

# Our Place in Space

Philippine Space Agency



**PhilSA**

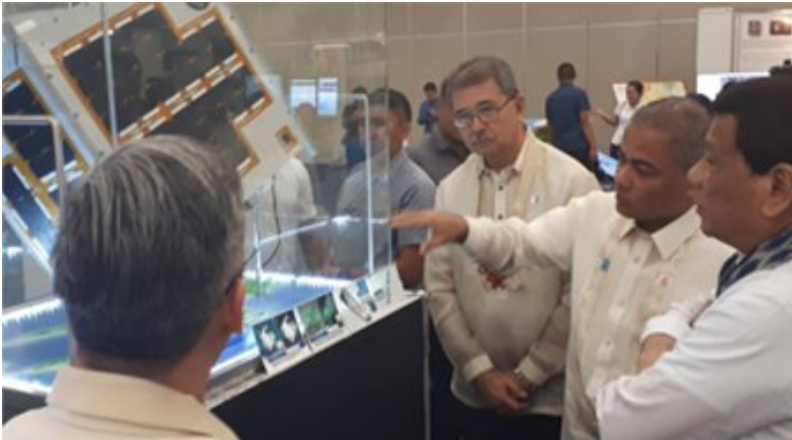
15 March 2021

Photo Credit: JAXA/ISS

# Republic Act 11363 “Philippine Space Act”

## Creation of the Philippine Space Agency (PhilSA).

- ❖ central government agency addressing all national issues and activities related to space S&T applications.
- ❖ primary policy, planning, coordinating, implementing, and administrative entity of the **Executive Branch** of the government that will **plan, develop, and promote** the **national space program** in line with the Philippine Space Policy.



**08 August 2019**  
Signed by the President

**03 September 2019**  
Effectivity of R.A. 11363

# The Philippine Space Council (PSC)

Chairperson: President of the Philippines  
(may designate the Executive Secretary)

Vice Chairpersons: Secretary of Science and Technology  
Secretary of National Defense

Members: Chair, Senate Committee on Science and Technology  
Chair, House Committee on Science and Technology  
Secretary of the National Economic and Development Authority  
Secretary of Finance  
Secretary of Foreign Affairs  
Secretary of Agriculture  
Secretary of Environment and Natural Resources  
Secretary of Trade and Industry  
Secretary of Information and Communications Technology

The **PhilSA Director General** shall serve as the **Presidential Adviser on Space Matters** and Secretariat to the PSC.



# Key Development Areas & Strategic Directions



## Key Development Areas



PhilSA

**S**pur **scientific growth** that fosters patriotism and accelerates national progress.

**P**romote **improved public access and resource-sharing** for the utilization of spaceborne data, space-enabled services and space-related facilities.

**A**ccelerate the **transfer and diffusion of space technologies and knowhow** throughout Philippine society towards developing a robust and vibrant local space industry and economy.

**C**reate a **coherent and unified strategy** for the development, utilization and promotion of Space Science and Technology Applications (SSTA) in line with the **Philippine Space Policy**.

**E**nhance the Philippines' **official representation and contribution in the international space community** for establishing cooperation.

# The PhilSA: Building From the Ground Up, But Not From Scratch



Development of  
Philippine Scientific  
Earth Observation  
Microsatellites



Space Technology  
and Applications  
Mastery, Innovation  
and Advancement



Digital Imaging for  
Monitoring and  
Evaluation



Computing and  
Archiving Research  
Environment



Philippine Earth  
Data Resource &  
Observation



Remote Sensing  
and Data Science  
Help Desk

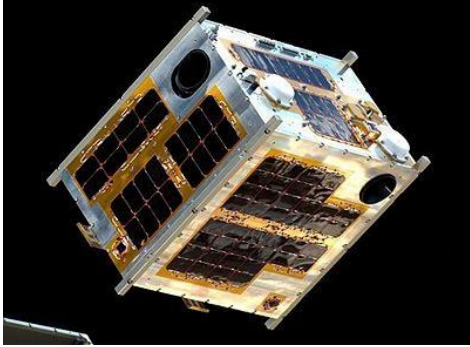


Understanding  
Lightning and  
Thunderstorms



PhilSA

# Small Satellites



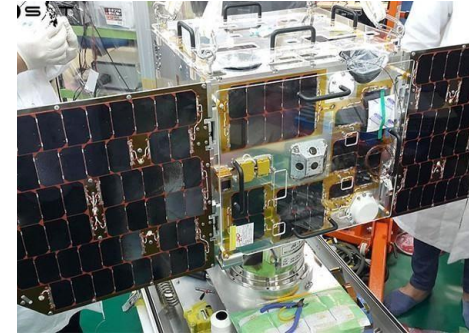
**Diwata-1 (2016)**

53 kg low earth orbit  
microsatellite  
(decommissioned)



