

XI GENERAL ASSEMBLY AND X INTERNATIONAL SEMINAR OF THE CGBU

“GLOBAL UNIVERSITIES IN THE XXI CENTURY: CHARACTERISTICS, TRENDS AND MAIN CHALLENGES”

PLENARY SESSION 5:

**START-UPS, SPIN-OFFS,
TECHNOLOGY TRANSFER
AND INCUBATION:**

**DIFFERENT REGIONAL
APPROACHES**

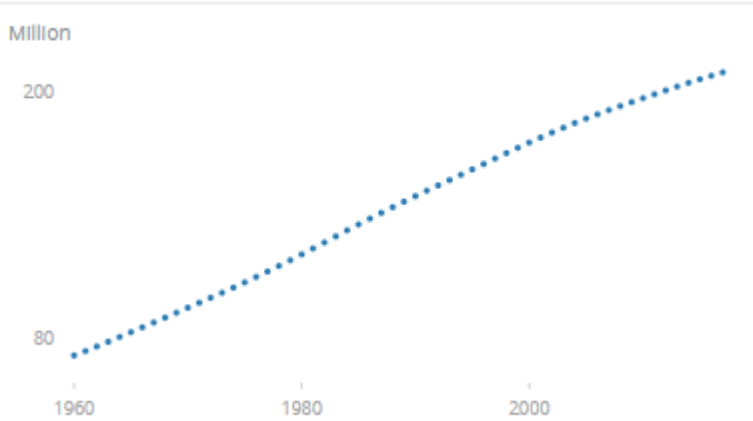
**José Ricardo de Santana,
Director of Institutional Cooperation,
Conselho Nacional de Desenvolvimento
Científico e Tecnológico - CNPq, Brazil**

**Budapest, HUNGARY
September - 27, 2018**

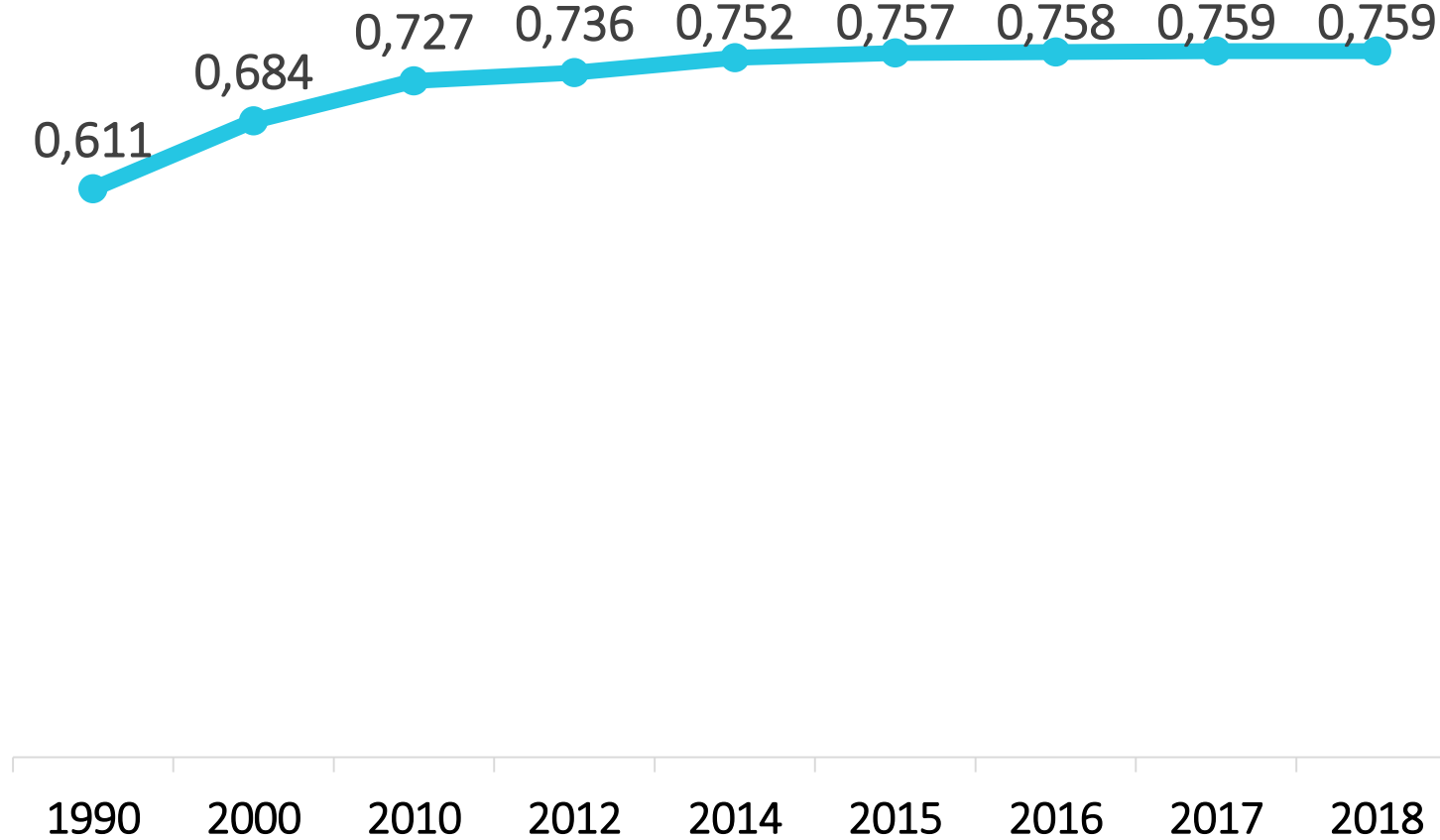


Indicators for Brazil - 2018

Population, total



HDI



Annual GDP Growth (%)



