FEDERAL SPACE AGENCY OF RUSSIAN FEDERATION LAVOCHKIN ASSOCIATION

ROBOTIC LUNAR EXPLORATION PROGRAM



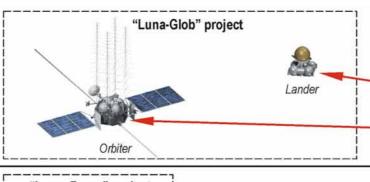
November, 2006





1-st phase:

Lunar internal structure exploration and lunar natural resources reconnaissance within the framework of orbital and landing missions



2-nd phase:

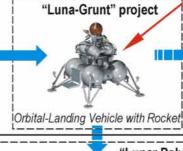
In-situ researches along the lunar rover movement route, samples collection and analysis



with Rover

3-rd phase:

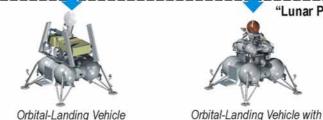
Lunar samples (collected by rover) return

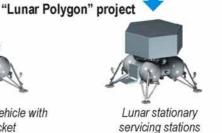


Return Rocket

4-th phase:

Creation on the Moon surface of a scientific-research base for development of principal methods for the Moon soil processing, delivery of the received samples and materials to the Earth and also for carrying out of a wide spectrum of scientific researches





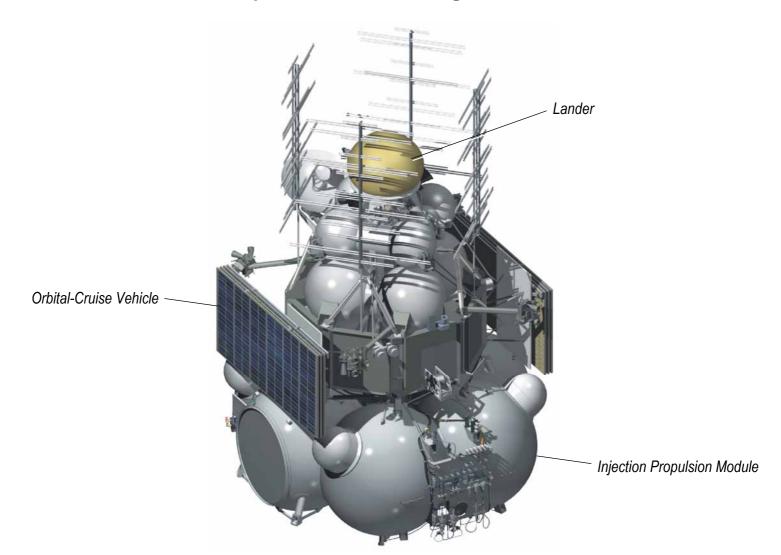


"Phobos-Grunt" SC





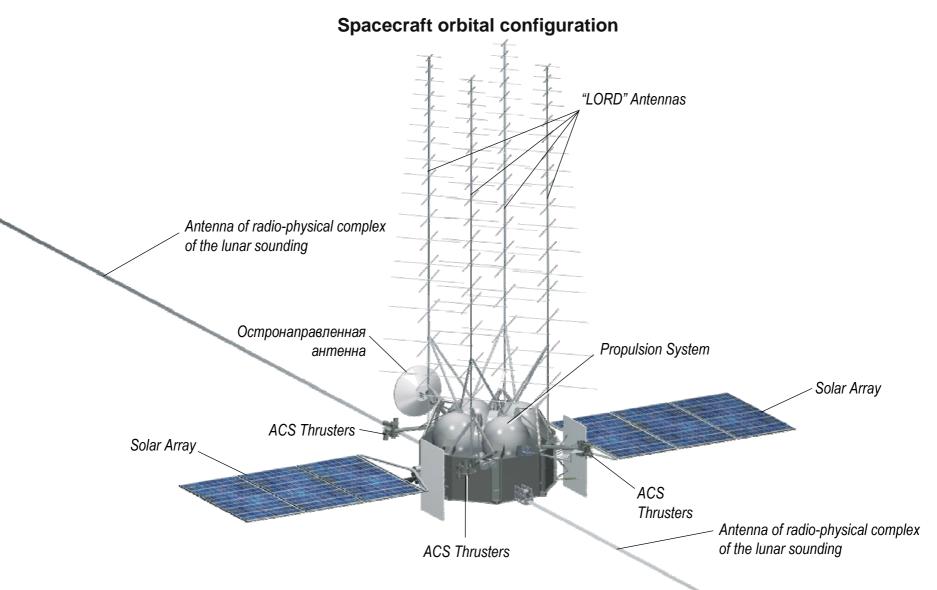
"LUNA-GLOB" PROJECT Spacecraft launch configuration







