



CONICYT  
Ministerio de Educación

Gobierno de Chile

Chile

## Science and its Funding

A brief overview

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President of the Council of CONICYT

ICTP-SAIFR, November 7 - 2016

+ *Context about Chile*

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# About Chile



**Estimated population:**  
18.191.884 inhabitants\*

**Territory:**  
Total area 756.096 km<sup>2</sup>  
15 Regions

**GDP 2015(e)\*\*:**  
\$281 Billion USD

**Main exports:**  
Copper and its by-products, fruits, fish products, paper, chemical pulp and wines.

**Member of:**  
OECD, APEC, MERCOSUR, UNASUR.

\* INE – National Institute of Statistics

\*\*International Monetary Fund, World Economic Outlook Database, April 2014, <http://www.imf.org/external/data.htm>

# Education and Science in Chile



**Enrollment rate in higher education among the youth 18 to 24 years old (2014):**  
39,3% \*

**Enrolled students in graduate schools (2014):**  
46.806 (mainly Master degree)



**Expenditure in R&D :**  
**0,38% of GDP 2015**  
Lowest among OECD countries

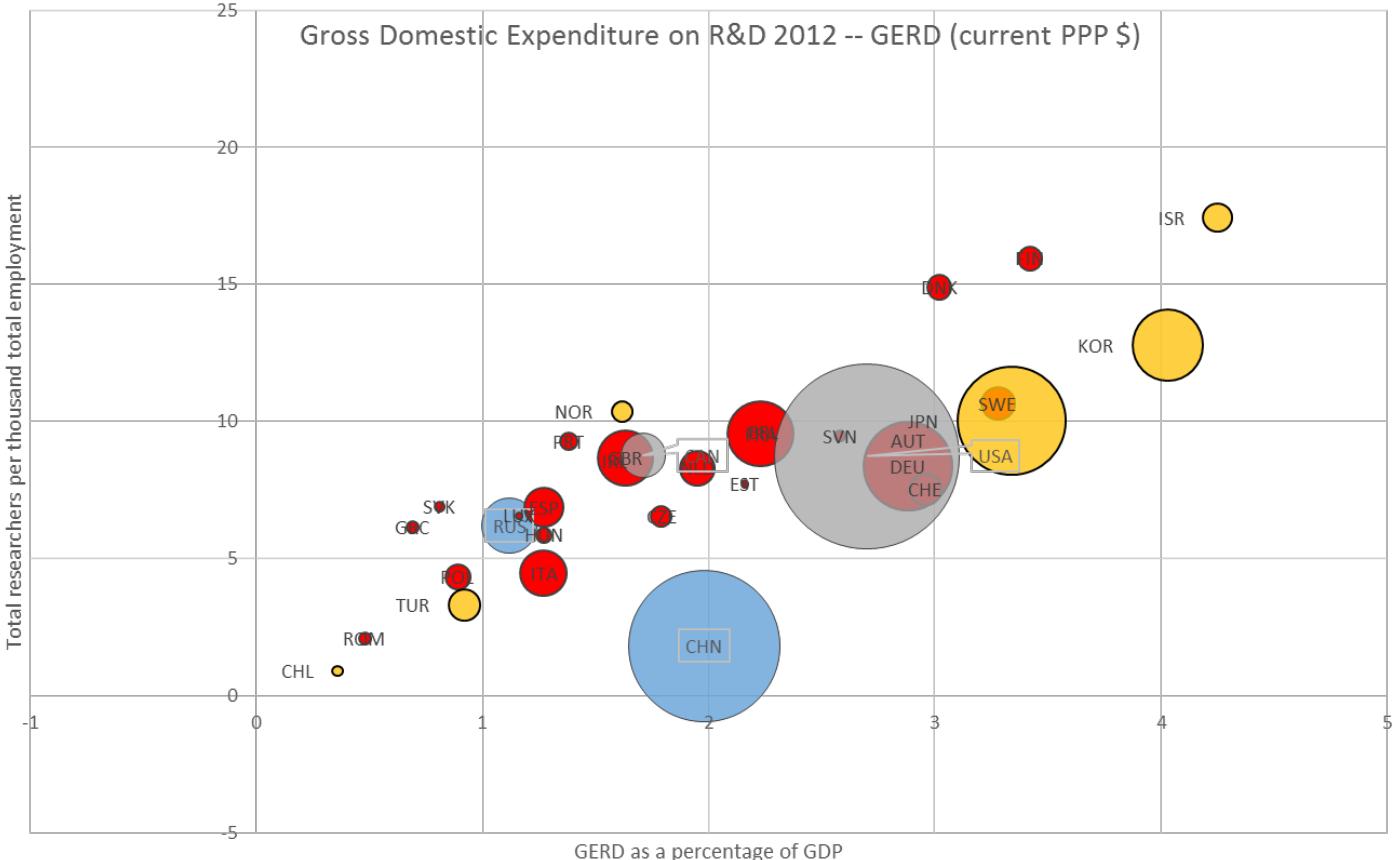
**Scientific Capital Pool – SCP (2013):**  
8.601

