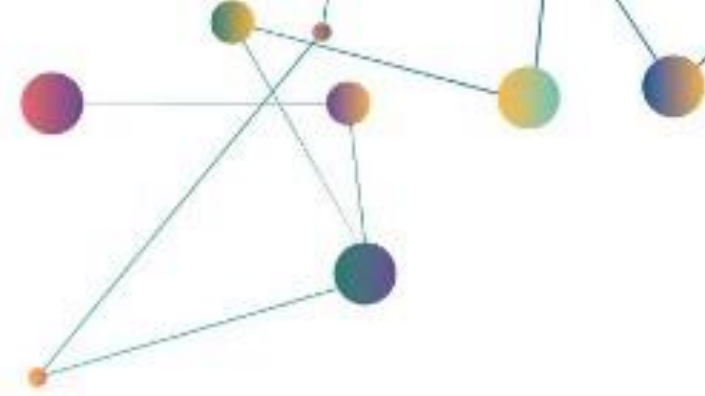


# Systems Analysis and the Americas

IIASA



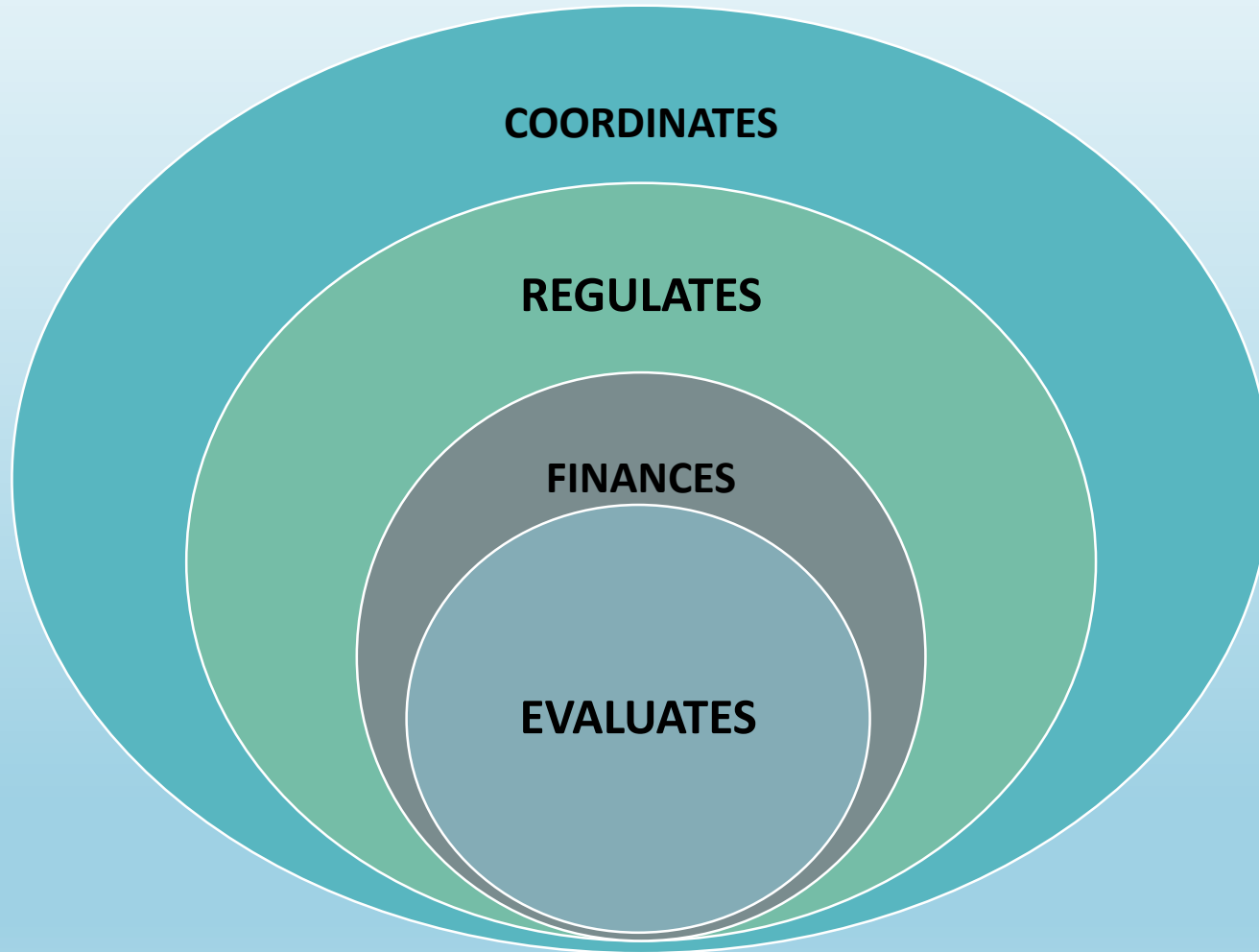
## Perspectives of Graduate Internationalization in Brazil