"LUNA-GLOB" PROJECT

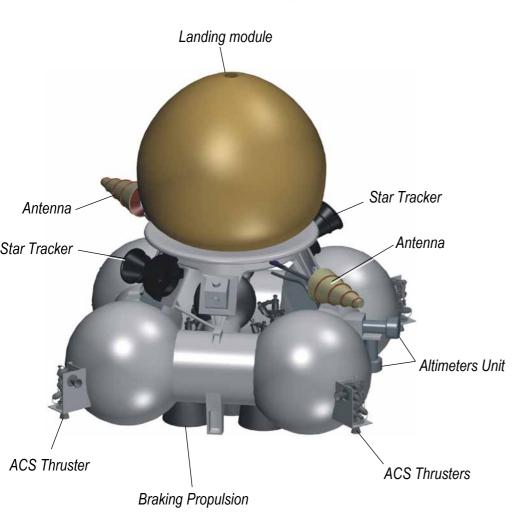




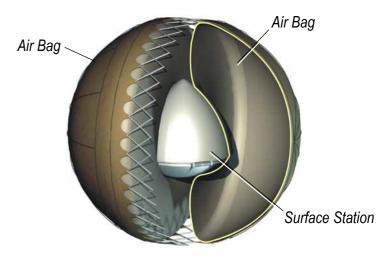


"LUNA-GLOB" PROJECT

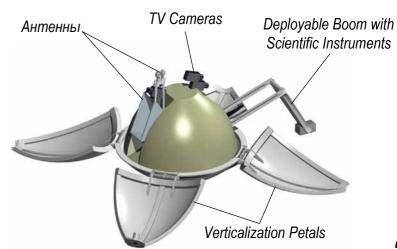
Lander launch configuration



Lander landing configuration

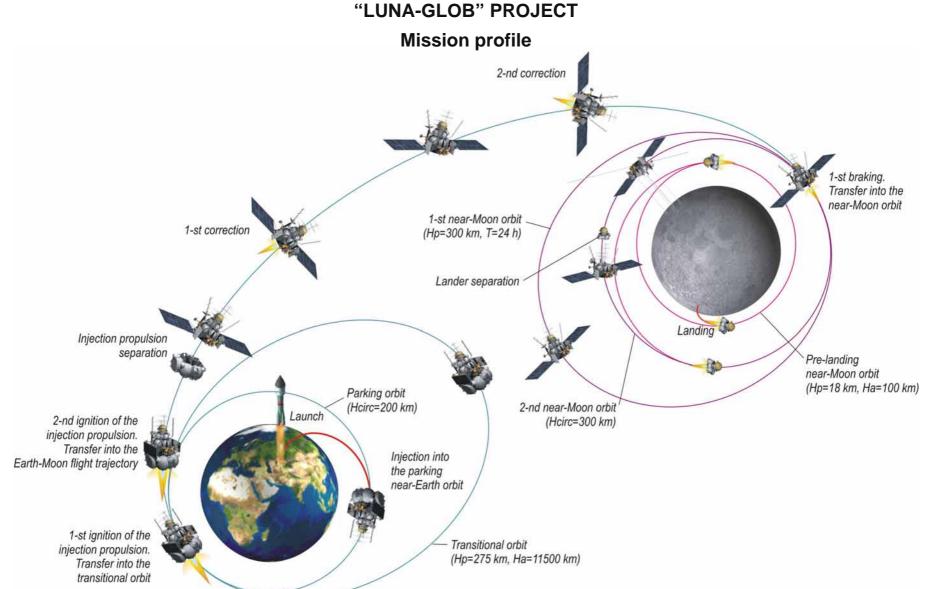


Lander surface configuration





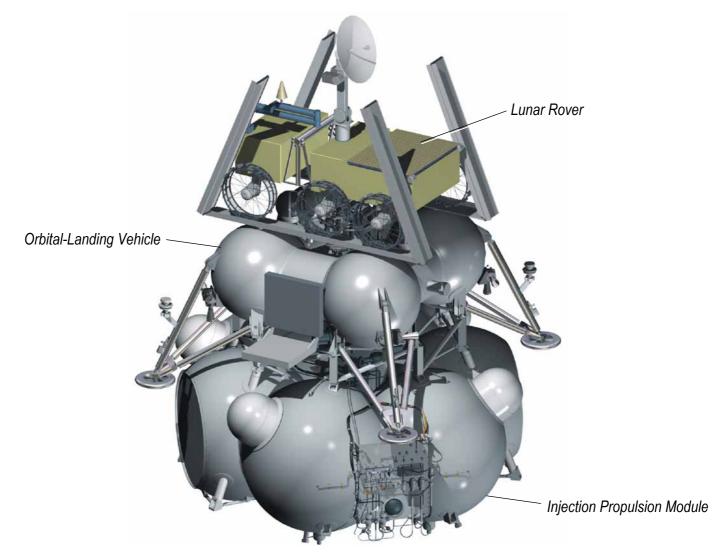








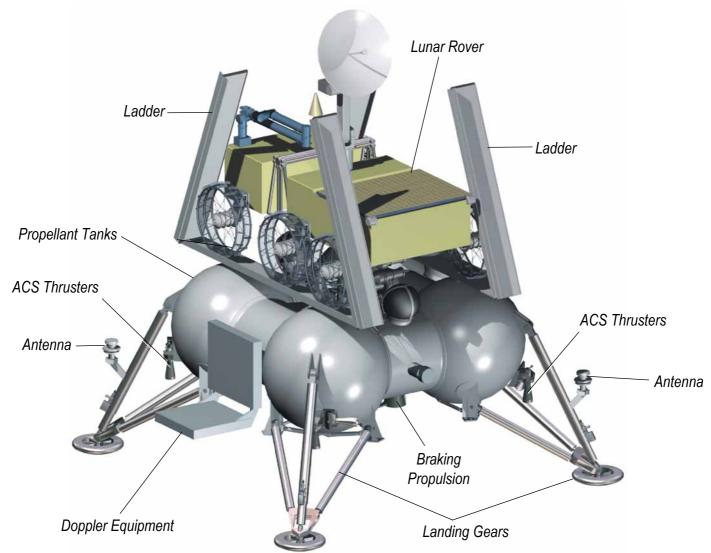
"LUNAR ROVER" PROJECT Spacecraft launch configuration







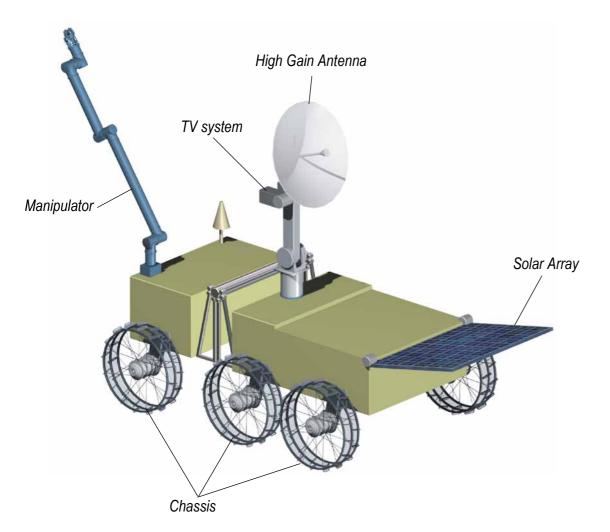
"LUNAR ROVER" PROJECT Spacecraft landing configuration







