



# CHILE AS AN ASTRONOMICAL PLATFORM; A CHALLENGE FOR DIPLOMACY

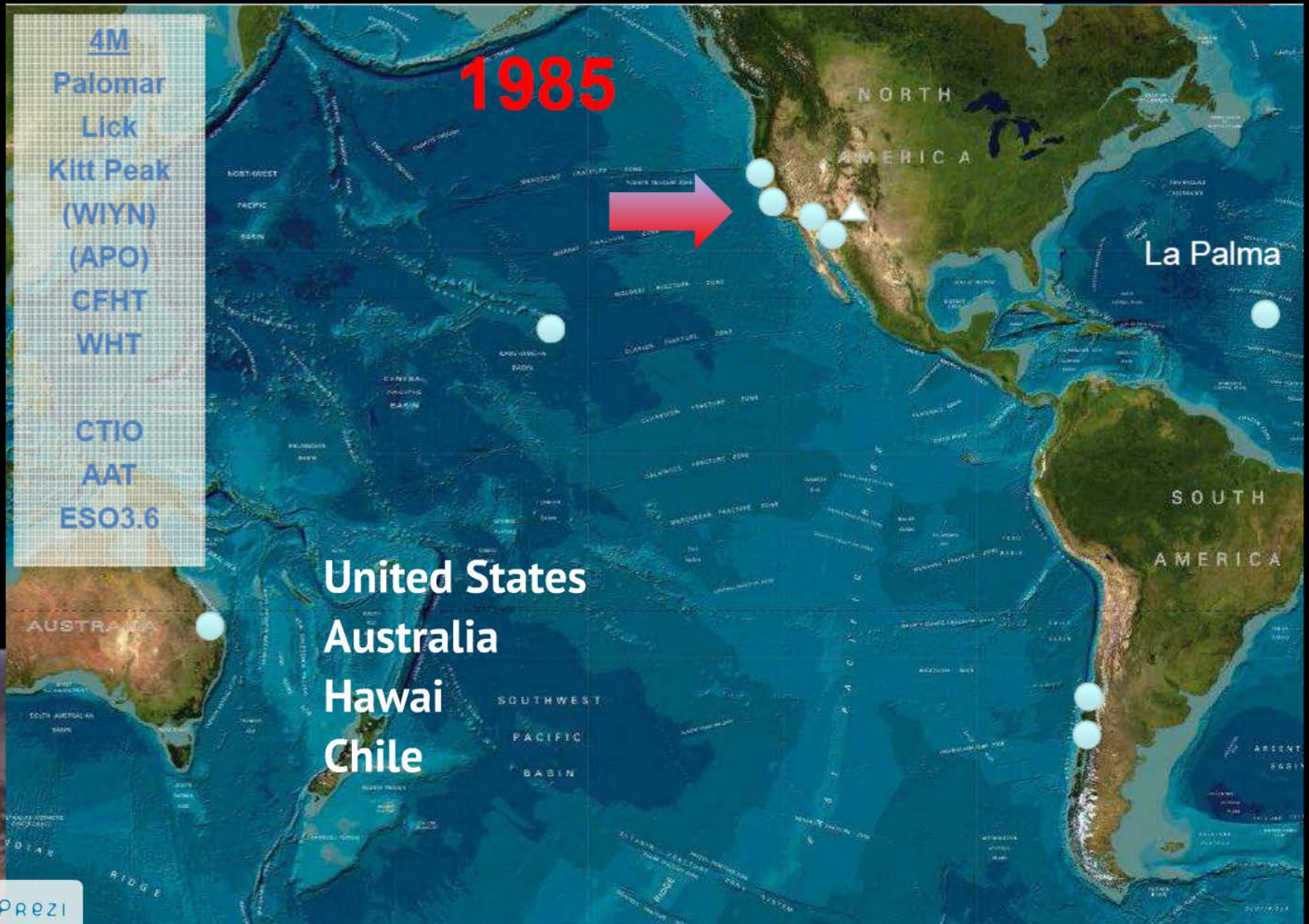