Source: CNPq, 2018



Brasil

-0.1 **ECON COMPLEXITY**
44TH OF 89



\$182B **EXPORTS**
21ST OF 120



\$135B **IMPORTS**
26TH OF 120

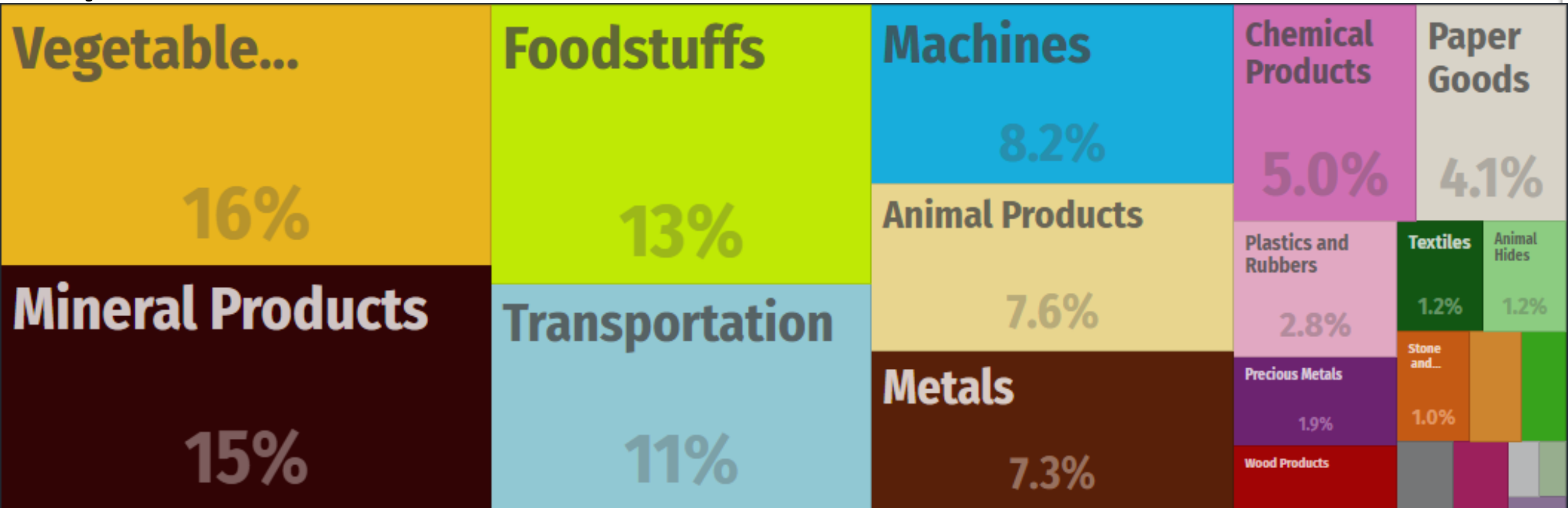


\$15.1K **GDP PER CAPITA**
48TH OF 89



Exports, 2016

Fonte: The Observatory of Economic Complexity





Brasil

-0.1 **ECON COMPLEXITY**
44TH OF 89



\$182B **EXPORTS**
21ST OF 120



\$135B **IMPORTS**
26TH OF 120

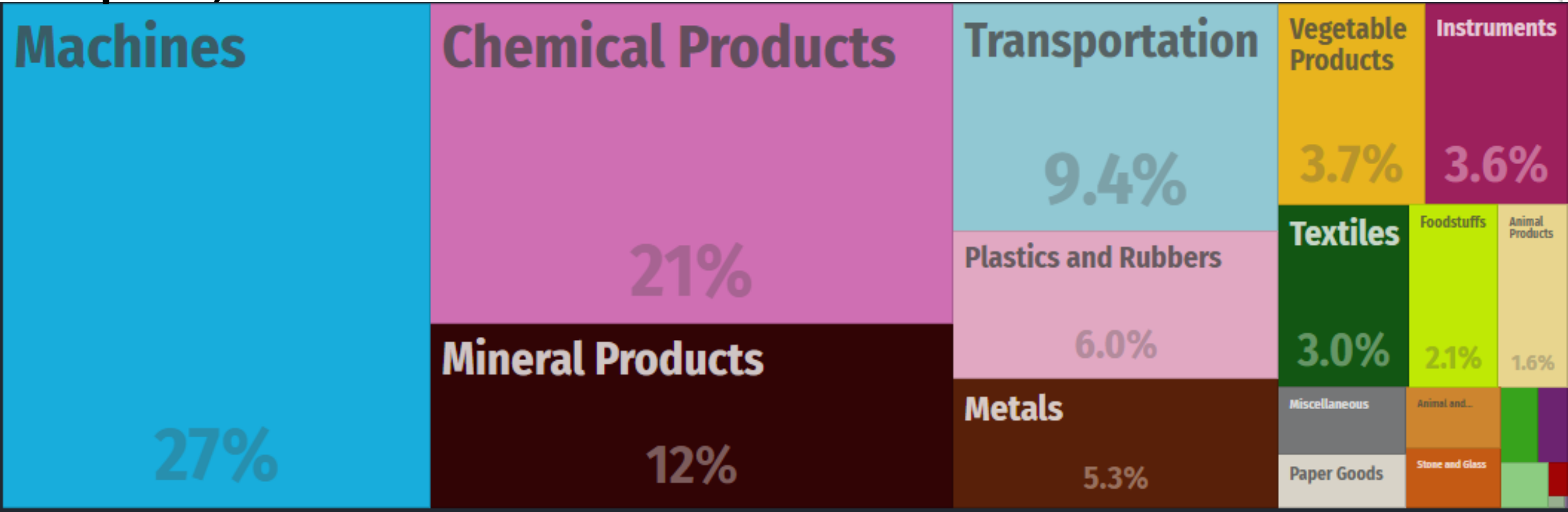


\$15.1K **GDP PER CAPITA**
48TH OF 89

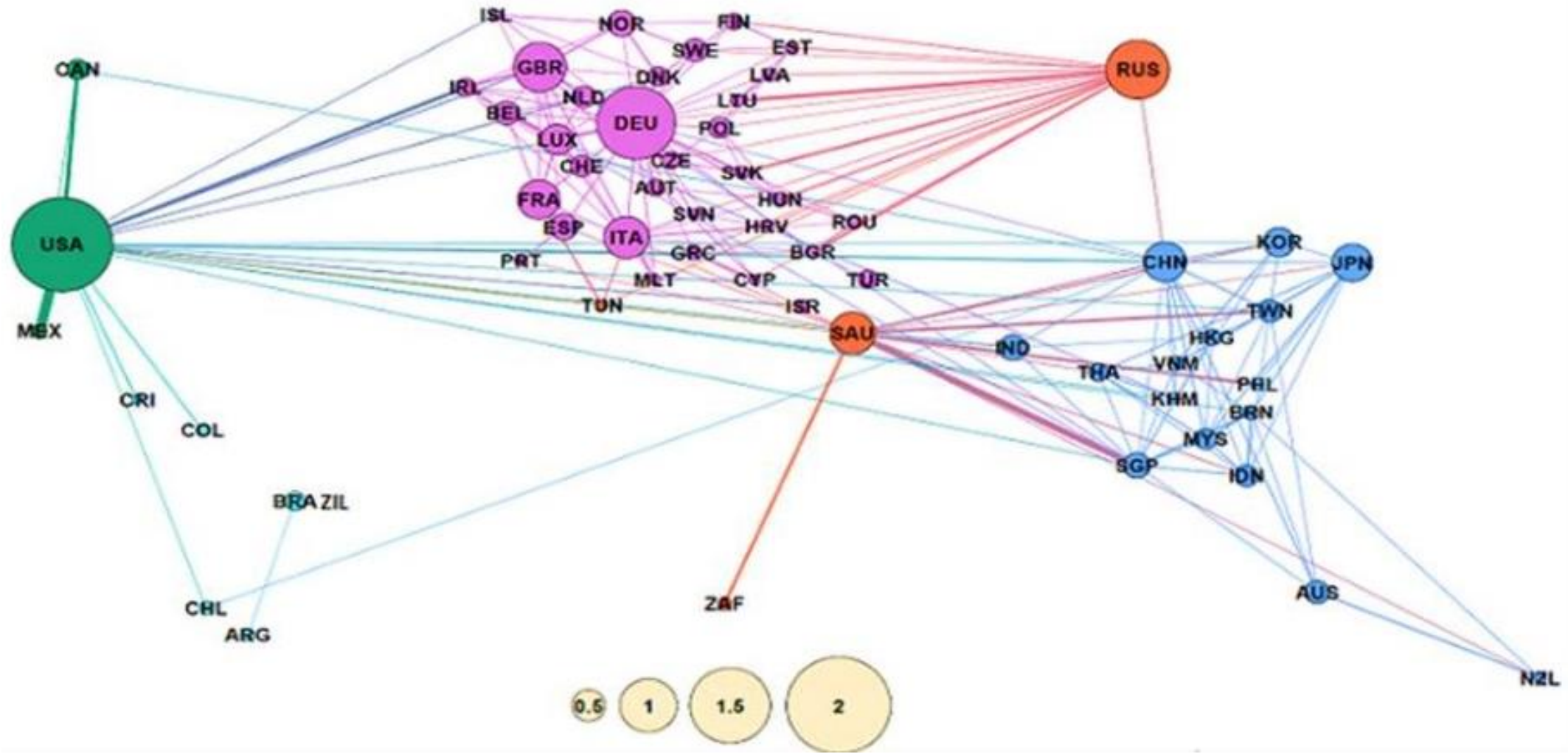


