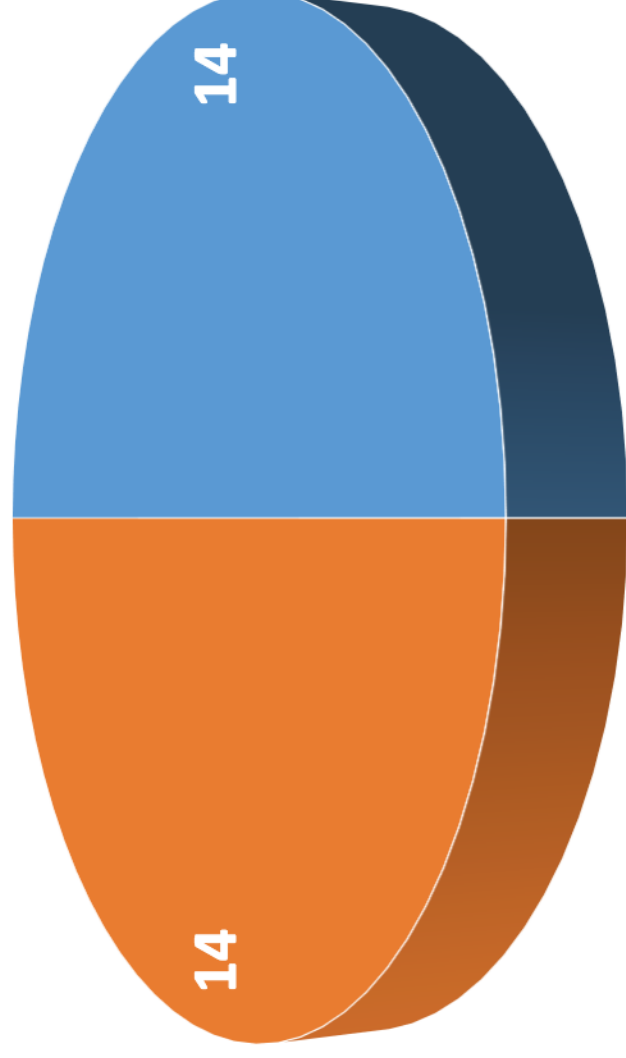
Themes



Projects



SDG are part of the proposal?



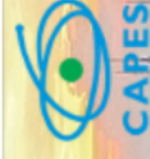
■ Yes ■ No

How to engage?

- Understand the **new priorities** – The reasons and needs of potential partners – What are partners expecting to gain?
- Open mind and engaged to work in this scenario developing **win-win partnerships** for both countries
- Identify partners with **shared values and vision**, as well as enthusiasm
- **Overcome the “golden cow idea” – No tuition fees at all**
- **Look to Brazilian HEIs as valuable scientific partners**

UNESP, Sao Paulo, Brazil
April 23-24, 2020

Support:



SIOs and Brazilian Universities: Building partnerships under the Capes/PrInt Program *An AIEA Thematic Forum*

