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Why science, technology and international collaboration is important for the government of Chile

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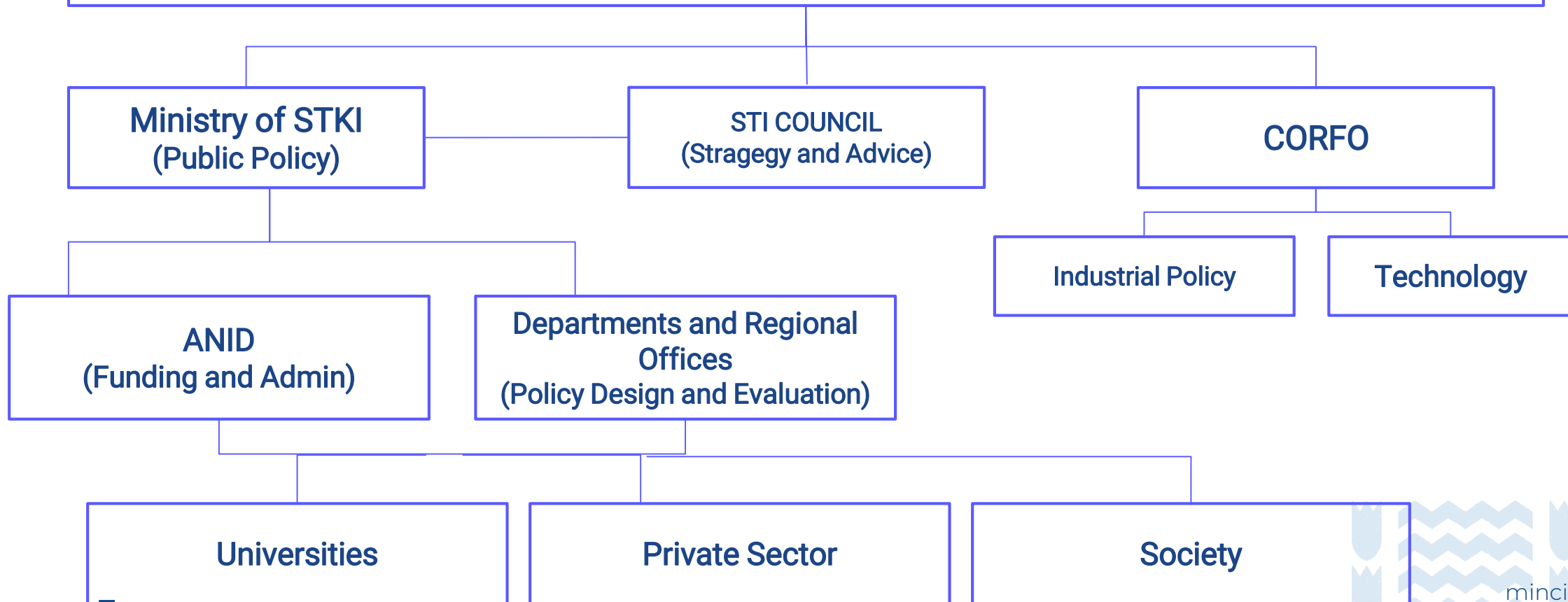
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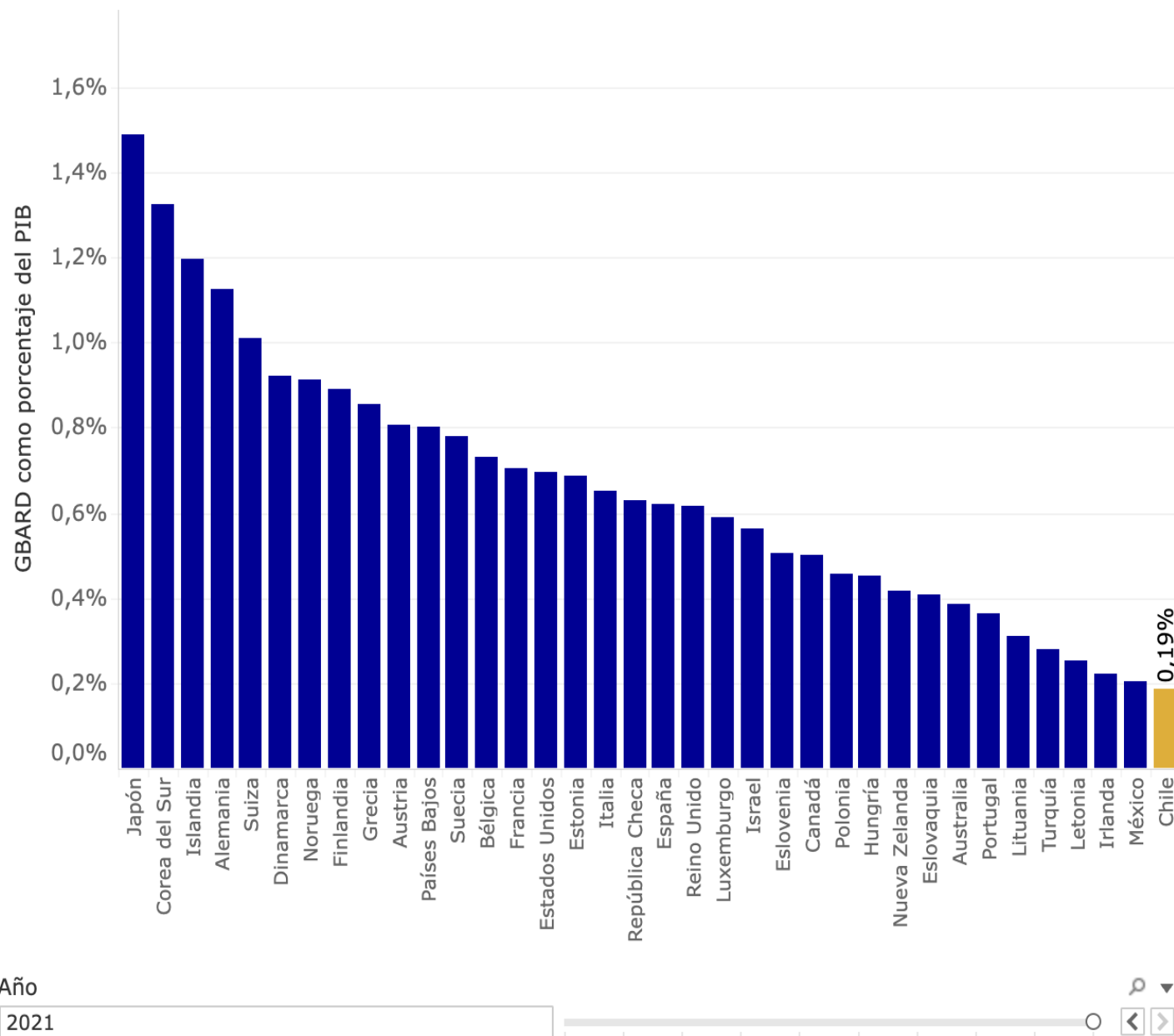
Chile's STI National System

