



**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”

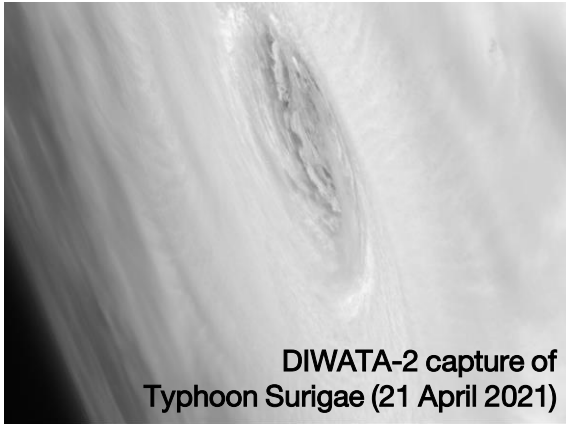


Credits: ISS JAXA Astronaut Soichi Noguchi

Vulnerability to Hazards and other Challenges



<https://www.ibtimes.com/after-typhoon-haiyan-philippines-economy-grows-slowest-pace-over-year-1489028>



DIWATA-2 capture of
Typhoon Surigae (21 April 2021)

Every year



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

A year and counting

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

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

The Philippine Space Agency

Building an integrated and sustainable national space program



08 August 2019

Signed by the President

03 September 2019

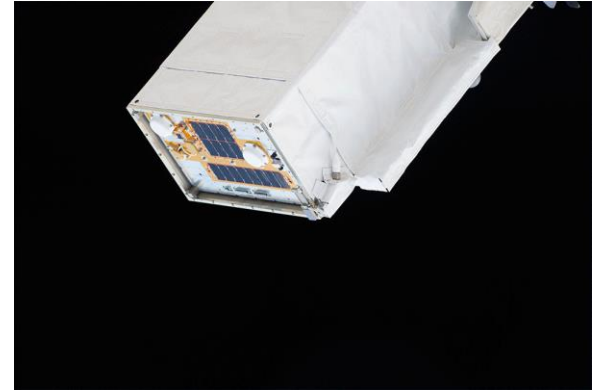
Effectivity of Philippine Space Act
R.A. 11363

The Philippine Space Agency (PhilSA)