"LUNAR ROVER" PROJECT Lunar Rover

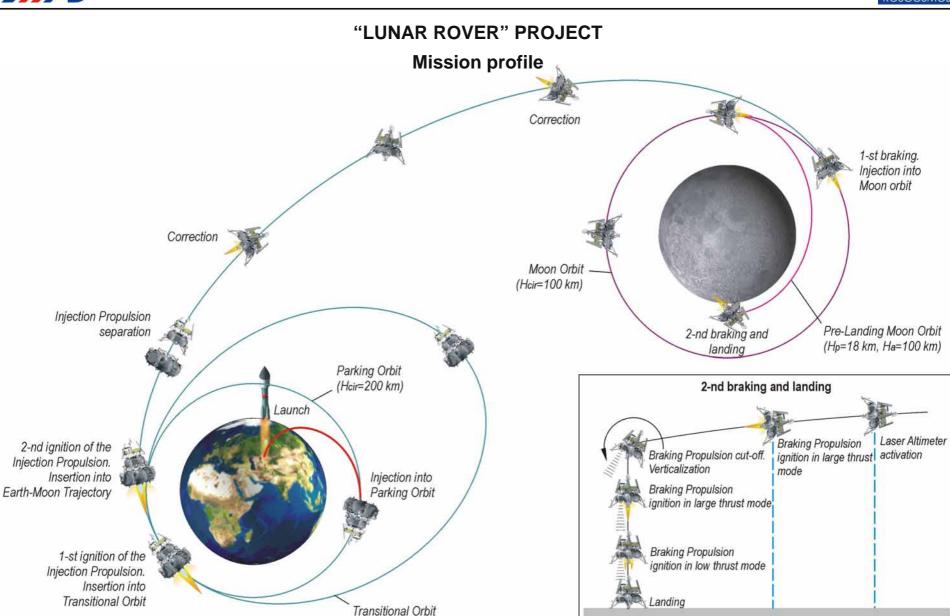










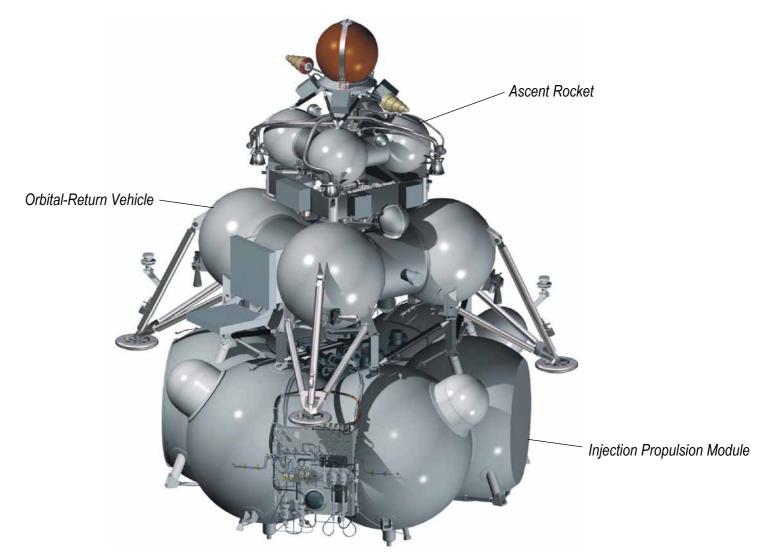


(Hp=275 km, Ha=11500 km)





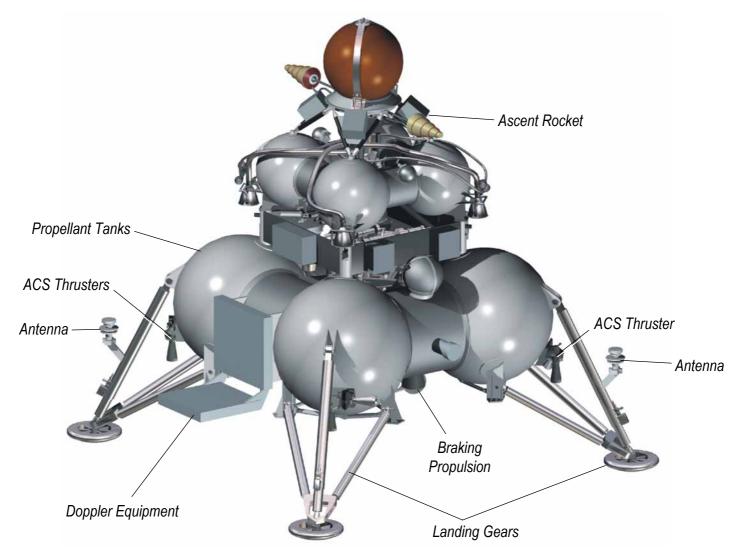
"LUNA-GRUNT" PROJECT Spacecraft launch configuration







