

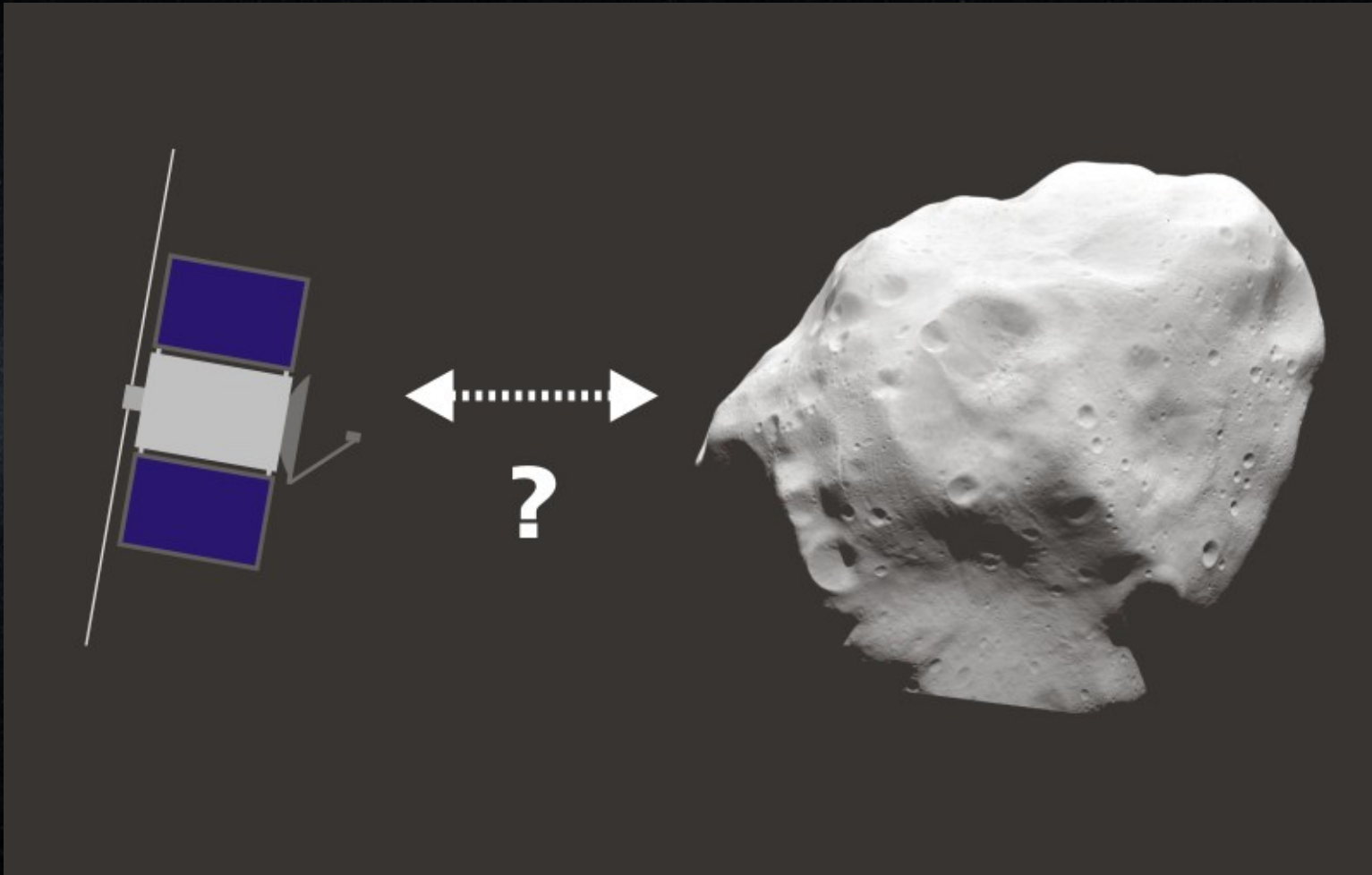
# MOTHERSHIP

If you could go anywhere ... would you?