A new Public Institutional

STI Main Public Institutions



Presupuesto público para I+D (GBARD) como porcentaje del PIB en países de la OCDE

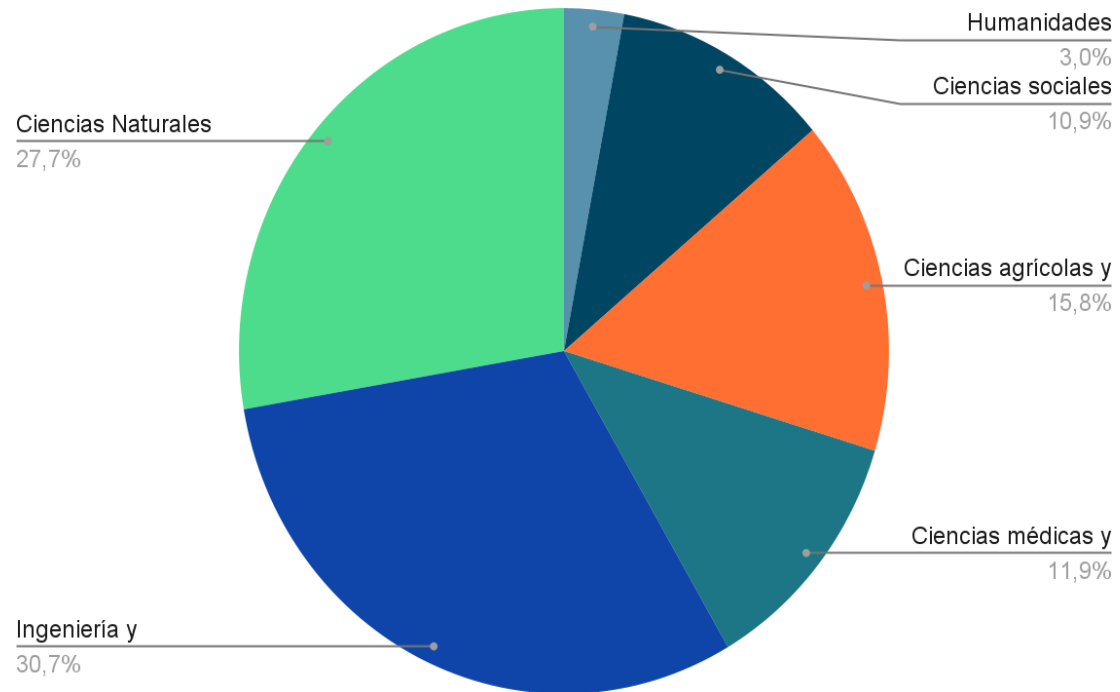


Overview

- 47° a nivel mundial y 4° a nivel regional en productividad académica (**Fuente:** Scimago 2023)
- Aumento exponencial del Capital Humano avanzado desde 2108: 18.352 investigadores a la fecha (**Fuente:** Observa 2023)
- Presencia constante de universidades en Rankings internacional (Mundial: Tramo 100-200 / Regional: Tramo 1-50) **Fuentes:** Nature Index 2023, Scimago 2023, QS 2023)
- Ventajas comparativas:
 - Institucionalidad reciente
 - Programas de becas
 - Laboratorios naturales
 - Internacionalización
 - Sistema CTI articulado a nivel académico

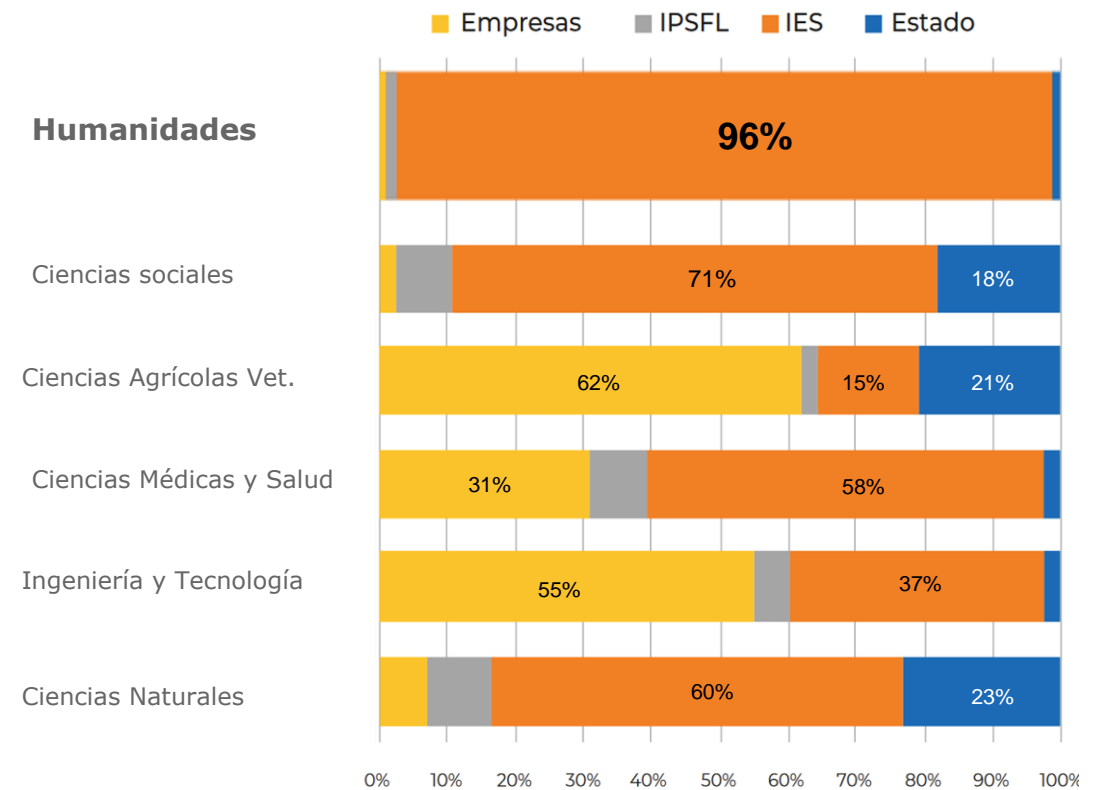
Public Investment in R&D: 0.19% GDP

Porcentaje del gasto total en I+D según el área del conocimiento en que se ejecuta (2018)



Fuente: Encuesta sobre gasto y personal en I+D (año de referencia 2018), plataforma Observa

Porcentaje de la I+D por área del conocimiento desagregada según el sector que la ejecuta (2018)



Fuente: Encuesta sobre gasto y personal en I+D (año de referencia 2018), plataforma Observa

A national Challenge: how to orient R&D capabilities?

