



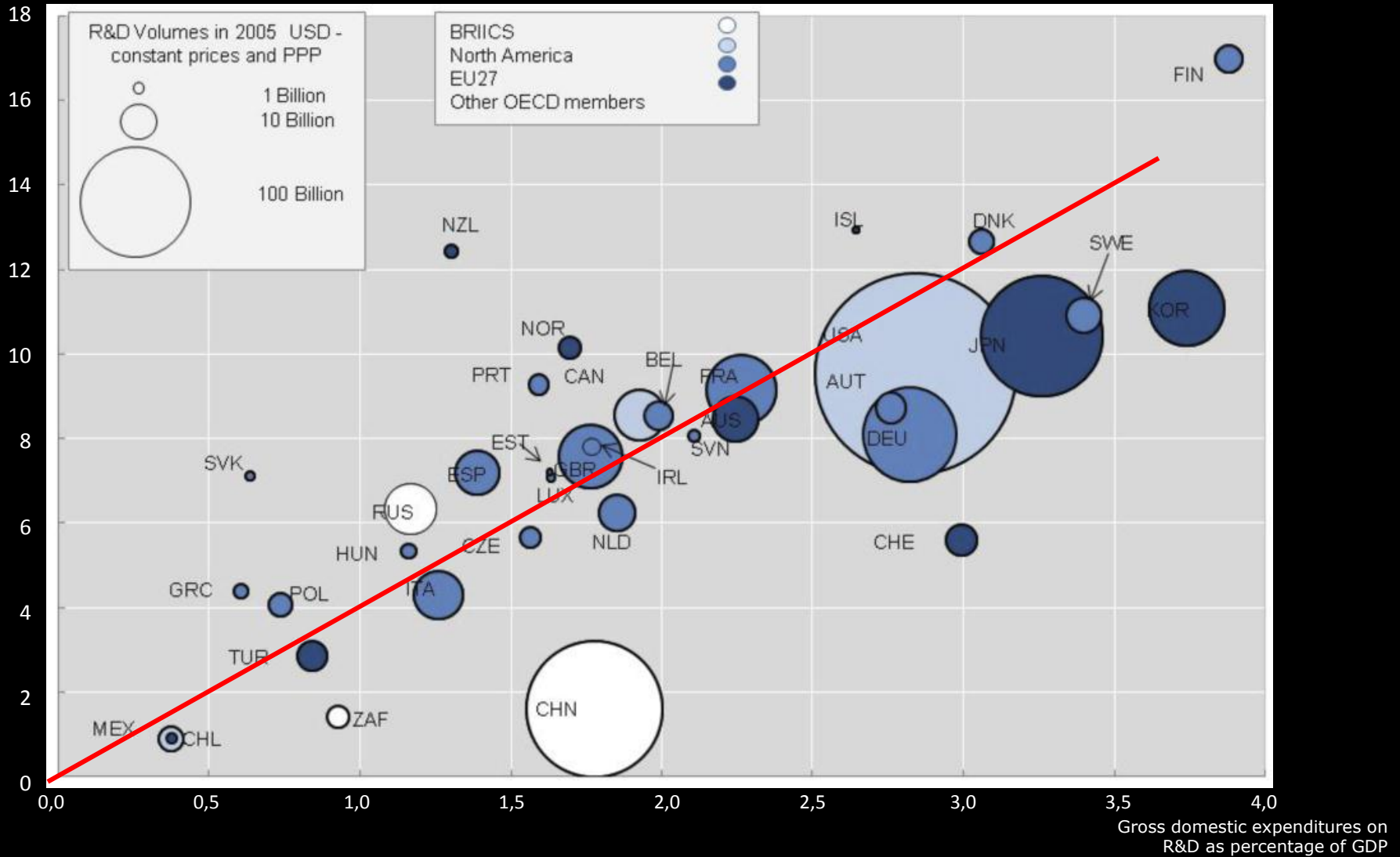
Cooperation Practice, Policy and Programs in Chile

Gonzalo Arenas
Acting Director
Program of International Relations
CONICYT
November 2013

