

# NASA's Lander Technologies Project

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# Encourage development of robotic lunar landers

## Lunar Cargo Transportation and Landing by Soft Touchdown

- Can be integrated with US Commercial launch capabilities
- Deliver payloads to lunar surface
- International Partnerships

Lunar CATALYST



**Encouraging  
development  
of robotic  
landers for  
lunar surface  
payload  
delivery**

- **Astrobotic Technology**
- **Masten Space Systems**
- **Moon Express**

**Lunar CATALYST Partners**

# Peregrine Lander



- 35 kg payload mass capacity
- 10 payload delivery contracts in place for the first mission to the moon

Astrobotic Technologies



# XL and XEUS Family Concepts

- XL-1: 100-kg payload capacity
- Production Xeus: 10 tonnes estimated payload capacity when using the expendable version or 5 tonnes payload when using the reusable version.



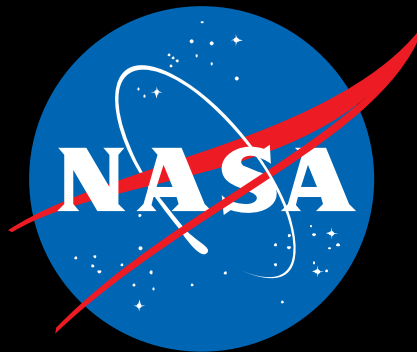
Masten Space Systems

# MX-1E



- First vehicle planned to launch on the Rocket Lab Electron rocket
- Long term goal of developing lunar resources

Moon Express



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