

Remote Sensing & Telemetry in Malaysia

History & Future



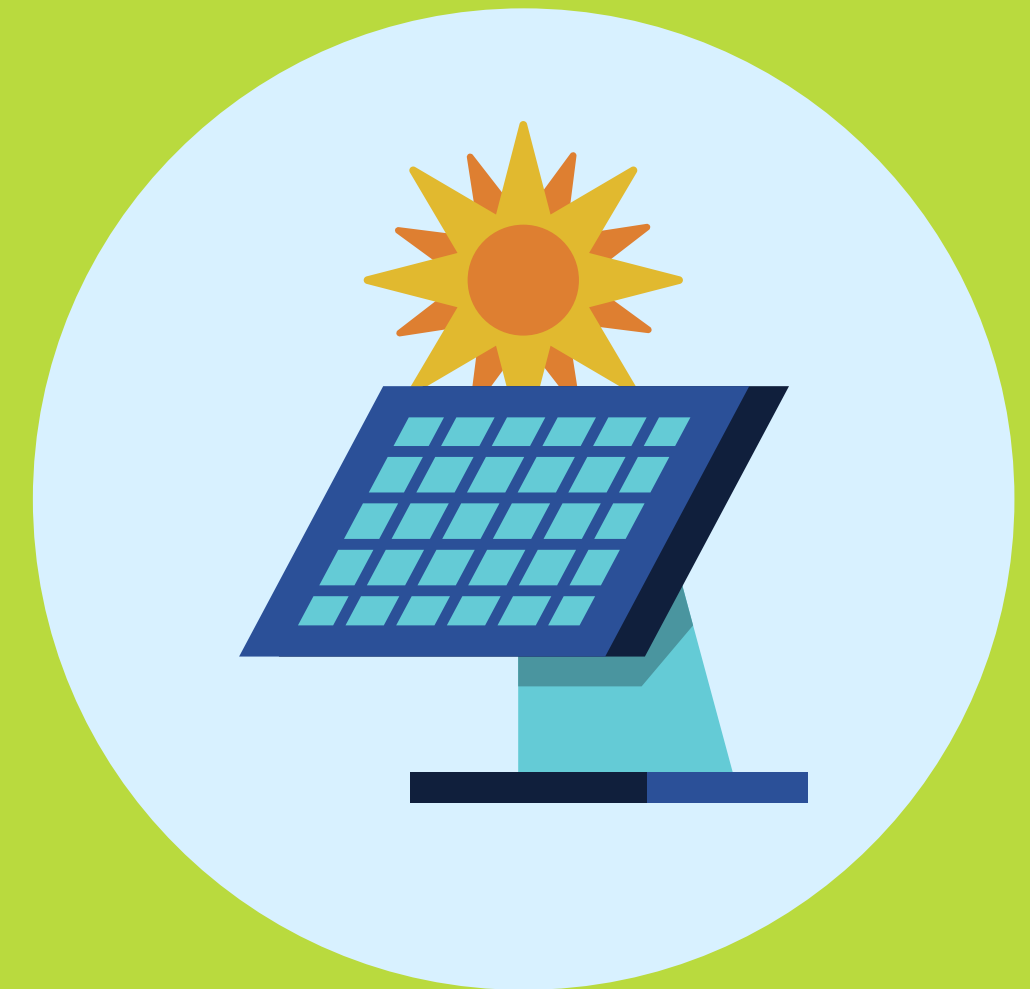


Remote Sensing in Malaysia

Remote Sensing activities in Malaysia are monitored by the Ministry of Science, Technology & Innovation (MOSTI) through the Malaysian Remote Sensing Agency (MRSA), a department under Malaysian Space Agency (MYSA). Generally, the telemetry of remote sensing is also a part of the remote sensing department in Malaysia.

