

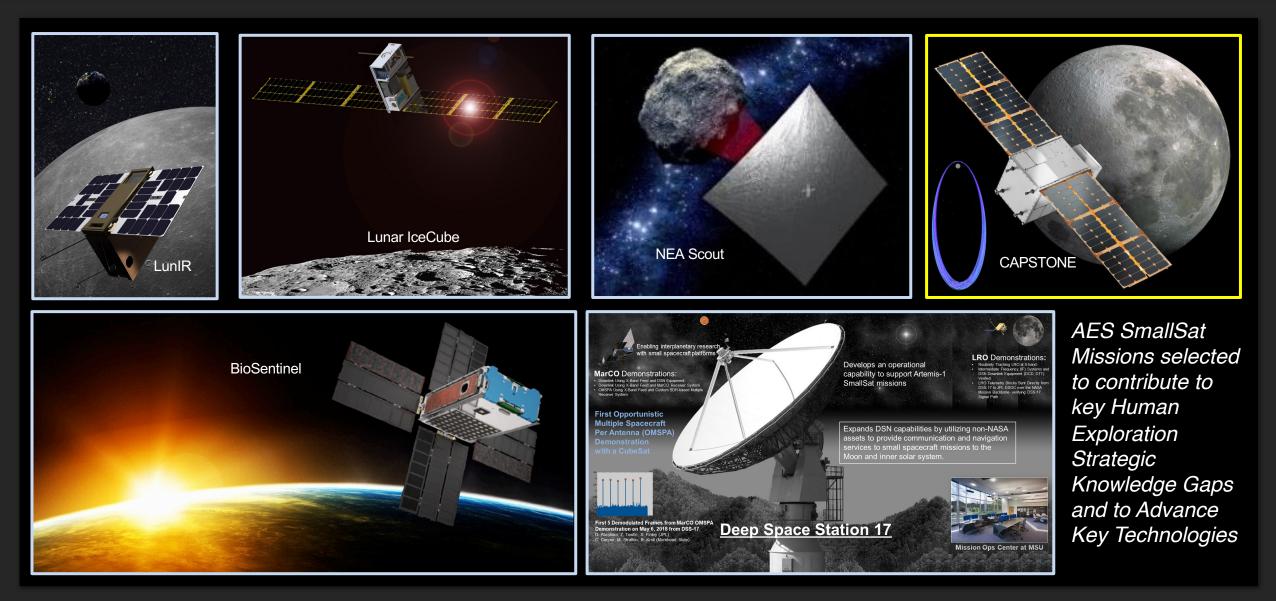
Advanced Exploration Systems (AES) Small Spacecraft Missions

NASA Town Hall at the 2021 Small Satellite Conference

Andres Martinez, Program Executive, Small Spacecrafts August 9, 2021

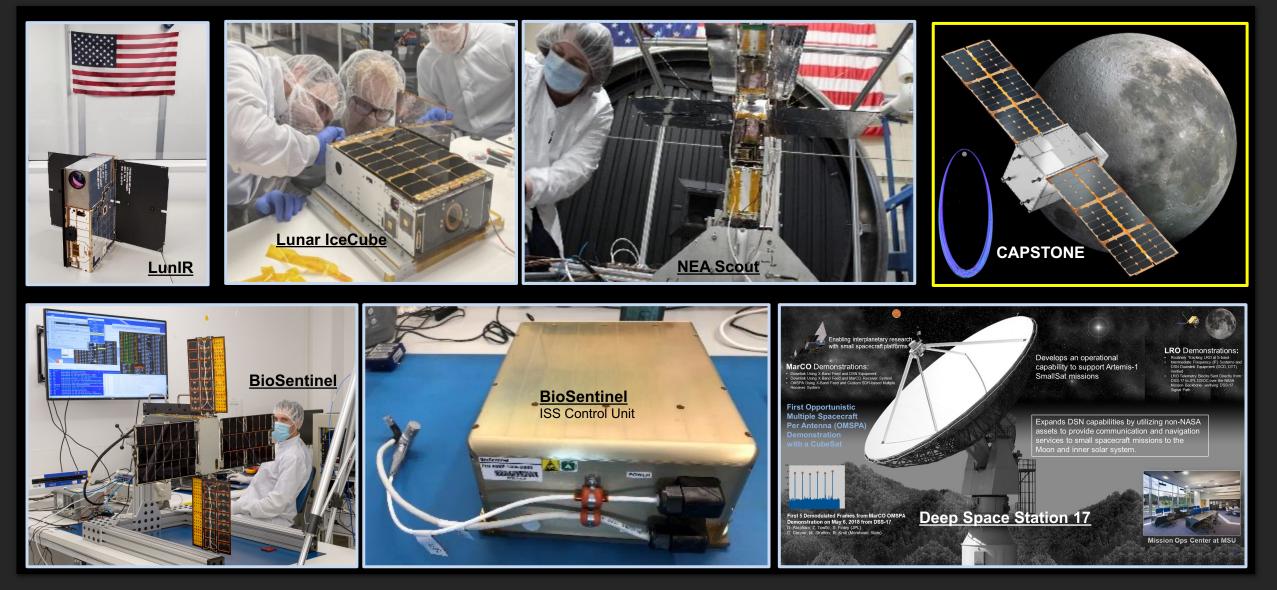
AES SmallSats Supporting Artemis





AES SmallSats Supporting Artemis







Internal Solicitation Process - Engage NASA Centers through assigned AES POCs

- Exploration Capabilities Research and Development projects assigned and competed
 - Project Polaris is a new initiative to help our people meet the difficult challenges of sending humans to the Moon and Mars.
 - Project Polaris will create opportunities for our people to strengthen their skills, to gain hands-on experience, and to learn.
 - Project Polaris is focused on filling high-priority capability gaps and on infusing new technologies into human exploration flight programs.
 - Project Polaris builds and tests small flight experiments and conducts other risk reduction activities to rapidly mature critical technologies.
 - Project Polaris consists of small teams of mostly early career employees.
 - Project Polaris encourages leap ahead innovation and collaboration to accelerate technology development.

External Solicitation Process

• Next Space Technologies for Exploration Partnerships - NextSTEP

Priorities - HEOMD-405 Guidance

- Human Exploration and Operations Mission Directorate (HEOMD) Integrated Exploration Capabilities Gap List (HEOMD-405) represents the official set of approved capability gaps and gap-element mappings.
- The gap prioritization listed in HEOMD-405 should be used by HEOMD Programs when planning exploration-forward investments.

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Thank you