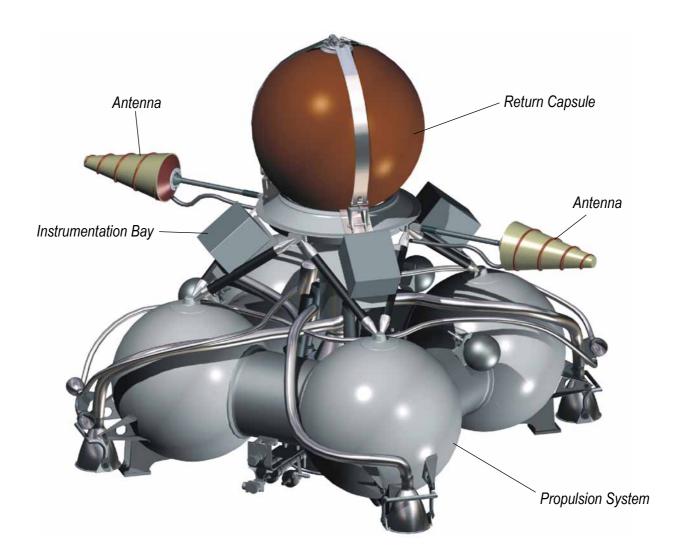
"LUNA-GRUNT" PROJECT Spacecraft landing configuration