Dr. Mauro Luiz Rabelo  
Director of Internacional Affairs – CAPES

September/2019

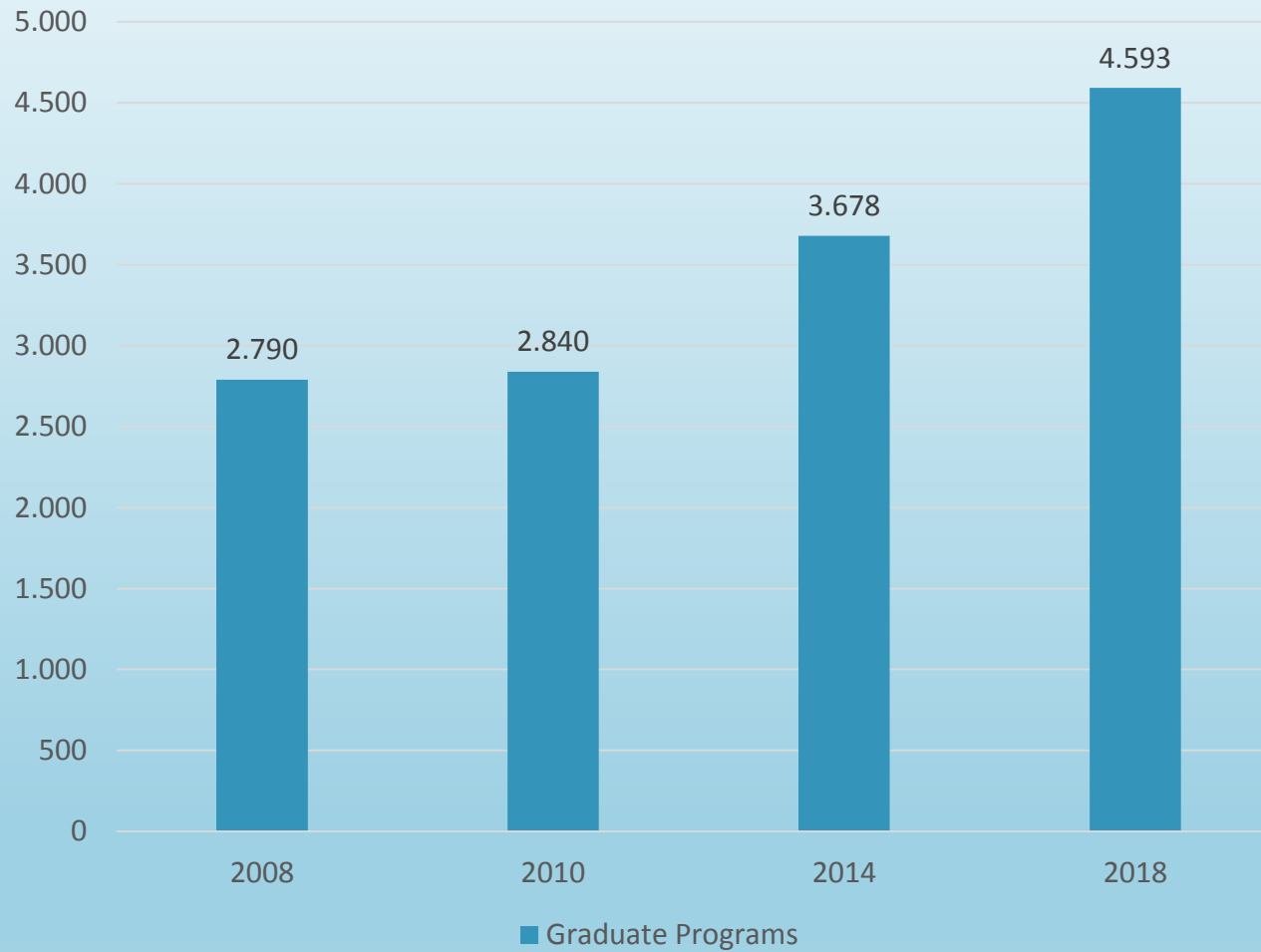


# CAPES' MISSION

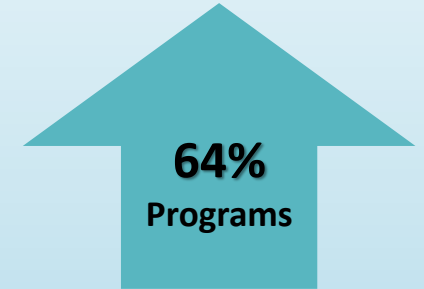


Capes Headquarters in Brasilia

# GRADUATE IN NUMBERS



Source: DAV/Capes.