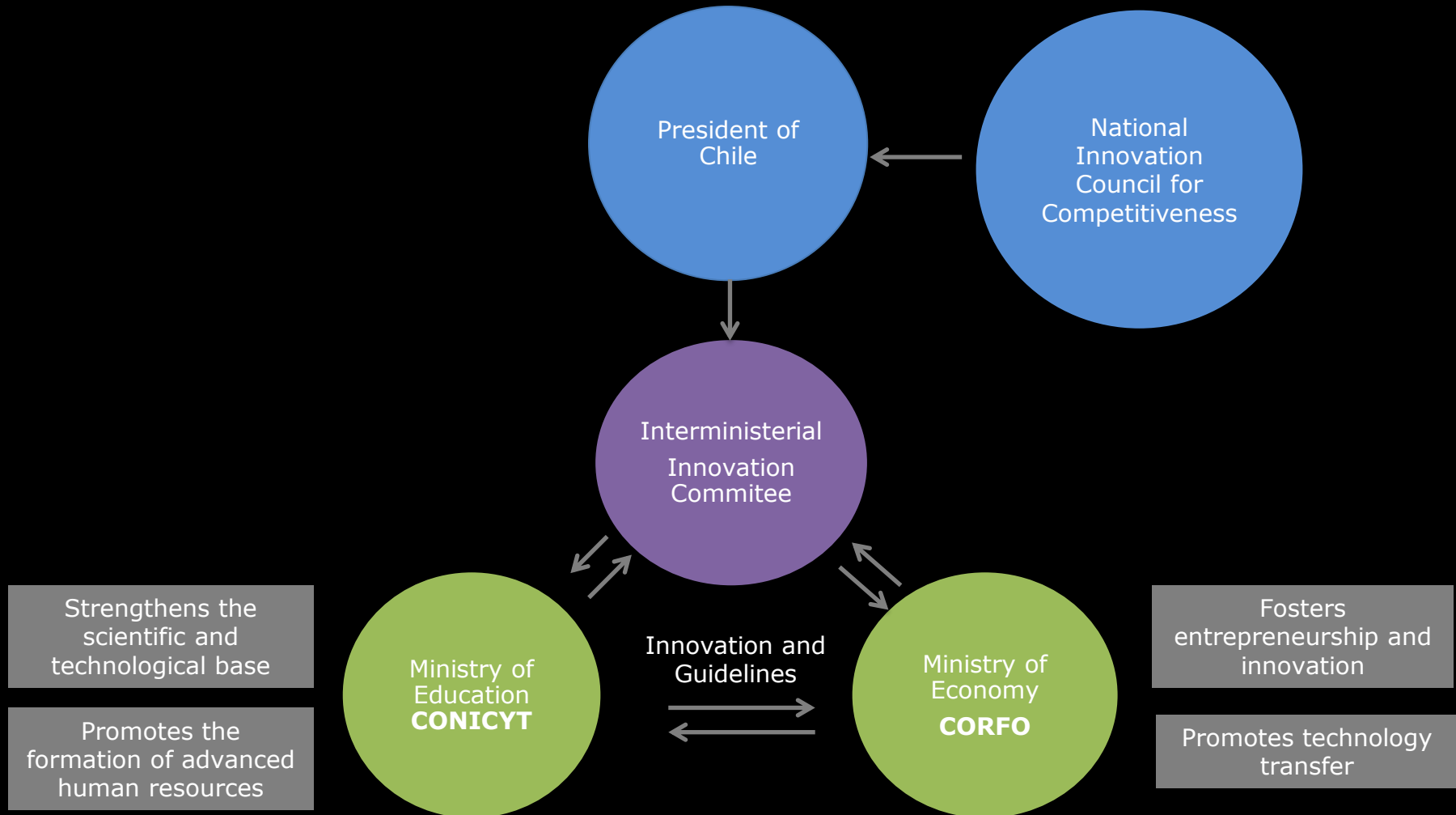


Number of scientists and investment in R&D

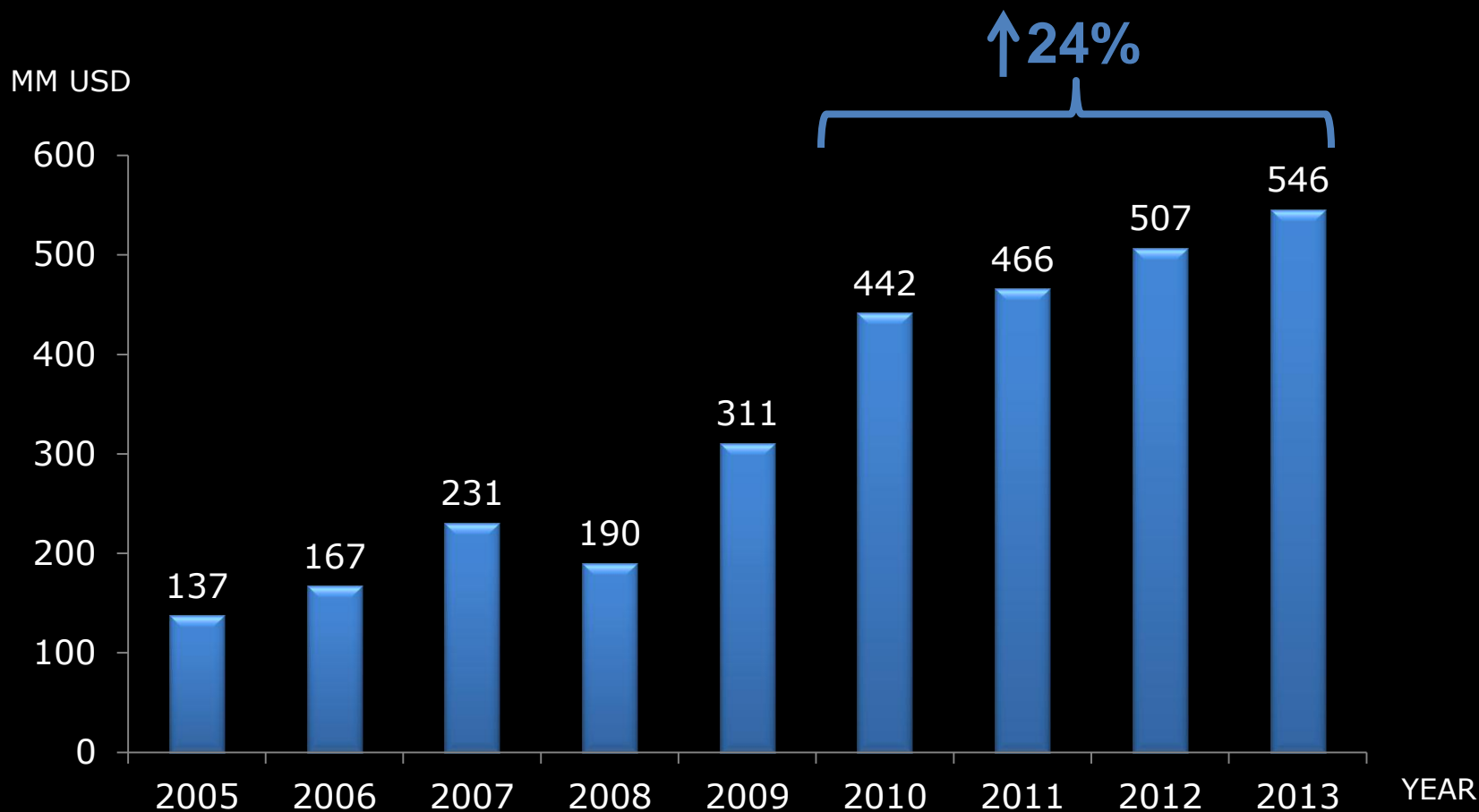
Researchers per thousand employment



The National Innovation System



CONICYT's Budget Evolution



Source: CONICYT

Note: Average peso/dollar exchange rate of last quarter: US\$1= 486.75 Chilean pesos, Central Bank of Chile. Calculated in average USD 2012.

What do we fund?



HUMAN CAPACITY BUILDING

- **Scholarships**
34.8% of total budget
- PhD and Master (national and international) as well as postdoctoral stays and doctoral internships overseas.
- By 2013:
 - 2158 PhD students in 136 accredited programs
 - 1674 PhD students (150 top universities in the world) – **Becas Chile**



IDEAS

- **FONDECYT**
29% of total budget
- Research lines by individual scientists in all areas of knowledge.
- By 2013:
 - 1783 Regular projects (893 w/international collaboration)
 - 690 Initiation projects (264 w/ international collaboration)
 - 416 postdoctoral positions (call open worldwide)



APPLIED RESEARCH

- **FONDEF - FONIS**
6.4% of total budget
- **FONDEF:**
Industry/University collaboration in applied science/engineering. 55 projects under the IDeA Program funded in 2012.
- **FONIS:**
Encourage and build capacities for applied research in the field of health. 41 projects funded in 2012.