Imports, 2016

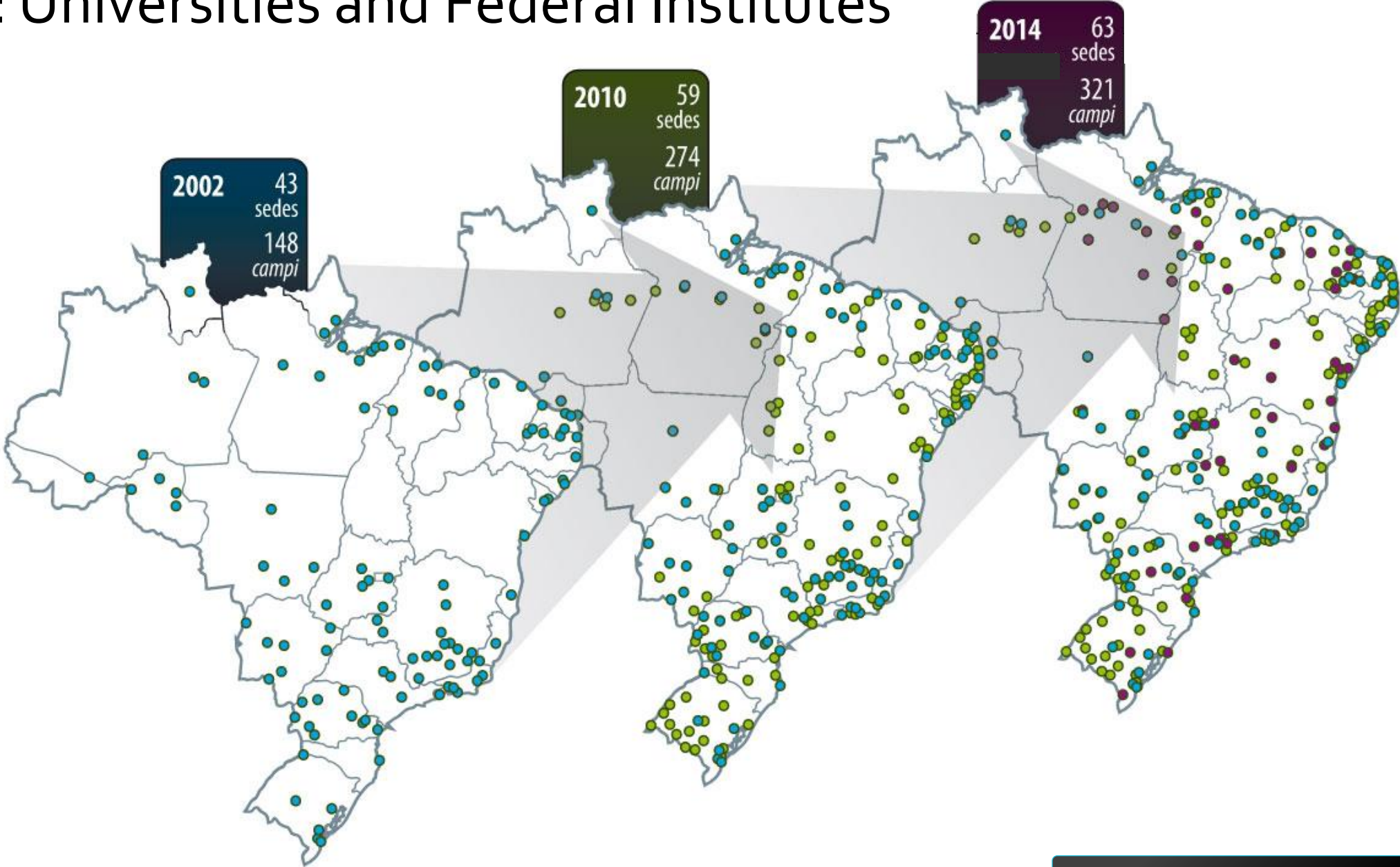
Fonte: The Observatory of Economic Complexity



Map of global value chains

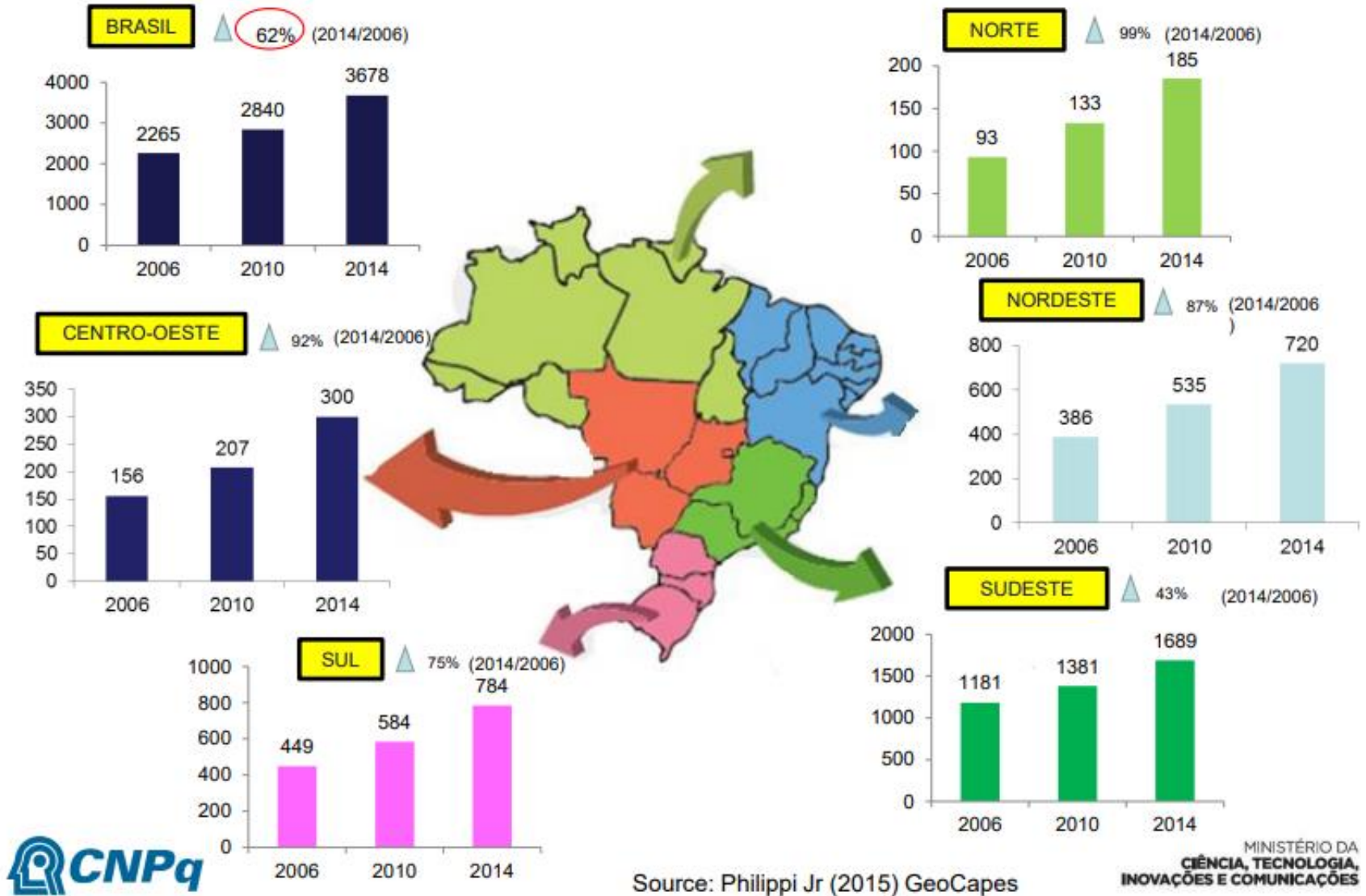


Brazil: Universities and Federal Institutes



Source: adaptado de <https://www.senado.gov.br/noticias/Jornal/emdiscussao/inovacao/investimento-inovacao-tecnologica-finep-pesquisadores-brasil/crescimento-do-numero-de-pesquisadores-mestres-e-doutores-em-grupos-de-pesquisa-em-universidades-do-brasil.aspx>.