**Gabriel Rodríguez**

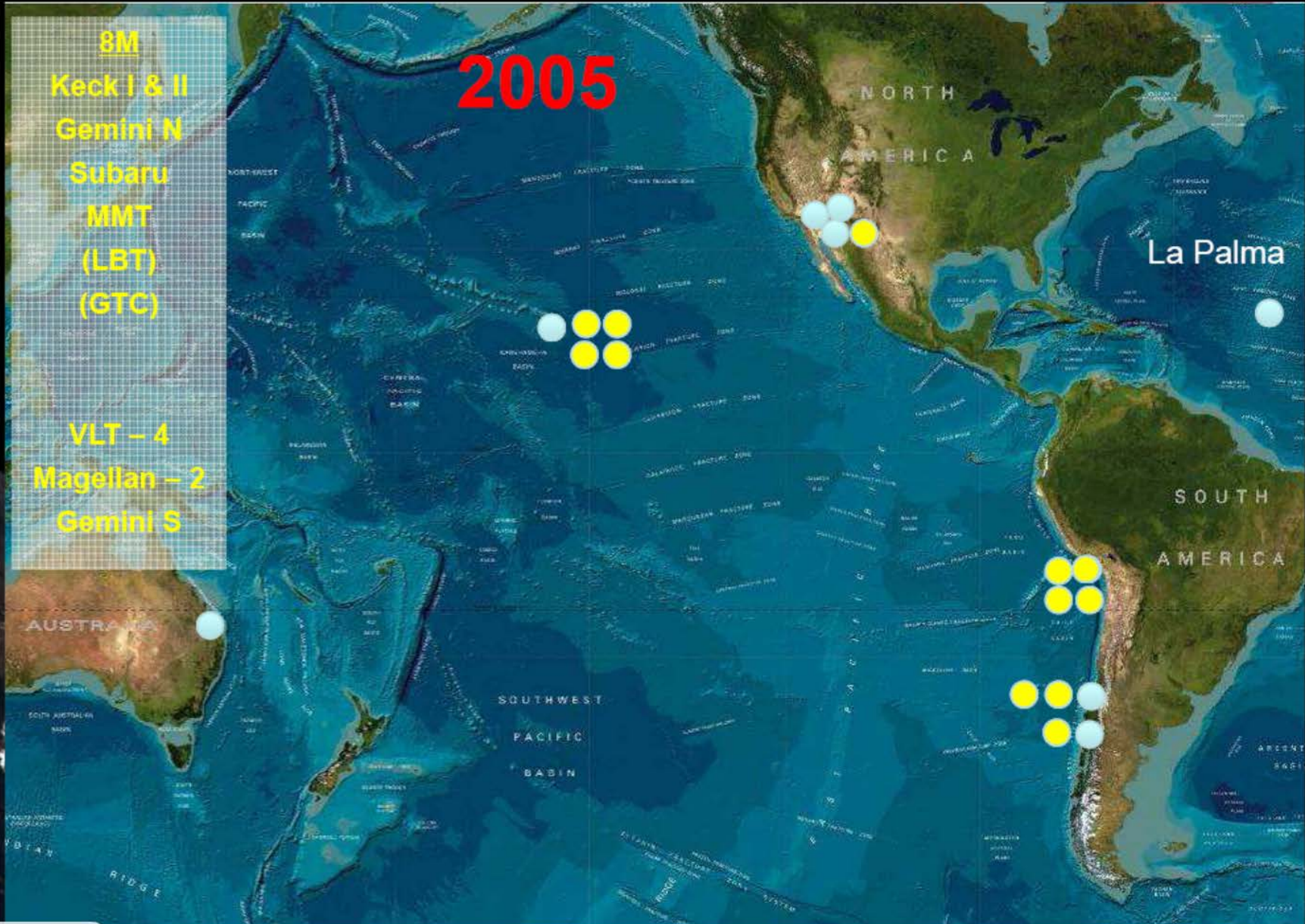
**Director of Energy, Science & Technoloy and Innovation  
(DECYTI)**

