"Space Law for New Space Actors" Chilean collaboration



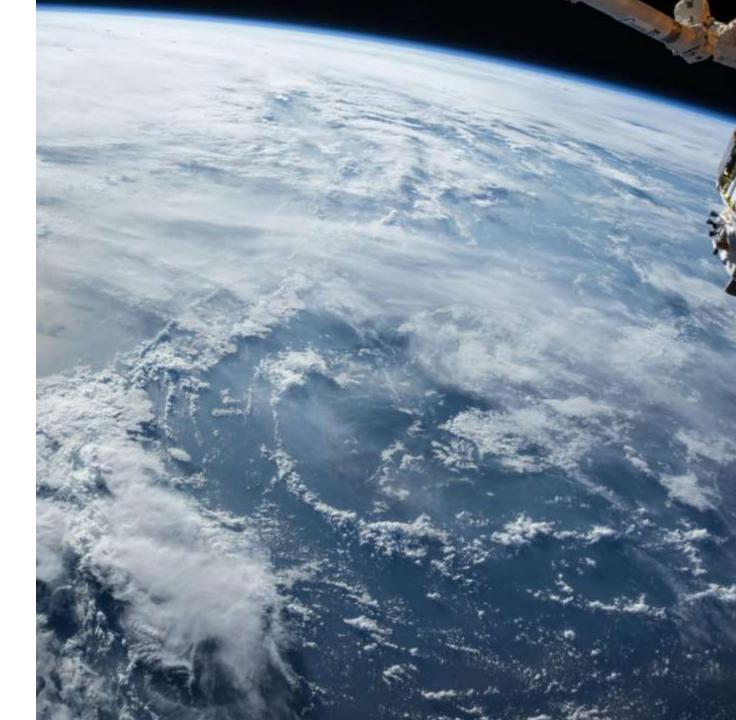
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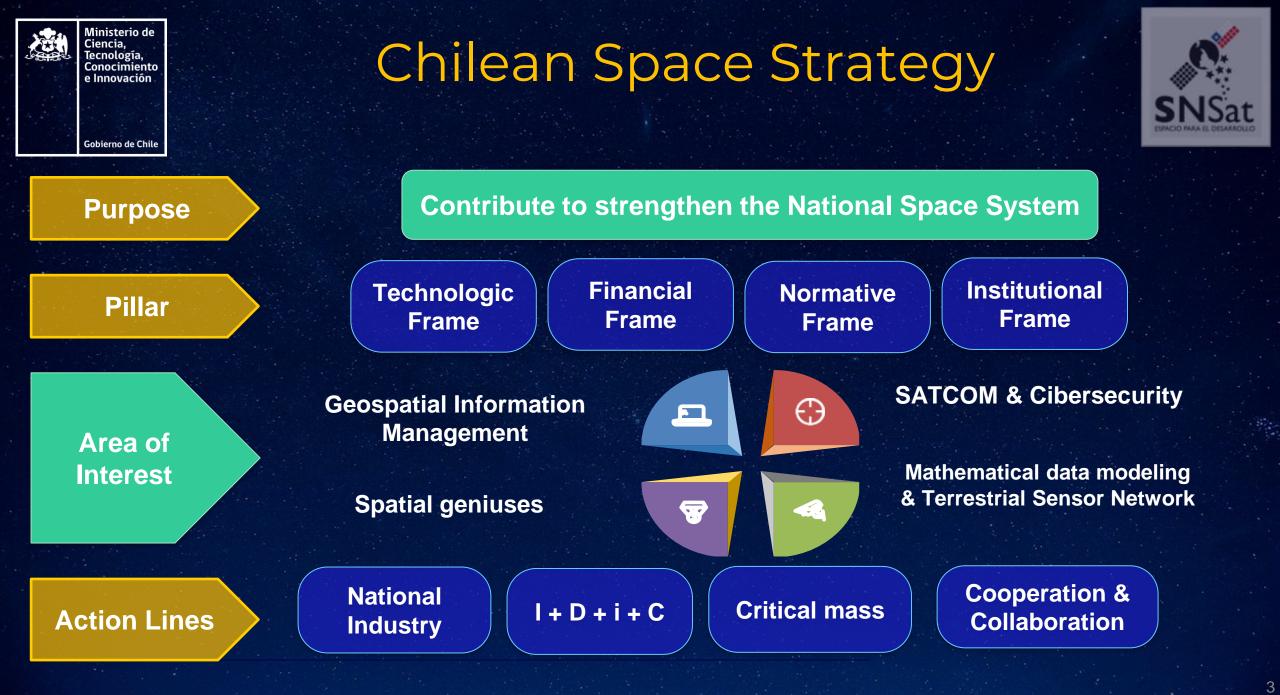


