Leveraging the Space Value Chain for Sustainable Development in the Philippines



Marc Caesar R. Talampas, Ph.D. Director

Space Technology Missions and Systems Bureau



61st Session of the Scientific and Technical Subcommittee of the United Nations Committee on the Peaceful Uses of Outer Space

Republic Act No. 11363, The Philippine Space Act





Republic Act No. 11363 or the Philippine Space Act, was signed into law on August 8, 2019, establishing the Philippine Space Policy and PhilSA.





PhilSA is an attached agency of the Office of the President for purposes of policy and program coordination, to ensure alignment in national policies and priorities PhilSA is the central government agency in the Philippines addressing all national issues and activities related to space S&T applications (SSTA).



Marcos to tap PH Space Agency to improve security, economy

Katrina Domingo, ABS-CBN News





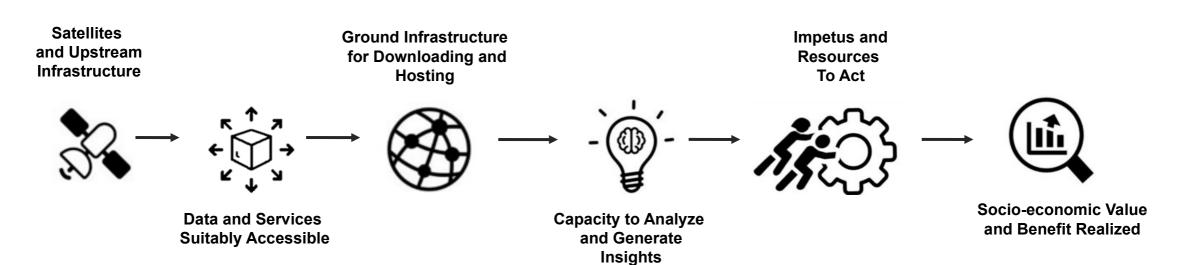


PhilSA

Value creation is at the *core* of the PhilSA 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.

The Space Value Chain



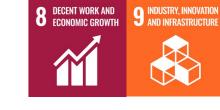
Supporting the Space Data Value Chain			
icy, Planning and ational Cooperatio		Public Outreach	Education and Capacity-Building
A STIL			

Adapted from: Current and future value of earth and marine observing to the Asia-Pacific region, Australian Government | Asia-Pacific Economic Cooperation

"A space-faring, space-capable nation"

Infrastructure

means sovereign satellites and industrial capabilities in space





🕺 ngkop sa Kalawakan, Yari at Tatak (AKYAT) Filipino

Opportunities in local space manufacturing





Philippine Space Agency

Target Space-Adjacent Industry Sector



Materials Engineering

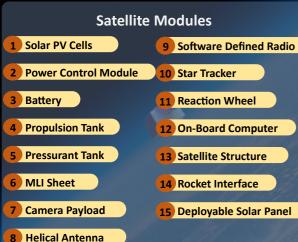


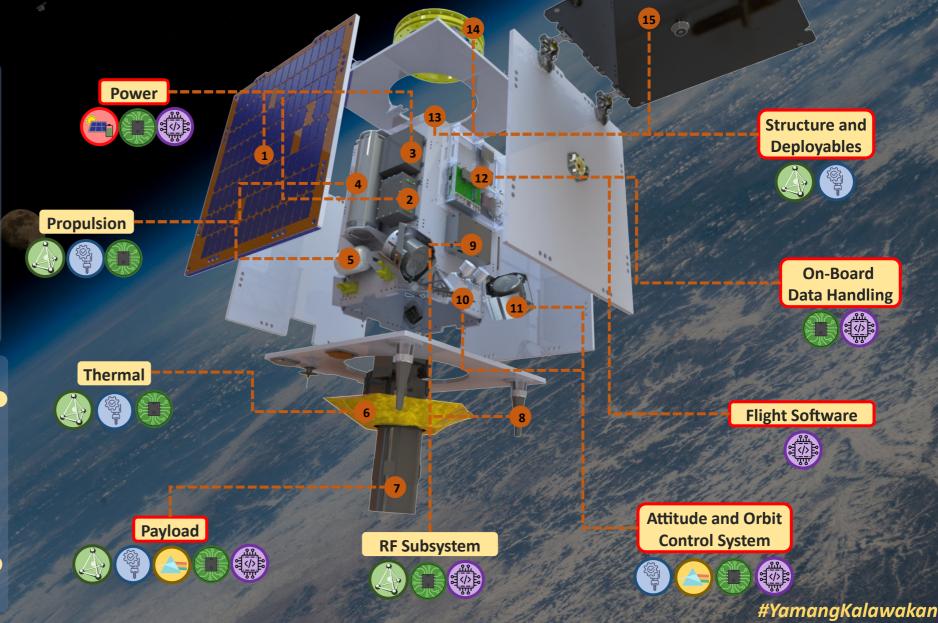
Optical Instruments and Photographic Equipment Manufacturing