Building from the ground up, but not from scratch



Developing nano- and microsatellites

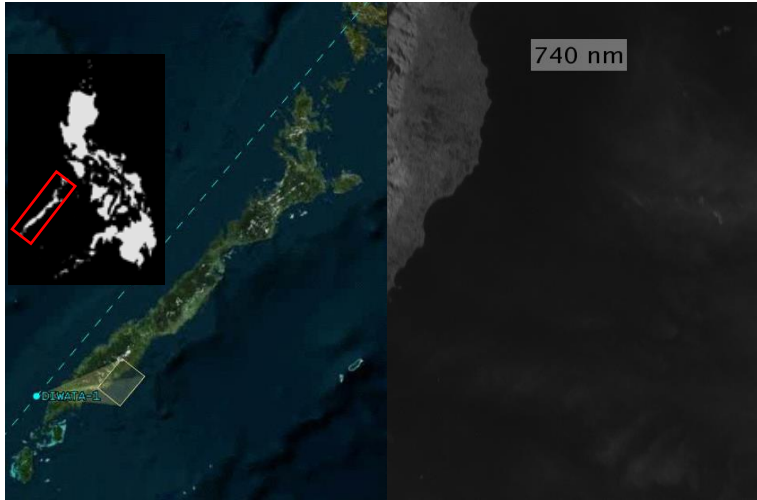


DIWATA-1 and DIWATA-2
launched into space in 2016 and
2018, respectively

Flagship Initiatives

Space Science & Technology and its Applications Program

Mobilizing Space Data



For Digital Inclusion,
Economy, and
Government

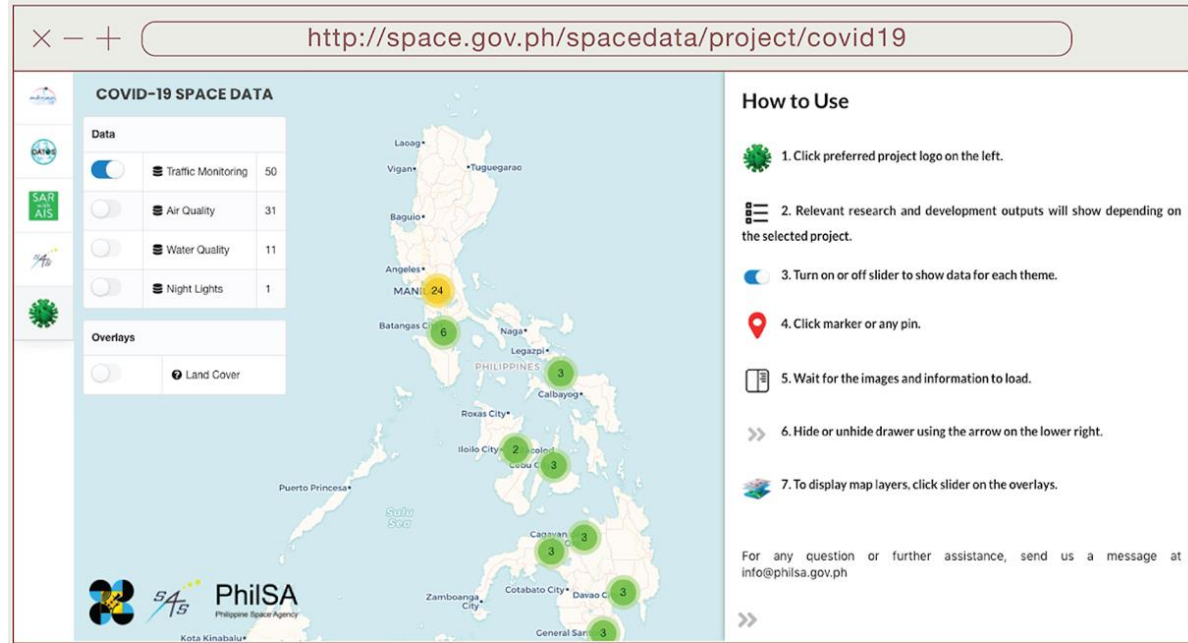
Advanced Satellite Development



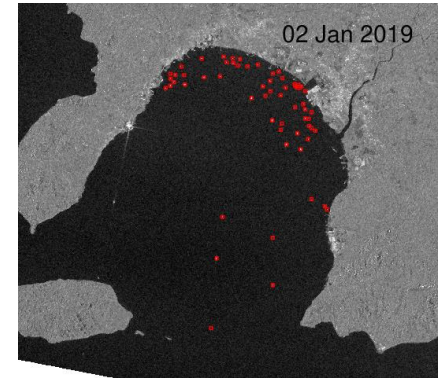
Philippine Satellites as
Vital Component of National
Information Infrastructure

Mobilizing Space Data

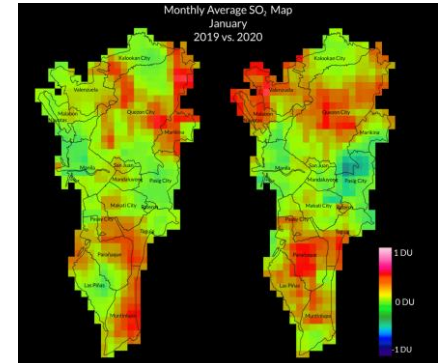
Addressing global pandemic health crisis