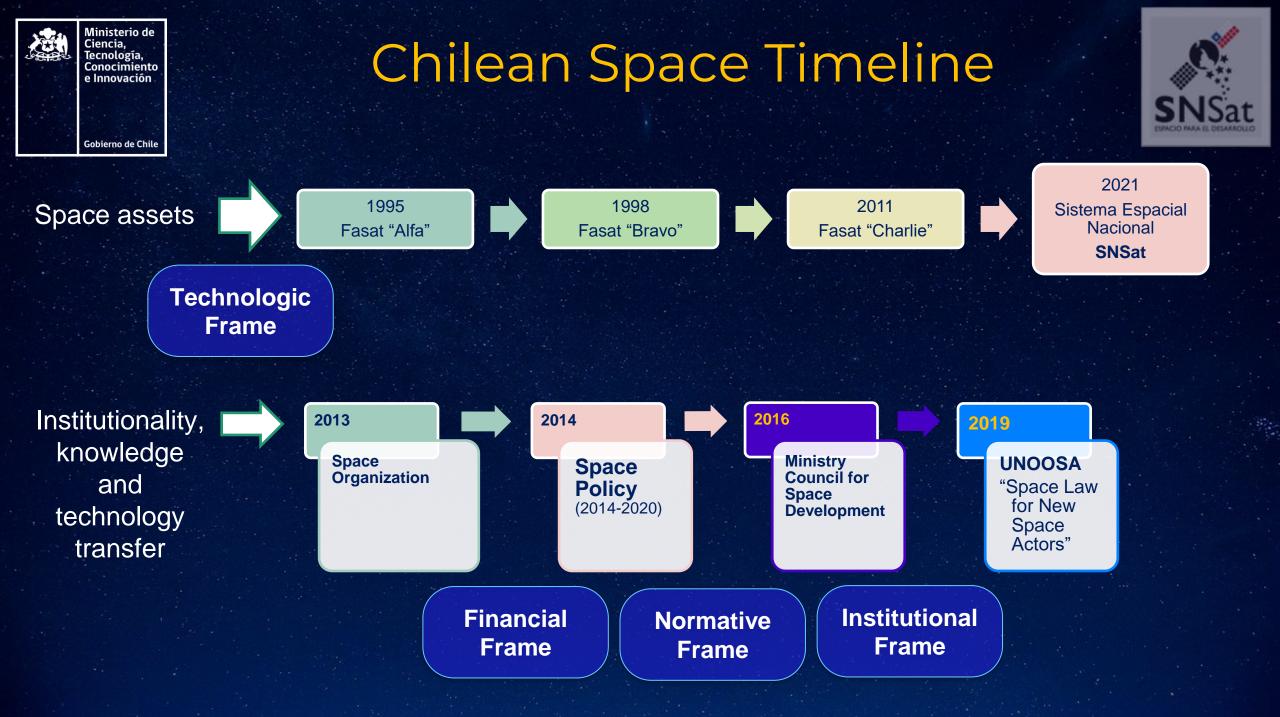
Major Roberto Silva Espinoza Chilean Air Force

TOPICS

- 1. UNOOSA context
- 2. Chilean National Space System
- 3. Space Collaboration Activities









Space Law for New Space Actors



October 2020 Stage 1, 4 days on-line seminar, 80 participants April – 2022 On-site technical advisory "FIDAE space summit"

October 2021 Stage 2, on-line seminar



2023

Permanent Space Summit for Regional collaboration

Institutionality

Outer Space Political Council

Executive Committee For Outer Space

Technical Scientific Commissions Technical Scientific Commissions

Governmental Organizations

Universities and technical collaboration

National Space System

Institutionallity

National Space System

National Space Center National Satellite System

National Space Program

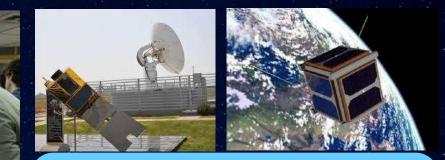
Sustainable technologic development model and spatial capabilities



National Space System







AUTONOMY AND SOVEREIGNTY IN SPACE OPERATIONS



Observation satellites



Space Situational Awareness



Communications



Launching



Positioning system



Ministerio de Ciencia, Tecnología, Conocimiento e Innovación

Gobierno de Chile

National Space System SNSat Project



SUBSYSTEM 1 Geospatial Information SUBSYSTEM 2 National Production SUBSYSTEM 3 National Satellite SUBSYSTEM 4 Telecommunication services

- Satellite Ground Stations
- Optical and radar service imagery.
- Web Geoportal to access and processing.
- Complementary APP for public uses.



