

# SMALL SATELLITES EXPERIENCES IN BOLIVIA

**ABE**  
Agencia Boliviana  
Espacial



# BRIEF INTRODUCTION



- On 2009, the Bolivian Government decided to launch a Telecommunications Satellite.
- For this purpose ABE (Agencia Boliviana Espacial) was created on 2010 as a 100% state owned company.
- Its first mission was the implementation of the Tupac Katari satellite program.

- Now, TKSAT-1 has almost three years of operation, and technical and commercial operations of the satellite has been successfully driven by ABE.
- The operational capability of the Bolivian Space Agency was also recognized during this year in the 13th Annual Awards for Excellence in Satellite Communications, receiving the award of Newcomer Satellite Operator of the Year.

# ACTUAL AND FUTURE PROJECTS

- Since the TKSAT-1 project was successful, ABE start with the development of projects in different space areas, some of those projects are:
  - **TELECOMMUNICATIONS**
    - ✓ SECOND COMMUNICATIONS SATELLITE PROJECT
  - **REMOTE SENSING**
    - ✓ SATELLITE IMAGE PROCESSING LABORATORY
    - ✓ MOBILE EARTH STATION FOR SATELLITE IMAGES RECEPTION
  - **ACADEMIC FORMATION**
    - ✓ POSTGRADUATE COURSES
  - **INVESTIGATION**
    - ✓ SMALL SATELLITE GROUP

# SMALL SATELLITES DEVELOPMENT IN BOLIVIA

- Bolivia has just little experience on the small satellites field.
- ABE is convinced that small satellites are now starting to play a major role in space development.
- Bolivian Space Agency in cooperation with the most important University in Bolivia, create a group to study small satellites and conclude how they could help in the country development.



- The Bolivian Small Satellite Group has already made some meetings with Bolivian engineers that have studied about small satellites.
- This group, starts experimentation with the acquisition of an educational satellite, a DemoSat.

- Currently, this group is working to define specific objectives in order to start a Small Satellite Investigation and Development project.

# VISION ABOUT SMALL SATELLITES

- Developing countries with little experience in small satellites area, need International cooperation to develop some Small Satellites projects.
  - Knowledge and technology transfer.
  - Alliances to develop projects together.
  - Participation in the design, development and fabrication of small satellites.
  - Knowledge of the regulations for small satellites.



- A key point to improve this area in developing countries, is to understand the technology and subsequent use of such small satellites for various socio-economic activities.

**THANKS FOR YOUR  
ATTENTION!!**

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