COVID-19 Space Data Dashboard



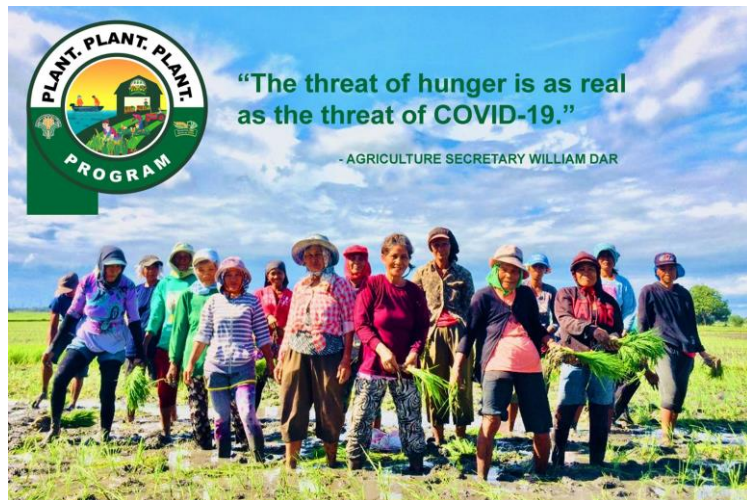
Traffic monitoring



Changes in air quality

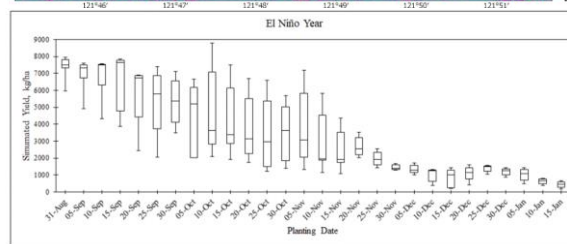
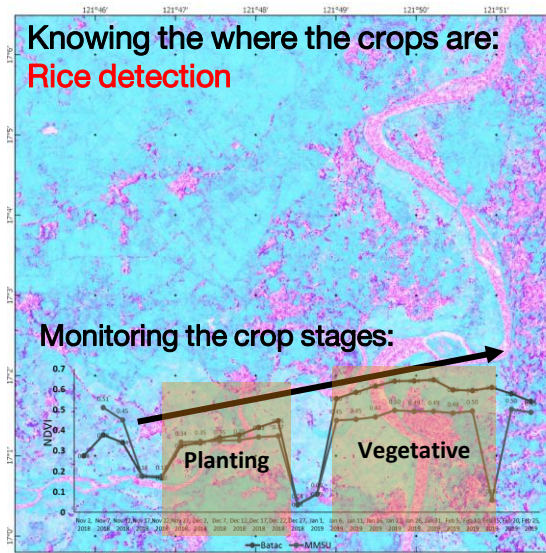
Mobilizing Space Data