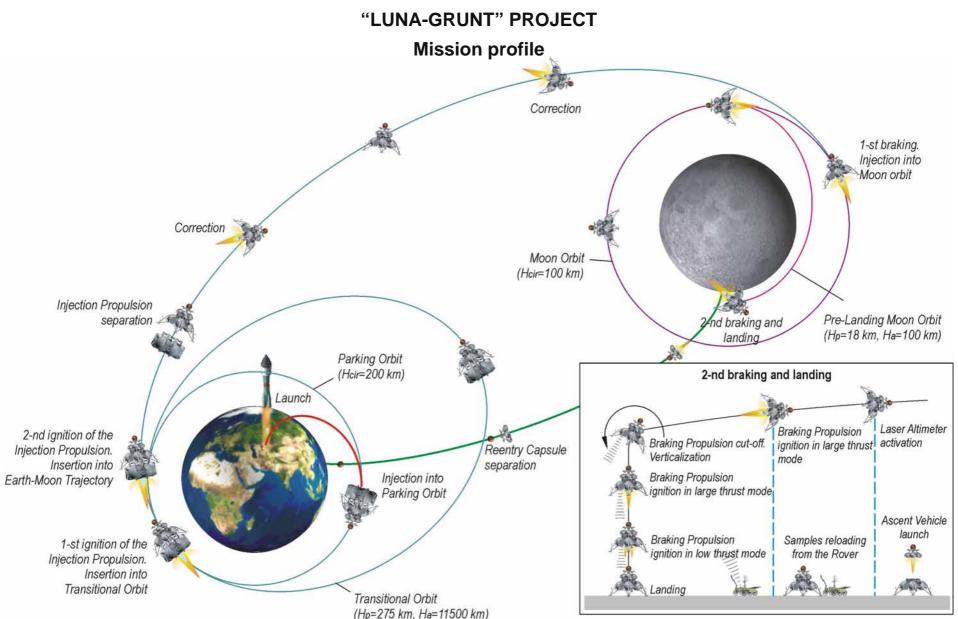


"LUNA-GRUNT" PROJECT Ascent/ Return Rocket





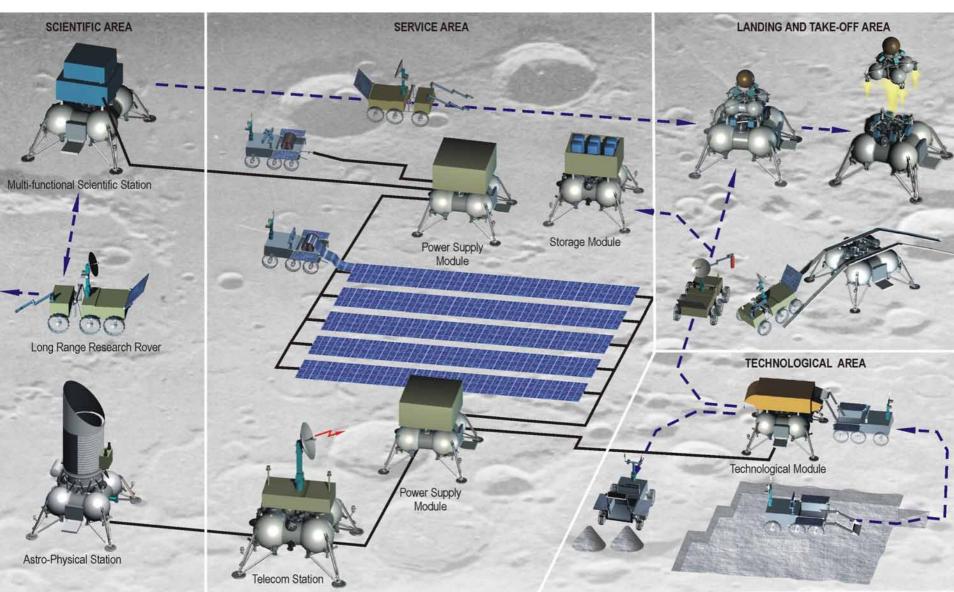








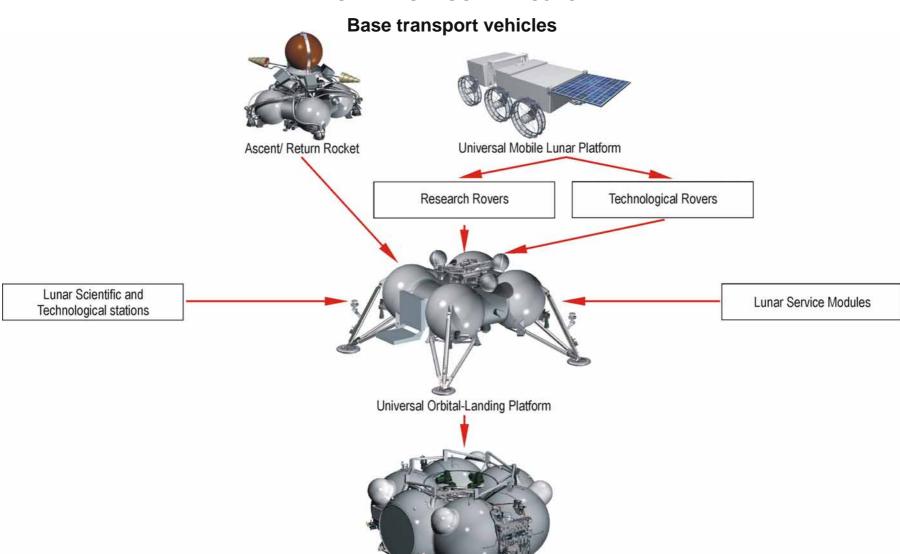