 Local production of mini/micro satellites and payloads:

• Design.

- Assembling.
- Integration.Certification.

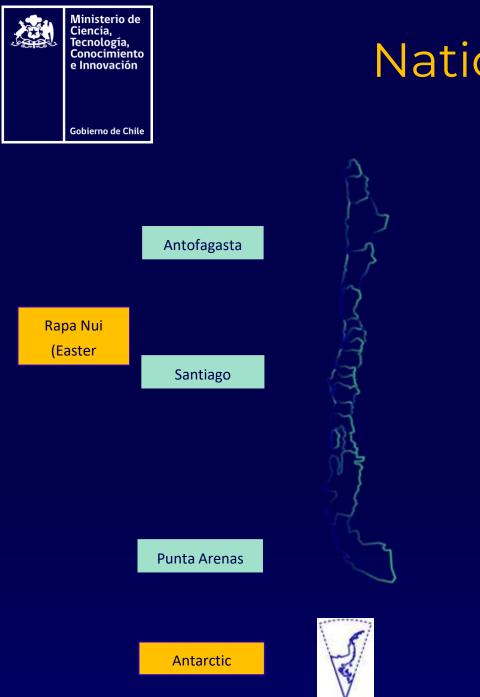


Satellite constellation in replace of Fasat Charlie

Dedicated Satellite communications services







National Space System



National Space Mission And Control Center

Public entrance

National Space Laboratory

> National Space Astropreneurship and Innovation Center

National Geospatial Analysis and Processing Information Center

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Space Collaboration Activities



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HUMAN CAPITAL DEVELOPMENT

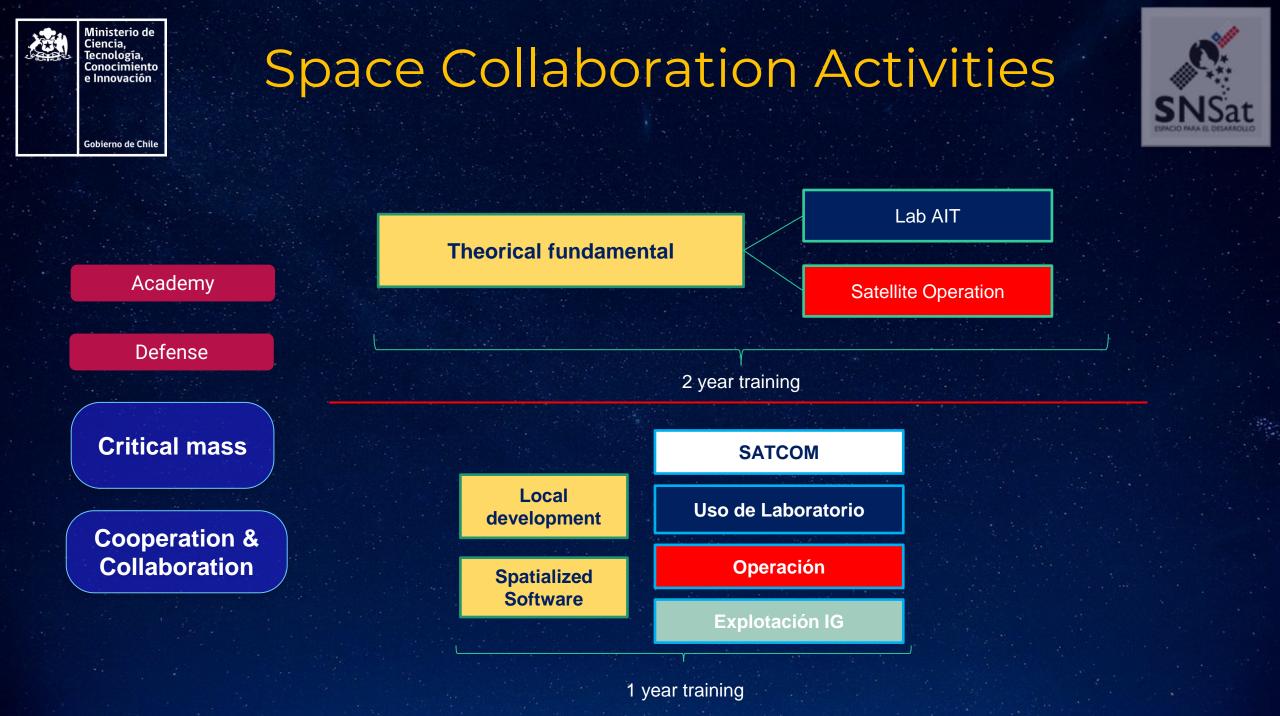
REUNA Chilean digital platform for research and development