Variation % between  
2008 and 2018

92%  
Enrolled

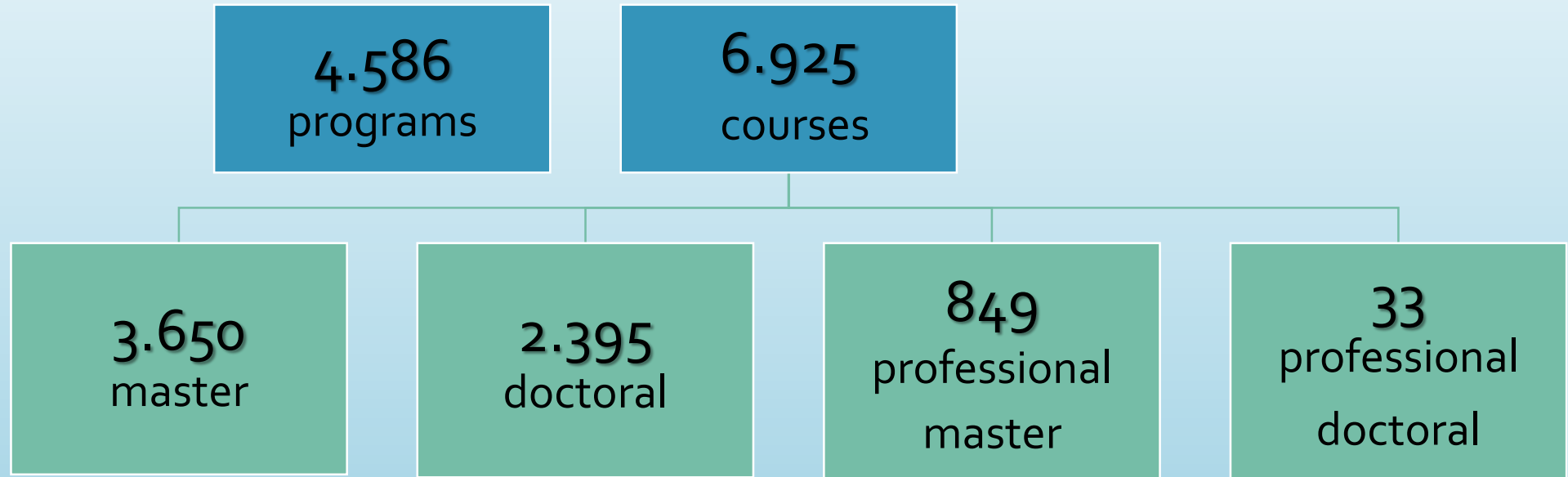


86%  
Graduate  
Degree  
holders





# THE NATIONAL GRADUATE SYSTEM (SNPG) 2019



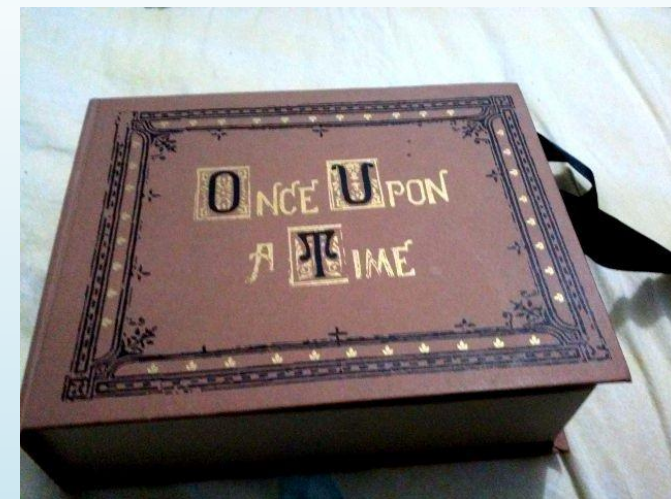
Source: DAV/Capes

**Number of students: 325,655**

**Women: 175,419**

**Men: 150,236**

# INTERNATIONALIZATION OF BRAZILIAN HIGHER EDUCATION



1953

Individual  
scholarships

1965

Sucupira  
Report

1979

Joint  
Research  
Project

2011

Science  
without  
Borders

2018

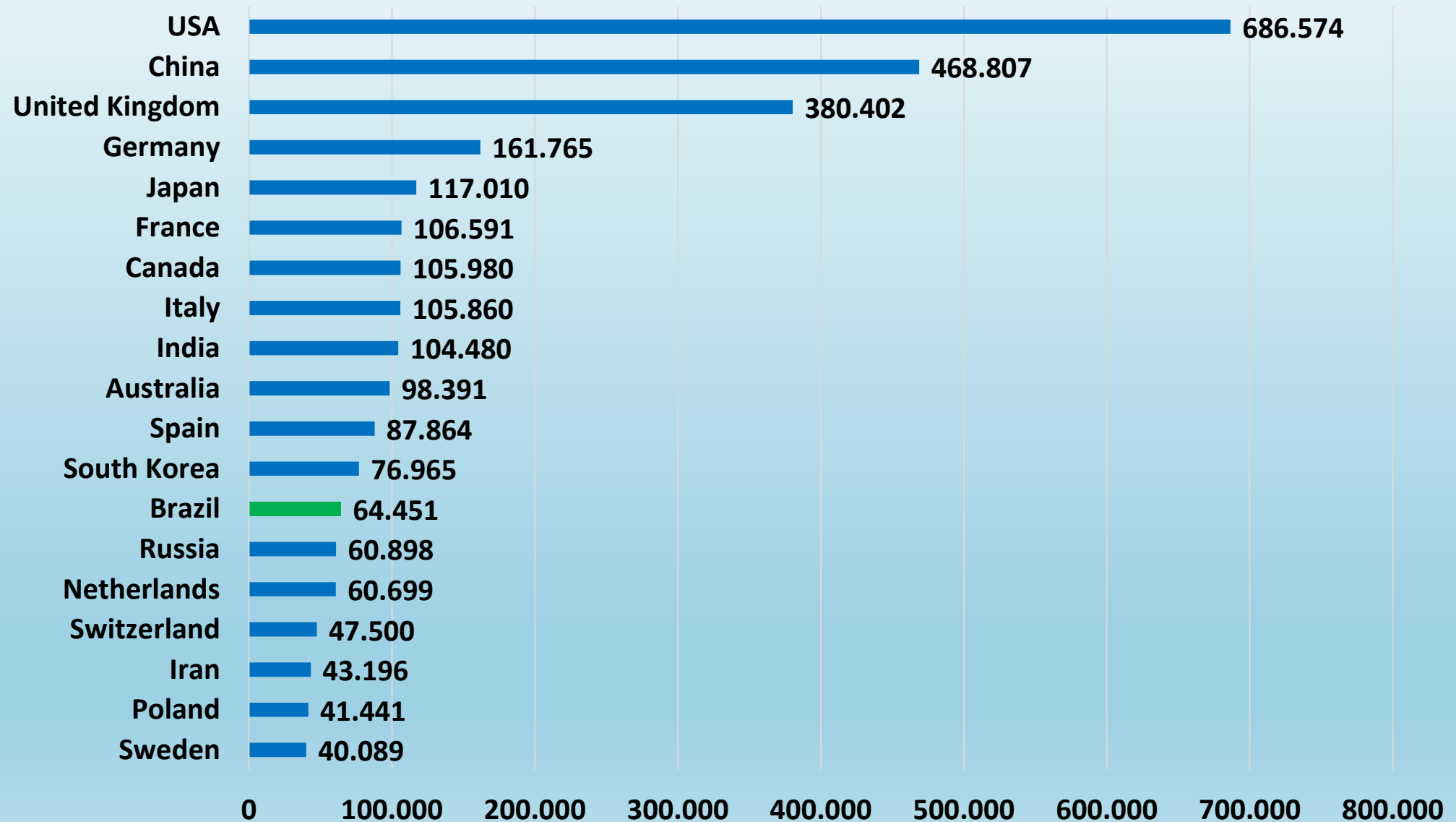
PrInt  
Institutional  
Program of  
Internationalization

