Fifteenth Meeting of the International Committee on Global Navigation Satellite Systems (ICG-15 2021) 27 September – 1 October 2021



MALAYSIAN SPACE AGENCY MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION

MALAYSIA'S GNSS INITIATIVES

Azlikamil Napiah

Director General Malaysian Space Agency (MYSA) Ministry of Science, Technology and Innovation (MOSTI)

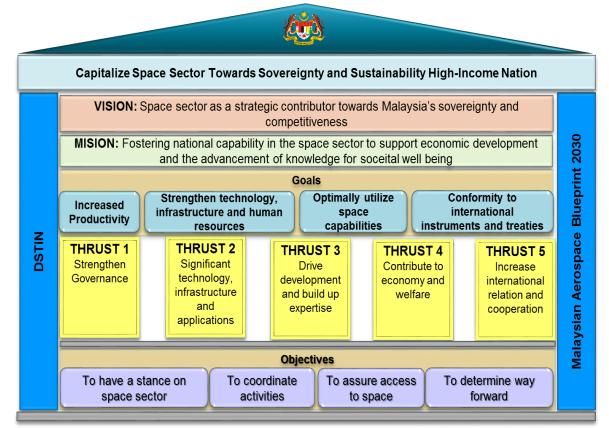
MALAYSIA SPACE SECTOR GOVERNANCE

MISSION

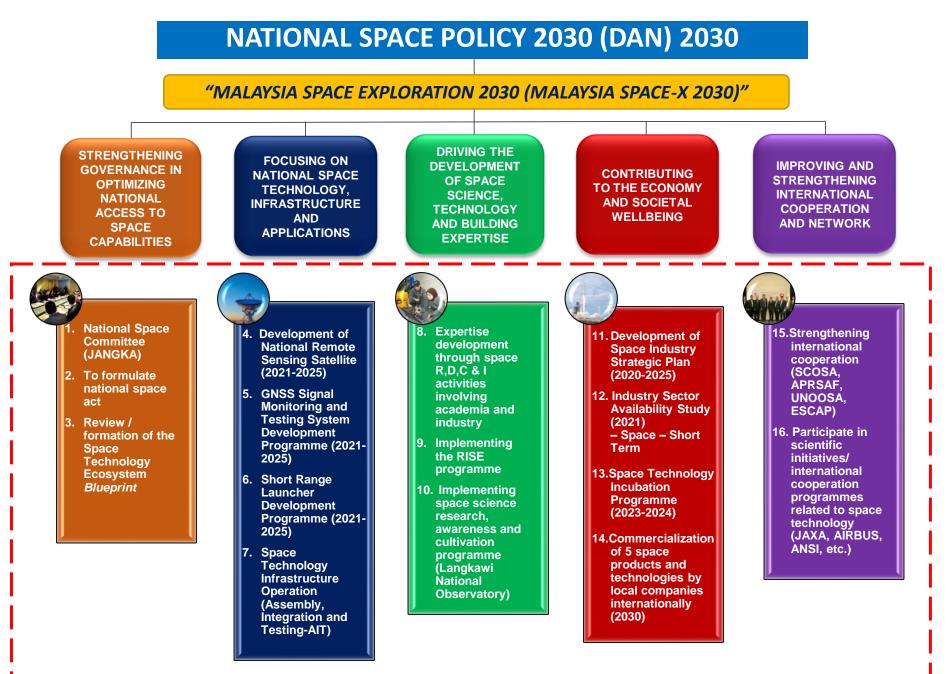
To develop the capabilities of the country's space sector to contribute the economic growth, sustainable development, knowledge generation, national sovereignty and the well-being of the people.

MALAYSIAN SPACE AGENCY (MYSA)

In Dec 2019, the Government of Malaysia had approved the formation of MYSA through the merging of National Space Agency (ANGKASA) and Malaysian Remote Sensing Agency (MRSA).



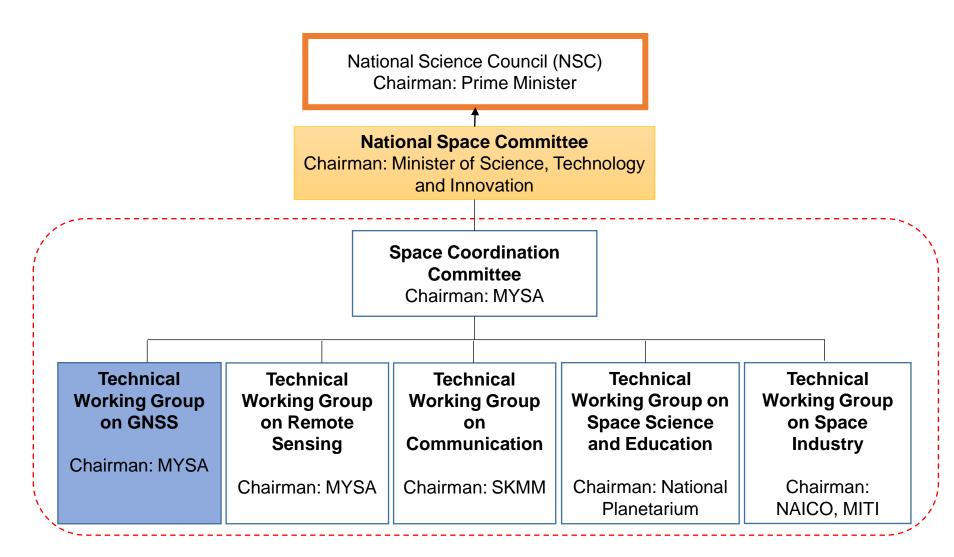
STRUCTURE OF NATIONAL SPACE POLICY 2030



STRATEGIC ACTIVITIES/INITIATIVES WHICH ARE AND WILL BE IMPLEMENTED UNTIL 2030

NATIONAL SPACE COMMITTEE

A Centralized Coordination at national level involving representatives from various ministries in order to enhance space governance.