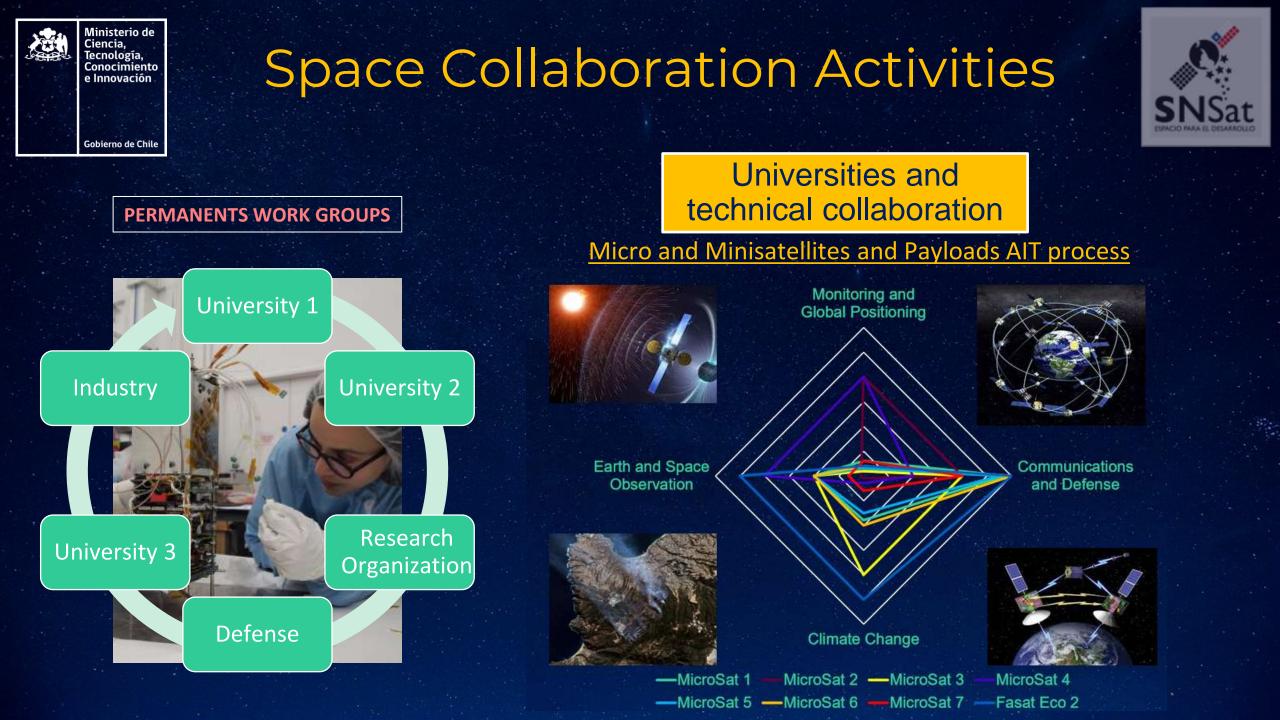


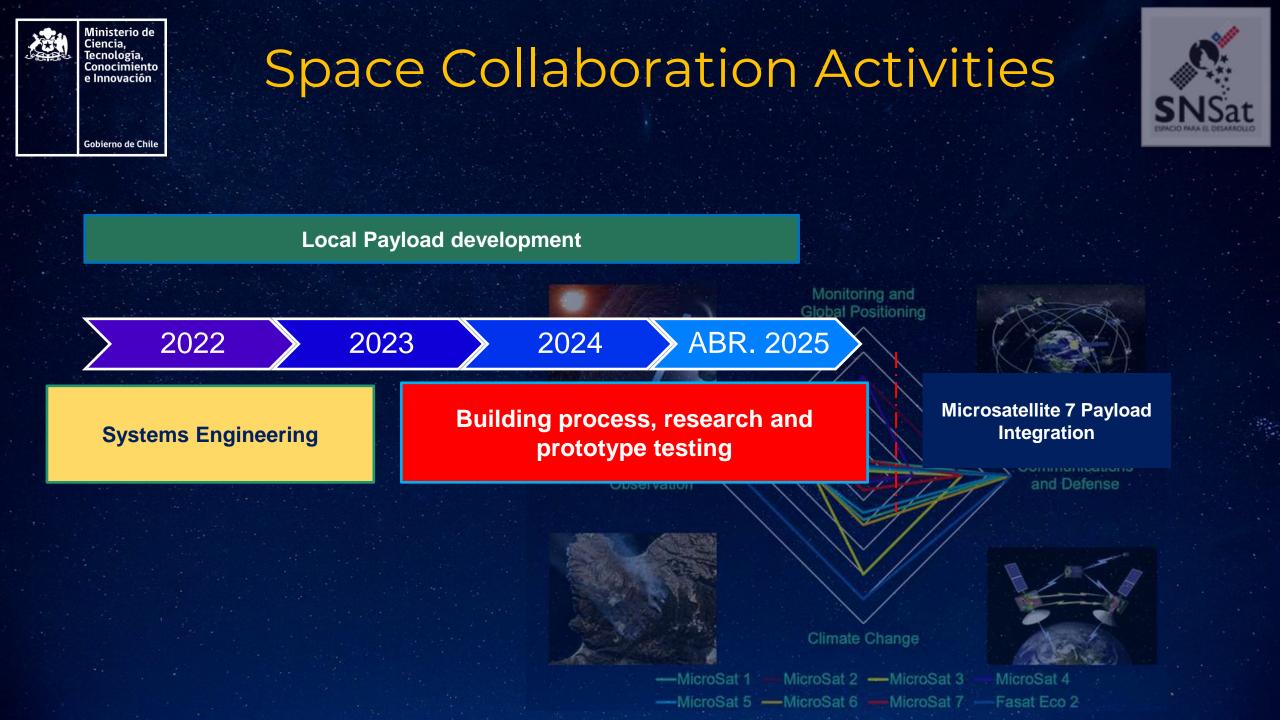
Human talent development 2022 – 2023 On Job Training for assembling, integration and testing.



Scholar program in: Antofagasta, Santiago y Pta. Arenas









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Space Collaboration Activities



Space Mission



ID	MISIÓN