What do we fund? *cont.*

ASSOCIATION



- Long-term **associative projects**, *ca.* 2 USD million/year, 5+5 years
 - **FONDAP** (8 + 4): address national problems or opportunities (natural laboratories).
 - **Basal** (13): basic science with tech transfer
 - **Millennium Initiative** – Basic science
 - International R&D **Centers of Excellence**

INTERNATIONAL COOPERATION



- **International Relations Program**
2013 budget is 5X higher than in 2010.
- 5 joint research projects co-funded in 2012 between CONICYT and NSF.
- 38 international network projects funded between 2010 and 2012
- International Alliances of Excellence with Columbia University, MIT, Harvard, among others.

NATIONAL CAPACITIES



- **Regional Program**
(14 regional centers in different regions of Chile)
 - Equipment
 - Science in society and schools
 - **Scientific information Program.**
 - Attraction/Insertion (over 120 scientists have been attracted to Chilean universities between 2010 and 2013).

CONICYT major programs open to foreign researchers

Other programs:
Astronomy, FONDAP,
Regional, Associative
Research

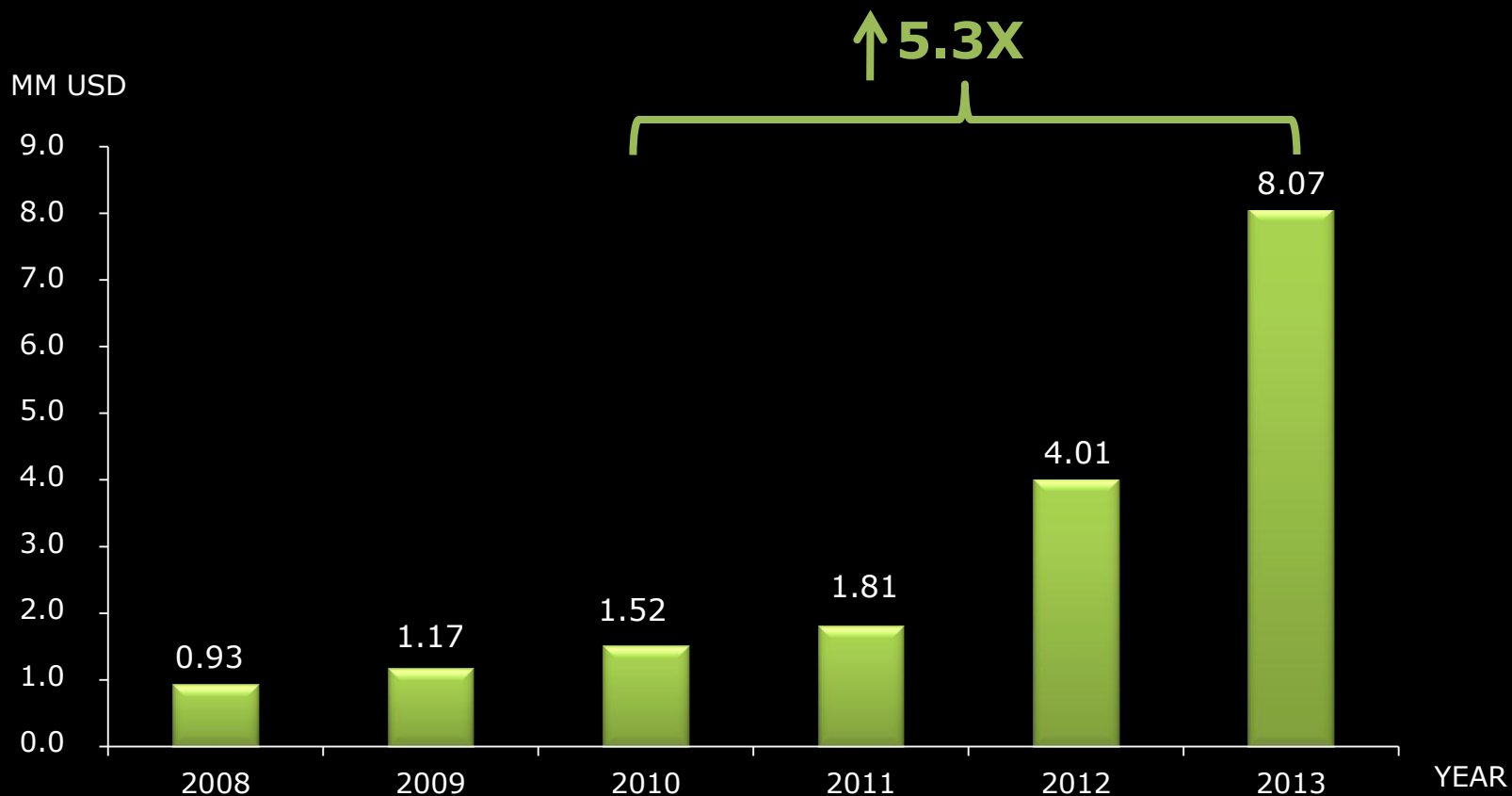
International
Cooperation

Scholarships

Attraction and
Insertion of Advanced
Human Capital

National Fund for
Scientific and
Technological
Development
(FONDECYT)

Program of International Relations



Source: DIPRES & CONICYT

* Executed budget for 2008,2009,2010,2011 and 2012

* Planned budget for 2013