Addressing food security

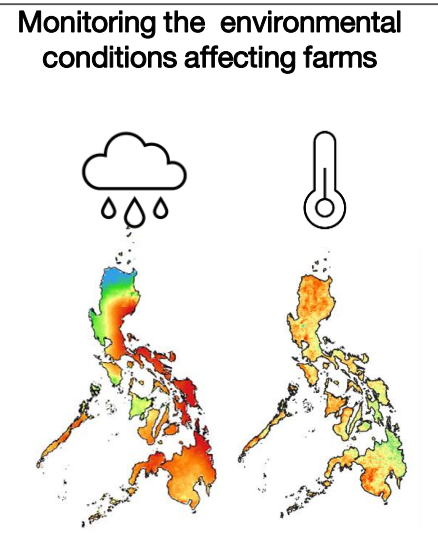


Author: DA Communications Group | 28 July 2020

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



Determine **optimum planting window** to mitigate risks from drought or flooding



Advanced Satellite Development

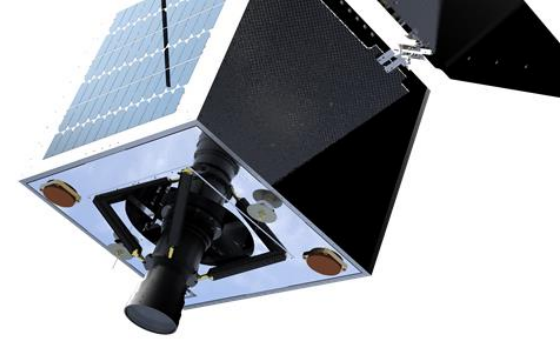


 **9**
Spectral Bands

120km

Swath

5m 
Resolution



**Multispectral Unit for
Land Applications
(MULA) Satellite**

Multiple imaging bands
for **agricultural monitoring
and assessment**

Satellite Technology Roadmap

Mission partnerships

>300 kg

Operational

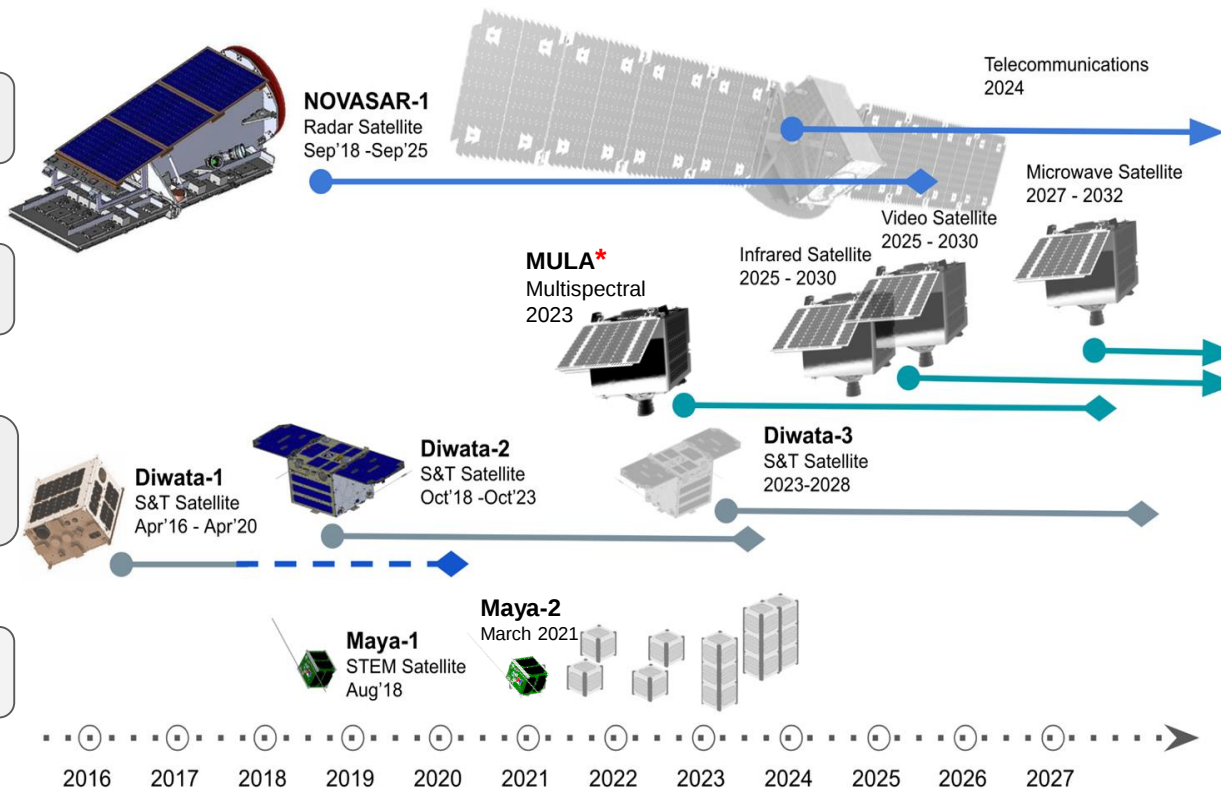
>100 - 300 kg

Experimental and technology demonstration

>50 - 100 kg

Education and capacity building

1 - 50 kg



Consistent and reliable data quality and availability



Secure long-term sustainability of plans and programs on space data utilization

*ongoing

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).



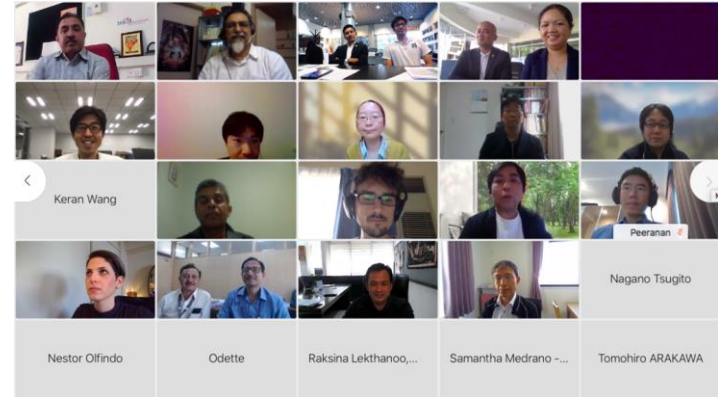
Regional Cooperation in Space Applications (RESAP) of the UN Economic and Social Commission for Asia and the Pacific.

