

## **United Nations Expert Meeting on Space for Women**

# **The Women Role in the Development of the Venezuelan Space Activities**

Marglad Bencomo Noguera

Researcher at Quality, Standardization and Regulation Direction

The Bolivarian Agency for Space Activities (ABAE)

[mbencomo@abae.gob.ve](mailto:mbencomo@abae.gob.ve)

New York, 4 - 6 October 2017

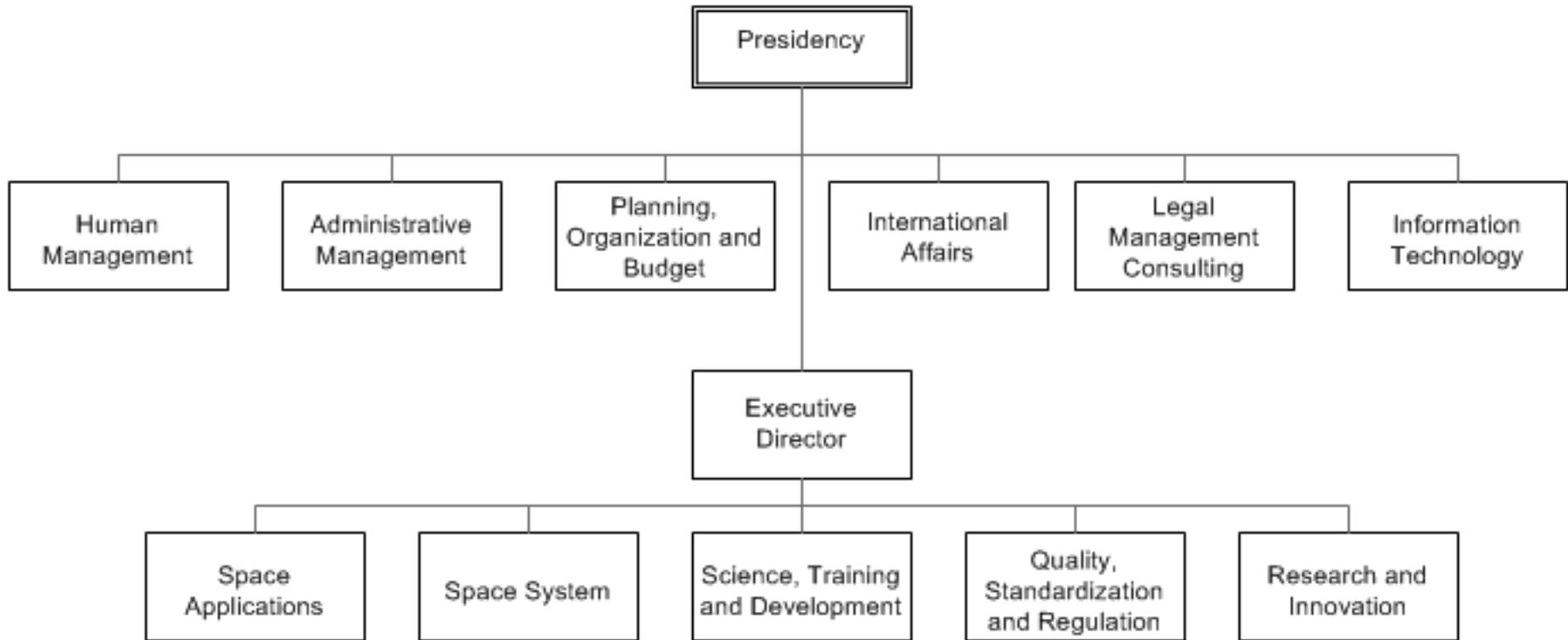
# OUTLINE

- **ABAE:**
  - **DUTIES AND ORGANIZATION**
- **THE WOMEN ROLE IN THE DEVELOPMENT OF THE VENEZUELAN SPACE ACTIVITIES:**
  - **MAIN PROGRAMS**
  - **EDUCATION**
  - **SWOT ANALYSIS**
- **RECOMMENDATIONS**

## **THE BOLIVARIAN AGENCY FOR SPACE ACTIVITIES (ABAE)**

- **Created by law in August 9th 2007 by the National Assembly. The creation law was officially published in October 25th 2007 in the GO N° 38.796.**
- **Operations started from January 01<sup>st</sup>, 2008.**
- **Autonomous institution attached to the Ministry of Popular Power for University Education, Science and Technology.**
- **Main duties.**