2019

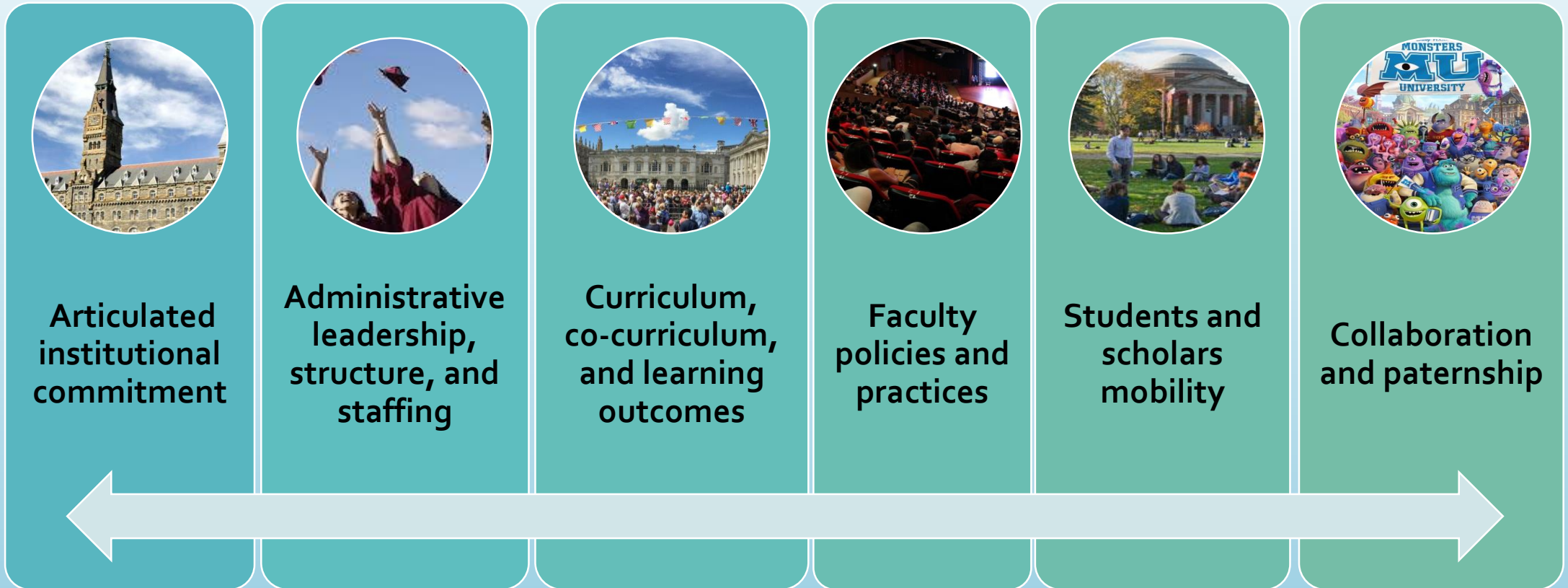
FUTURE-SE

# SCIENTIFIC PRODUCTION

## WEB OF SCIENCE DOCUMENTS - 2018



# COMPREHENSIVE INTERNATIONALIZATION



Development of the internationalization culture (thinking strategically): a strategic and coordinated process that integrates policies to have higher education institutions globally oriented.

