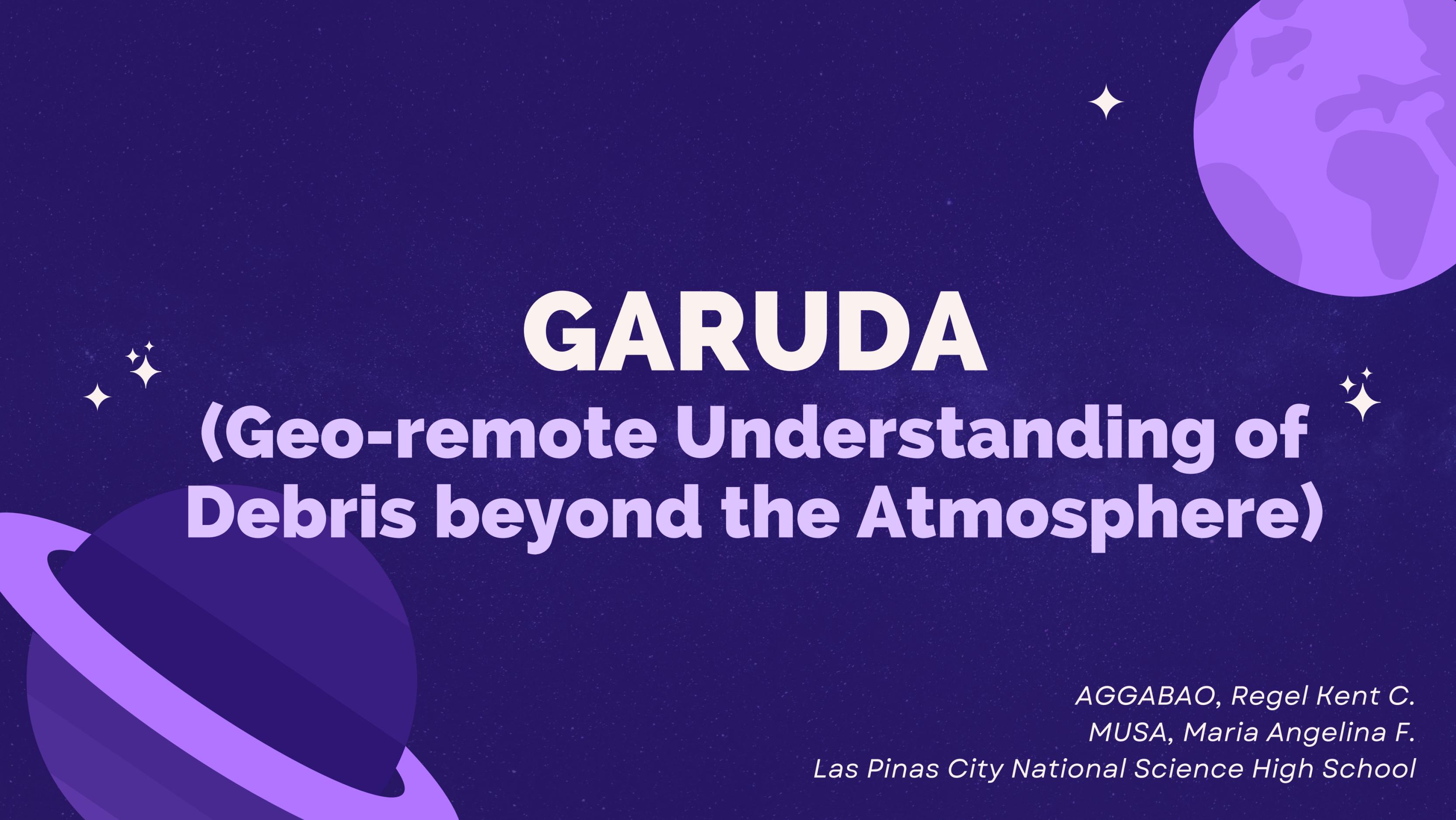


PROBLEM



Space Debris Surrounding Earth
Photo Credits: European Space Agency



GARUDA

**(Geo-remote Understanding of
Debris beyond the Atmosphere)**

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BACKGROUND

The Garuda is represented as an eagle across different mythologies in the country. It is believed to be observant of creatures that travel by its tree. Our mission proposal revolves around the same idea of a Garuda -- as a guardian of its domain (Earth) by observing the behaviors of space debris.



*Samar, E.C., Galag, J.C., (2019)
Mga Nilalang na Kagila-gilalas*





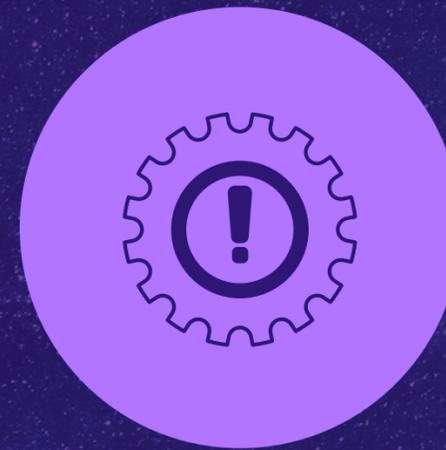
OBJECTIVES



mitigate
proliferating space
debris



identify space
debris' effects to
ensure space safety



avoid larger space
problems in the
future



monitor the Earth's
magnetic field to
assess its behavior



IMPORTANCE



space debris
monitoring for space
safety and national
security



data comparison of
natural vs artificial
ring systems



record info of space
debris affecting
Earth's climate



KEY FEATURES



Automatic Identification System (AIS)

safety of navigation and tracking of location



Automatic Packet Reporting System Message Digipeater (APRS-DP)

communicating and transmitting important data in real-time



Optical Payloads

capturing images of space debris for further observation and interpretation



Anisotropic Magnetoresistance Sensor

magnetic field measurement and monitoring



**THANK YOU FOR
LISTENING!!!**