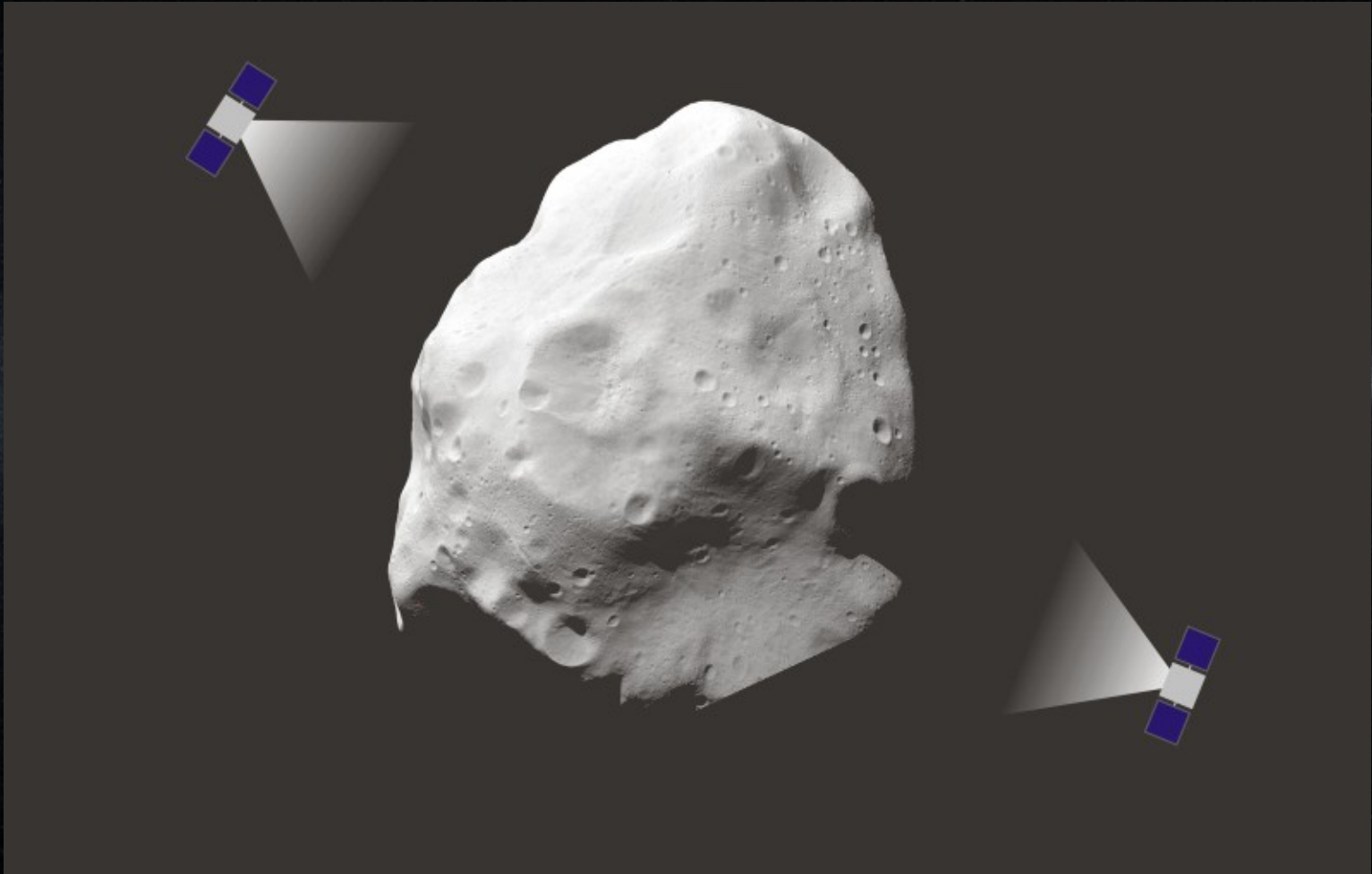
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