## PREMISE:

## University project, not an action of isolated groups!



## INTERNATIONALIZATION OFFICE OF THE INSTITUTION

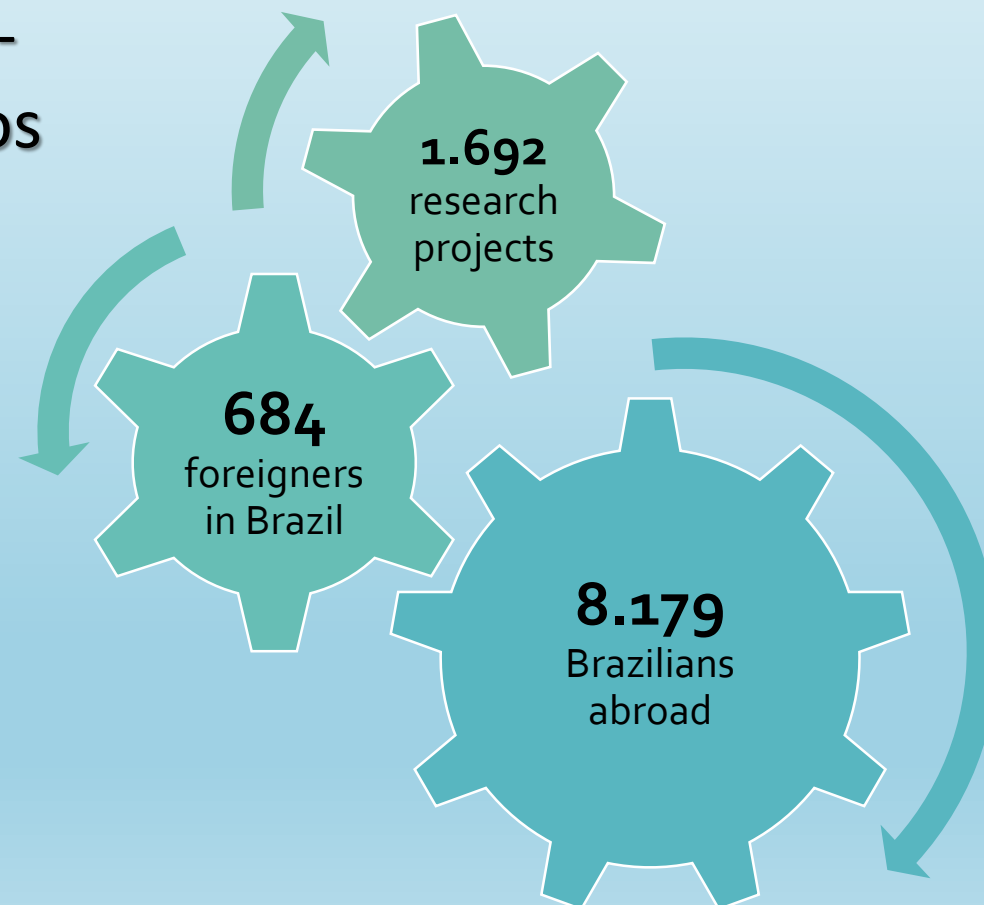
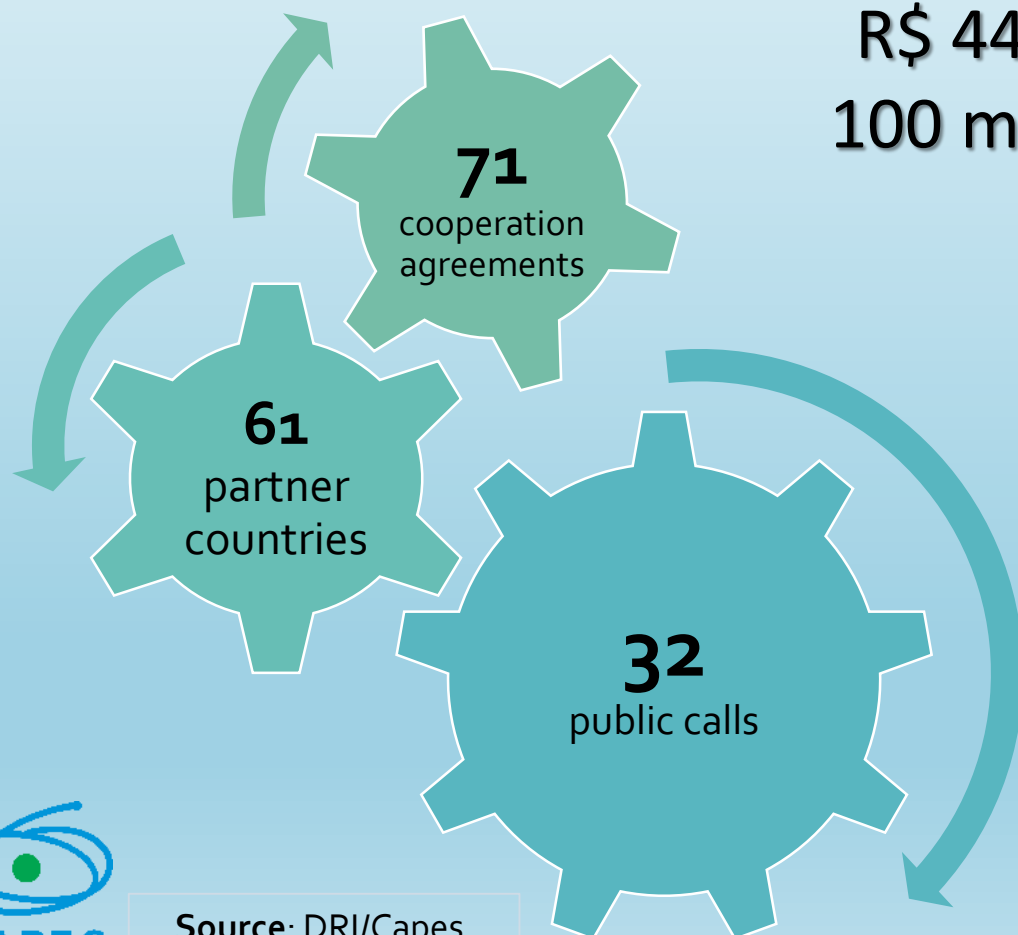




