

Philippine Space Agency

# Advancing Philippine Space Technology and Applications for Sustainable Socioeconomic Development

Gay Jane Perez, Ph.D. Deputy Director General for Space Science and Technology

> Committee on the Peaceful Uses of Outer Space Scientific and Technical Subcommittee Meeting 58th Session 26 April 2021 Vienna, Austria



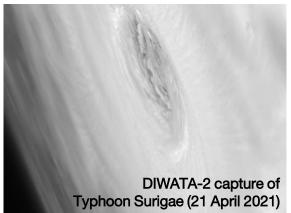
### Seeing the Philippines "from a different angle"



## Vulnerability to Hazards and other Challenges



https://www.ibtimes.com/after-typhoon-haiyan-philippines-economygrows-slowest-pace-over-year-1489028





https://www.rappler.com/nation/coronavirus-cases-philippines-april-17-2021

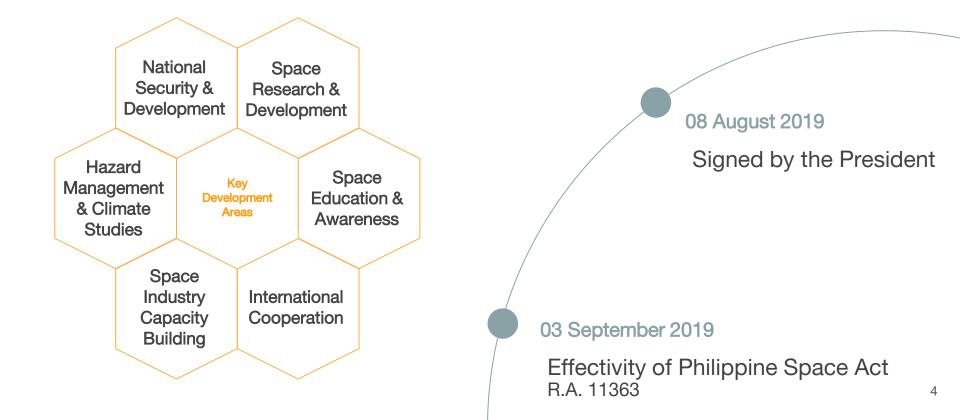
Natural disasters and the health crisis threatens the economy and security of a nation

Space technology provides **timely** data for **proactive** actions

Every year

A year and counting

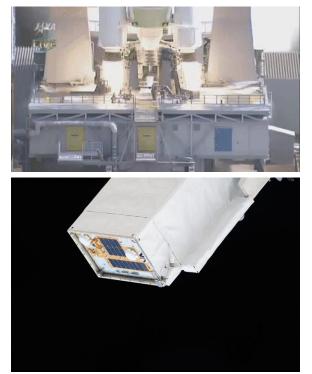
## **The Philippine Space Agency** Building an integrated and sustainable national space program



## The Philippine Space Agency (PhilSA) Building from the ground up, but not from scratch



Developing nano- and microsatellites

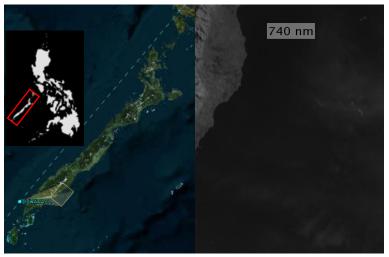


DIWATA-1 and DIWATA-2 launched into space in 2016 and 2018, respectively

## **Flagship Initiatives**

## Space Science & Technology and its Applications Program

Mobilizing Space Data





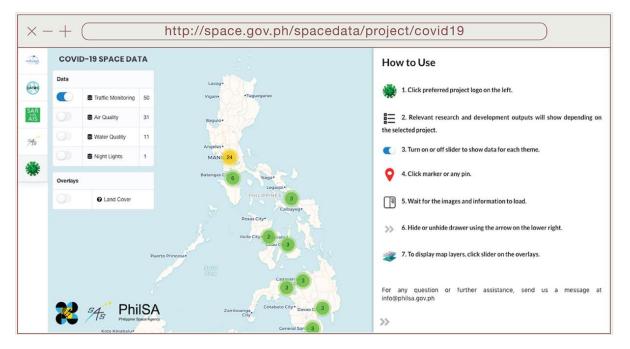
For Digital Inclusion, Economy, and Government Advanced Satellite Development