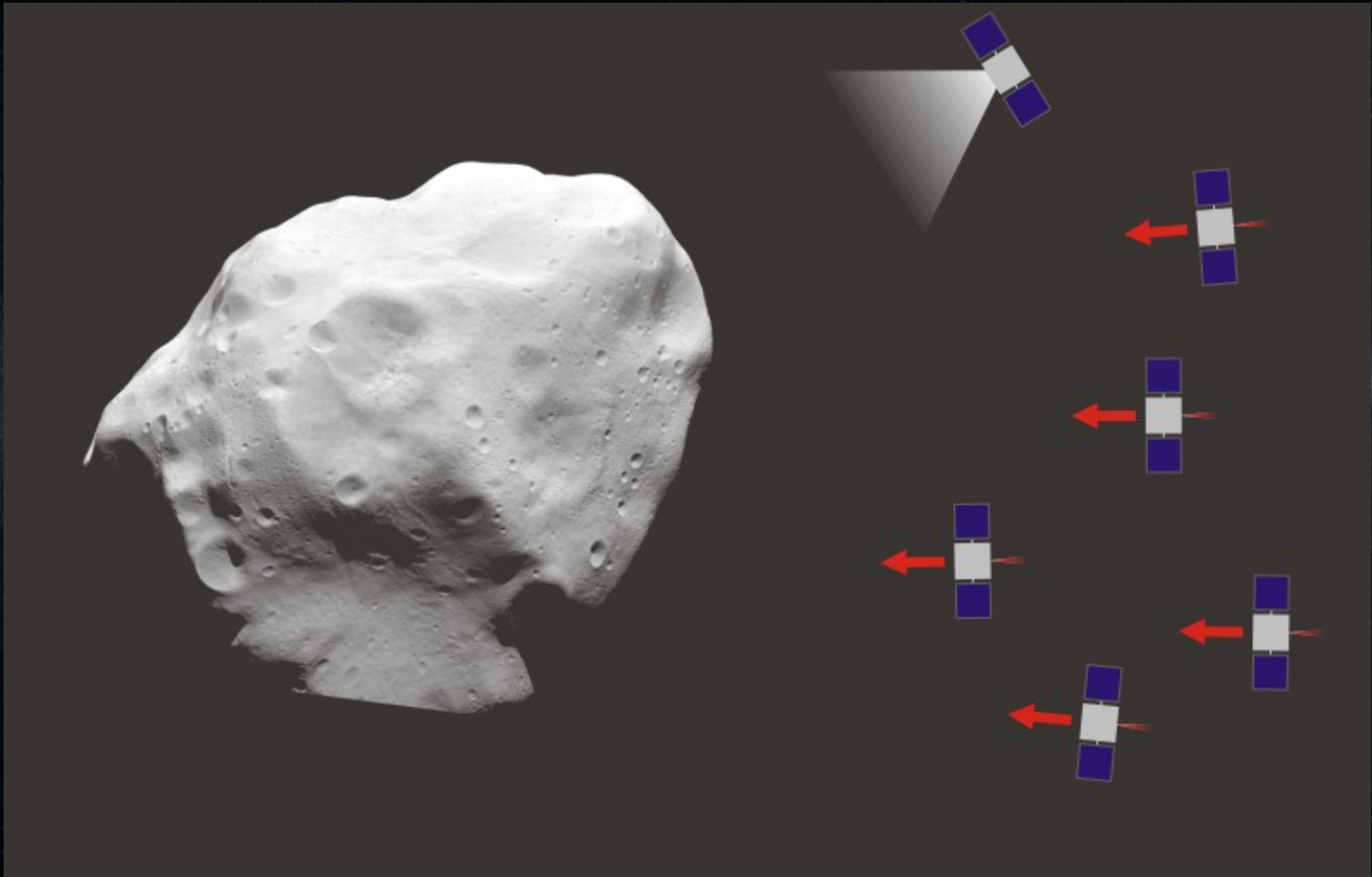
# One single (large) Spacecraft?