CIN	Local development
GEO	Geospatial Information
CMA	Climate Change
SSA	Space Situational Awareness
CES	Space Wheather
COM	Satellite Communicaction and internet access
ACC	Space Acces Independence
MEX	Space Mining

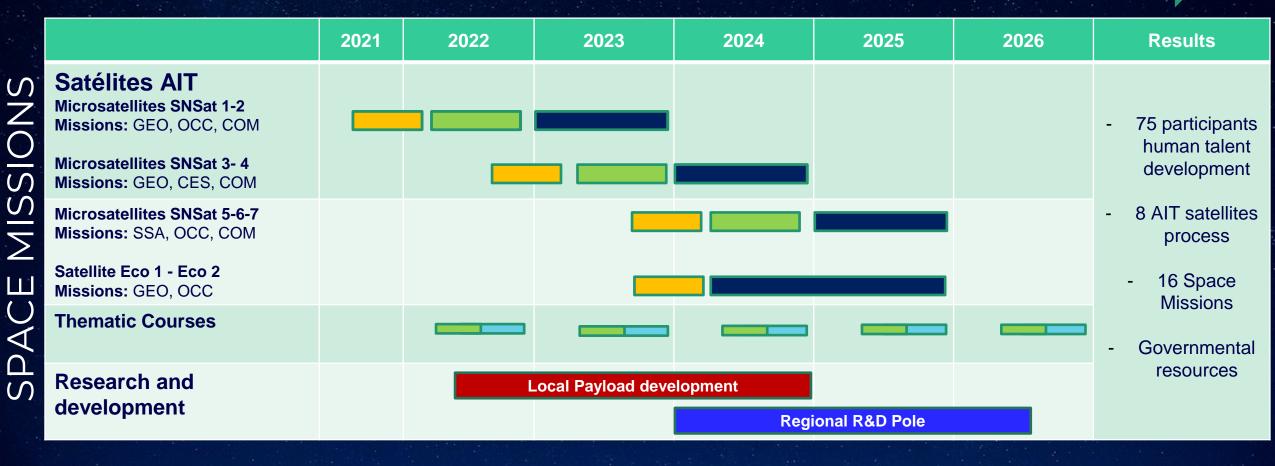


Space Collaboration Activities

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Research and Development Timeline