# ORGANIZATIONAL STRUCTURE OF THE ABAE



# THE WOMEN ROLE IN THE DEVELOPMENT OF THE VENEZUELAN SPACE ACTIVITIES



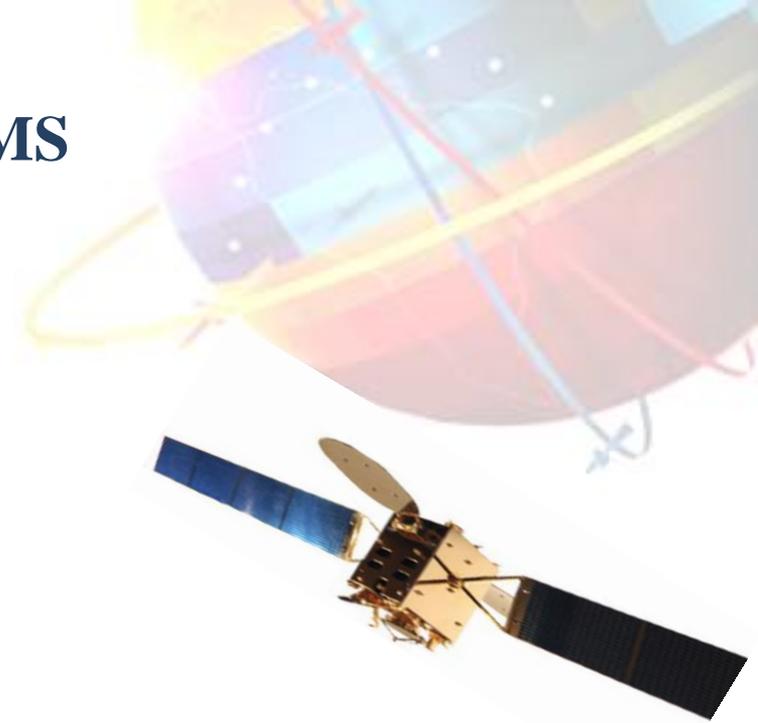
*Ms. Nuris Orihuela*

**First President of the ABAE**

- **PhD in Science of Engineering**
- **MSc in Geophisic**
- **Physicist**

# MAIN PROGRAMS

## • VENESAT-1



**First professional group receiving satellite training.**

- **35% from this group were women**
- **Electronic engineers**
- **Computer engineers**
- **System engineers**
- **Aeronautic engineers**

# MAIN PROGRAMS

## • VRSS-1



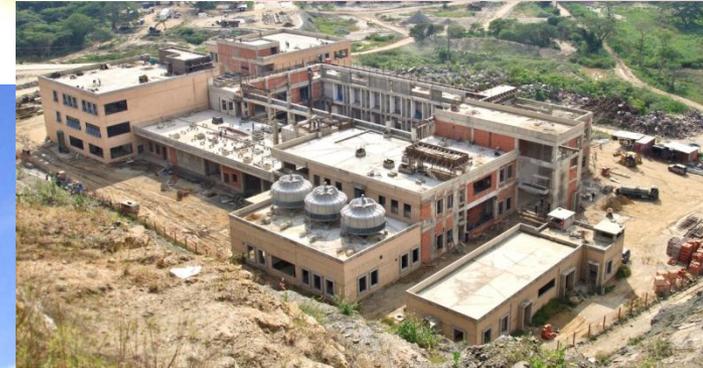
**Including human capacities in the organization.**

- **45% from this group were women**
- **Degree in Geography and Cartography**
- **GIS specialists**
- **Other related areas to imaging processing**
- **Other engineering disciplines**



## MAIN PROGRAMS

- **SPACE RESEARCH AND DEVELOPMENT CENTER (CIDE)**



**Capability of design, assembling, integration and testing for 1~2 small satellites per year.**

- **38% from this group were women**
- **Including scientist women in Mathematic, Physic, and Chemistry**
- **Other engineering disciplines**

# MAIN PROGRAMS

## • VRSS-2

**Improving knowledge and experience of professional women in the ABAE**

- **Project management**
- **Design**
- **AIT**
- **Launch phase**
- **IOT**



## EDUCATION

- **Beihang University**
  - **EADS Astrium**
  - **National Institute for Space Research (INPE)**
  - **Indian Institute of Remote Sensing**
  - **International Space University (ISU)**
  - **Willis Group Limited**
- 
- **National:**
    - ✓ **Polytechnic Experimental National University of the Bolivarian Armed Forces**
    - ✓ **Experimental Pedagogical University “Liberator”**
    - ✓ **Rómulo Gallegos National Experimental University**



# SWOT ANALYSIS

## STRENGTHS

- Professionals trained in space technology.
- The ABAE's women committed to spatial development.
- Space education plans by the ABAE.
- New projects.
- National Labor Law.

## WEAKNESSES

- Requirement of personnel.
- Status of CIDE.
- Budget issues.
- Few available labs.

## OPPORTUNITIES

- Government support.
- Support from education centers.
- Agreement with National Universities.
- Available positions in the ABAE.
- Agreements with other national research centers.
- International cooperation.

## THREATS

- Economic situation in Venezuela.
- Migration of professionals to other countries.
- Devices and equipments provided by international companies.

# SWOT ANALYSIS

## Strategies

- University education programs supported by ABAE's professionals.
- ABAE's campaign in the primary and secondary education system in order to involve the girls in STEM education.
- Motivation plans for professional women involved in STEM.
- Campaign plan for women participation in space activities.
- Research programs between ABAE and other institutions.
- Space educative lab projects.
- Partner for CIDE operation.
- Space service business.

## RECOMMENDATIONS

- **Regional meetings to review plans and projects in space, in order to strengthen cooperation in this area.**
- **Review the progress made in plans designed to encourage women and girls' involvement in STEM education and space activities.**
- **Support between space agencies and others space organizations to promote the space activities and the women participation on them.**
- **Use of information technologies to promote STEM education in women and girls.**

# THANK YOU!



**ABAE**  
★ ★ ★ ★ ★ ★ ★ ★  
AGENCIA BOLIVARIANA PARA  
ACTIVIDADES ESPACIALES