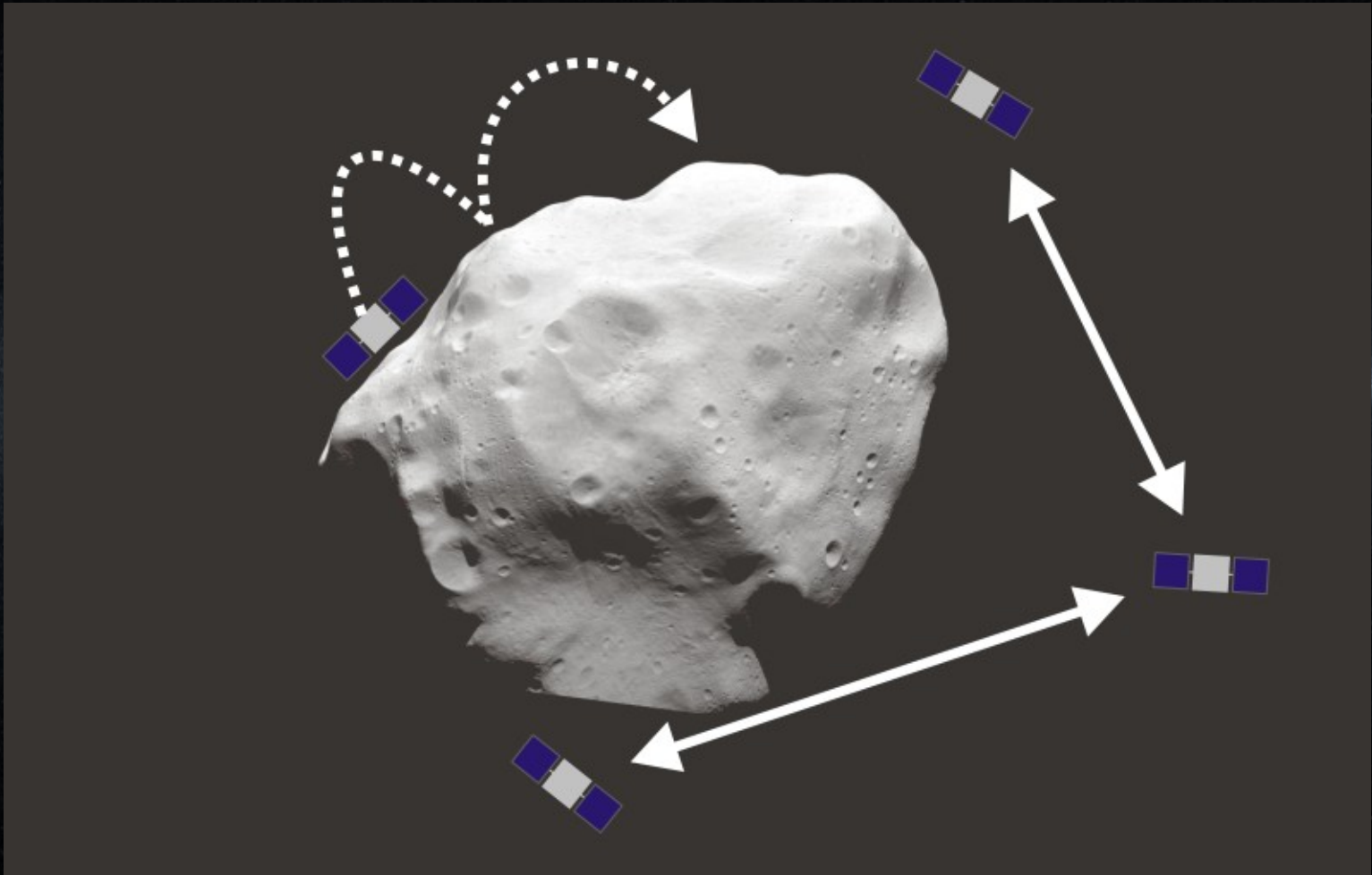
# Simultaneous: Day & Night Side?