**Scientific publications, category ISI (2015):** 9.503  
(3,6% above world growth rate average )

Source:

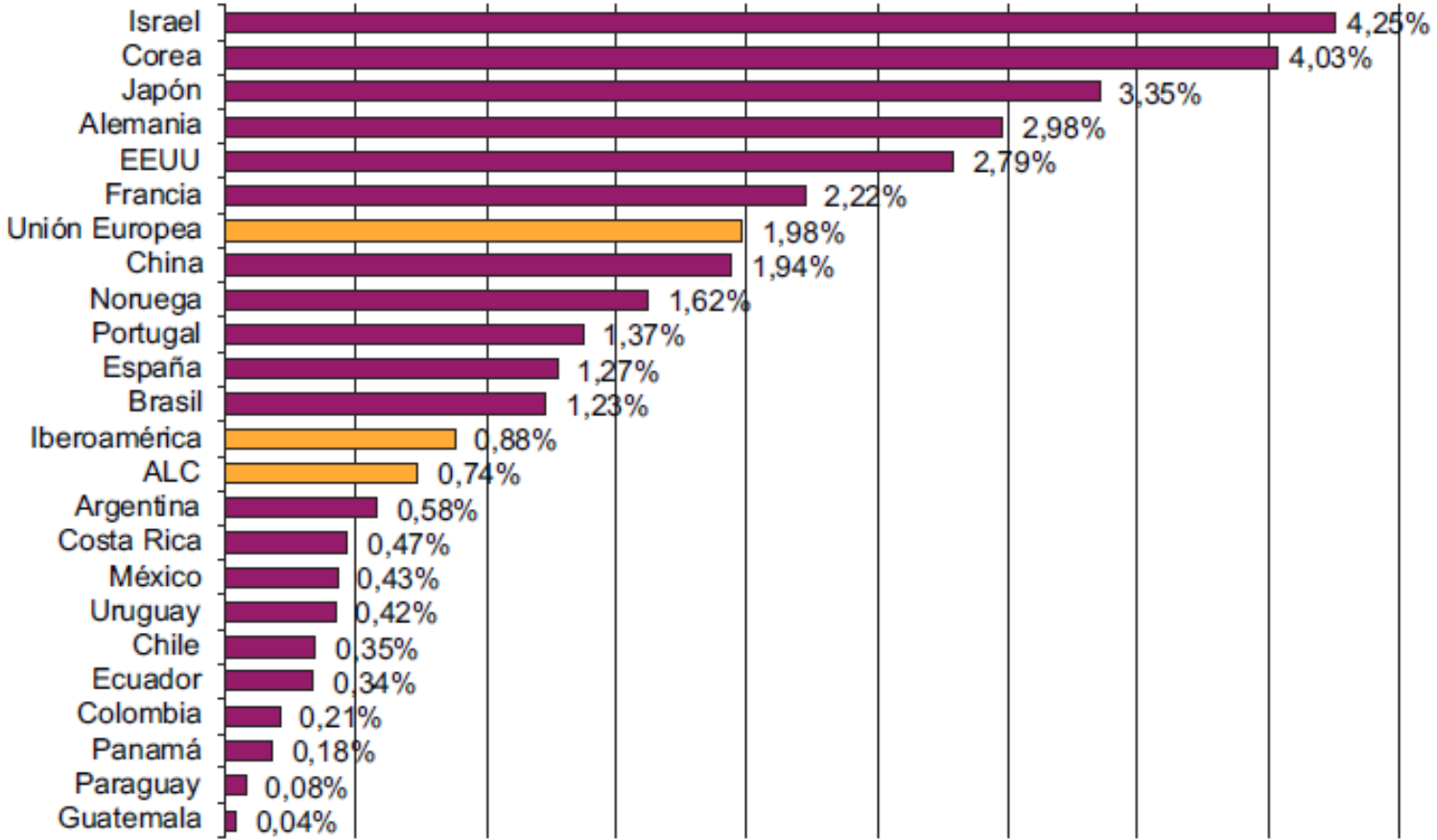
- 3ra Encuesta Nacional sobre Gasto y Personal en I+D, Ministerio de Economía.
- (\*) Servicio de Información de Educación Superior (SIES) 2014 based on estimated population by INE 2014.
- Lead researchers or researchers of FONDECYT projects - Regular and Initiation, and postdoctoral, 2014.