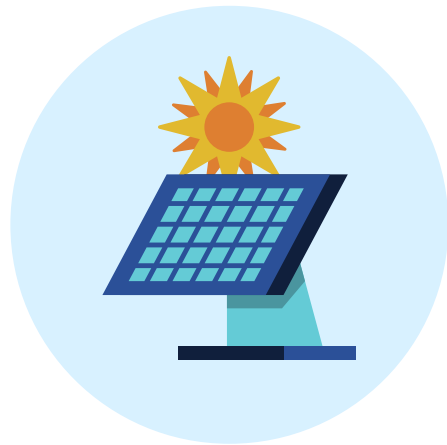
History

- Malaysia Centre of Remote Sensing (MACRES) was established in 1988
- R&D centre for remote sensing and related technologies
- Was upgraded to a full government department in 2008 known as MRSA
- Currently have over 226 professionals in remote sensing and telemetry
- Facilities included:
 - Satellite data image processing computer system
 - satellite ground system (RTS)
 - Microwave remote sensing laboratory
 - remote sensing photographic laboratory



Services Offered

MRSA offers satellite remote sensing data for:



- Non-restricted satellite imaging for image resolution of more than 5m



- Restricted remote sensing satellite images (resolution under 5m)



- Free satellite images under the category of research and education

Past Missions

Public services done
by MRSA





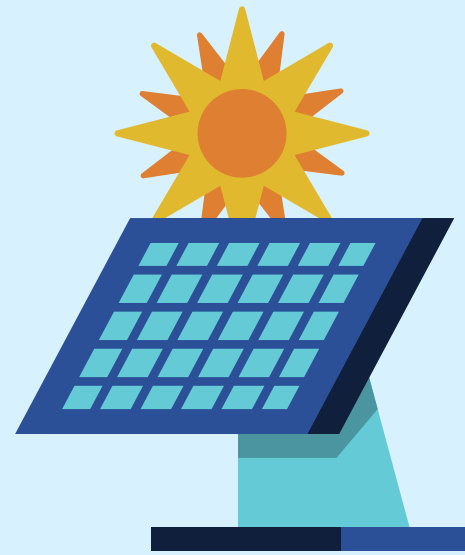
Satellite Mission

MYSA and Malaysian private space agency have created and have successfully launched 9 satellites from 1996 until the recent Innosat in 2018.

Geothermal Energy

MYSA with the use of multispectral satellite imaging has spotted multiple natural geothermal spots in Malaysia unknown to locals with the assistance of JMG Malaysia. This spot is targeted to be develop into tourist spots.





i-Dengue portal

With advanced image processing and satellite imaging, MYSA has successfully reduced 60% of dengue clusters in Malaysia while also significantly reducing the cost needed to keep the clusters under control by having precise locations of the clusters

Environmental Health Monitoring

With the collaboration with local state authorities, MYSA has successfully exposed the locations of toxic wasteland, illegal waste dumping sites, possible land slope areas, and illegal deforestation activities.





Future of Remote Sensing in Malaysia

2024 REMOTE SENSING SATELLITE LAUNCH

Vice-minister of MOSTI, Datuk Ahmad Amzad said that Malaysia will be launching a remote sensing satellite specifically for monitoring the Malaysian area in 2024.

The satellite will have an almost similar mission as the RazakSat that already stop its service in 2011. This satellite is expected to be used specifically for R&D purposes and not for media broadcasting.

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Malaysia bakal lancar satelit 'remote sensing' dua tahun lagi

|| 16 April 2022



Ahmad Amzad

ANAL - Kerajaan dijangka melancarkan satelit

NATIONAL SPACE POLICY

With the passed new laws policy (RUU) and space Acts (ACT 834), the potential for future Malaysian space activities and remote sensing just open up new possibilities. With the help of united nations office for outer space affairs(UNOOSA) , there are already many private space companies started to laid out plans for future of Malaysia through remote sensing and satellite imaging.



MALAYSIA SPACE- X 2030 TREATERY

Malaysia is expected to launch Malaysia Space Exploration 2030 Programme. Being the first space exploration programme for this country, this programme is expected to become an important frontier to the Malaysian economy.



The End



Citation:

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