# DIRECTORY OF INTERNACIONAL AFFAIRS – CAPES - 2018

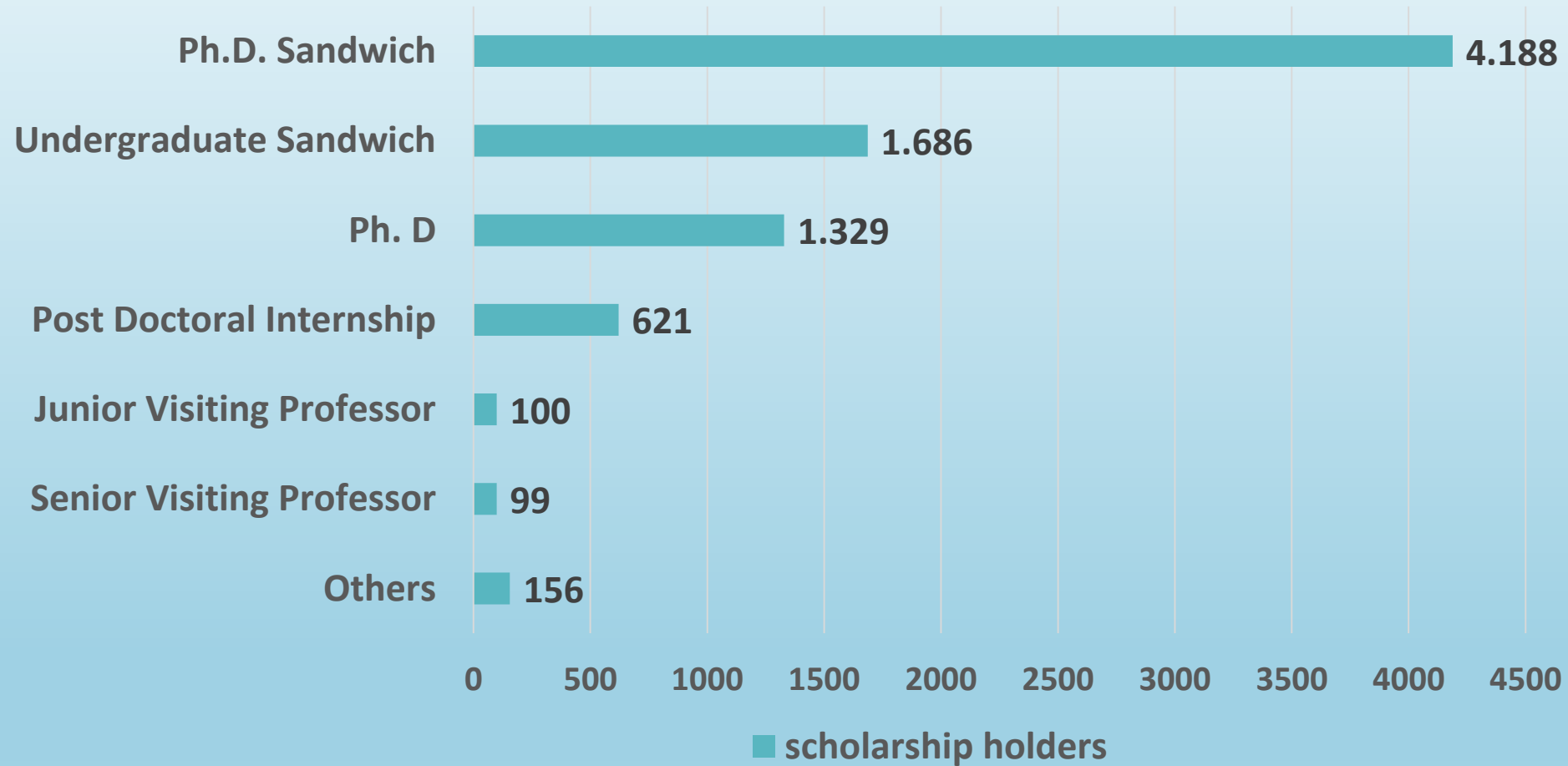
## BUDGET

R\$ 440 million -  
100 million euros



Source: DRI/Capes.

# DIRECTORY OF INTERNATIONAL AFFAIRS MODALITIES - 2018



Source: DRI/Capes.

# Capes: perspectives for internationalization for 2019

## Institutional Program of Internationalization - PrInt

- Launched in 2017 through the Edital (call) 41/2017.
- The 36 approved HEIs began project implementation in November 2018 with a 5-year term (2019-2023).
- There are 565 projects planned with 197 strategic themes for activities in 86 partner countries.



# The Capes-PrInt Program aims to:



fostering **strategic** internationalization **plans**.



participation of Brazilian institutions in international **research networks**.



transformation of participating institutions into an **international environment**.



integration of other Capes promotion actions to the internationalization effort.



# The Capes-PrInt Program aims to increase:



visibility and **impact of Brazilian research.**



**university responsibility** and independence: variability of proposals;  
variability in investment types defined by universities.



**interaction with society.**

# The Capes-Print Program

FGV/RJ	UFPEL
FIOCRUZ	UFPR
FURG	UFRGS
INPE	UFRJ
ITA	UFRN
PUC/RIO	UFRPE
PUC/RS	UFSC
UERJ	UFSCAR
UFABC	UFSM
UFBA	UFU
UFC	UFV
UFES	UNB
UFF	UNESP
UFLA	UNICAMP
UFMG	UNIFESP
UFMS	UNISINOS
UFPB	UPM
UFPE	USP



**1.302**

FOREIGNER  
INSTITUTIONS

**197** ESTRATEGIC THEMES



**86** PARTNER  
COUNTRIES

- Modalities:
  - Abroad:
    - Ph.D. Sandwich; Senior Visiting Professor; Junior Visiting Professor;
    - Training in short courses or “summer/winter schools”.
  - In the country:
    - Young Talent; Visiting Professor; Post Doctoral

# The Capes-Print Program

FGV/RJ	UFPEL
FIOCRUZ	UFPR
FURG	UFRGS
INPE	UFRJ
ITA	UFRN
PUC/RIO	UFRPE
PUC/RS	UFSC
UERJ	UFSCAR
UFABC	UFSM
UFBA	UFU
UFC	UFV
UFES	UNB
UFF	UNESP
UFLA	UNICAMP
UFMG	UNIFESP
UFMS	UNISINOS
UFPB	UPM
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# Capes-Print Program – monitoring and evaluation: a big challenge



Self-assessment is not enough.  Evaluation is multidimensional.