# World context



Fuente: Science and Technology Indicators 2012.

# R&D expenditure as percentage of GDP 2014

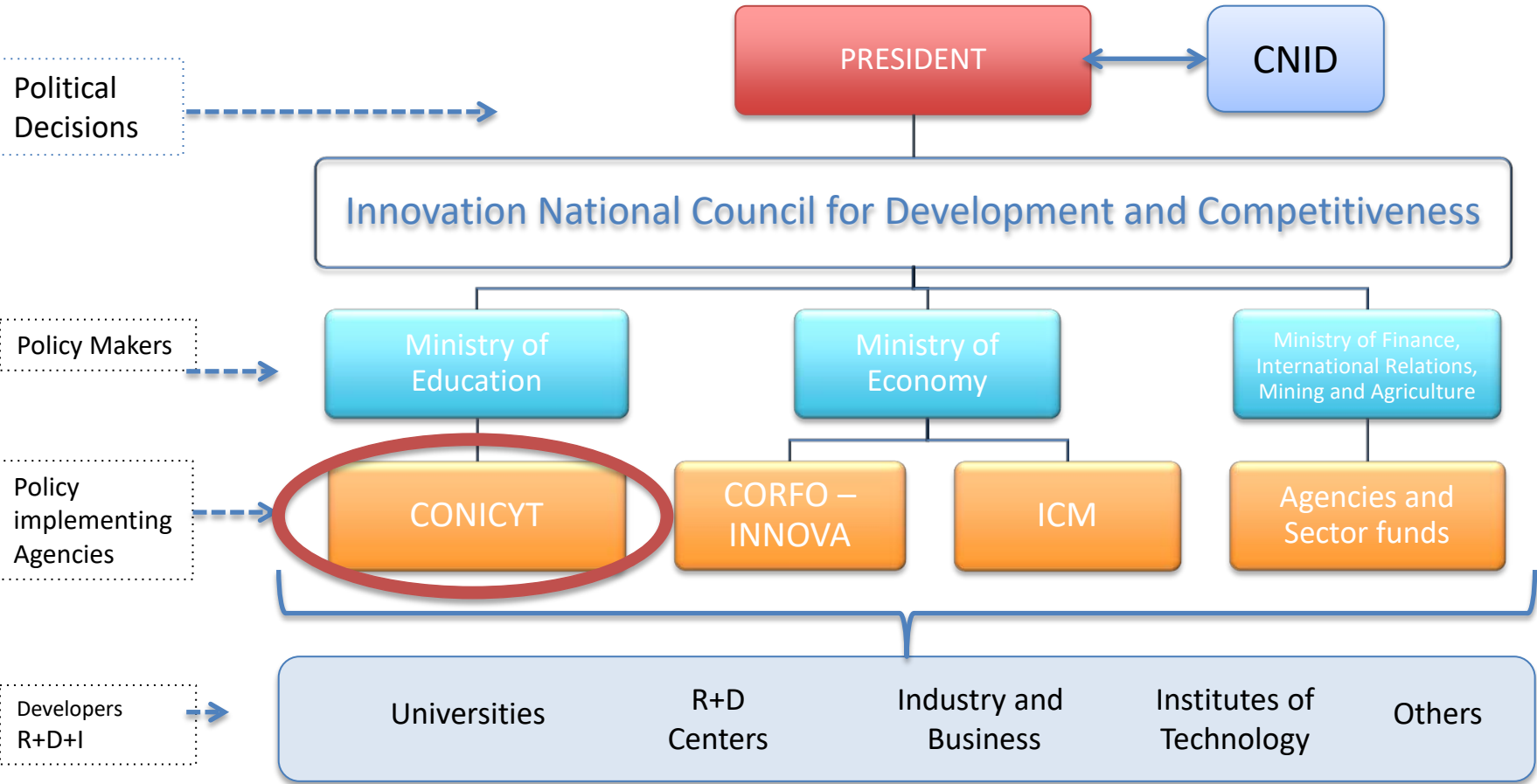


Fuente: Estado de la Ciencia en imágenes 2014. RICYT.

