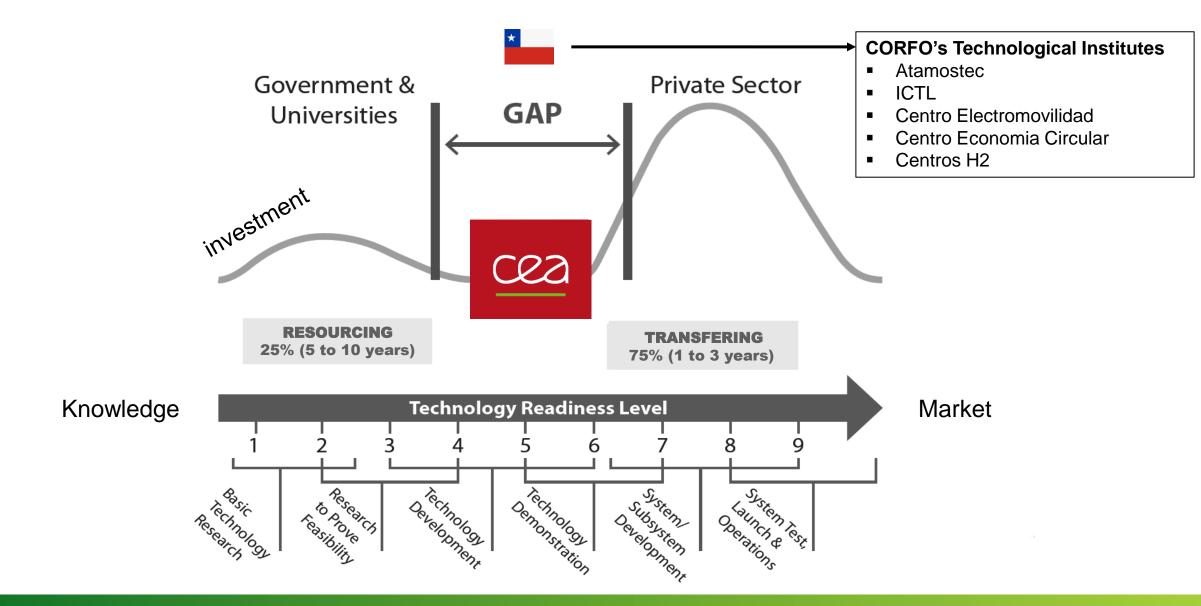


# **CEA-LITEN:** the French Institute for Energy Transition

R&D partnerships to strengthen the hydrogen industry both in Chile and France



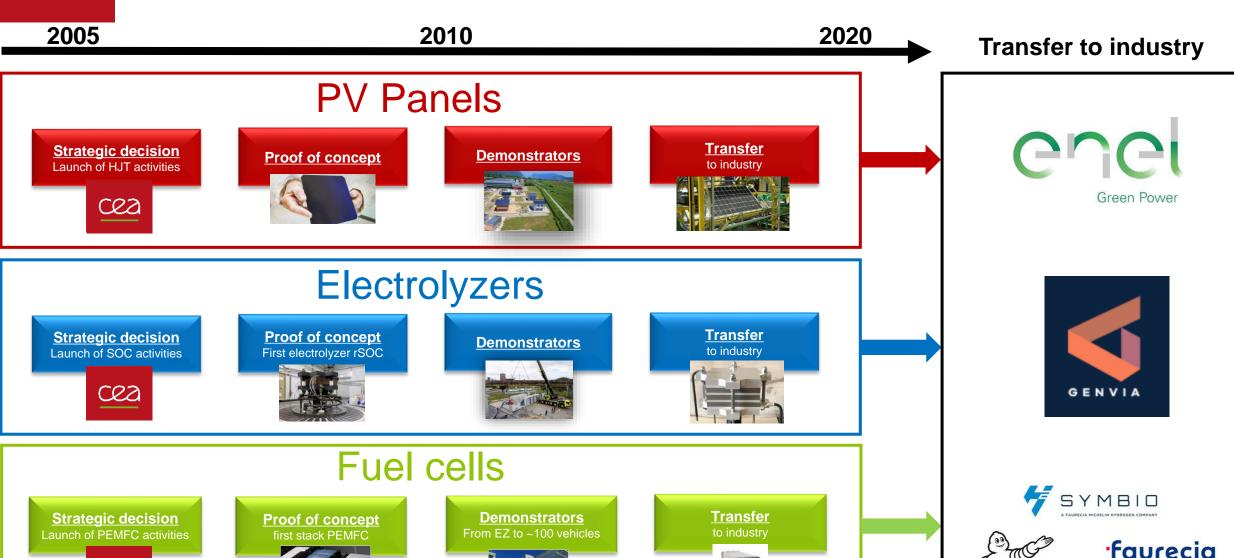
### FROM RESEARCH TO INDUSTRY: MIND THE GAP!





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## FROM RESEARCH TO INDUSTRY: SUCCESSFUL TECHNOLOGY TRANSFERS



inspiring mobility



## PROJECTS IN CHILE: ATAMOSTEC, THE CHILEAN INSTITUTE FOR DESERT PV

Tests platform Lalcktur (1 MWp)

**Objective**: LCOE < 15 USD/MWh in Atacama Desert conditions

#### **CEA-Liten contribution in ATAMOSTEC:**

- Founding member
- Design of PV panels adapted to Atacama desert
- Qualification for PV panels → Desert Label
- Modeling and data analysis
- Competitiveness analysis
- Training, IP Transfer to Chile
- Brought one of its industrial partners to the project (Enel)

Outdoor lab - PSDA (Plataforma Solar del Desierto de Atacama)





# **ICTL: THE CHILEAN INSTITUTE FOR CLEAN TECHNOLOGIES**

- Also financed by CORFO, also located in Atacama Desert, ICTL will be created at the end of 2021
- Budget of 193 million USD to build the institute in 10 years

# ICTL will focus mainly on:

| Solar Energy  | Green Mining   |
|---|--|
| Solar Electricity, <b>Solar Fuels</b> ,<br>Solar Heat | Sustainability in the extraction and processing of minerals; |
|   | 113  |



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## FROM RESEARCH TO INDUSTRY: EXAMPLE OF SUCCESSFUL TRANSFERS

2005 2010 2020 **Transfer to industry** PV modules **Transfer Strategic decision Demonstrators Proof of concept** to industry Launch of HJT activities cea Electrolyzers **Proof of concept Transfer Strategic decision Demonstrators** Launch of SOC activities First electrolyzer rSOC to industry cea GENVIA Fuel cells SYMBIO **Transfer Strategic decision Demonstrators Proof of concept** From EZ to ~100 vehicles to industry Launch of PEMFC activities first stack PEMFC faurecia

inspiring mobility



Gracias y bienvenidos a visitar nuestras instalaciones en los Alpes franceses!