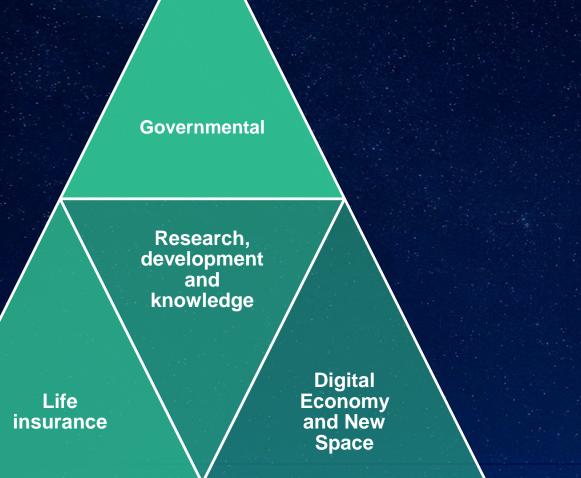




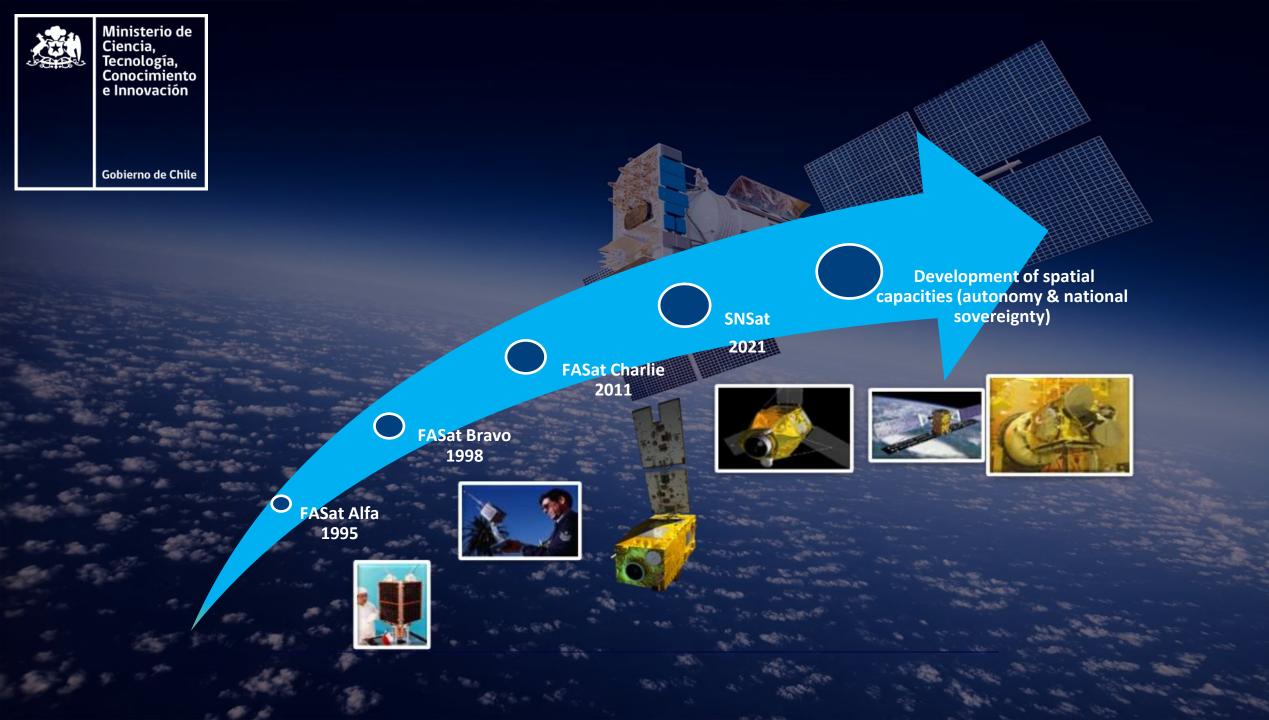
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Space Collaboration Activities Space as a high value asset...









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