+ *Governance and funding*

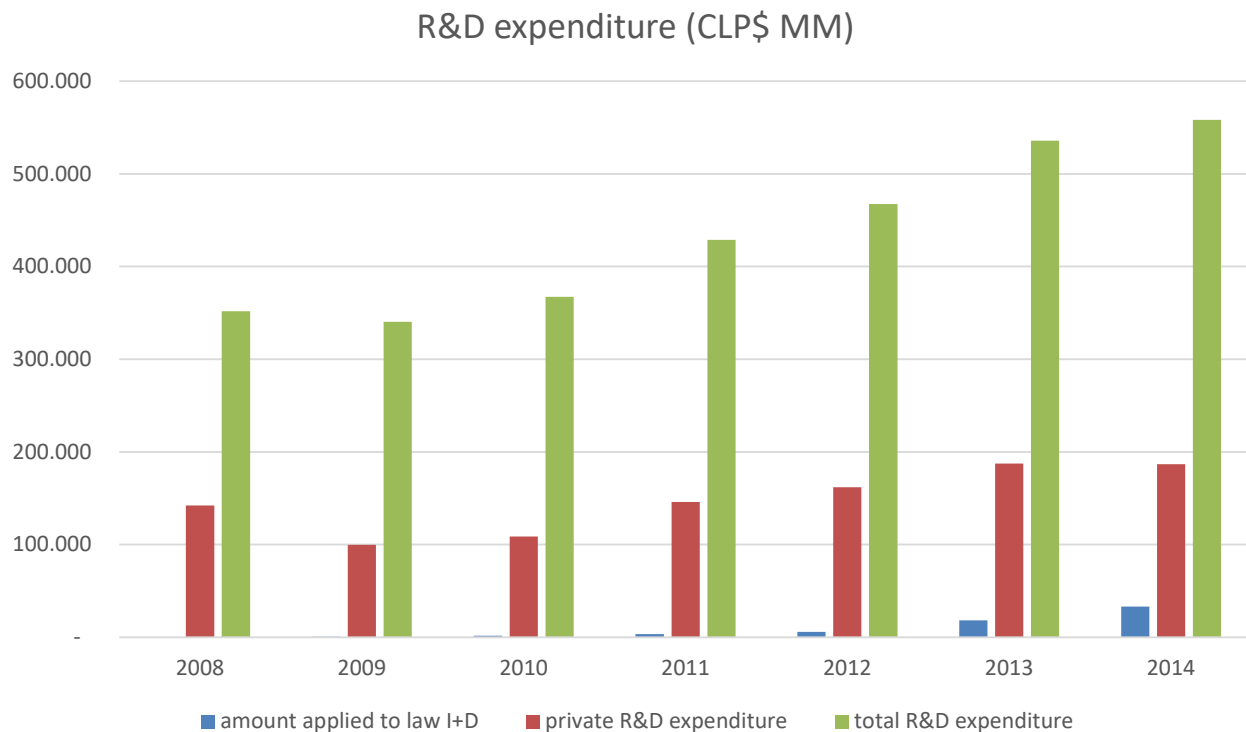
02

# National System for S&T + I





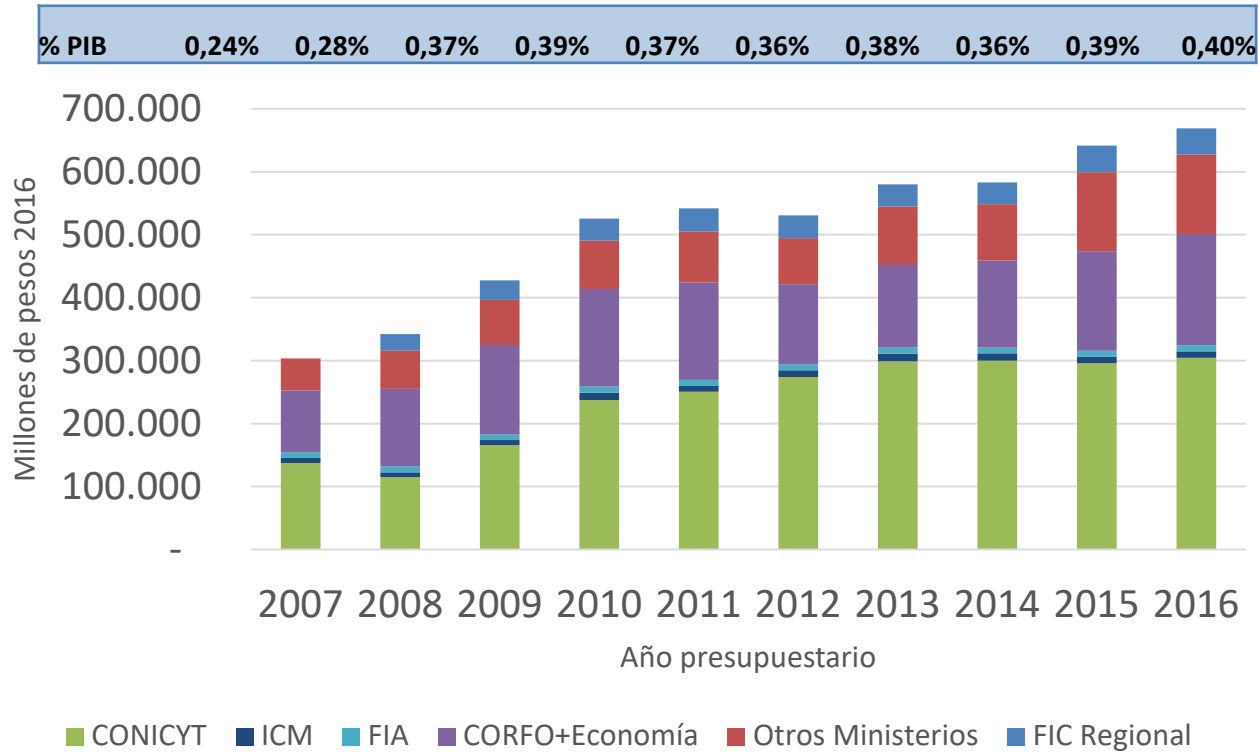
# R&D Private Funding and the Law on tax