





MATA

KEEPING AN EYE TO THE FINAL FRONTIER





OBJECTIVES

To keep track with the on-going missions and avoid simultaneous launching of satellites;

To keep an eye on and guard against the possible “foreign” satellites that might be a threat to mankind; and

To escort detected “foreign” satellites through launching nanosatellites to observe their activity.





IMPORTANCE



Treaties regarding space exploration has not been created and this may lead to disputes between countries. Since space is considered to be the final frontier, powerful countries have taken great interest into it which may be a good and a bad thing.





KEY FEATURES



Optical Payloads:

Will be used to capture images that will be sent to the Earth as updates from time-to-time.

Electro-optical Payloads:

Will be used to locate explosives, survey "foreign" satellites, and learn its whereabouts while operating at a safe distance.

Built-in CubeSat:

Will be used to launch one of its nanosatellites to follow the said satellite and observe its activities.

Columbus Automatic Identification System (COLAIS):

Will be used to detect locations of other satellites without the need for active astronaut support.



REFERENCES



https://www.esa.int/Enabling_Support/Space_Engineering_Technology/AIS_on_ISS

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