More information:
<https://www.unesp.br/arex/aiea-forum-2019/>



SCAN ME



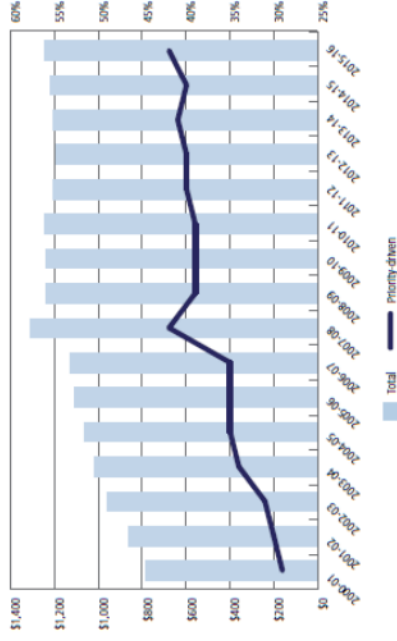
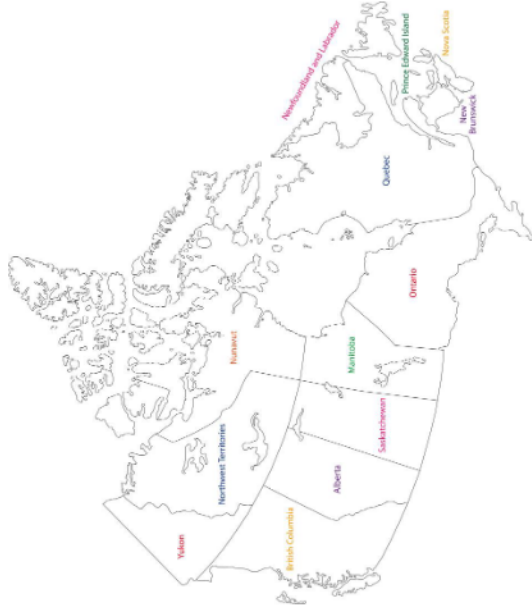
GLOBAL LEARNING, GLOBAL CITIZENS

SAVE THE DATE
FAUBAI 2020 CONFERENCE
April 25 - 29, 2020
<http://www.faubai.org.br/conf/2020>



Unique Aspects of the Canadian Education System

- Post-secondary education sector (universities and community colleges) is predominantly a publicly funded system including 98 universities with 1.7 million students (2017 data)
- Education falls under the jurisdiction of the Ministry of Education in each of the Provinces and Territories. All 13 provinces and territories are members of a Council of Ministers of Education
- Universities and Colleges are funded by the Ministry of Education and through the institution’s collection of tuition fees
- Federal Government funds research and development at the Universities through three Granting Councils (Canadian Institute of Health Research (CIHR), Natural Sciences and Engineering Research Council of Canada (NSERC) and the Social Sciences and Humanities Research Council (SSHRC))
- University-Industry Partnerships are gaining greater importance – Canada’s universities conduct \$1 billion in research for businesses and help build their competitive advantage (2016 data)



Note: Total research funding (left axis) is the sum of granting council expenditures on investigator-led and priority-driven research. Source: Computations from the secretariat based on data provided by the granting councils.

How does McMaster support Canada's international innovation and growth agenda?

- Continue to build research excellence with key strategic partners around the world. e.g. McMaster has partnered with many of the top 100 world-class universities.
- Develop and encourage the co-supervision of Ph.D. students. i.e. bring the research strengths of two world-class Universities to train the next generations of researchers.
- Encourage greater co-commercialization of research. e.g. Health discoveries, new drugs and treatment, new knowledge regarding vaccine development, advances in new materials, autonomous vehicles and alternate drive trains.
- Incorporate current international fundamental research into our innovative teaching/learning programs. As part of the learning ecosystem at McMaster we develop international research internships to foster pressing global issues.

U21
UNIVERSITAS21

Mitacs



CALDO



Facilitating the Matching of Brazil's and Canada's Priorities

Cooperative activities may take the following forms:

