

Ministerio de Ciencia, Tecnología, Conocimiento e Innovación



Ciencia, Tecnología,

Gobierno de Chile



Major Roberto Silva Espinoza Chilean Air Force





Chilean National Space Program



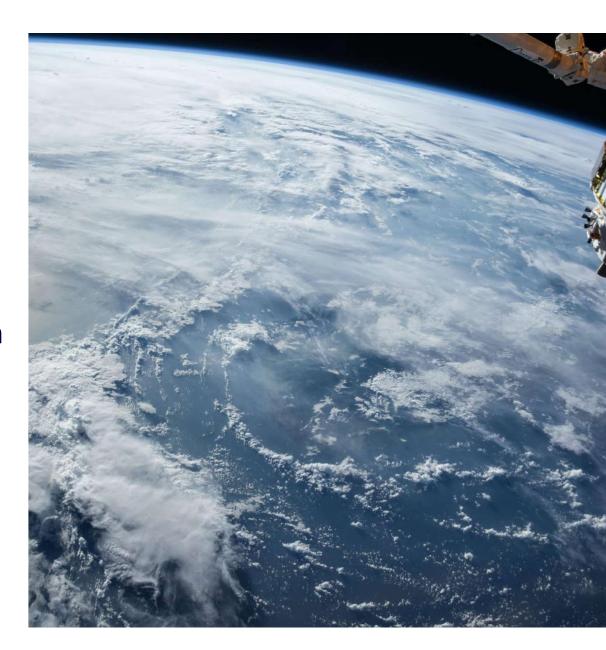
Gobierno de Chile



Major Roberto Silva Espinoza Chilean Air Force

TOPICS

- 1. Institutionality towards Chilean Space development
- 2. Chilean Space Program for Science and society