incentive to R&D



Source: División de Innovación, Ministerio de Economía, Fomento y Turismo



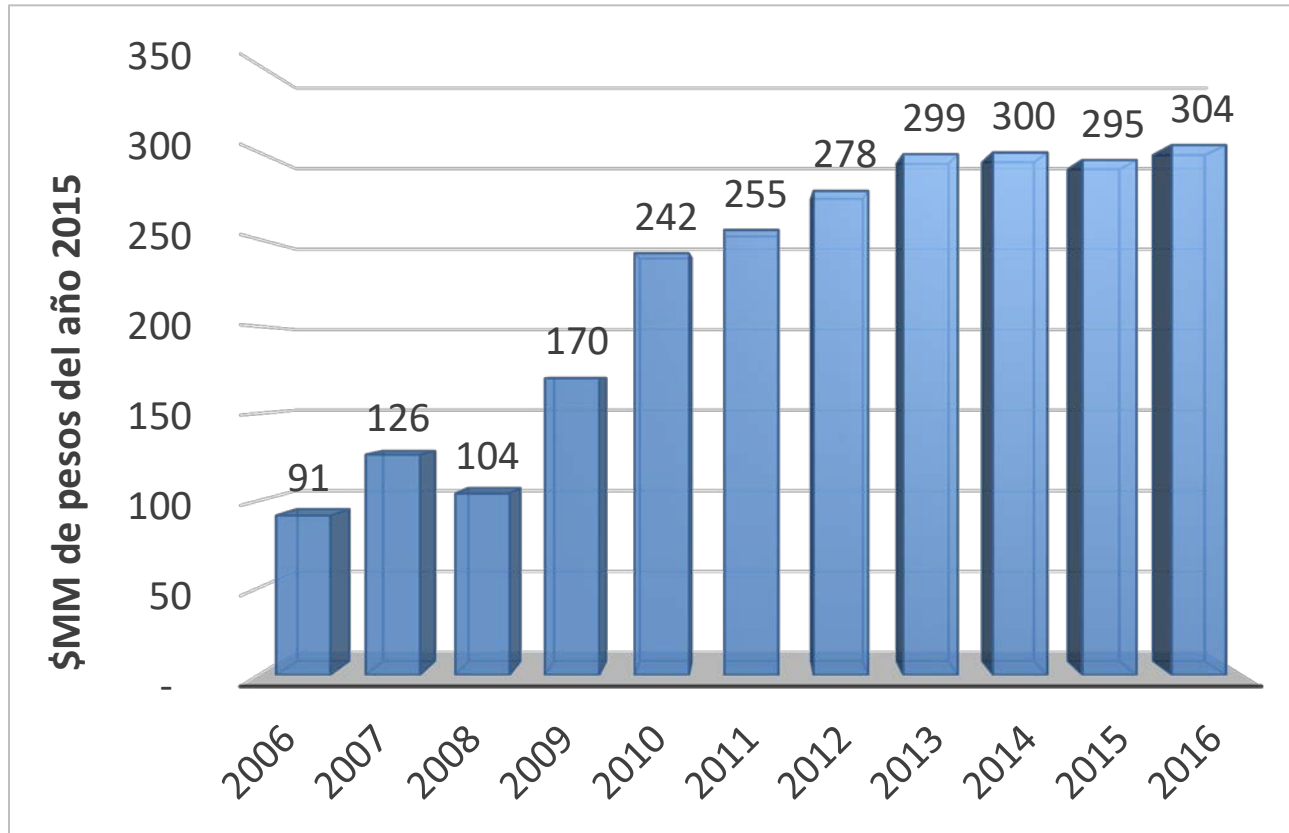
# Public Funding for STI (million of chilean pesos - 2016)