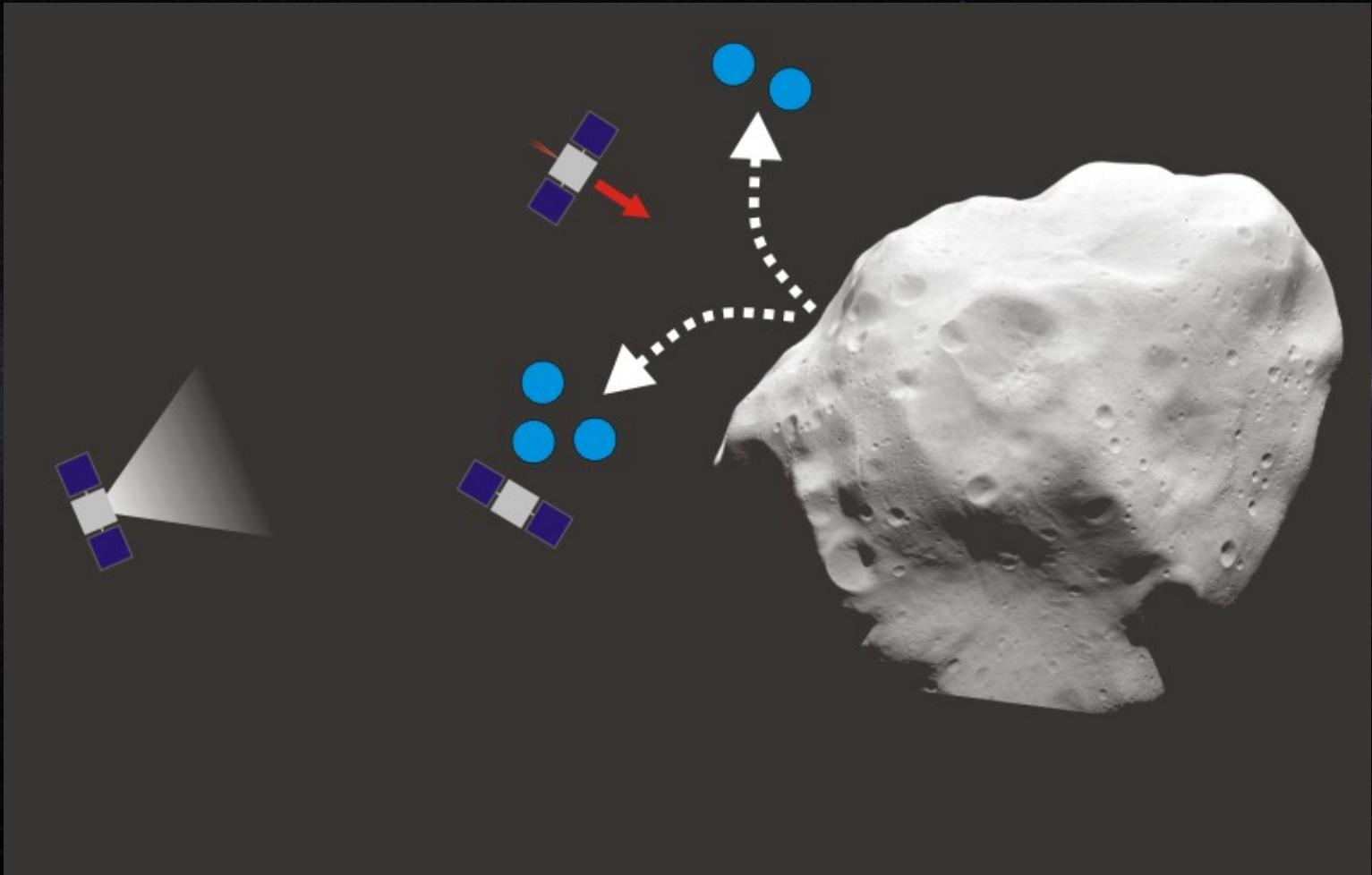
# Planetary Defense?