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Space Development Strategy



Civil Society

Academy

Government

Economy

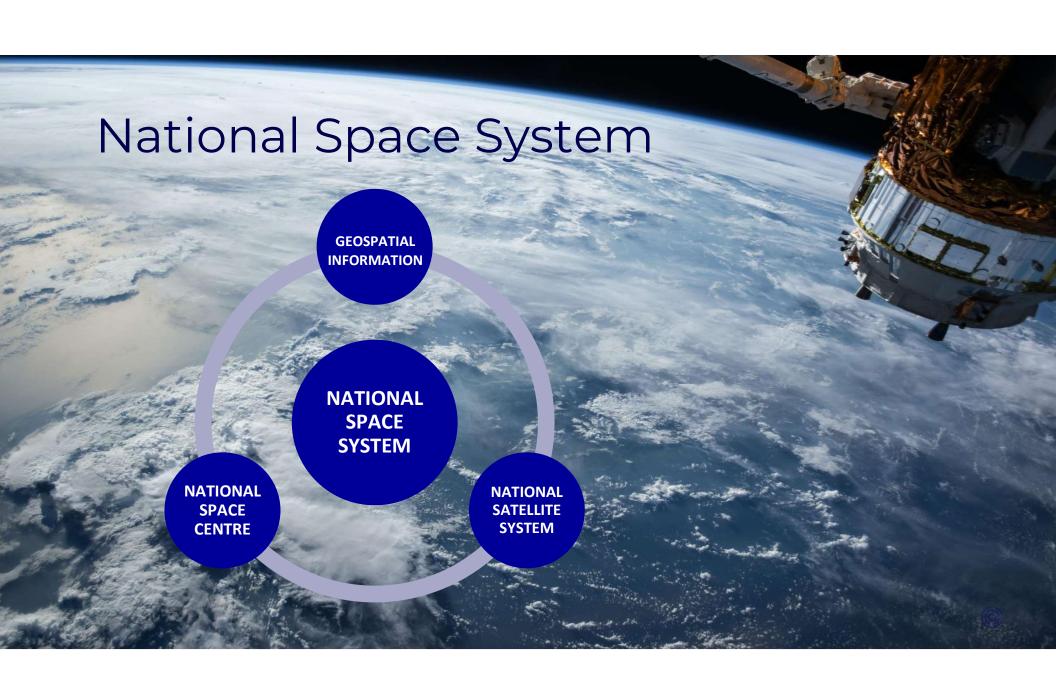
Defense

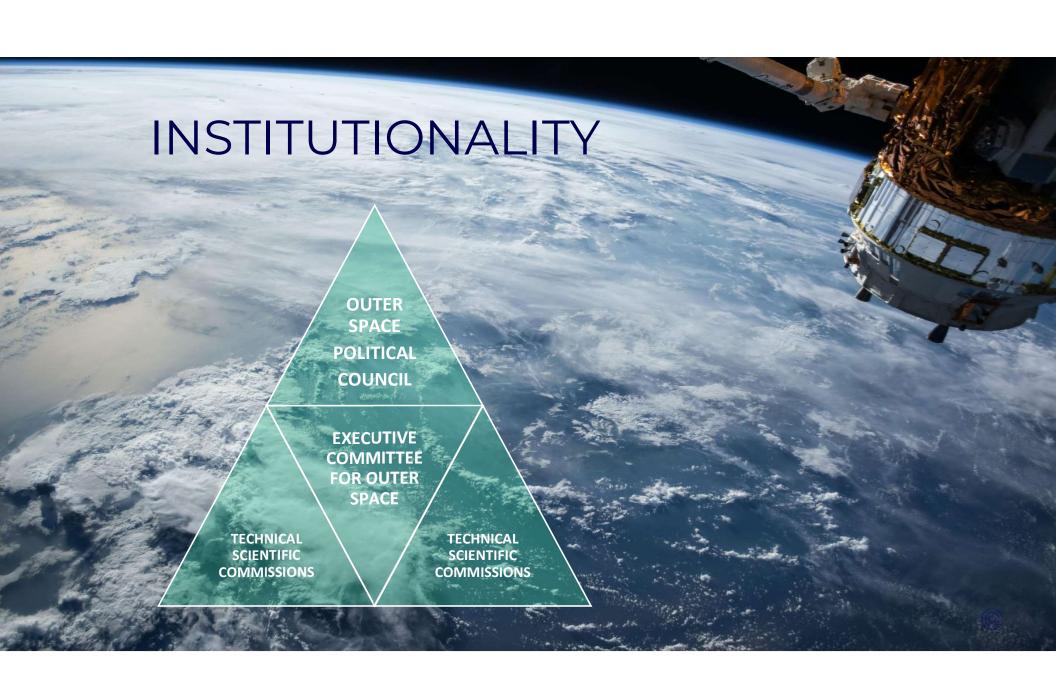
Stakeholders

Policy

Planning & Collaboration

Technical Facility & Data Science



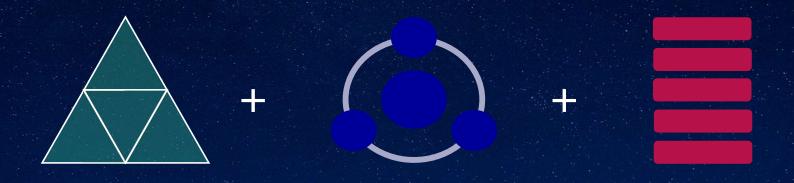




Space Development Strategy



Chilean Space Program for Science and Society





SNSat Project



Geoportal

- Geospatial Information Management Portal
- Data Center

Local development, microsatellites y laboratory AIT

- Microsatellite
- Equipment and software for the AIT Laboratory

Satélites para la Observación de la tierra

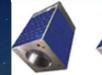
- FASAT D, FASAT E1 y FASAT E2
- 03 Ground Station Santiago, Punta Arenas y Antofagasta.













SATCOM



- National Space Centre (Cerrillos)
- Austral Ground Station (Punta Arenas)
- Transportable Ground Station (Antofagasta)



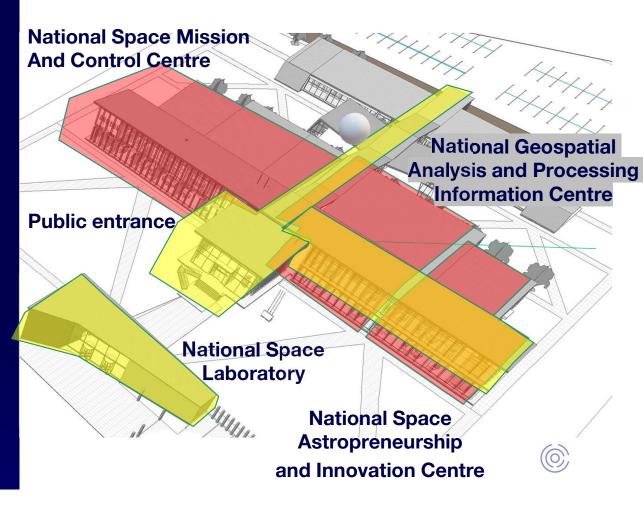






SATELLITE GROUND STATIONS NETWORK AND NATIONAL SPACE CENTRE







ACADEMIC TRAINING



Training modules for Subsystems

For Academy and engineering talent generation in Geospatial Information, Local Development, Satellites Theory and Satellite Communications.