Creating stronger ties



Courtesy call of Ambassador of India

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



PhilSA, UAE Embassy discuss possible space cooperation

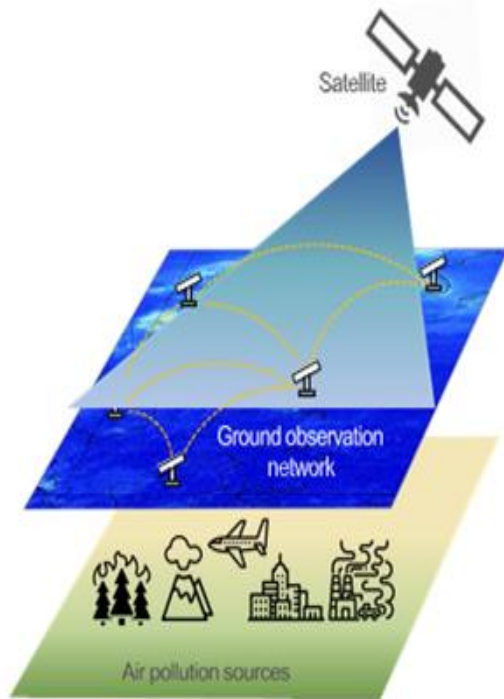
Posted by: Philippine Space Agency

February 24, 2021

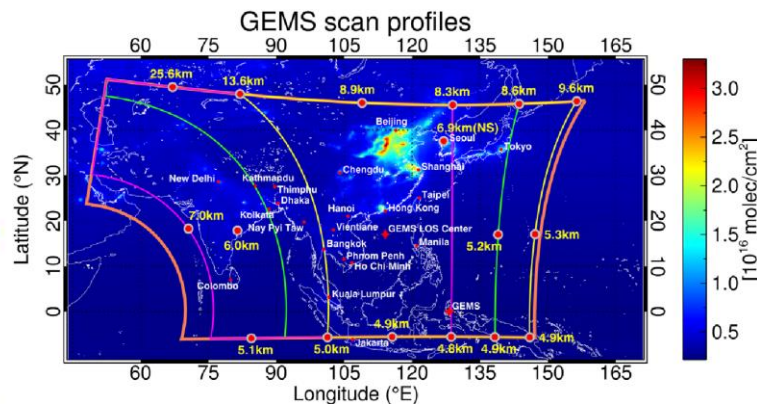


Creating stronger ties

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



Sourced from: ESCAP Presentation Philippines 13 Nov



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

CHAT_MODERATOR - Michelle Jayag

Angelika Pizarro

Ms. Maria Fabros

CHAT MODERATOR Joyleen Santos

Ms. Dulce Fortunado

Mr. Christopher Castillo

Ms. Emma Sarne

Ms. Regina dela Fuente

Engr. Josephine Santiago-Bond

Dr. Maricel N. Soriano

Dr. Carolyn I. Sobritchea

Dr. Gay Jane P. Perez

Karen Lou Mabagos

Ms. Marichu Liwanag

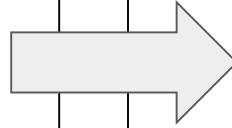
MAKING SPACE FOR WOMEN
Advancing Gender Equality in the Philippine Space Science Sector
29 MARCH 2021 | 09:00AM

Moving forward: long-term sustainability goals and socioeconomic development

From the national scale



National agencies empowered in using satellite-based technologies in attaining their respective goals



To a global scale



Cooperation for the 2030 Sustainable Development Agenda



Space4SDGs: around 40% of the 169 targeted goals would benefit from space technologies

→ **Space2030 agenda:** Space as a driver for peace



**Philippine
Space
Agency**

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.

**Thank you.
Maraming salamat po.**

Contact Us

W: space.gov.ph

E: info@philsa.gov.ph

FB: PhilSpaceAgency

IG: philspaceagency

TW: PhilSpaceAgency

LI: philspaceagency