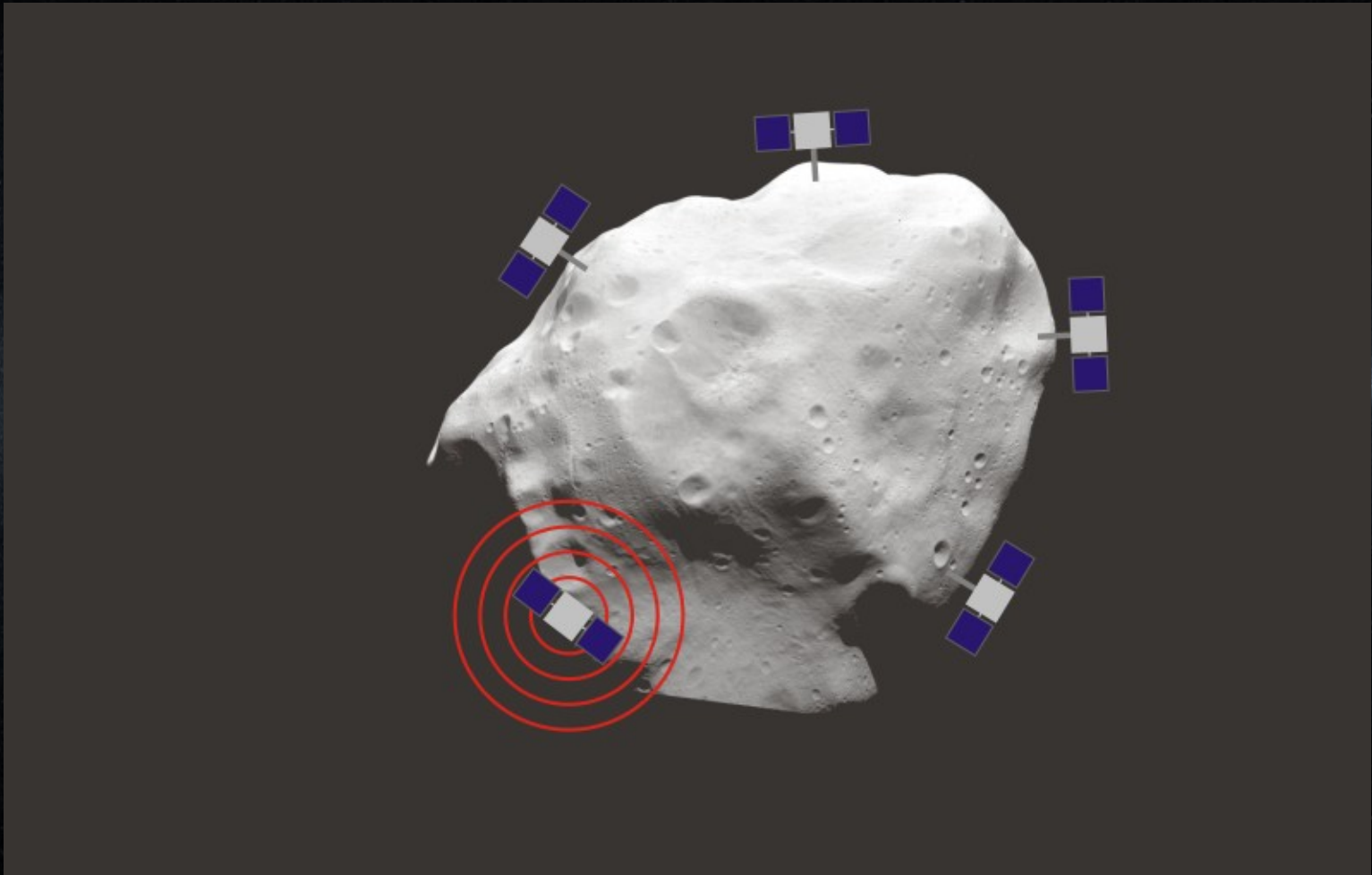
# Intersatellite Ranging / Gravimetry



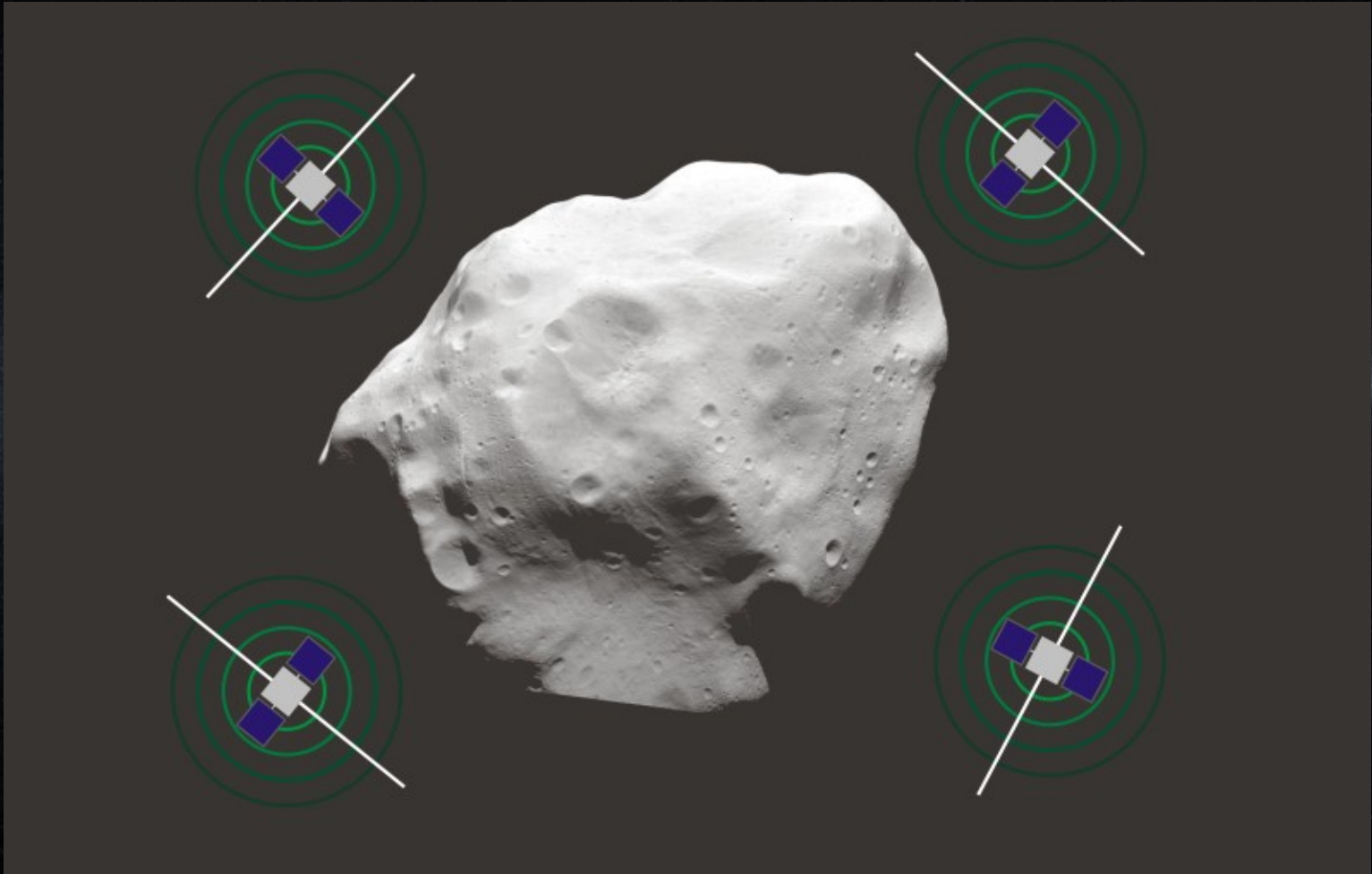