Electronic Products Manufacturing

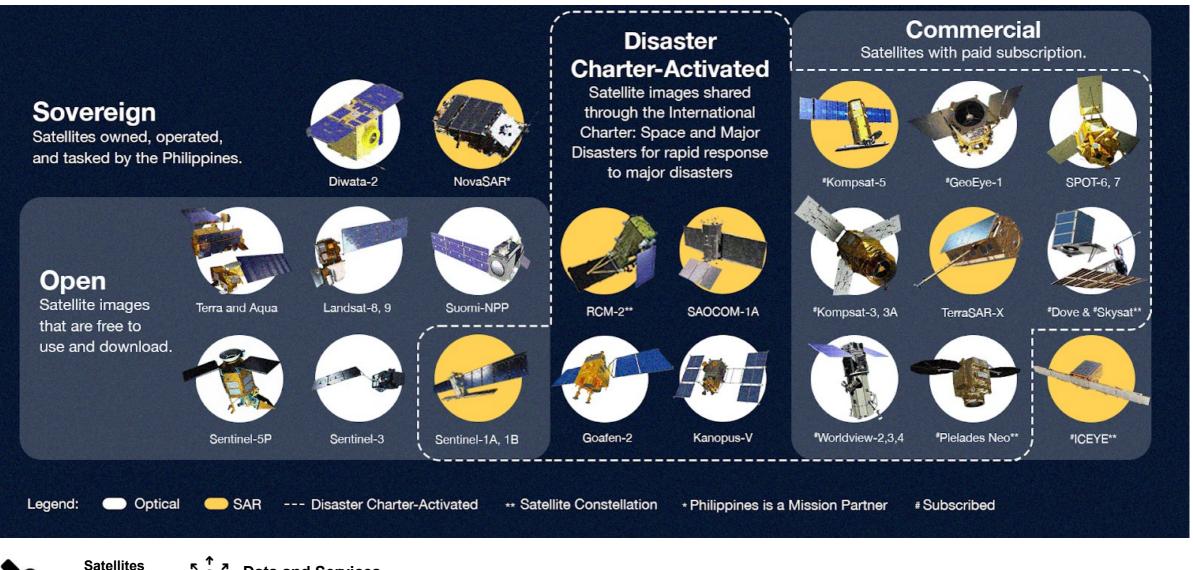
Embedded Systems and Software Development