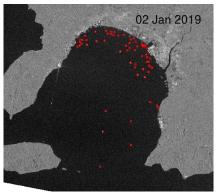


Philippine Satellites as Vital Component of National Information Infrastructure

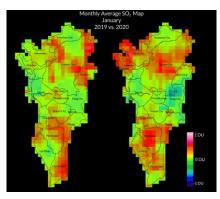
## **Mobilizing Space Data** Addressing global pandemic health crisis



### COVID-19 Space Data Dashboard



### Traffic monitoring



### Changes in air quality

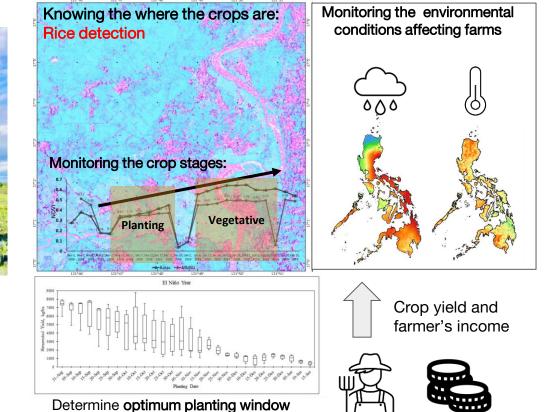
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## **Mobilizing Space Data** Addressing food security



Author: DA Communications Group | 28 July 2020

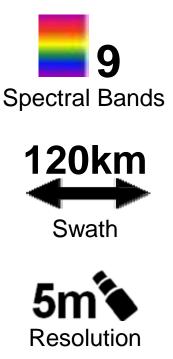
Ensuring steady supply of food through **disaster-resilient farm technologies** 



to mitigate risks from drought or flooding

## **Advanced Satellite Development**



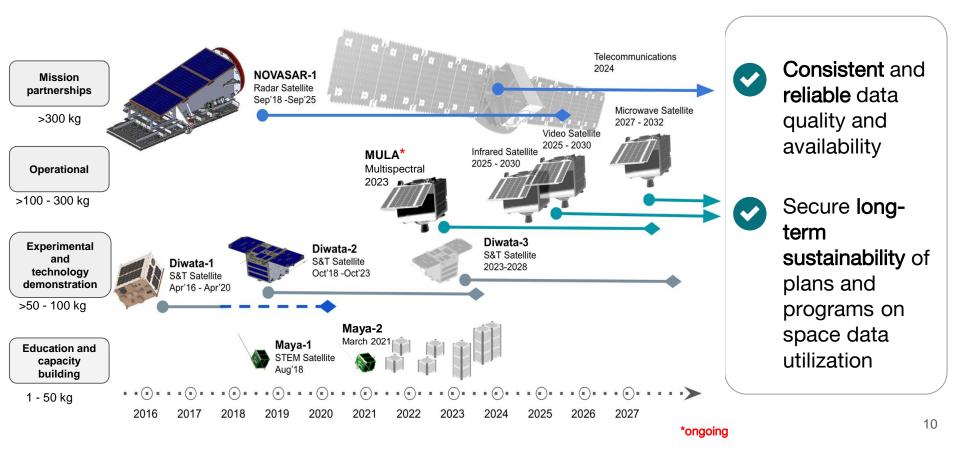




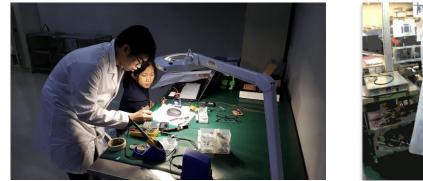
Multispectral Unit for Land Applications (MULA) Satellite

Multiple imaging bands for agricultural monitoring and assessment

## Satellite Technology Roadmap



## Strengthening capabilities and transferring knowledge





Know-how transfer and retention mechanism: Building a strong workforce



Space education and awareness: Engaging the future space scientists and engineers

# The PhilSA's engagements with the international space community

PhilSA is now representing the country in the following space-related bodies



Sub-Committee on Space Technology and Applications (SCOSA) under the ASEAN Committee on Science, Technology and Innovation.