# Capes: perspectives for internationalization - 2019

## International Cooperation Agreements (71)

### Examples:

- DFG, DAAD e Humboldt (Germany)
- Fulbright Comission, Harvard U., U. of Illinois, Emory U., Purdue U., Yale U. (EUA)
- Cofecub – Brafitec - BrafAgri (France)
- STINT (Sweden)
- DFAIT (Canada)
- IIASA (Austria)
- DIKU (Norwegian)

# Capes: perspectives for internationalization - 2019

## Internationalization Lab

- Support to the internationalization process of Brazilian HEIs
- 3 HEI Pilot: UFPA, UFG and UEM
- Criteria for Pilot Project participation:
  - registration in the PrInt Call
  - highest percentage of PPGs with 5,6 or 7 concepts
- 3 workshops held in 2020
- 18 months long
- Capacity building

# Capes: perspectives for internationalization - 2019

## **International Doctorate**

- Project submission by existing PPGs in SNPG
- Development of activities in the involved HEIs (Brazilian and foreign)
- Double degree/diploma
- Foreign Language Classes
- Co-Curriculum

# Capes: perspectives for internationalization - 2019

## **Reintegration of researchers with a PhD degree**

### Humboldt Pilot Project

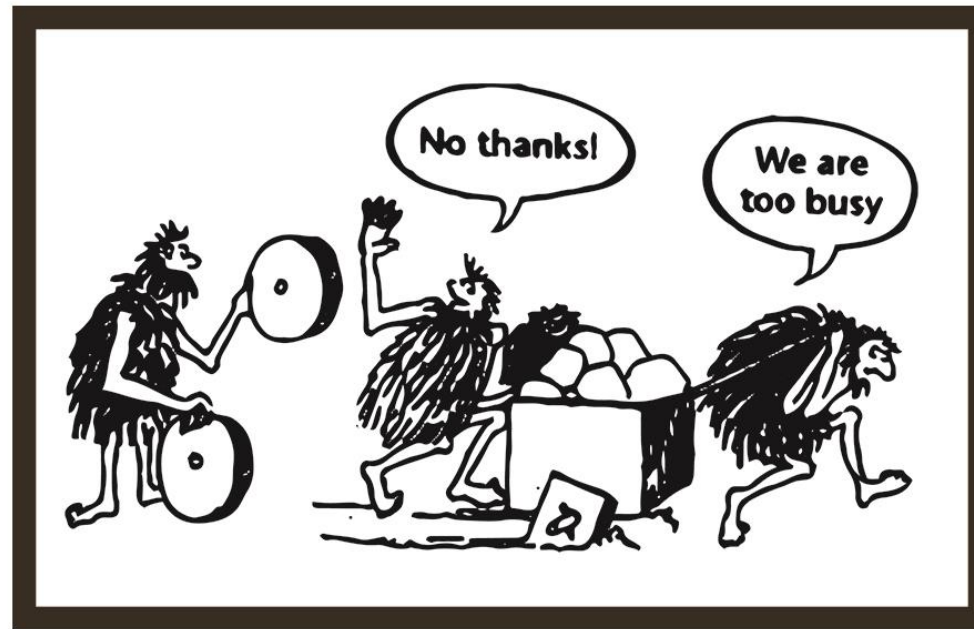
- Former Postdoc Fellow in Germany
- Postdoc Grant Guarantee in Brazil
- Humboldt will complement monthly scholarship with € 500.00
- Humboldt will grant € 20,000 grant to the researcher project

Negotiation with other international funding agencies



# INTERNATIONALIZATION

It is not an end in itself, but it is a means, a strategy, to achieve a result: Improve the quality of teaching and research.



# BRAZIL-IIASA PARTNERSHIP HISTORY



# BRAZIL-IIASA PARTNERSHIP HISTORY

- **March 11, 2013:** Framework Agreement for Cooperation in the Field of Education and Higher Education between Brazil and Austria;
- **October 28, 2015:** Signature of the Cooperation Agreement between CAPES and IIASA.



# TYPES OF PROGRAMS AND ACTIONS



Young Scientists Summer Program



Postdoctoral Research at IIASA/Capes



Capes / IIASA Doctoral Sandwich Program



# SCHOLARSHIP MODALITIES

- Postdoctorate
- Doctoral Sandwich Program
  - two different durations:
    - 3 months in the summer program and 3 to 12 months in the Capes/IIASA Doctoral Sandwich program.



# NUMBER OF CALLS/SELECTIONS

Young Scientists Summer Program: 3 calls

Postdoctoral Research at IIASA/Capes: 3 calls

Capes/IIASA Doctoral Sandwich Program: 3 calls

# NUMBER OF SCHOLARSHIPS IMPLEMENTED BY MODALITY

## Young Scientists Summer Program

- 3 selected scholars



## Postdoctoral Research at IIASA/Capes

- 9 selected scholars



## Capes / IIASA Doctoral Sandwich Program

- 6 selected scholars



# INVASIVE SPECIES ARE THE SUBJECT OF A BRAZILIAN RESEARCHER ARTICLE

Graduated in Biological Sciences from the Federal University of São Carlos (UFSCar), in São Paulo, Master in Biodiversity and Conservation, by the same institution and PhD in Biology and Ecology from the University of St Andrews, Scotland, **Alessandra Kortz** had her article, "Increases in local richness ( $\alpha$ -diversity) following invasion are offset by biotic homogenization in a biodiversity hotspot "published in the international scientific journal *Biology Letters*, May 2019.

A CAPES scholar in his two postgraduate degrees, Kortz is a postdoctoral scholar at the IIASA in Austria, also with CAPES' contribution.



**Source:** <http://www.capes.gov.br/36-noticias/9506-especies-invasoras-e-tema-de-artigo-de-pesquisadora-brasileira>

# RESEARCHER IN THE FIELD OF SUSTAINABLE CONSTRUCTION WILL BE DOING AN INTERNSHIP IN AUSTRIA

PhD student in Energy Planning at the Federal University of Rio de Janeiro (UFRJ), **Rosa Esperanza González** will develop her research on nearly zero energy buildings (nZEB) - or nearly zero energy buildings - at the International Institute for Applied Systems Analysis (IIASA) in Laxenburg, Austria.