**Ministry of Foreign Affairs**

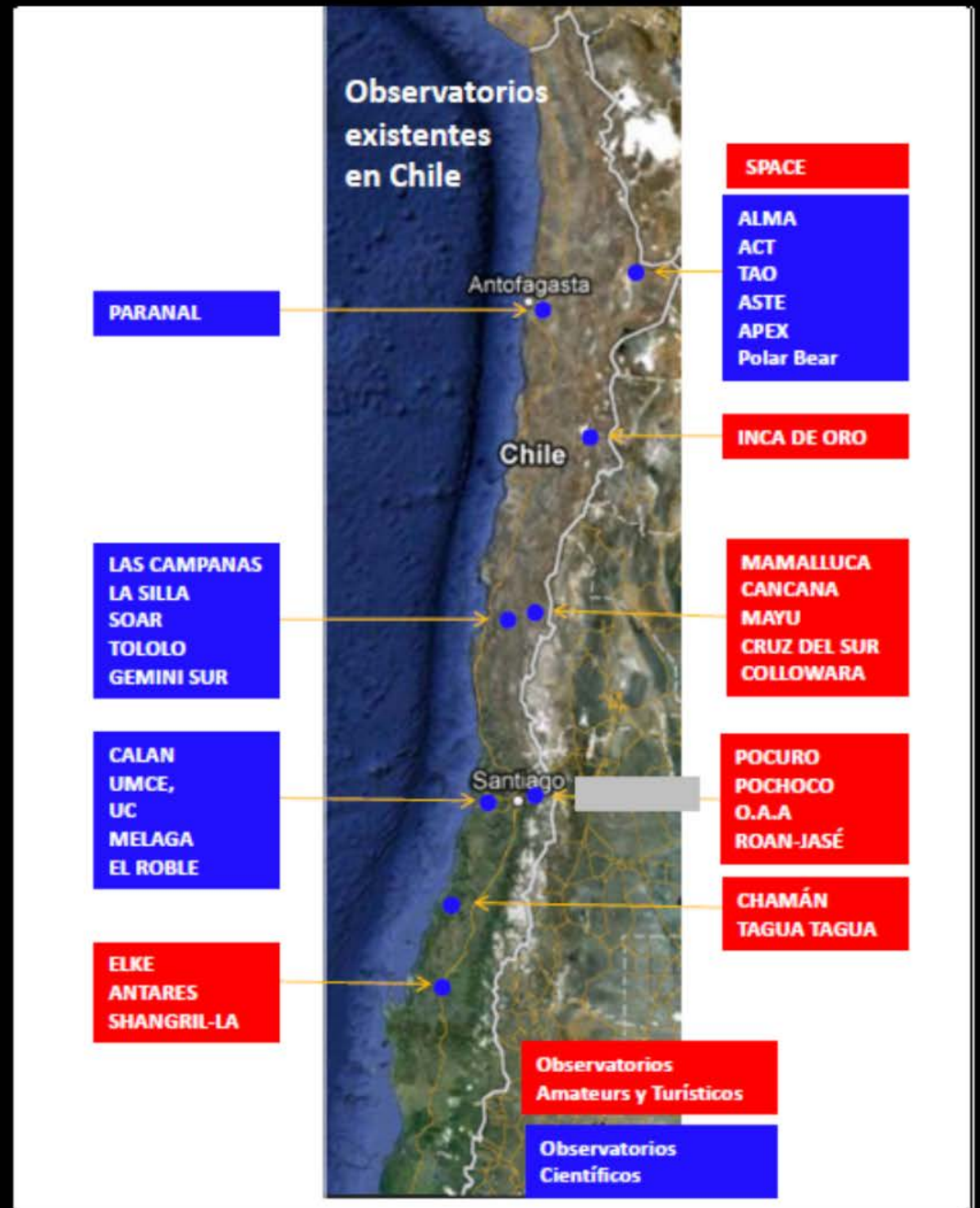
# State of astronomy in the region in 1985