**Maya-1 (2018)**

1 kg nanosatellite



**Diwata-2 (2018)**

57.4 kg low earth orbit  
microsatellite



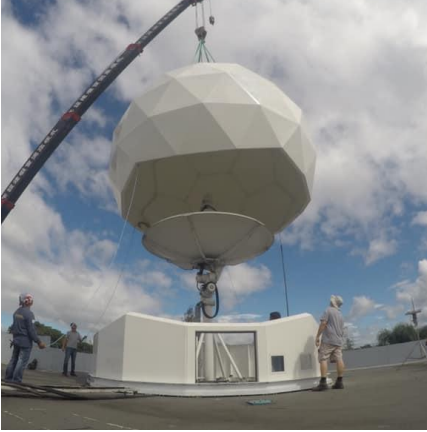


# Small Satellites



**Maya-2 (2021)**  
1 kg nanosatellite

# Ground Infrastructure



## Luzon

PEDRO Center  
Quezon City (DOST-ASTI)



## Visayas

Iloilo Ground Receiving  
Station (Coming Soon)



## Mindanao

Davao Ground Receiving  
Station (DGRS)



PhilSA



# Ground Infrastructure



Computing and Archiving  
Research Environment



Data Archiving



High-Performance  
Computing (HPC)



Science Cloud

The COARE is our national high performance computer (HPC). The **HPC** is available for processing massive amounts of satellite imagery and other data that require **high-speed calculations** and **powerful computing**.

# Our Filipino Space Engineers, Scientists, and Scholars



# Growing and enhancing capacity in SSTA by developing:

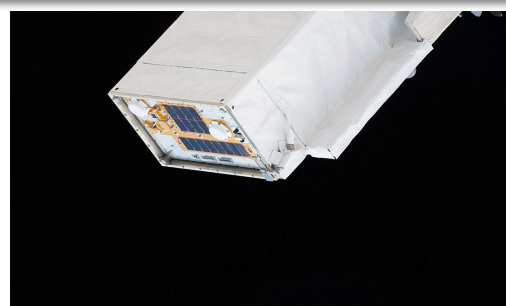
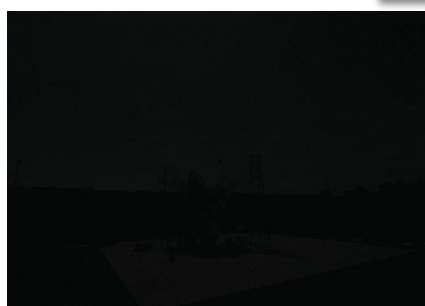
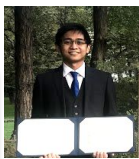
**PEOPLE**



**CAPABILITIES**



**INFRASTRUCTURE**





# Space Cooperation Initiatives

- (a) Cooperate with space-related agencies of other countries in the peaceful use and development of space;
- (b) Maintain a national registry of space objects in accordance with the United Nations Convention on Registration of Objects Launched into Outer Space and other international guidelines;
- (c) Enter into contracts, memoranda of understanding/ agreement or other arrangements in behalf of the State, in consultation with the Department of Foreign Affairs and/or other concerned agencies;
- (d) Establish and maintain linkages with other national space agencies and organizations; and
- (e) Represent the Philippines in the United Nations Committee on the Peaceful Use of Outer Space and other similar space-related forums, assemblies and organizations.



# Status of Space Treaties in the Philippines

TREATY	STATUS
Outer Space Treaty	Signed (1967)
Rescue Agreement	Signed (1968)
Liability Convention	Signed (1972)
Registration Convention	Not yet signed nor ratified
Moon Agreement	Ratified (1981)



PhilSA



UNOOSA

# Registration and Liability Conventions in the Philippines

**In accordance with Registration and Liability Conventions,**

- a. PhilSA shall maintain a National Registry of Space Objects which lists all space objects launched under the responsibility of the Philippines
- b. PH shall take responsibility for damages caused by space objects registered in the Philippines' National Registry-of Space Objects.

This shall take into effect upon ratification of the Liability Convention and Registration Convention by the Philippine Government.





## Our Vision

The PhilSA envisions a Filipino nation **bridged, uplifted, and empowered** through the peaceful uses of outer space.

## Our Mission

We will promote and sustain a robust Philippine space ecosystem that **adds and creates value** in space **for and from Filipinos and for the world.**

# Maraming salamat po.



**Philippine  
Space  
Agency**

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