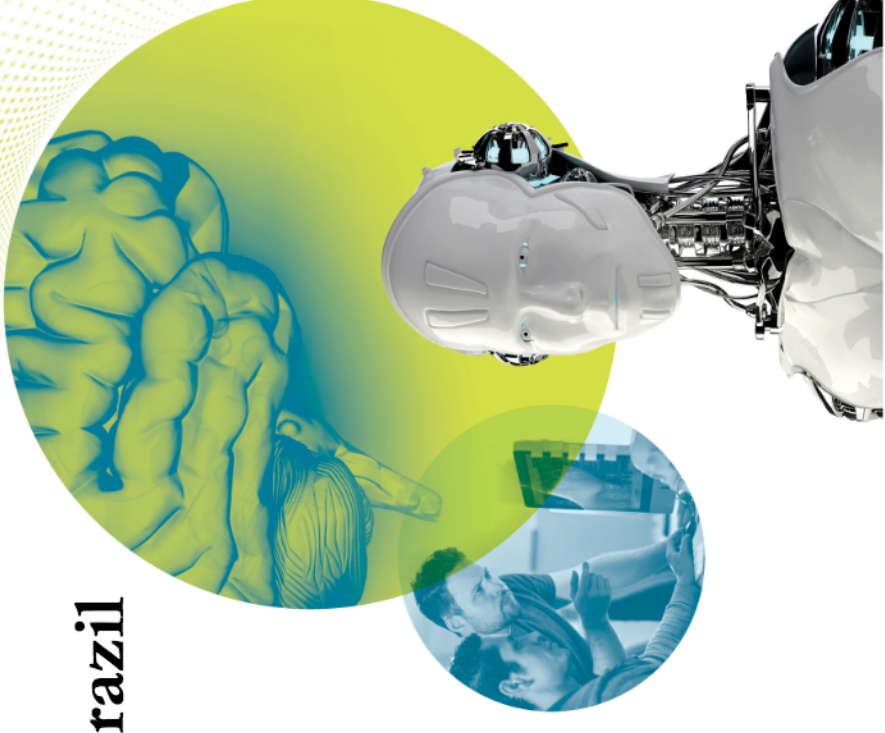
- **Joint research and development activities;**
- **Pooling of research and development projects, already underway in each Party's territory, into cooperative activities;**
- **Facilitation of commercially viable research and development activities;**
- **Organization of scientific seminars, conferences, symposia and workshops, as well as participation of experts in those activities;**
- **Exchanges and loans of equipment and materials;**
- **Exchanges of information on practices, laws, regulations and programs relevant to the cooperative activities carried out pursuant to this Agreement;**
- **Demonstrations of technologies and applications development;**
- **Visits and exchanges of scientists, technical experts, academics and post-graduate students; and**
- **Other forms of cooperative activities jointly decided in writing by the Parties.**

McMaster faculty members' joint research publications

McMaster University - USA McMaster University - Brazil

(2015-2018) (2016-2019)

2018 - 831	2019 - 181
2017 - 1,415	2018 - 166
2016 - 1,424	2017 - 151
2015 - 1,343	2016 - 154



Sponsored Graduate Students at McMaster from Brazil

2019 – 2020 CNPq/CAPES funded

- **Masters: 19 / Ph.D.: 7**
- **All fields would welcome scholars.**
- **McMaster already partners with many of the top universities in Sao Paulo and other regions in Brazil.**
- **Would welcome partnerships to foster greater jointly supervised Ph.D. Students, Visiting Scholars, faculty exchanges.**



Opportunities for Sustained McMaster-Brazil Partnerships

- Co-supervision of Ph.D. students is welcomed and encouraged
- Summer research opportunities available in all areas
- Visiting scholars welcomed
- Encourage joint collaboration with industry (e.g., Vale and steel industry in Hamilton)
- Share infrastructure for research collaboration
- Seek joint funding within Canada (Mitacs, QEI, Tri-Council funding, including non-STEM projects)
- Work with Brazil's State Foundations (FAPESP in Sao Paulo, FAPERJ in Rio de Janeiro)

Challenges to Engagement

- Long process (finding partners, connecting with faculty, matching faculty.)
- Matching: Engaging the two Schools/Faculty to establish a joint Ph.D. plan/agreement
- Logistics for the student/scholars

Challenges can be overcome!



How do others view us.