Human talent development

- Space education program for schools.
- Basic training developed by local teaching.





ASSEMBLY, INTEGRATION AND TESTING FACILITIES



PERMANENTS WORK GROUPS









Micro and Minisatellites

7 Microsatellite 12U 1 Minisatellite 100 Kg

Payloads

- 1. Multispectral / Hyperspectral camera
- 2. Space Situational Awareness
- 3. GPS-RO
- 4. Automatic Identification System (AIS)
- Automatic Dependent Surveillance Broadcast (ADS-B)
- 6. Store and Forward (S&F)
- 7. Inter Satellite Link (ISL)
- 8. Internet of Things (IOT)

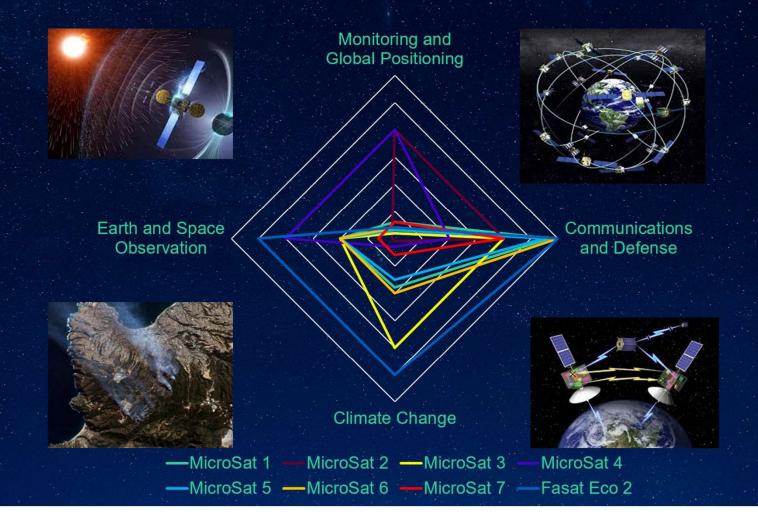


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CHILEAN SPACE MISSIONS



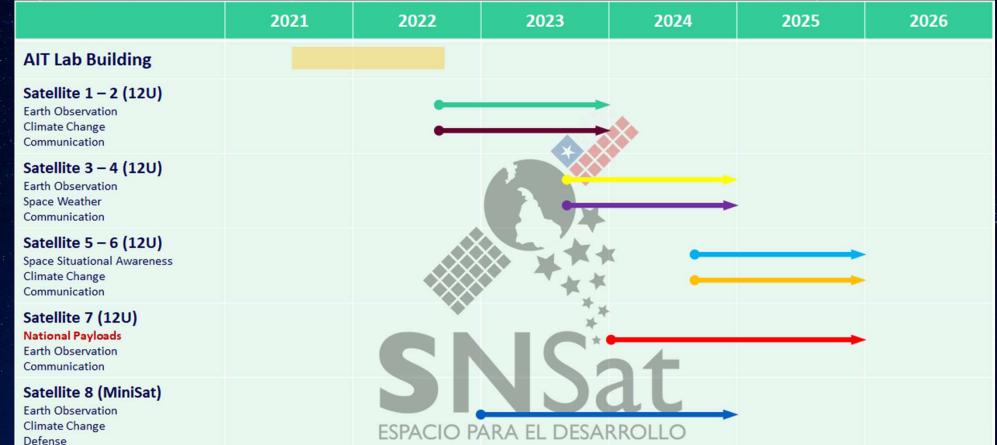




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CHILEAN SPACE MISSION PROGRAM

TIMELINE FOR AIT PROCESS





Mission Exploitation and Open Data Sharing

Geospatial data for multiple uses

Open data sharing policy

New space and digital economy

Scientific evidence for decision making

Government Policy





Innovation



Earth Observing*



Social Security







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