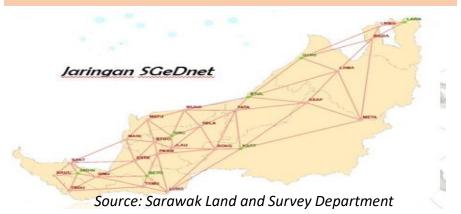
NATIONAL GNSS INFRASTRUCTURES

MyRTKnet (JUPEM) 97 CORS stations as of 2021



Source: https://www.myrtknet.gov.my/sbc

SGeDNet (Sarawak Land & Survey) 21 CORS stations as of 2021



SISPELSAT (Marine Department) 6 stations as of 2021

GBAS (Civil Aviation Authority Malaysia, CAAM)



LOCATION OF GBAS KLIA

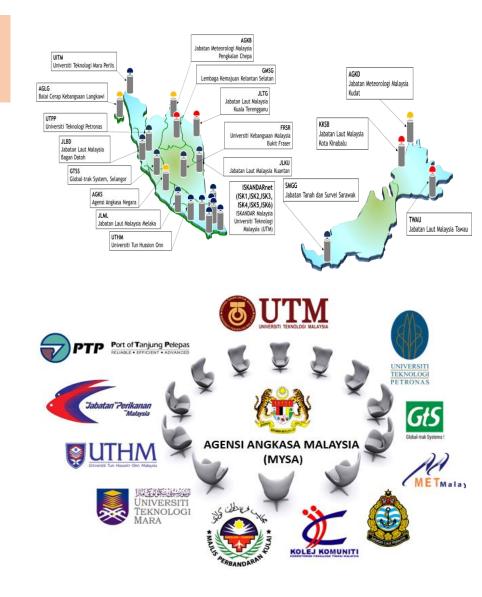
Source: https://aip.caam.gov.my/

NATIONAL GNSS INFRASTRUCTURES

R&D CORS Network

23 stations as of 2021

- A collaboration network
 between Government
 agencies, universities &
 industry.
- ii. Supports many research & academic activities and serve as a platform to develop space-based applications for the country.



SCIENTIFIC ACTIVITIES

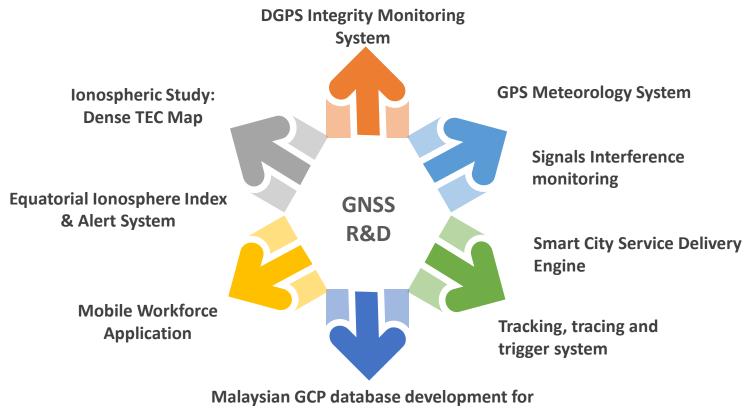
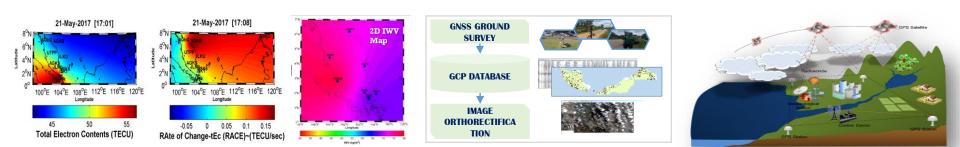


image orthorectification, accuracy assessment and reference point.



GNSS PROGRAMMES



WAY FORWARD



01

Enhancement of GNSS Positioning Infrastructure and services

- GNSS Data Centralization
- Satellite Signal Monitoring & Assessment System / Regional Monitoring station
- Satellite based Augmentation System (SBAS) payload & Control Centre

02

GNSS R&D and Widening local applications

- Development of high accuracy applications
- GNSS Vulnerability Mitigation / counter-spoofing technology development
- Alternate PNT technology for critical application.
- GNSS interference Detection and Testing Lab





GNSS Downstream Industry development

- Provide institutional support to encourage the development of the local GNSS downstream industries and start-ups to become more competitive in the global market.
- Support the Malaysia's digital economy initiative

Thank you