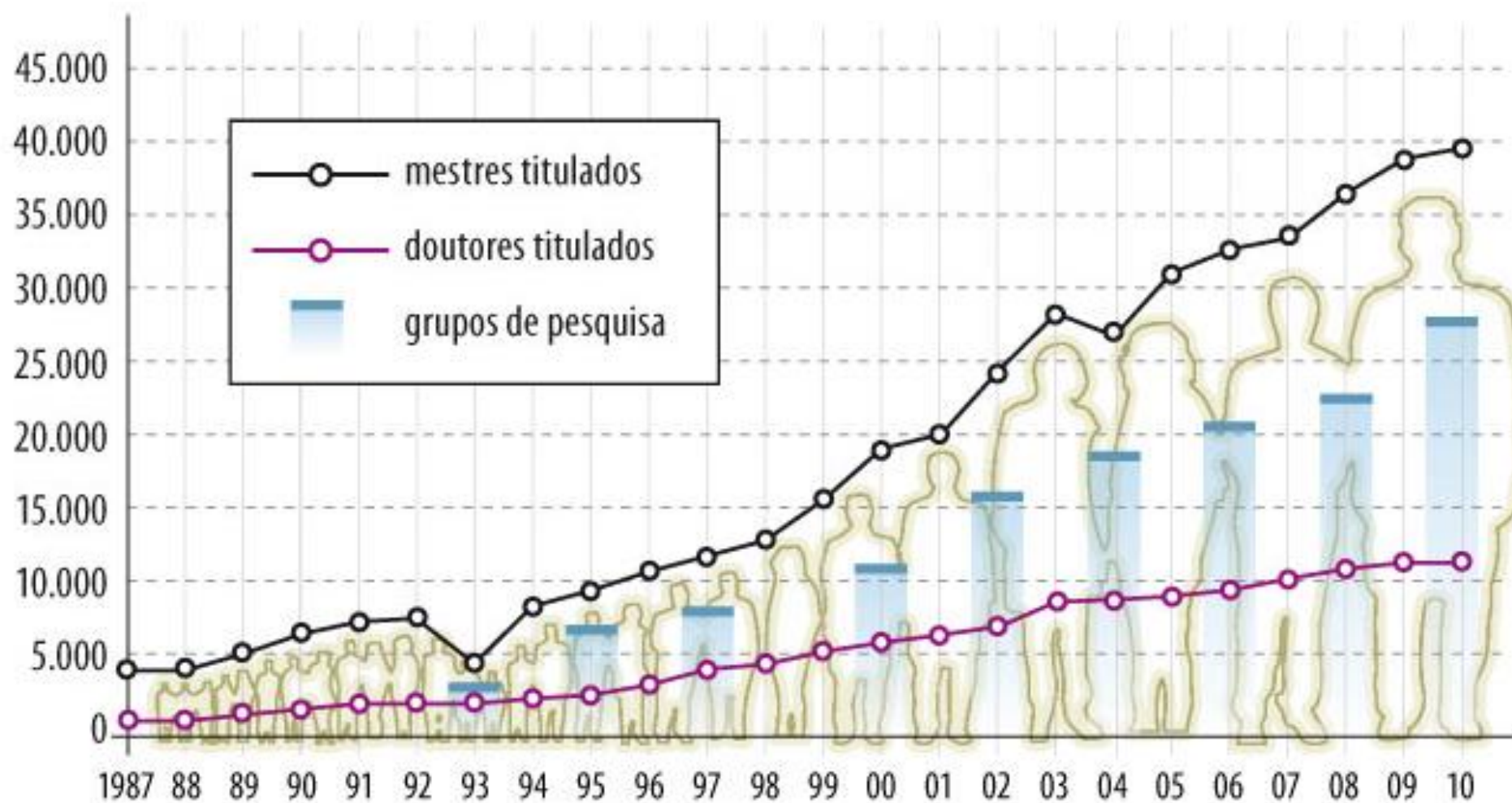
Brazil: Post Graduation Programs, 2006-2010-2014



Source: Philippi Jr (2015) GeoCapes

MINISTÉRIO DA
CIÊNCIA, TECNOLOGIA,
INOVAÇÕES E COMUNICAÇÕES

Brazil: Human Resources



Master Degree
50.305

Doctor Degree
21.591

2017

Fonte: Ministério da Educação e Cultura, 2012

Total number of papers

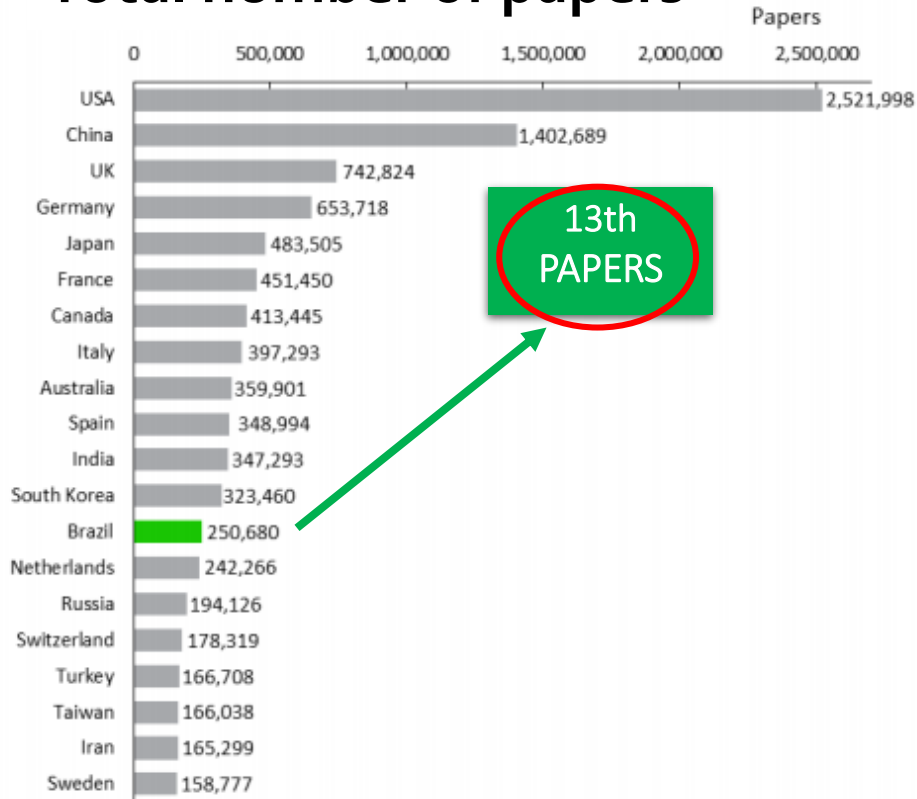


Figure 1. Papers added to Web of Science 2011 - 2016

Actual scenario

Impact

| Country | Papers | Citation Impact | Top 1% | Top 10% |
|--------------|-----------|-----------------|--------|---------|
| Brazil | 250,680 | 0.78 | 0.78 | 6.32 |
| China | 1,402,689 | 1.00 | 1.25 | 10.95 |
| India | 347,293 | 0.78 | 0.72 | 7.07 |
| Russia | 194,126 | 0.63 | 0.66 | 4.92 |
| South Africa | 73,663 | 1.11 | 1.6 | 10.26 |
| Germany | 653,718 | 1.29 | 1.91 | 14.37 |
| Japan | 483,505 | 0.90 | 0.93 | 8.24 |
| France | 451,450 | 1.24 | 1.80 | 13.42 |
| Canada | 413,445 | 1.31 | 2.00 | 14.07 |
| Spain | 348,994 | 1.19 | 1.60 | 12.67 |
| Mexico | 78,318 | 0.82 | 1.00 | 6.69 |
| Argentina | 54,546 | 0.92 | 1.09 | 7.43 |

Figure 14 Productivity and impact of Brazil and comparator countries between 2011 and 2016.