UN Committee on the Peaceful Uses of Outer Space (COPUOS). Economic and Social Commission for Asia and the Pacific

Regional Cooperation in Space Applications (RESAP) of the UN Economic and Social Commission for Asia and the Pacific.

## **Creating stronger ties**



#### Courtesy call of Ambassador of India

#### Asia-Pacific Regional Space Agency Forum (APRSAF) Space Applications Working Group Restructuring Discussion Meeting March 10, 2021 | Via Webex



### PhilSA, UAE Embassy discuss possible space cooperation

Posted by: Philippine Space Agency

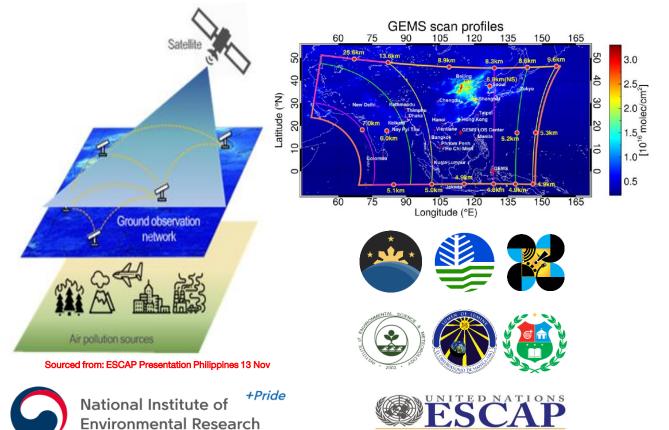
February 24, 2021



## **Creating stronger ties**

### Pan Asia Partnership for Geospatial Air Pollution Information (PAPGAPI) Project

Economic and Social Commission for Asia and the Pacific

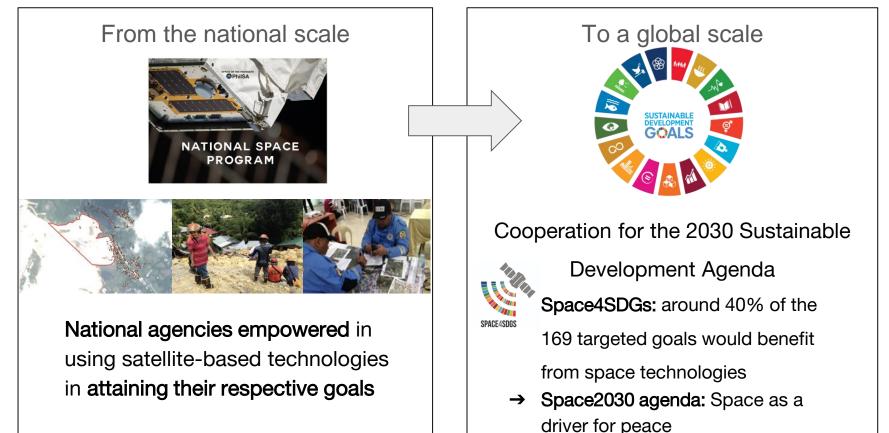


Global Environmental Monitoring System (GEMS) payload onboard the GEO-KOMPSAT-2B satellite - launched on 18 February 2020 by the Republic of Korea.

## Establishing an inclusive community



# Moving forward: long-term sustainability goals and socioeconomic development





### **Our Vision**

# Thank you. Maraming salamat po.

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**.

#### Contact Us

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