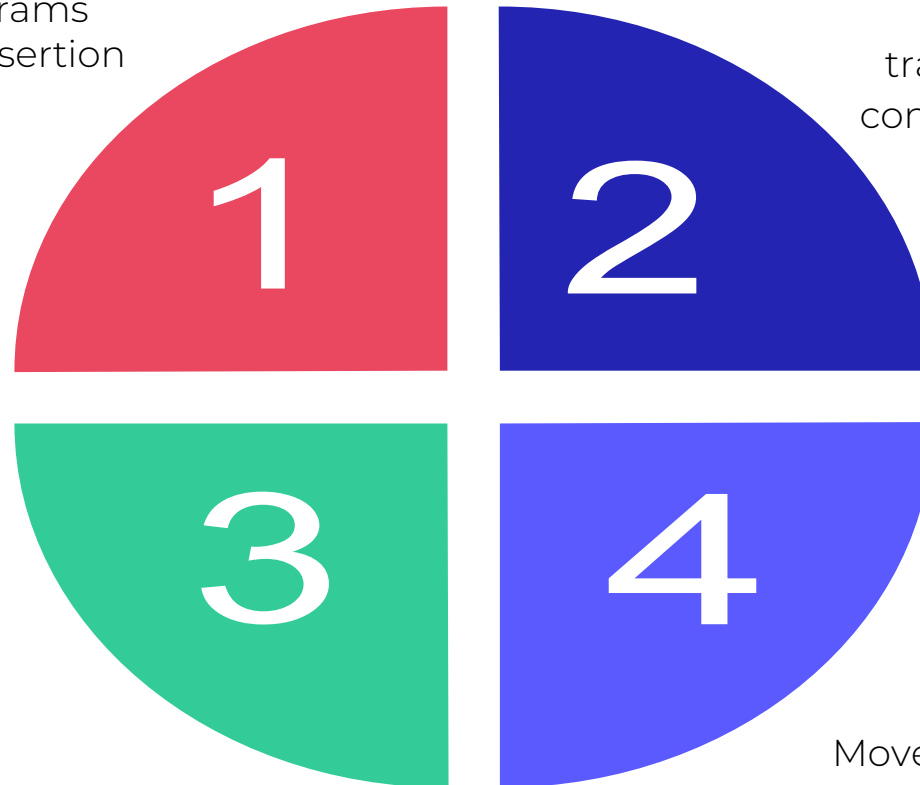
From R&D to Strategic Innovation

Investment in local capacities

Strengthen binational doctoral programs and policy instruments for labor reinsertion and scientific careers.

Build hybrid or boundary profiles

Encourage the development of transdisciplinary programs that generate connections between academia and other sectors.



New STI policy Models

Investing in social and technological innovation through state research institutions and public policies

Prioritize local challenges

Move forward step by step based on cross-cutting public issues and evidence-informed diagnostics.

From Research to Strategic Innovation

Conviviality and Sustainable Development as public problem

The "Institutos Tecnológicos y de Investigación Públicos (ITP)" are institutions that belong to the national CTCI system, they fulfill **roles of articulation** between expert knowledge and public needs, collaborating with different institutions to face public problems from the generation of technical inputs, technological services and capacities from R&D&I. (**Law 21.105, Art. 4, letter K**).



From Research to Strategic Innovation

Climate Change as a Public Problem

Provide advice to the Ministry of the Environment on the scientific aspects required, among others, for the elaboration, design, implementation and updating of the climate change management instruments established in the Framework Law on Climate Change.

COMITÉ CIENTÍFICO
ASESOR DE    
CAMBIO   
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1. Identify types of evidence
2. Develop methodologies for expert consultation
3. Define interface types (Committees, Reports, Policy briefs)
4. Develop protocols for use of evidence and best practices (Robustness, Transparency, Relevance)





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