"LUNAR POLYGON" PROJECT







"LUNAR POLYGON" PROJECT

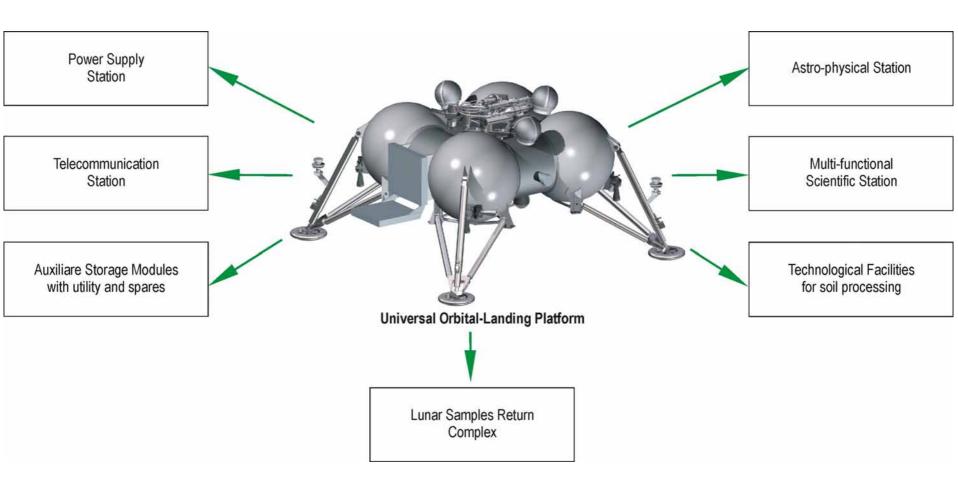


Injection Propulsion Module





"LUNAR POLYGON" PROJECT Stationary modules







"LUNAR POLYGON" PROJECT