BRAZIL

7°
GDP

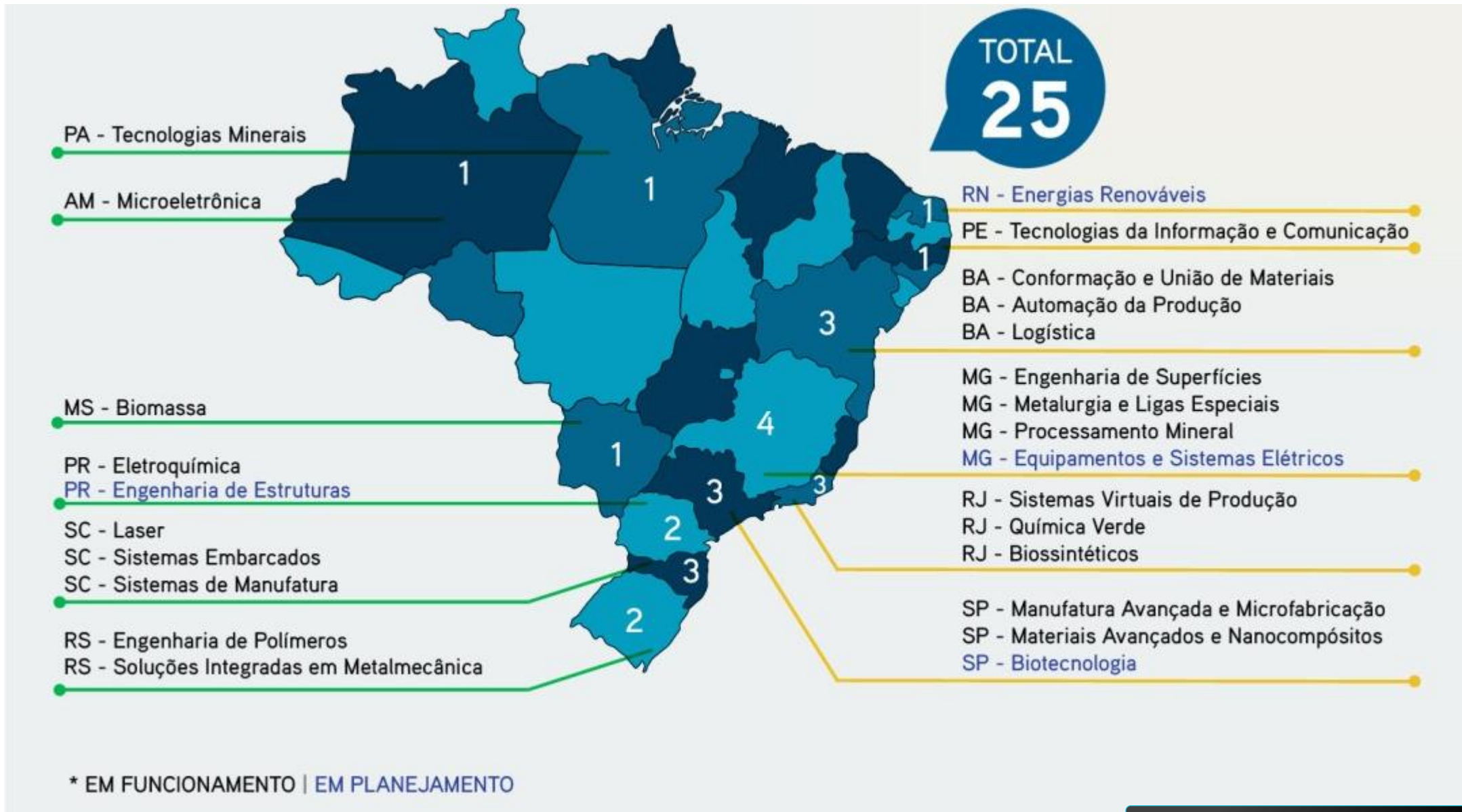
65°
GII

Citation Impact

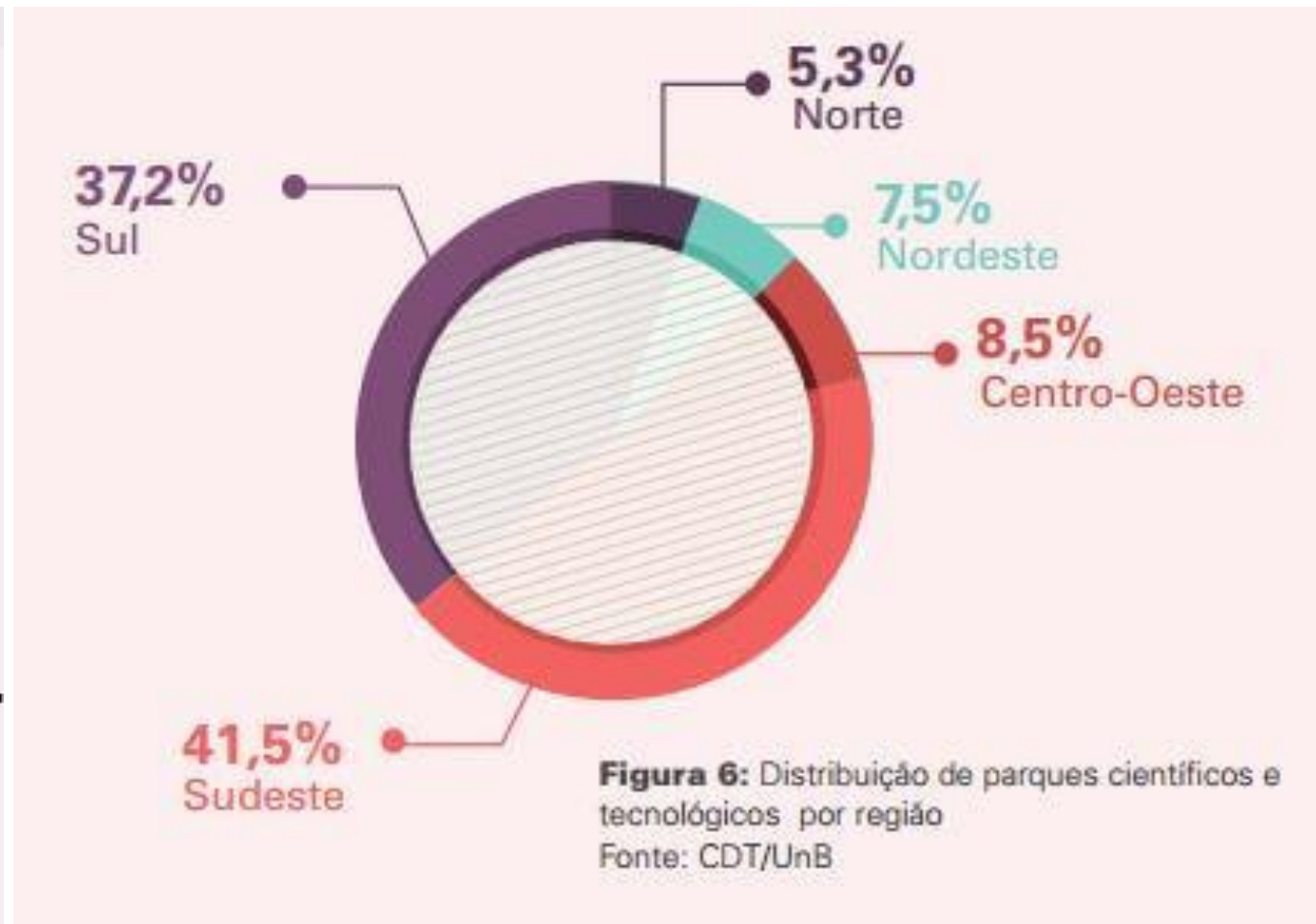
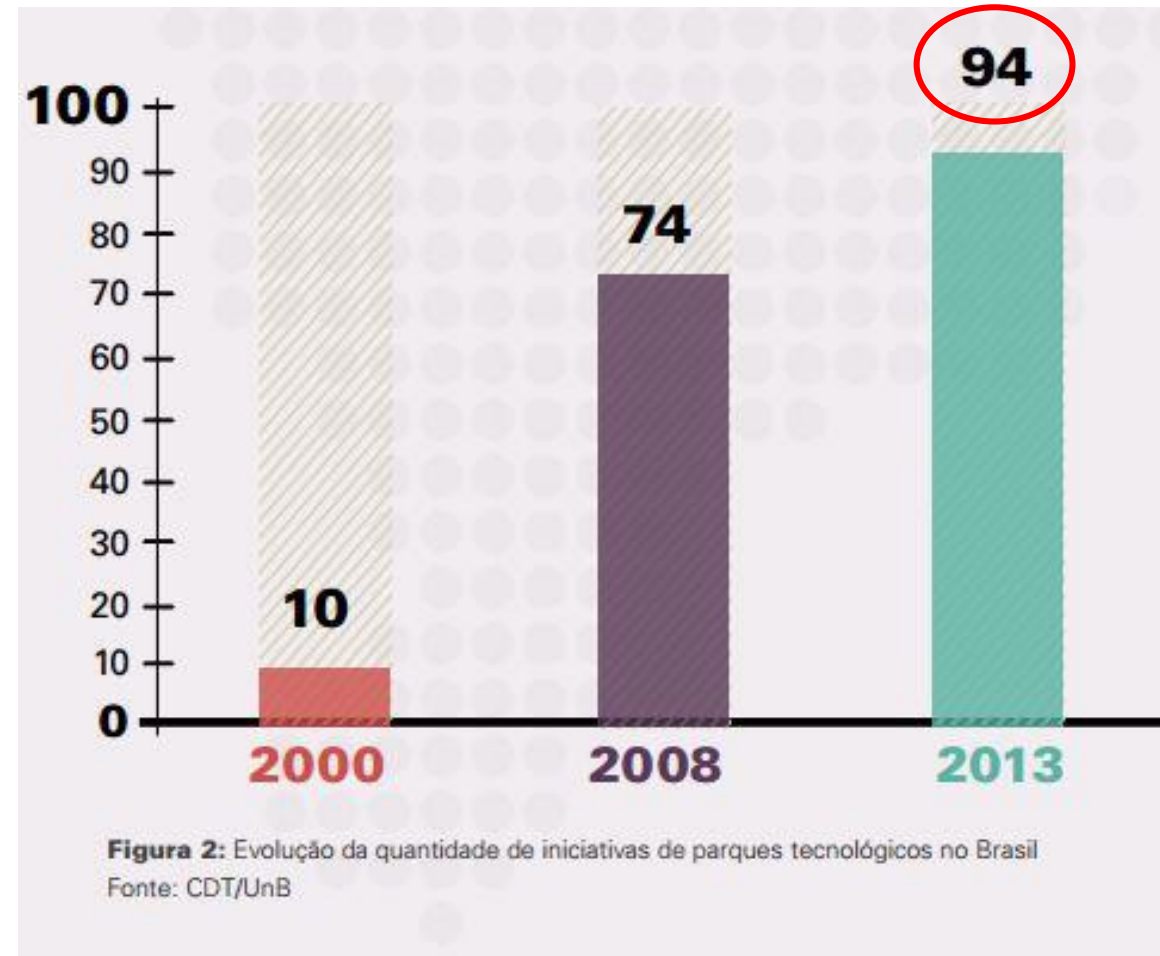
1,31
International
Collaboration

