

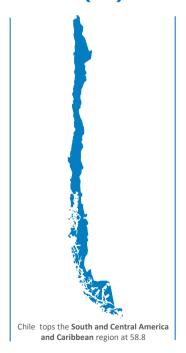
AGENDA

- **1** The rol of Corfo in Chile
- O2 CORFO's experience supporting Cleantech developments
- Opportunities to enhance incubators and accelerators to mitigate and adapt to climate change
- Key challenges that we face in enhancing such initiatives

The rol of Corfo in Chile

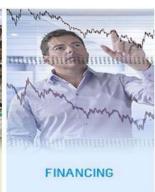
Corfo's mission is to improve the competitiveness and the productive diversification of the country by encouraging investment, innovation and entrepreneurship, strengthening in addition the human capital and technological capabilities to achieve a sustainable and territorially balanced development.

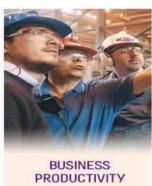
Global Entrepreneurship Index 2017 CHILE: 1° en LAC (24) and 18° global (132)













- Innovation grants
- R&D contract research grants
- R&D tax incentive
- Seed Capital
- Incubators
- Co-Works
- Start Up Chile
- Guarantees for financing SMEs
- PE & VC Funds
- Early Stage VC Funds programs
- SMEs programs
- Labor skills
- Smart Specialization
- Technology centres
- R&D Consortiums
- Tech transfer (TTOs and Hubs)

CHILEAN PRODUCTIVE DEVELOPMENT POLICIE

Neutral Policies for the promotion of self discovery

Broad policies without targeting, oriented to the promotion of innovation in companies and entrepreneurs of the of the whole economy, and evaluated on their own merits.

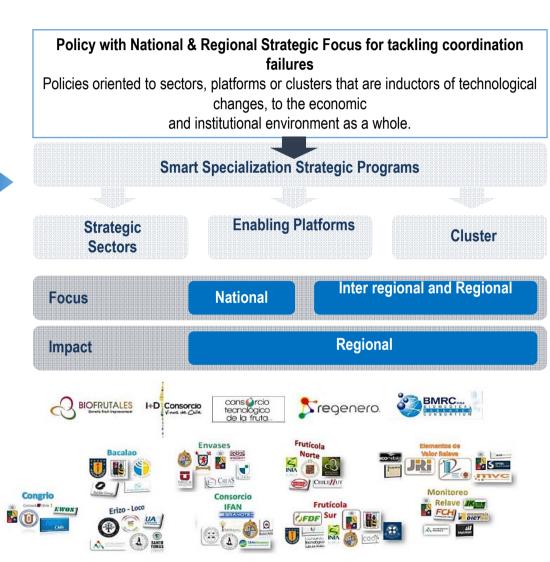
Business Innovation

Dynamic Entrepreneurship

More and better Financing

Chile has a complete "tool kit" to support dynamic enterprises, including:

- Incubators
- Accelerators
- Co-works
- Angel investors networks
- Mentoring networks
- Ventures Capital Funds



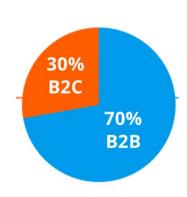
STARTUPS DEVELOPMENT IN KEY CLUSTERS

Stimulate the generation of new startups in strategic markets, through an accelerator and a market incumbent that help the newcomers in their process of problem/solution fit, starting with a challenge and ending with a MVP.



Support traditional industries (B2B)

Tech startups create **software and hardware** to support establishing industries and markets or to create new ones (push and pull).



CHALLENGES LAUNCHED:

- Smart cities
- Financial accesibility
- Native tourism
- Natural disasters
- Agrotechnology
- Food
- Mining
- Tourism in non-traditional sectors

Key challenges

- Scaling clean technologies needs incubators and accelerators with a specific focus on climate change technologies.
- Get where the markets need them most and identify the technology needs of those markets.
 - But how can we stimulate technological entrepreneurship in CleanTechs from relatively small local industries but with application in global markets?
- Provide the CleanTech Incubators with adequate tools for technology Watching.



















Thank you

www.corfo.cl

Fernando Hentzschel CORFO - CHILE.

INNOVATION STRATEGY: VISION 2025

Chile: leading supplier of lithium and low-emission copper for the electric car industry



World's leading lithium producer

World's largest low emission copper producer

Long term supply of lithium carbonate/hydroxide (battery grade)

Lithium added value products (cathodes, others)

Solar energy for continuos electricity supply (mix PV/CSP) at average cost of 50 USD/MWh

Fossil fuels sustitution
Hydrogen and Syntetic fuels
based on circular economy
approach

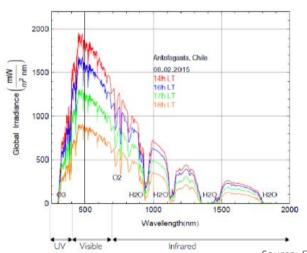


TECHNOLOGY CONSORTIUM

PV TECHNOLOGIES ADAPTED TO HIGH RADIATION IN DESERT CLIMATES

To adapt and/or develop solar photovoltaic power technologies that respond better to the unique conditions in desert and high-radiation regions in terms of their durability and expected performance that lowers the **levelized cost of energy to a target of US\$25/MWh by 2025** and placing special emphasis on the development and strengthening of local suppliers to create a sophisticated industrial sector of goods and services for the local and international market.

Corfo co-finance: USD 12 millon (up to 50%)



	Condiciones estándar (STC)	Desierto de Atacama
AM (air mass)	1.5	1.17
Irradiancia	1000 W/mt2	> 1100 W/mt2
Radiación UV		35 - 65 % UV-B más que en Europa
Temperatura de la celda	25 °C	> 60°C
Módulo tipo	250 Wp	± 30% (200 – 300 Wp)

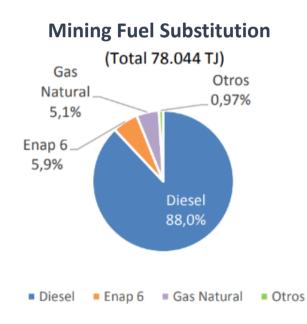


Source: Estudio Caracterización del Espectro Solar – Programa Solar

HYDROGEN OPPORTUNITIES

By 2025, cost of H2 produced using solar PV (LCOE 25 USD/MWh, 33% plant factor) might be competitive compared to diesel

Range: 2,2 - 2,6 USD/kgH₂







2 million m3 Diesel/ year 50% Hydrogen substitution 50,000 Nm3H2/h

- 900MW PV
- 25 Large H₂ electrolysis plants
 (750 MMUSD)

PUMP STORAGE – SEAWATER AND SOLAR PV

CAP: 300 MW

INVESTMENT: USD 500 Million

LCOE: 45 USD/MWh







300 MW pump hydro plant that operates with seawater

600 MW-AC photovoltaic solar plant with single-axis tracking in order to follow the sun from east to west.