* Calculated using the average exchange rate for each year, Central Bank of Chile

Program of International Relations



Joint Research projects

- Bilateral joint projects carried out by Chilean and foreign researchers
- 2 to 3 years
- Around 100,000 USD per year
- Calls: vary depending on the counterpart



International research projects

- International collaboration projects between worldclass research teams in Chile and researchers abroad
- 3 years
- Around 100,000 USD per year
- Annual call



International Networks

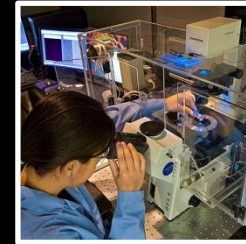
- Creation of international networks through short stays, workshops and internships
- 1 year
- 30,000 to 50,000 USD per project
- Annual call

Program of International Relations



Mobility projects

- Mobility in the frame of bilateral research projects
- 1 to 2 years
- 4,000 to 10,000 USD per project
- Annual call

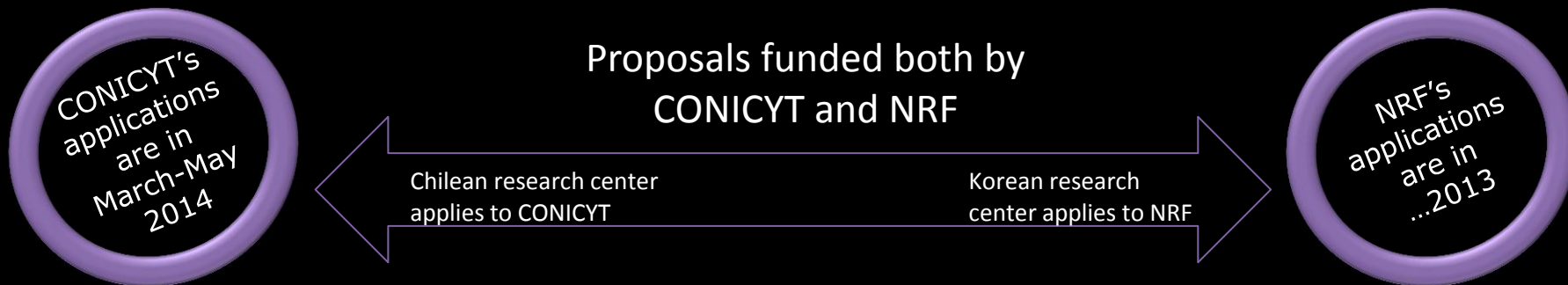


International Alliances of excellence

- Joint collaboration with institutions (MIT, Harvard, Columbia, UC Berkeley)
- 1 to 2 years
- 30,000 USD per project
- Annual call

Program of International Relations

CONICYT-NRF Joint Call for proposals in support of international networking between research centers



Support for activities that promote international networking between Chilean and Korean science and technology research centers

Applicants must provide a formal letter of commitment from the foreign research center to collaborate with the Chilean center