Fuente información de base: División de Innovación, Ministerio de Economía.



## CONICYT Budget 2006 – 2016 in CLP\$



Fuente: CONICYT – Unidad de Estudios

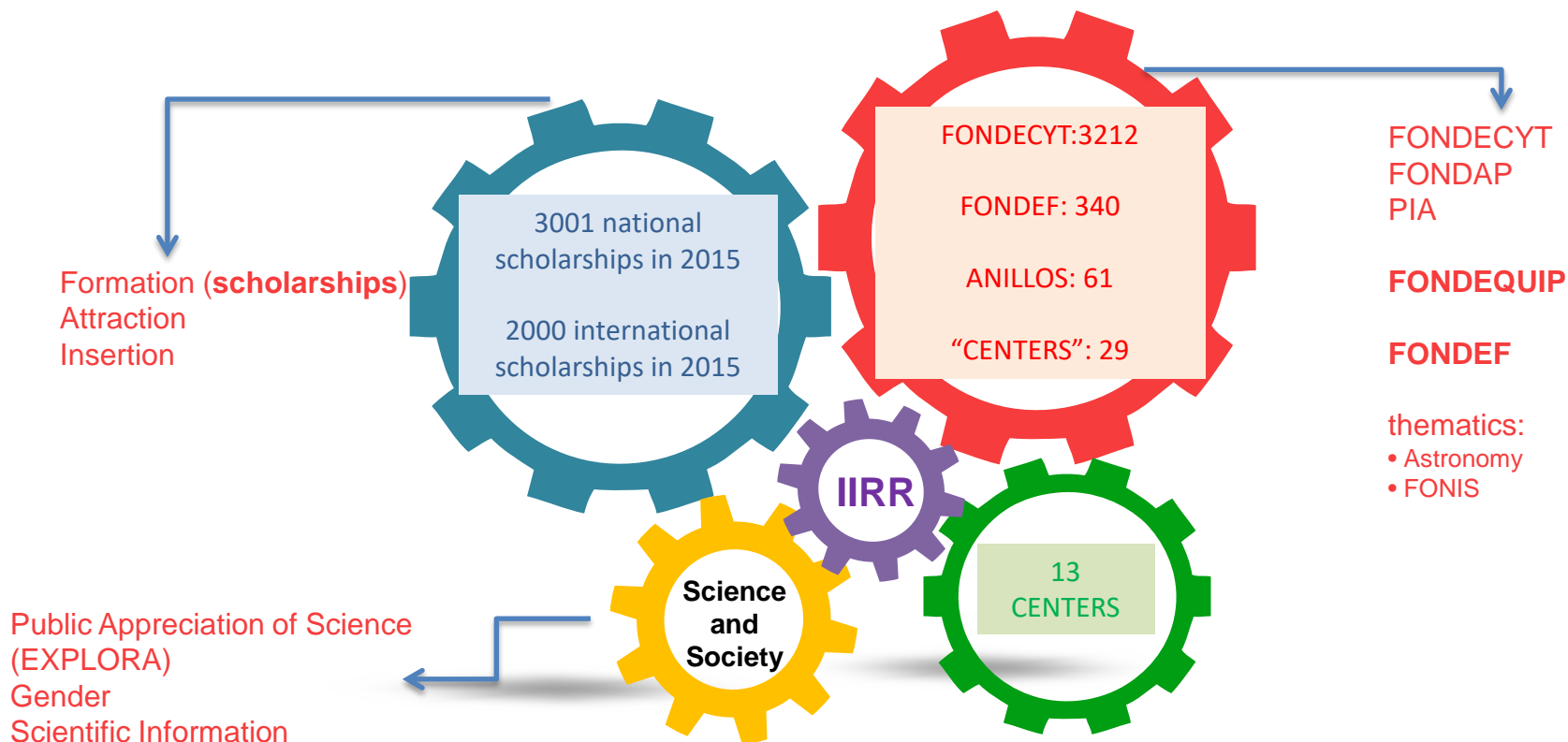
# CONICYT: Mission

“

*To advance the training of **human capital**, and to promote, develop, and disseminate **scientific