Solar and Battery Engineering





Space data sources

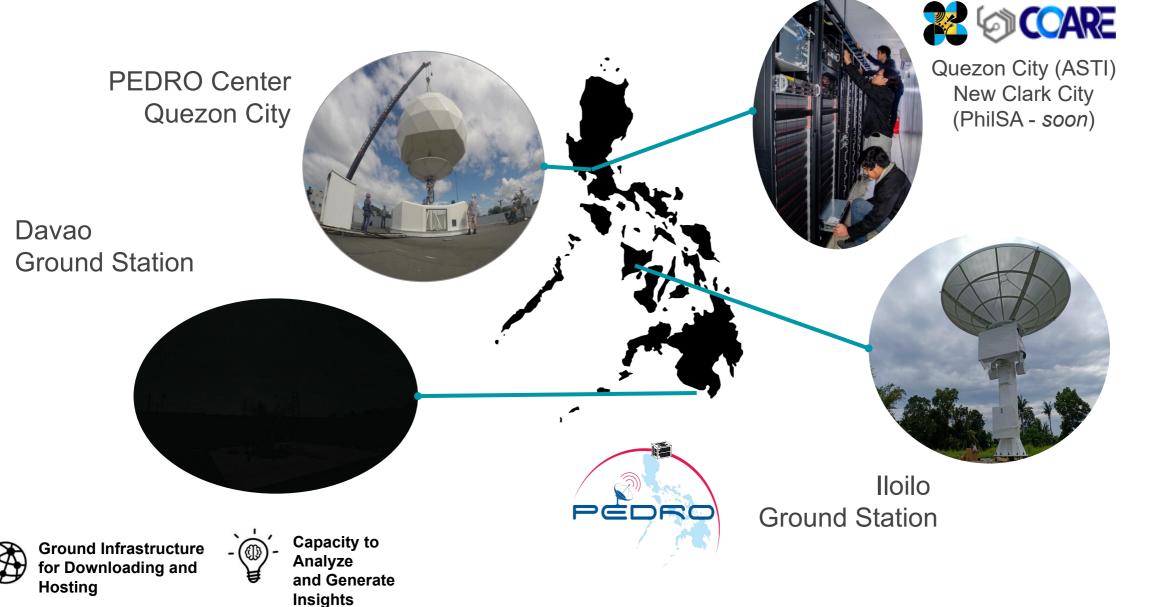


and Upstream

Data and Services Suitably Accessible

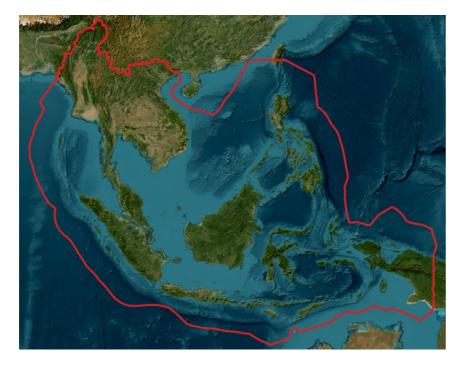
Infrastructure for Data Hosting and Computing





Mobilizing Space Data for National Security, Maritime Domain Awareness, and Economic Development







Europe's eyes on Earth



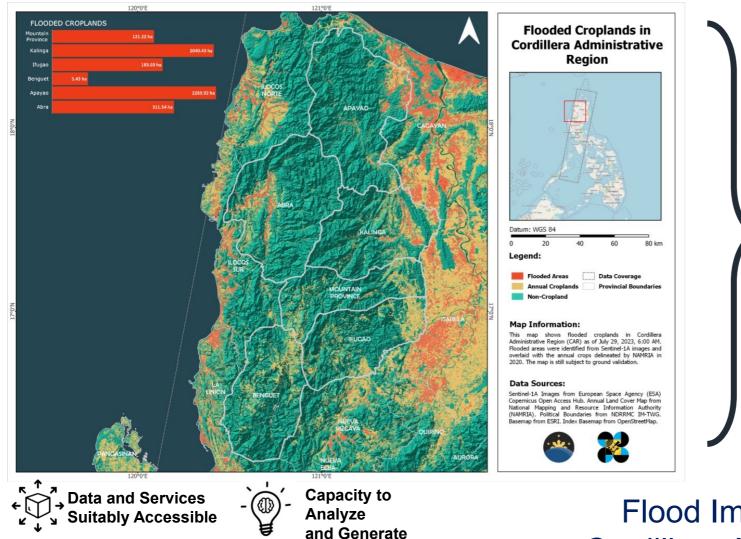
Ground Infrastructure for Downloading and Hosting Analyze
and Generate
Insights

Capacity to





Mobilizing Space Data for National Security, Maritime Domain Awareness, and Economic Development



