Lunar Resource Characterization mission(s?)

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Theme D--Partnerships
Lunar Advanced Radar Orbiter for Subsurface Sounding (LAROSS): Lava Tube Exploration Mission
The LAROSS flight system is based on the Ball BCP-100 spacecraft with flight heritage.
LAROSS will explore our candidate lava tubes, as well as the rest of the lunar mare for open caves.

LAROSS leverages the GRAIL low-energy lunar transfer trajectory design to minimize mission DV.

The 90-day science mission in a polar orbit allows detailed observations of candidate lava tubes.
Startup companies are already planning to mine the Moon and asteroids and may offer partnerships

- Planetary Resources: The asteroid mining company
- Deep Space Industries: Space resources for an unlimited future
- Kepler Energy and Space Engineering
- Infinite Space Dynamics
- Blue Origin
- Space X
- Bigelow Aerospace
- Etc, etc.
New industries and other nations’ space programs offer new opportunities—and partnerships