3,20
Industrial
Collaboration

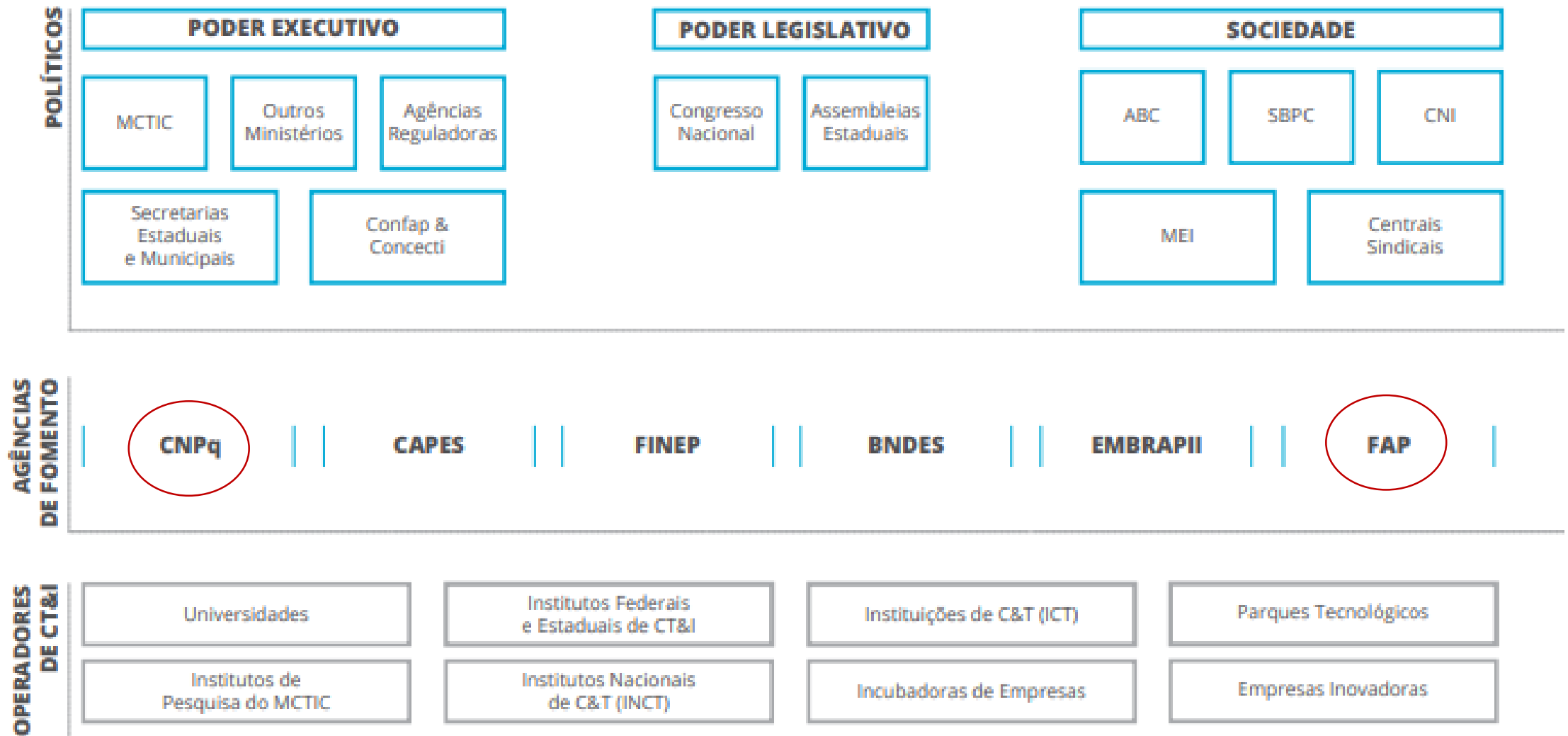
Brazil: Innovation Institutes



Technology parks and incubator centres



Brazil: System STI





SINAPSE
DA INOVAÇÃO

Innovation Synapse



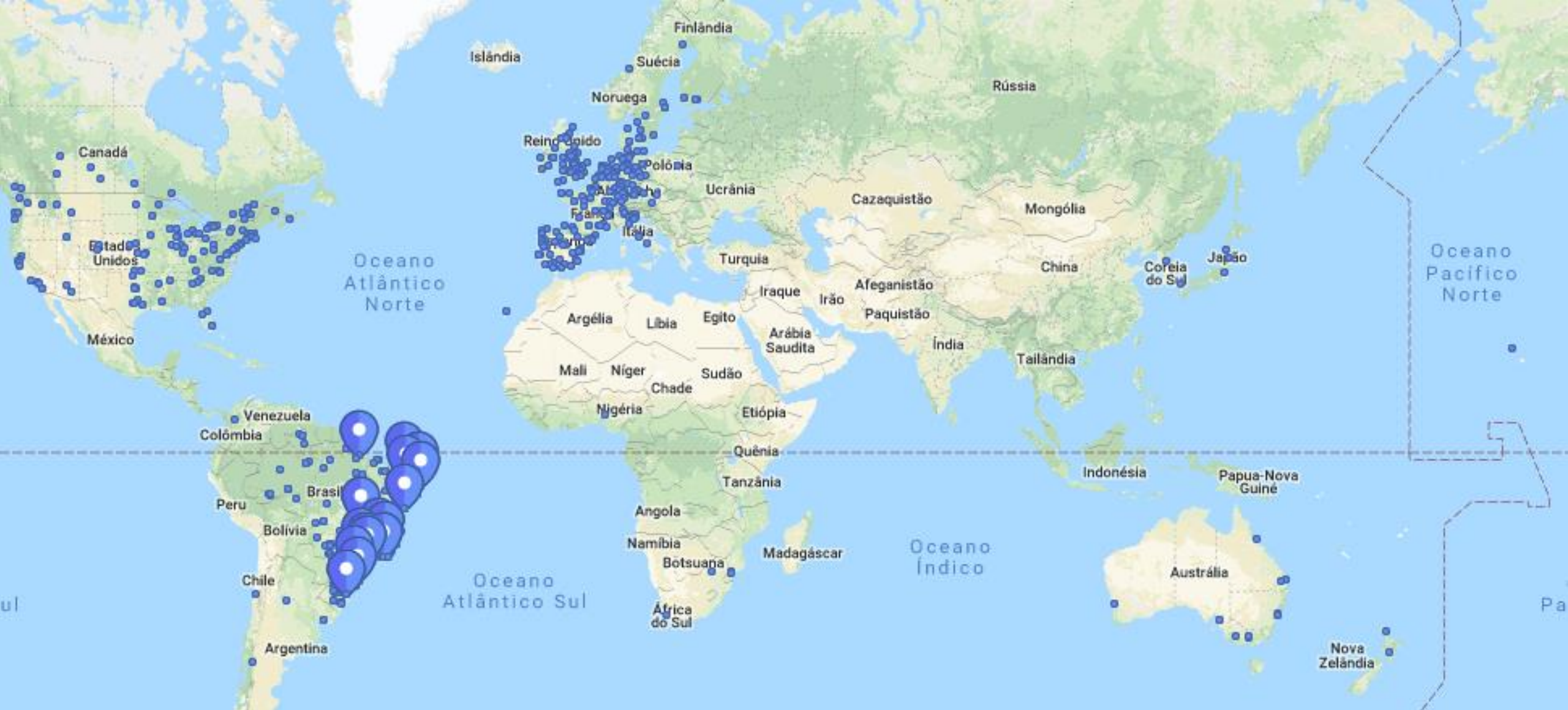
BRASIL

SANTA CATARINA



Mission

To Foster Science, Technology, Innovation and to contribute to national policies, aiming at expanding the frontiers of knowledge and supporting sustainable development.