Insights

Ground Infrastructure

for Downloading and

Hosting

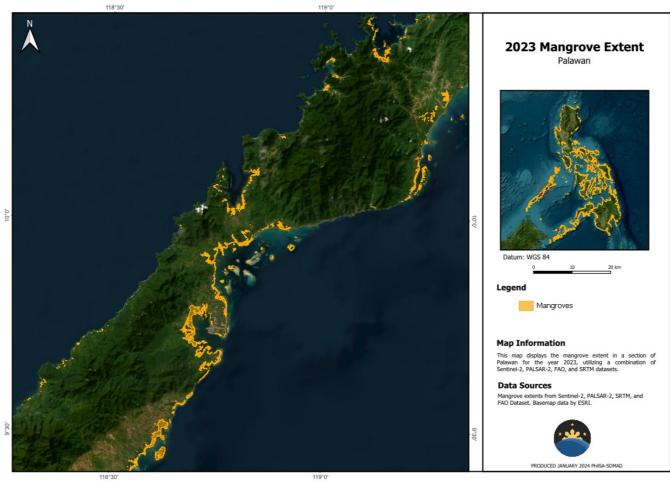








Mobilizing Space Data for National Security, Maritime **Domain Awareness, and Economic Development**



NO Poverty Sero **3** GOOD HEALTH AND WELL-BEING 6 CLEAN WATER AND SANITATION 13 CLIMATE ACTION 14 LIFE BELOW WATER 15 LIFE ON LAND

Ы

Hosting



Data and Services Suitably Accessible

for Downloading and



Mangrove Extent Mapping



Satellite images lead to mining bust in Misamis Oriental

At least 16, including 5 Chinese, nabbed in gov't raid along Iponan River in Opol town

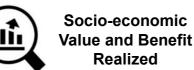
By the Inquirer Staff / 05:04 AM May 19, 2023



ENVIRONMENT SURVEILLANCE At least 16 people, five of them Chinese, were arrested on May 13 as authorities stopped an unauthorized mining operation that had damaged about 7 hectares of forest land in Opol, Misamis Oriental. A satellite image (lower right) led to the discovery of the site, alerting the Department of Environment and Natural Resources (DENR). —PHOTO FROM DENR



Impetus and Resources To Act



EDITORS' PICK



NEWSINFO Rise of 'butterfly' workers alarms Cordillera execs

MOST READ



TECHNOLOGY Explore BGC at night with vivo Y36



TECHNOLOGY POCO's 2023 best-selling phones: Join the POCO Carnival



NEWSINFO Release P3-billion fuel subsidy now, Poe urges DOTr



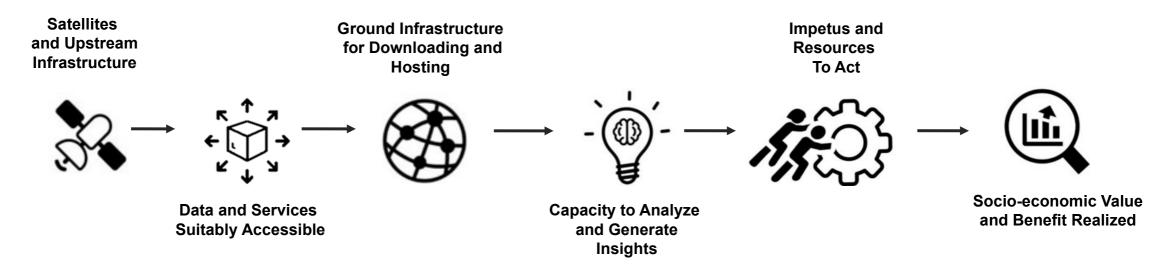
NEWSINFO As rice prices soar, senators dare NFA: Prove your worth















Summary

- The strategic use of space technology promotes socioeconomic development at both national and global scales
- Socio-economic value and benefit is realized only when insights are acted upon
- Activities in each step of the space value chain contribute to the attainment of the SDGs
- Inclusive and sustainable industrial development aimed at shoring up space infrastructure could bring broader impact



Our Place in Space

https://philsa.gov.ph/our-place-in-space-preface/



https://philsa.gov.ph/our-place-in-space-volume-1/

Link to video: Our Place in Space.mp4

Thank you!



Philippine Space Agency

Our Vision

Our Mission

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