# Impact / Excavation Experiments?



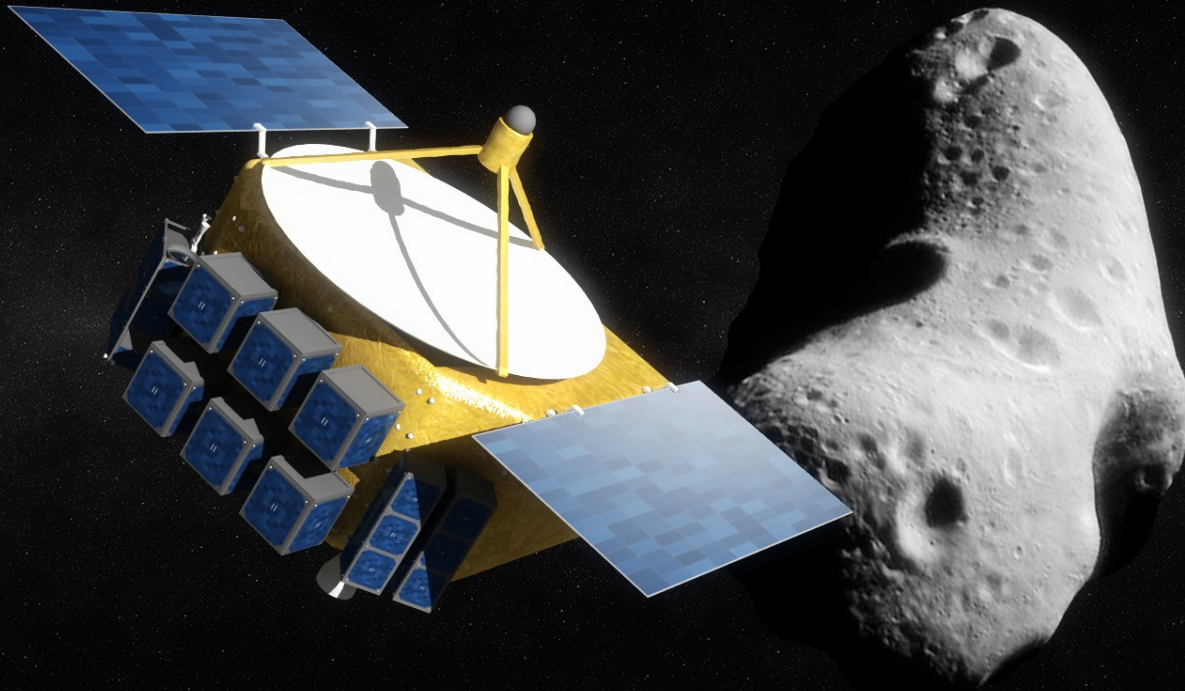
# Seismic Tomography?