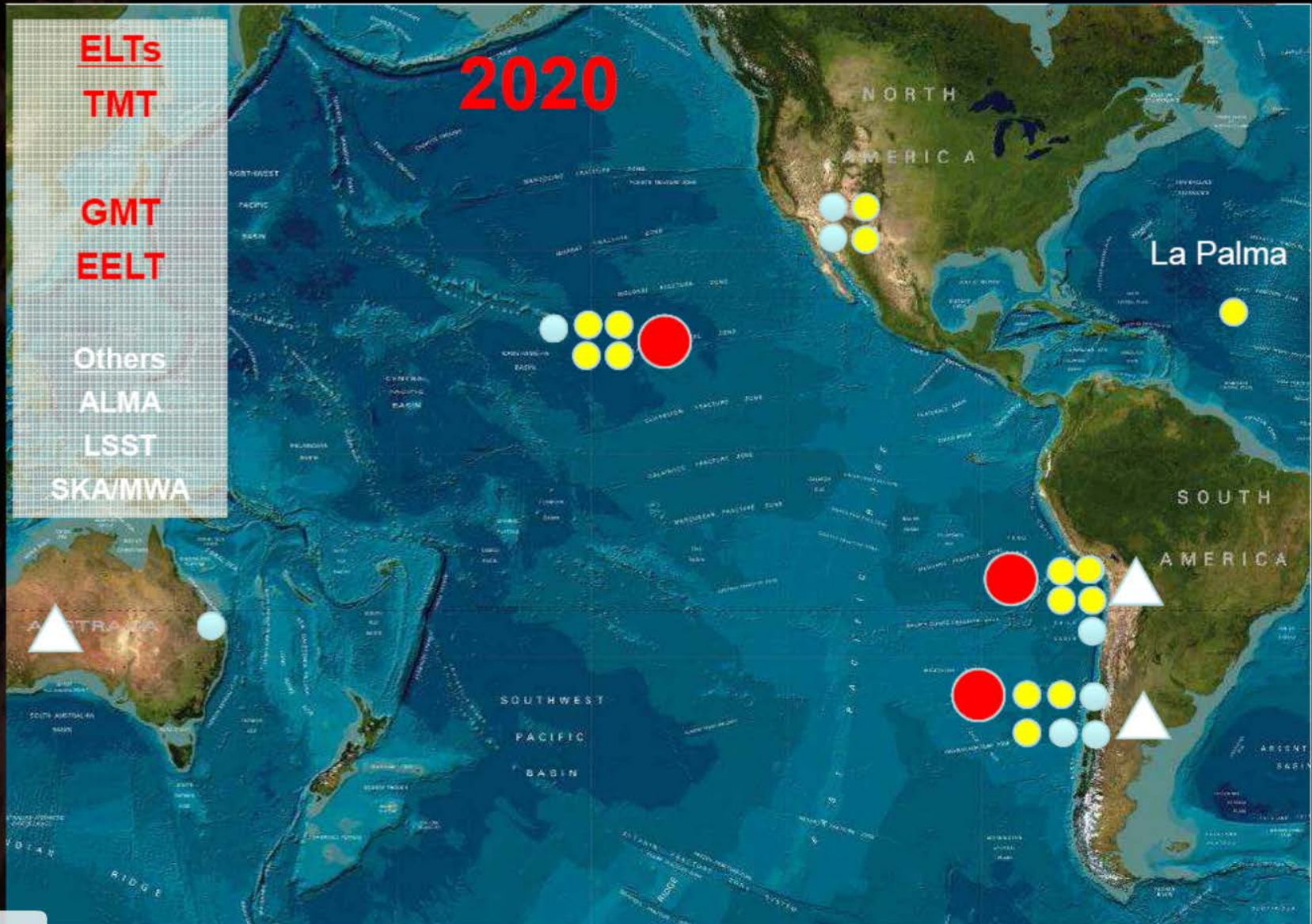
# 8 years ago...



# Today



In 7 years Chile will have 70% of all the telescopes installed around the world.



- To make astronomical observations from the Southern Hemisphere.
- Clean skies (atmospheric transparency, importance of diminishing light pollution).
- Height, dry environment.
- Clear rules for astronomical centers.
- Promotion of the development of astronomical science.
- High quality of technological services and human capital resources.