and technological research**, in line with the National Innovation Strategy, with the aim to contribute to Chile's economic, social, and cultural development.*

”

# CONICYT Strategic Goals and Programs

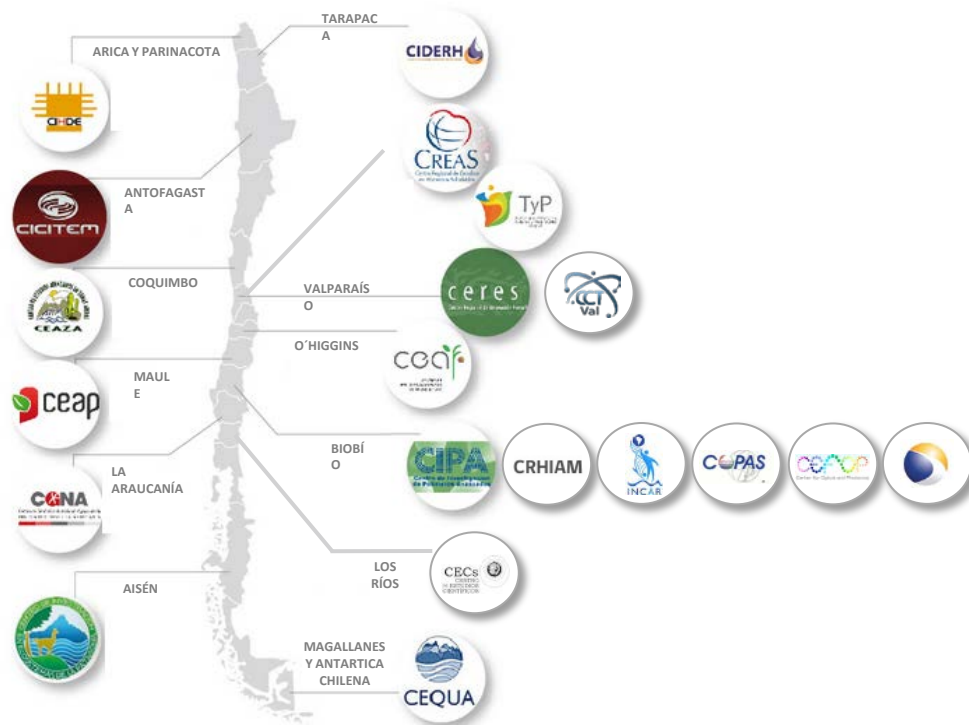


# Research Centers Of Excellence Funded By CONICYT

Metropolitan Region (22)