Each selected project will be awarded by CONICYT up to around USD 30,000

Short-length training internships at research centers abroad

Research visits to centers in Chile and overseas

Organization of bilateral workshops or seminars in Chile

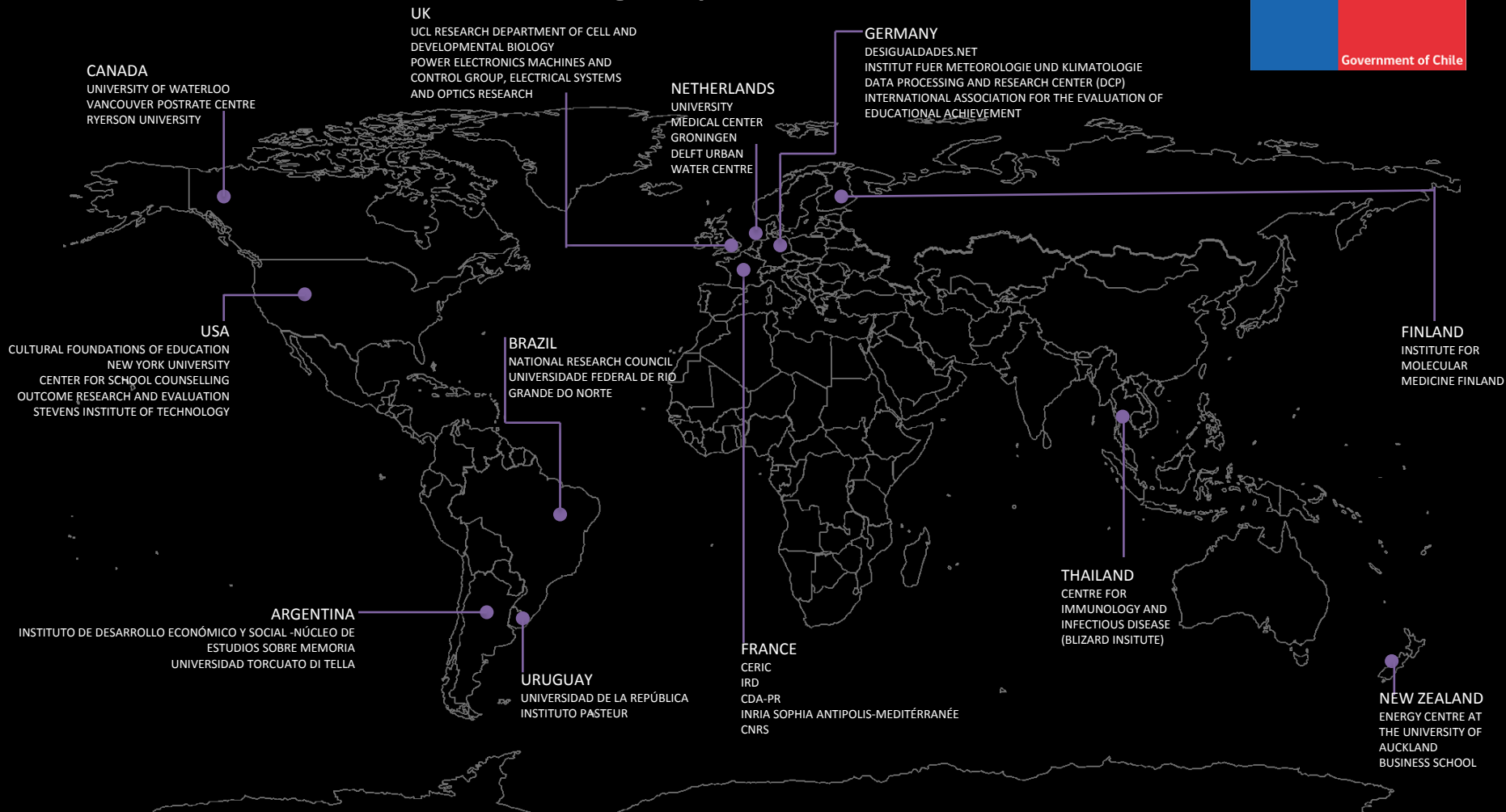
Access to scientific and technological equipment

Contact:

NRF: shpahk@nrf.re.kr

CONICYT: mmesonero@conicyt.cl

2013 New International Networking Projects between research centres



Projects awarded 28

Proposals received 132

Program of International Relations

Call for proposals in support of international networking between research centers