Fellowship
5.531

Scholarship
80.556



National Institute for Science and Technology



| | |
|----|----|
| AM | 2 |
| BA | 6 |
| DF | 4 |
| GO | 1 |
| MA | 1 |
| MG | 10 |
| MS | 1 |
| MT | 1 |
| PB | 1 |
| PE | 4 |
| PI | 1 |
| PR | 2 |
| RJ | 19 |
| RO | 1 |
| RS | 9 |
| SC | 4 |
| SE | 1 |
| SP | 34 |

102 INCTs

USD \$ 185.317.063

USD\$ - R\$ 3,5 - 2016



Ações em Parcerias com os Estados

- PPP
- PRONEM
- PRONEX
- PPSUS
- PBIC Jr
- DCR

| | |
|----------------------|--|
| Estimulo à pesquisa | Formação e qualificação de pesquisadores |
| Iniciação à pesquisa | Desenvolvimento Tecnológico, e Inovação |

Fomento à Ciência e Tecnologia

| | | |
|------------------|--------------------|----------------------|
| Edital Universal | Chamadas Temáticas | Difusão Popularizaç. |
|------------------|--------------------|----------------------|

Internacionalização da C&T

INCT

Parceria com Ministérios & Agências

Fomento a Inovação

RHAE Pesquisador na empresa

- Energia
- Biotec.
- TIC

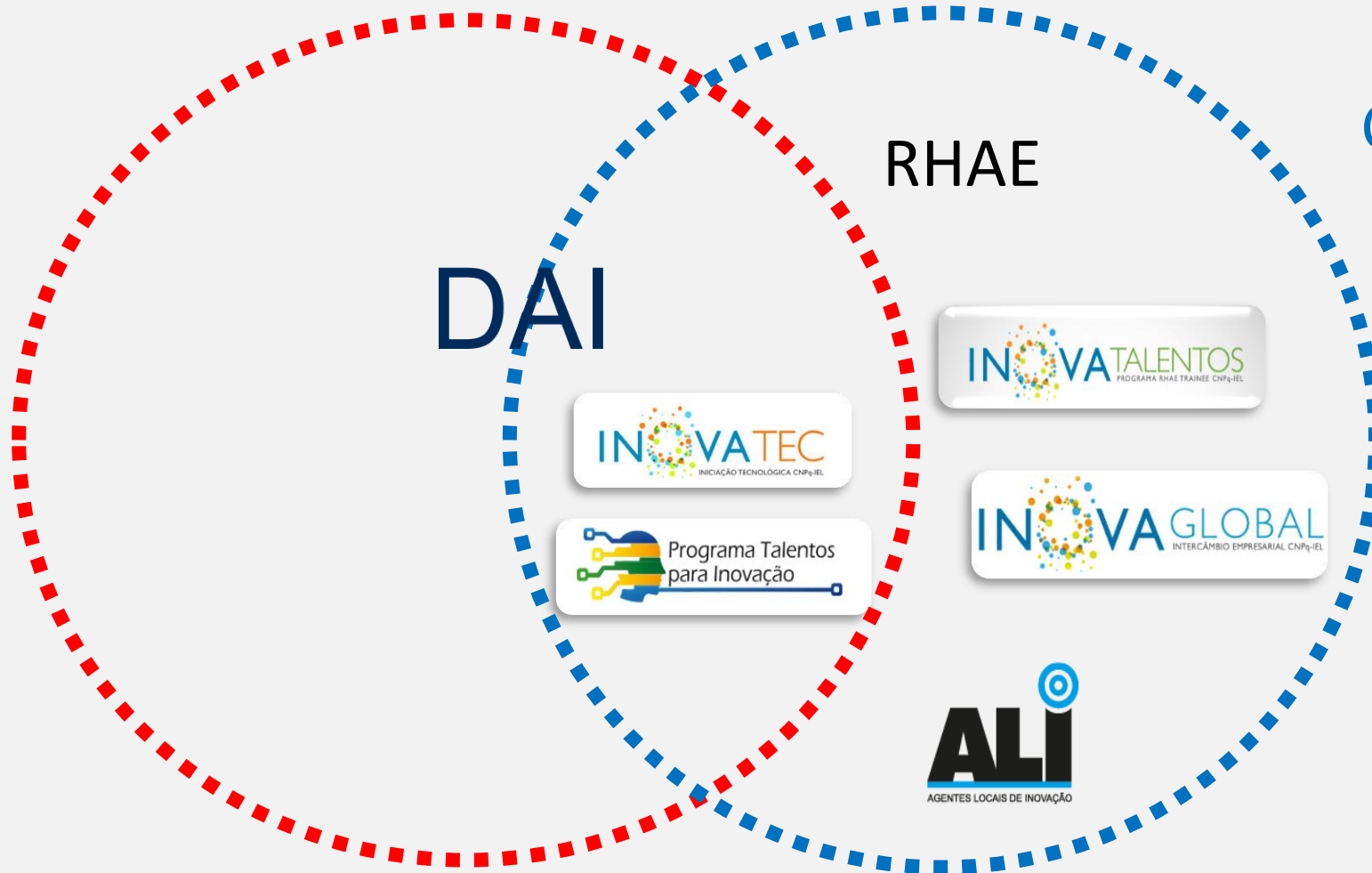
Bolsas de Fomento Tecnológico

- BJT
- DAI

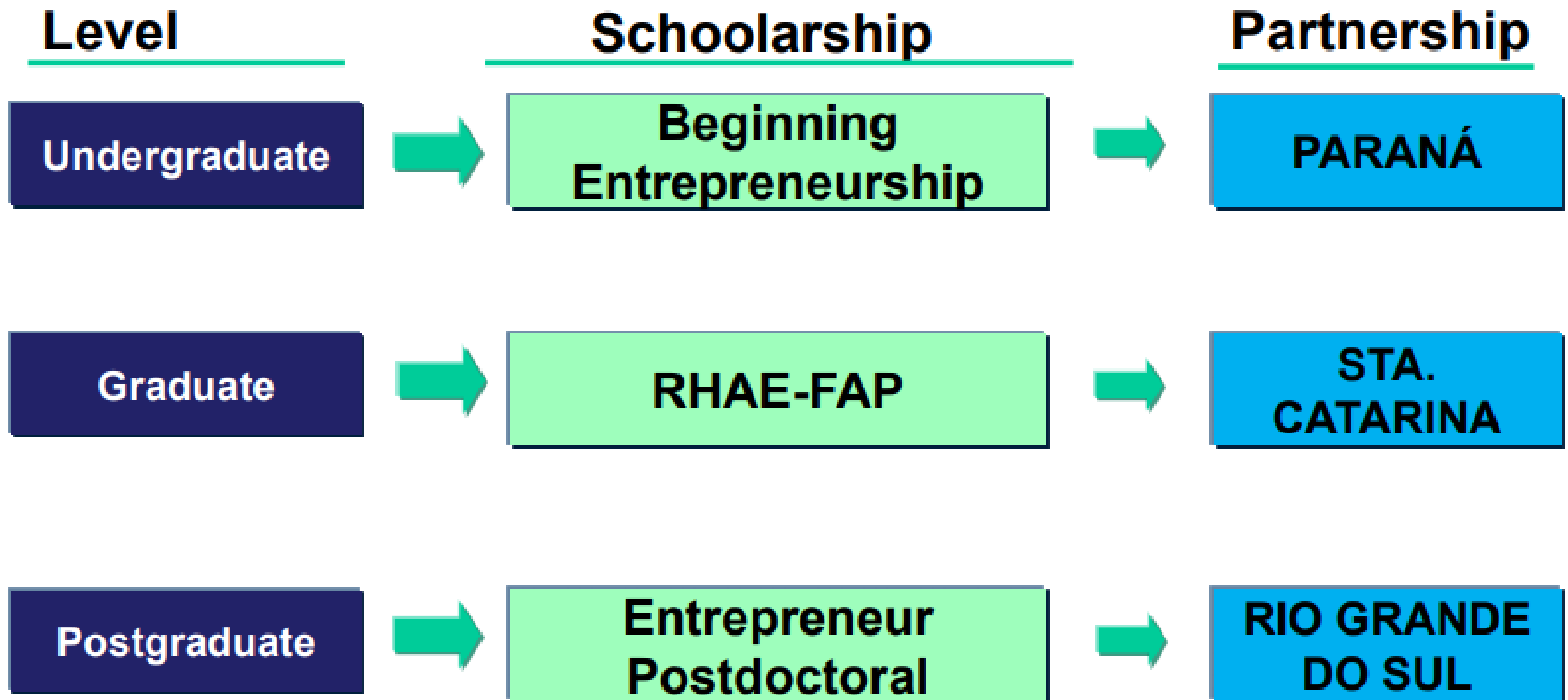
START-UP BR

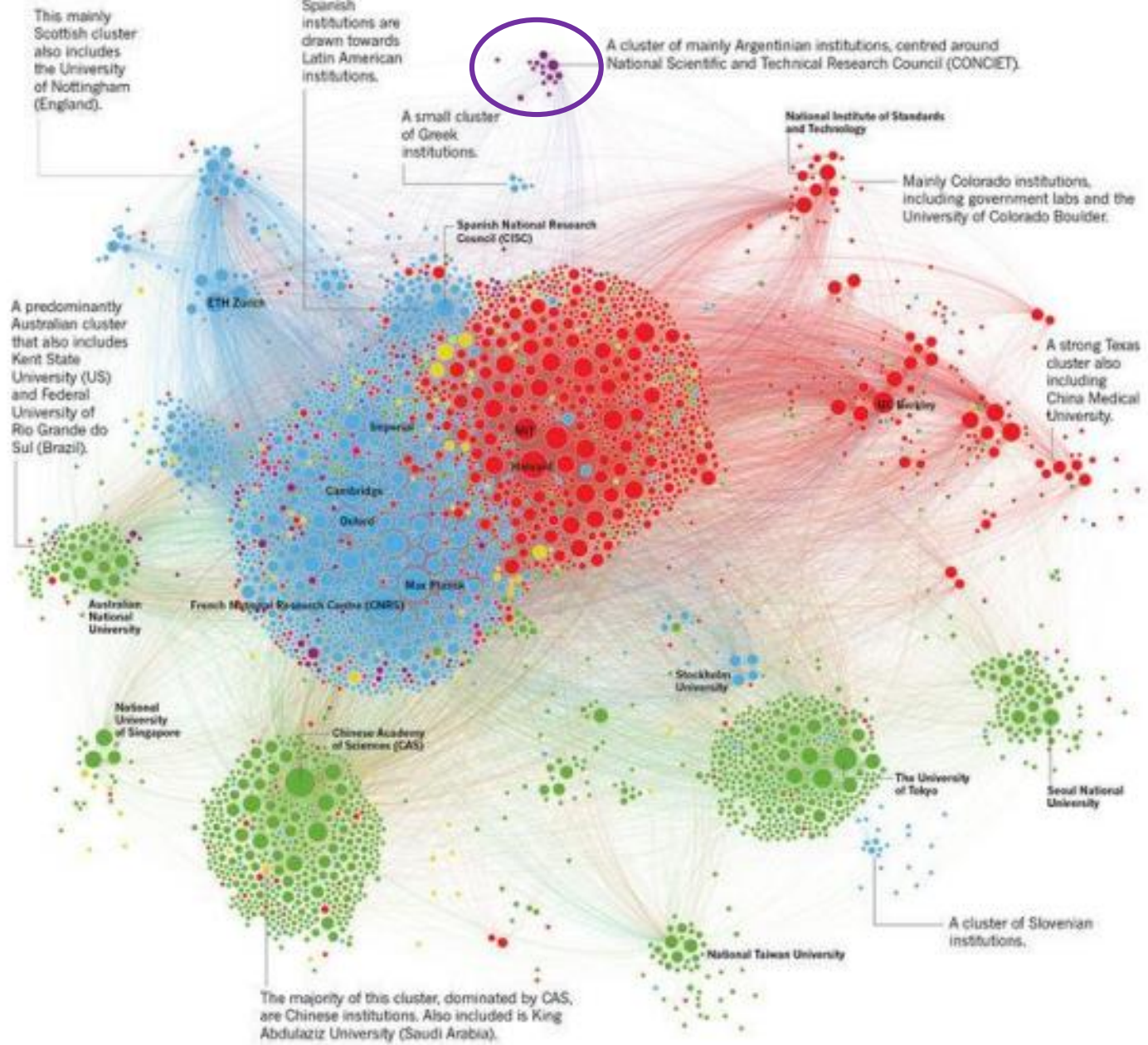
Universities
Institutes

Companies

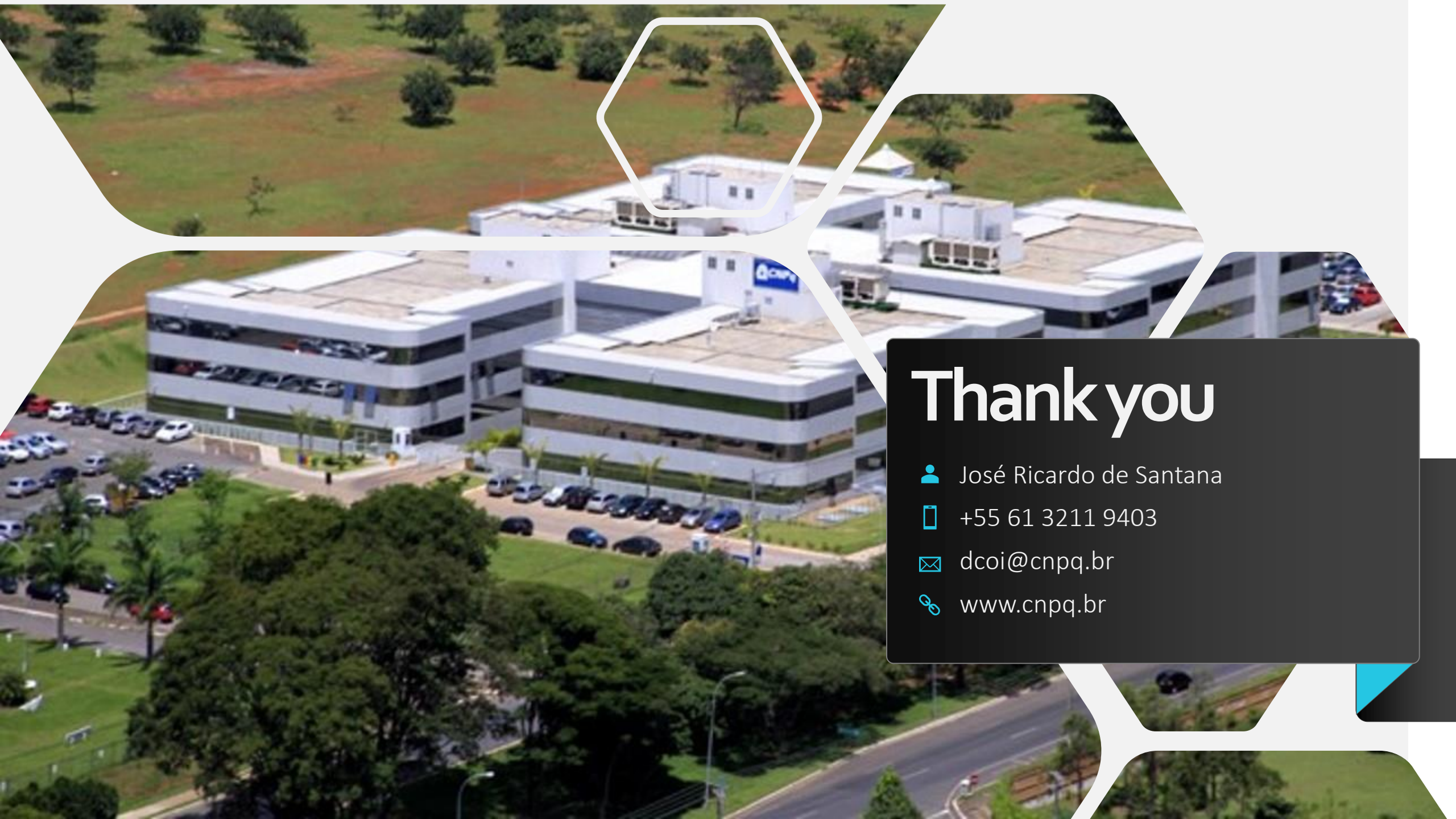


Support to entrepreneurship programs






● Africa
 ● Asia Pacific
 ● North America
 ● Europe
 ● South America
 ● West Asia



Thank you

 José Ricardo de Santana

 +55 61 3211 9403

 dcoi@cnpq.br

 www.cnpq.br