# Radar Tomography?





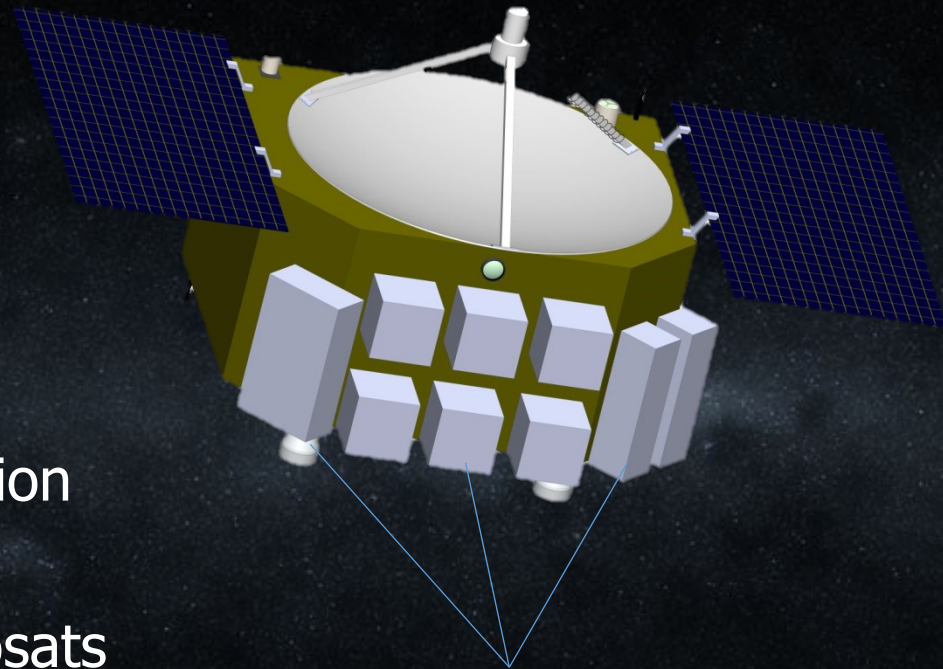


# Mothership Program

- Microsat carrier-craft, hosting 36 kg of nanosats to deep space targets for scientific and commercial payloads
  - Near Earth Asteroids
  - Moon
  - Comets
  - Mars, Phobos, Deimos, Venus, etc.
- Provides:
  - Delivery
  - Radiation Protection
  - High Data Rate Communication with Earth

# The Spacecraft

- 0.95 m High Gain Antenna
- X-Band Transponder
- 150 W at 1.5 AU
- S-Band cross-link
- Power, Data, and Rad protection to nanosats during cruise
- 36 kilograms of payload/nanosats
- Optical Navigation
- Chemical Propulsion



Your Nanosats  
Here!

# First Launch

Planned Date: Q1 2018

Total Payload Mass Available: 36 kg

Total Payload Volume Available: 36 liters +

Payload Size: from 1U to Custom Sizes

Pricing: ~\$2.5 Million/kg

Initial Orbit: LEO or GTO

First Mission Target: Asteroid (TBD)

Delivery Options: Impact, Surface, Orbit/Rendezvous,  
& En Route

# Opportunities

- Customers
- CubeSat/Nanosat Developers
- Commercial and Academic Partners
- Launch Partners

# MOTHERSHIP

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