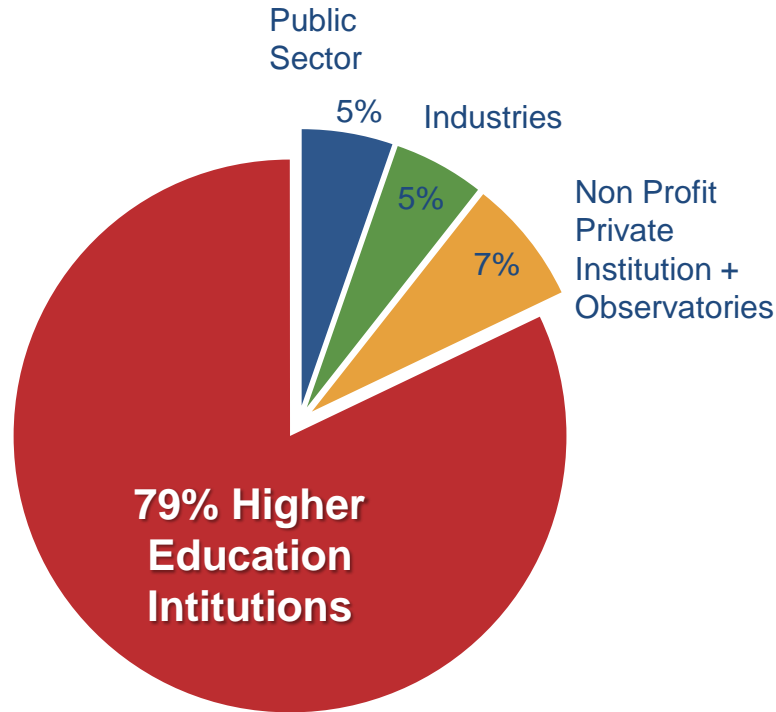


Other Regions (20)



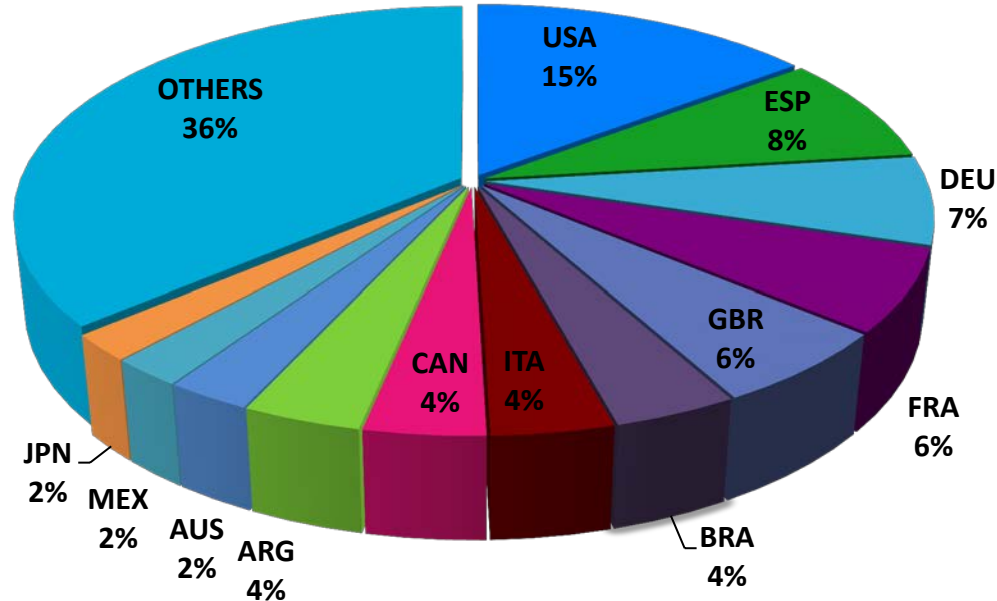
Nota: No se incluyen los 4 centros de servicios de equipamiento mayor de uso compartido  
Se establece como región su ubicación física a diciembre de 2015.

# ¿Where is Research conducted in Chile?



**79% of full time researchers holding a PhD work at universities**

# Countries Chilean researchers most cooperate with 2008 – 2012





+ *Challenges, opportunities and priorities.*

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## Challenges

- ✓ *Increase level of funding*
- ✓ *Employability of Ph.D*
- ✓ *Enhance scientific infrastructure/ capacity*
- ✓ *Regional development*
- ✓ *Improve science/society/ Industry relations*
- ✓ *Productivity growth*

## Opportunities

- ✓ *Natural laboratories*
- ✓ *Well-established centres of excellence*
- ✓ *Highly trained work force available*
- ✓ *Government commitment for building a stronger STI system*

## Priorities

- ✓ *Mining*
- ✓ *Global climate changes*
- ✓ *Megacities*
- ✓ *Agriculture*
- ✓ *Energy (Solar)*
  
- ✓ *Astronomy*
- ✓ *Antartic*
- ✓ *Seismology – Natural disasters*

Muito Obrigado!



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