Funded projects between 2010 and 2013



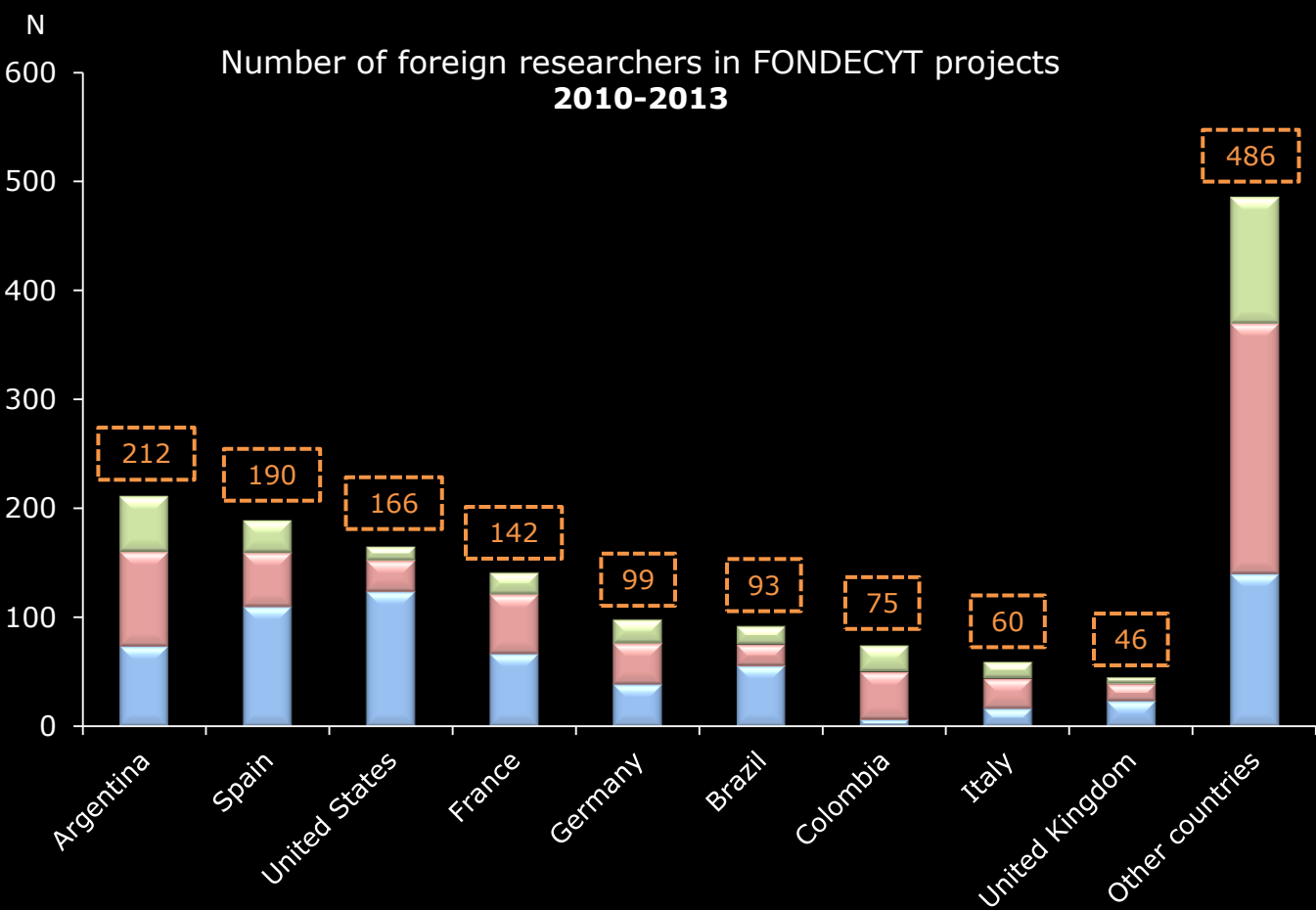
Country	# of projects
North America	25
<i>United States</i>	17
<i>Canada</i>	7
<i>Mexico</i>	1
South America	13
<i>Argentina</i>	2
<i>Brazil</i>	9
<i>Uruguay</i>	2
Europe	20
<i>France</i>	5
<i>Finland</i>	1
<i>Germany</i>	7
<i>Netherlands</i>	2
<i>United Kingdom</i>	5
Asia	7
<i>China</i>	3
<i>Japan</i>	3
<i>Thailand</i>	1
Oceania	2
<i>New Zealand</i>	2
Total	67

Source: DRI - CONICYT

National Fund for Scientific and Technological Development (FONDECYT)

