

- Decision support system for resource management using space-based information
- · Update agricultural/land classification, assessment and other EO government use cases monitoring through satellite data
- · Enhance the monitoring system for GHG, sea surface temperature and other climate conditions through EO data
- · Provide persistent monitoring of climate condition using developed satellites for improved hazard management and disaster risk planning. This is also to expand the conduct of climate studies and disaster risk assessment in the country.
- Improve environmental assessment and monitoring, precision agriculture, maritime domain awareness and disaster management through EO solutions

EO solutions for Government and Industries

- Embed end-to-end EO solutions to government institutions to deliver complete solutions
- Expand utilization of satellite data to improve public service through partnerships with government institutions and private industries
- Enhance efforts toward safeguarding the national security and territory through EO solutions
- Establish Climate change resilient communities through EO solutions
- Launch National Open Data Platform for mainstreaming EO data
- Establishment of web-based or cloud computing services and platforms for big data EO analytics

- maritime surveillance
- · Develop Earth Observation solutions for public services:
- Develop applications using other various available satellite
- data (i.e. Jason, Sentinel 4, Suomi, MODIS Agua and Terra, Hyperspectral EO)
- · Complementation of various remote sensing technologies to be used for indoor and underground applications
- · Develop EO Data Cubes for Big Data Analytics and Management of EO data Develop thematic applications for EO Data Cubes
- · Development Earth Observation Application Products from the Open Data Cube addressing Sustainable Development Goals and contributing to Global Policy Frameworks
- · Develop applications for space-based quantum sensing and computing

Human Resources

- Broaden the research and application
- of EO to regional universities and research institutions
- Partner with universities/colleges to embed EO applications
- to engineering, science and business courses

- Develop supporting policy for the establishment of Philippine Data Cube as an open data platform for Earth Observation data
- Develop regulations for the collection, distribution and use of EO data
- · Forge partnerships with international institutions for EO data sharing and utilization and adoption of global policies and standards
- Develop a plan with the private sector for co-investment on EO resources that will result to inward capital investment in the Philippines and industry revenue of Php 10 billion/annually in 5 years



ICT

· Cognitive Technologies

Big Data and Analytics

Geographic Information System

Machine Learning and Artificial Intelligence

National defense technologies – Secure and reliable communication

· Quantum computing

Space Exploration

Governance

svstems

Data Science

Space Technology Applications Roadmap





concerning space

Evaluate expansion of production for commercial export purposes and economic viability of a launch facility in Mindanao in collaboration with the government and the academe

· Develop initial pool of launching technology specialists through international scholarships and research programs

Legend

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vehicles, propulsion systems, AOCs)

Ongoing

Done

Target