# ¿Why in Chile?



# Future Telescopes to be installed in Chile



Llano Chajnantor:  
66x 12m ALMA

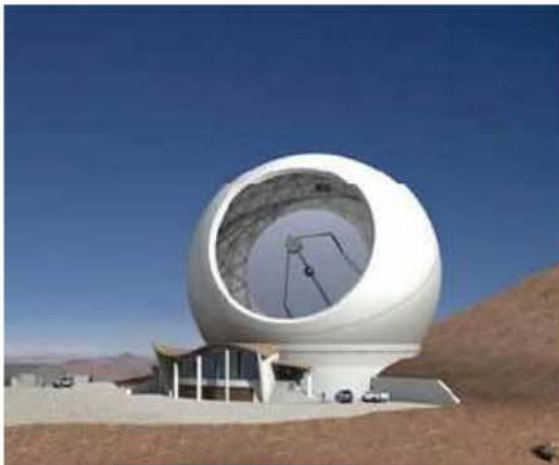


Cerro Chajnantor:  
6.5m TAO



Cerro Pachón:  
8m LSST

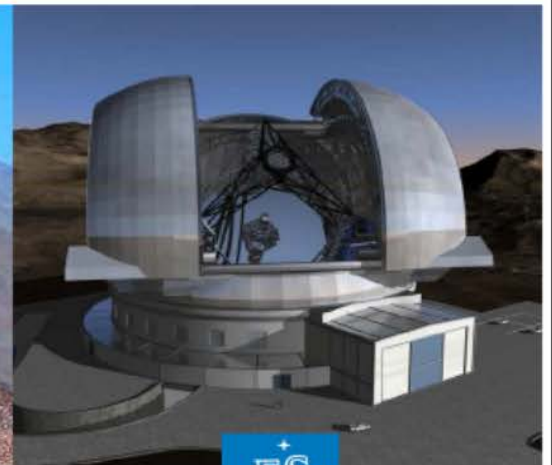
# Future Telescopes to be installed in Chile



Cerro Chajnantor:  
25m CCAT



Cerro Las Campanas:  
25m GMT



Cerro Armazones:  
42m E-ELT



# The 4 Pillars

## 1. ASTRONOMICAL SCIENCE

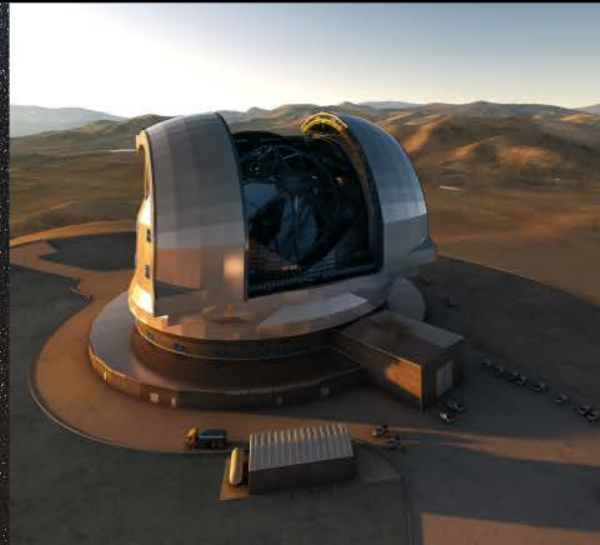
- Cooperation with universities of prestige and academic excellence worldwide (USA, Japón, UE, etc).
- Development of advanced human capital in sciences related to astronomy: mechanical engineering, electrical engineering, optical engineering, and technical applications.
- Scientific funds for the development of astronomy (GEMINI, ESO, ALMA)
- Increase the number of astronomers from chilean universities.
- Strengthen doctoral programs in astronomy in chilean universities. Internationalization of these programs.



**MAIN ACTION: Chilean candidacy to host the General Assembly of the IAU.**

## 2. DEVELOPMENT OF ASTROENGINEERING

- Promote a national development of technology.
- Increase the participation of companies, investigation centers, and of institutions related with the creation, operation and maintenance of telescopes.
- Creation of the International Liasson Officer (ILO), Ministry of Economy.
- Promote the participation of chilean industry.
- **MAIN ACTION: Second Workshop on Astroengineering**



### 3. COUNTRY IMAGE AND TOURISM

- Reinforce a strategic axis of our country image based on astronomy.
- Create an infrastructure that articulates an important touristic offer based on astronomy.
- Keep and improve the protection of observation sites.
- **MAIN ACTION: Preservation of dark skies**



## 4. EDUCATION FOR SCIENCE AND CULTURE

- Promote astronomy as a vehicle for students to approach science.
- Foster astronomical science through its inclusion in academic programs in Chilean schools.
- Creation of an Astronomical Network for Citizens.
- Bring astronomy closer to citizens.
- **MAIN ACTION: Astronomical Network for Citizens**

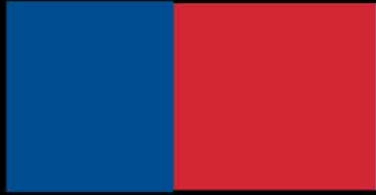


# DECYTI

## Diplomacy supports the leap towards development

- ✓ Natural Laboratories (Sismology, Polar Science, Astronomy, Vulcanology and Oceanography).
- ✓ Development of Advanced Human Capital
- ✓ Strategic Plans: Chile-California and Chile-Massachusetts
- ✓ Energy





# Thank you