1569 foreign researchers in FONDECYT projects between 2010 and 2013

658 Visiting researchers
 +
 597 Foreign PI
 +
 314 Foreign co-researchers



Funding instrument: Regular Success rate 2013: 55%

Success rate 2012: 53% Funding instrument: **Initiation**

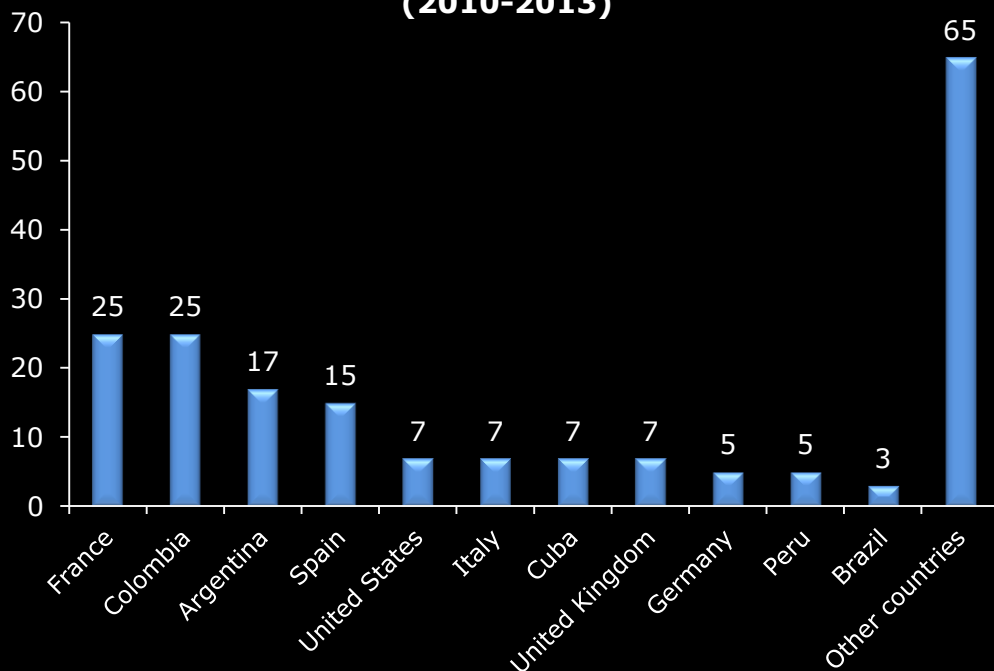
Funding instrument: Postdoc Success rate 2013: 55%

Source: FONDECYT - CONICYT

National Fund for Scientific and Technological Development (FONDECYT) Foreign Postdocs

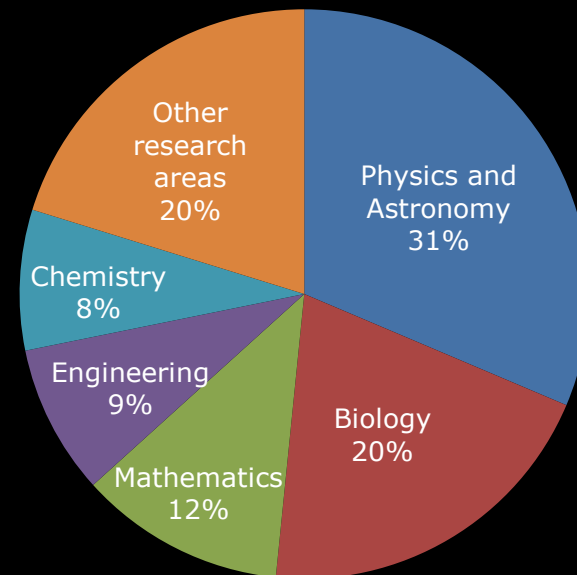
188 foreign scientists have obtained a postdoctoral position funded by CONICYT between 2010 and 2013

Distribution of postdocs per country of origin (2010-2013)



Source: FONDECYT - CONICYT

Distribution of foreign postdocs per area of research (% of total):



Source: FONDECYT - CONICYT

Fund for Research Centers of Excellence

11 research centers of excellence currently funded by CONICYT

USD 1.7 million*
per year
over a period of
5 years
(+ 5 more years)

Proposals must include a renowned **foreign institution**



Genome Regulation



Geothermal Energy



Intercultural and Indigenous Studies



Integrated Natural Disasters Management



Solar Energy



Sustainable Urban Development



Climate and Resilience Research



Conflict and Social Cohesion in today's Chile



Medicine for XXI century chronic diseases



Sustainable Aquaculture Research



Water Resources

Thank you

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