Esperanza has had her project approved in the Capes/IIASA Summer Program and will participate in a three-month internship in the European country.



**Source:** <http://www.capes.gov.br/36-noticias/8379-pesquisadora-da-area-de-construcoes-sustentaveis-fara-estagio-na-austria>



# Brazil

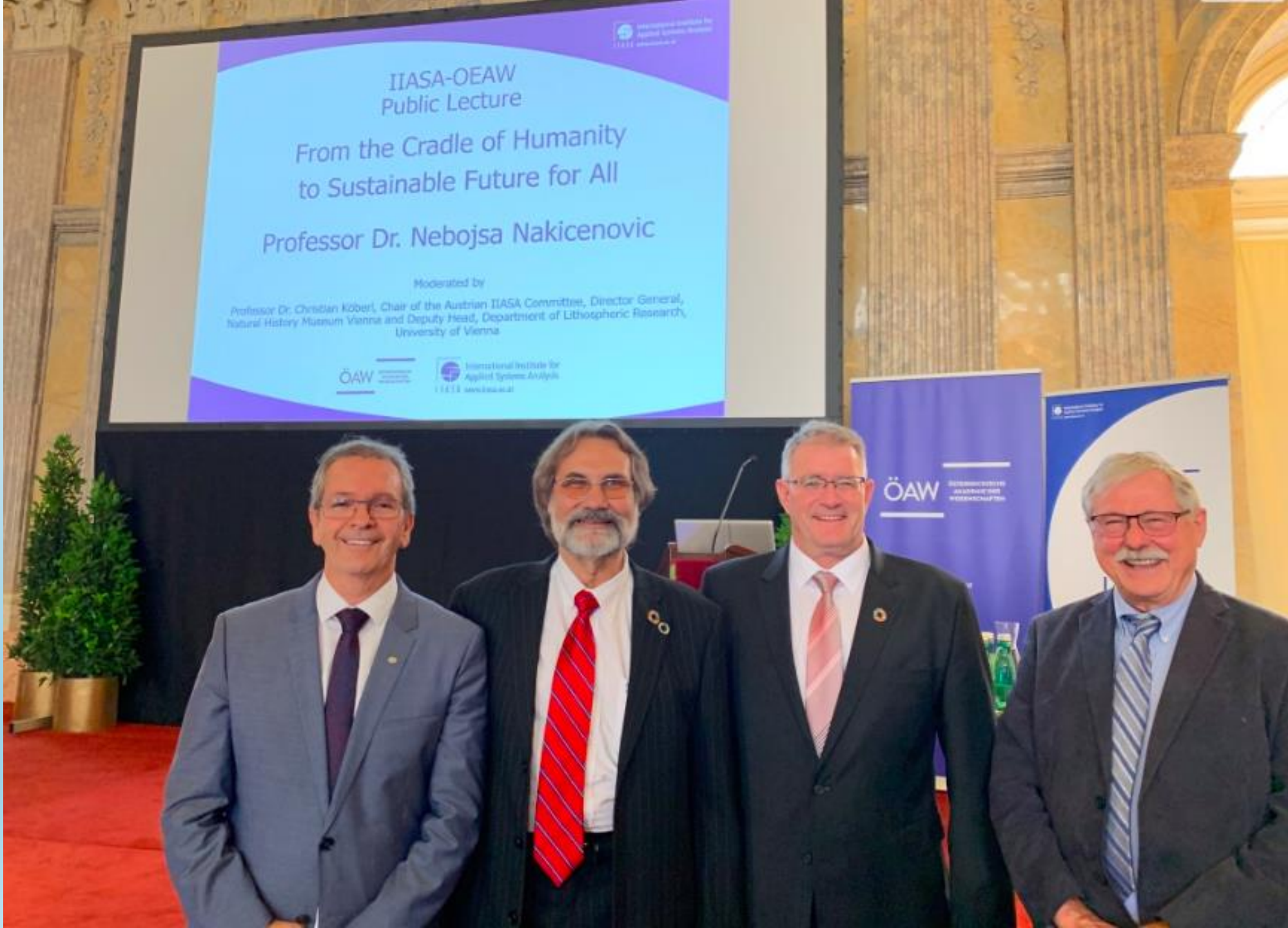
**National Member Organization and Funder:**  
Brazilian Federal Agency for Support and Evaluation  
Graduate Education (CAPES)

**Selected highlight:** IIASA is developing the research base for systems analysis in Brazil. The **IIASA-CAPES Postdoctoral Fellowship Program** offers Brazilian early-career scientists the opportunity to work at IIASA on a variety of research areas from energy and water management to risk prevention.

**Brazilian postdocs at IIASA have researched:**

- Different pathways towards a less carbon intensive transport system
- Regional development, inequalities, and household consumption patterns
- The integration challenges of renewable energy forms in Latin America





# IIASA-OEAW Public Lecture

## From the Cradle of Humanity to Sustainable Future for All

### Professor Dr. Nebojsa Nakicenovic

Moderated by

Professor Dr. Christian Köberl, Chair of the Austrian IIASA Committee, Director General,  
Natural History Museum Vienna and Deputy Head, Department of Lithospheric Research,  
University of Vienna



OEAW

ÖSTERREICHISCHE  
AKADEMIE DER  
WISSENSCHAFTEN







**THANK YOU!**

CONTACT INFORMATION: [dri@capes.gov.br](mailto:dri@capes.gov.br)