**McMaster ranks #1
in research
intensity in Canada**

**McMaster was ranked #2
overall for THE Ranking of
Social and Economic
Impact (SDG)**

**Ranked 90th in the
Shanghai Jiao Tong
Ranking of World
Universities 2019**

**Ranked 72th in The Times
Higher Education World
University Rankings 2020**

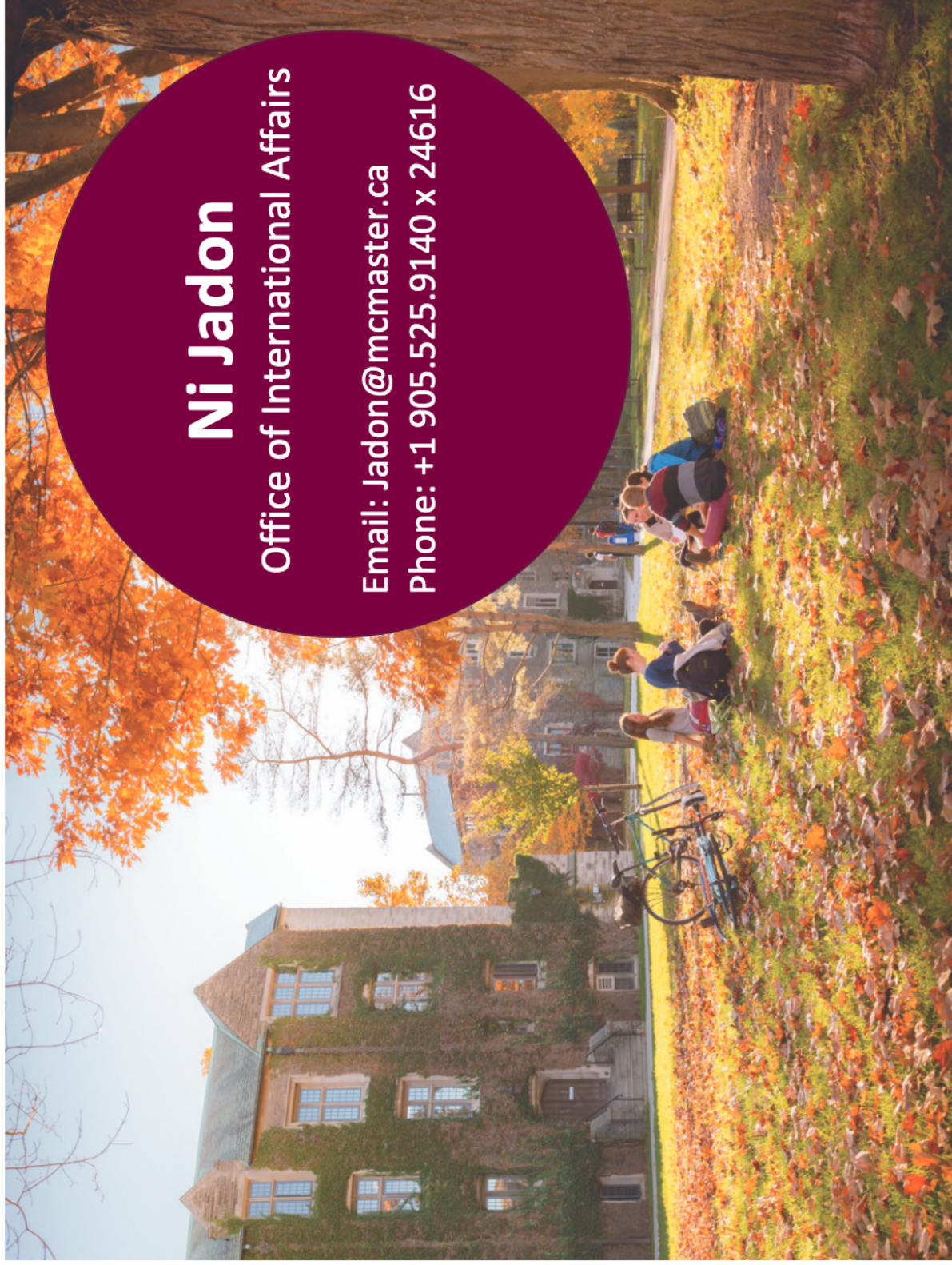
**Ranked 23th for clinical, pre-
clinical and health Times
Higher Education World
University Rankings, 2019**

**Ranked 146th in the
QS World University
Rankings 2019**



*Building our
community to
become an
“Education City”*

- McMaster University,
- Mohawk College
- Columbia College
- School Boards
- Redeemer University College



Ni Jadon

Office of International Affairs

Email: Jadon@mcmaster.ca

Phone: +1 905.525.9140 x 24616

