

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

The President's 2009 Budget will:

- Build rockets and spacecraft that will enable us to explore the solar system;
- Continue the assembly of the International Space Station, and encourage the development of commercial services that will provide transportation to the Station; and
- Expand the frontiers of knowledge in Earth and space science and aeronautics.

Exploring the Solar System with Human and Robotic Spacecraft

- *Designs new human spaceflight vehicles.* New vehicles will extend human presence to the Moon and beyond.
 - \$1 billion for the Orion Crew Exploration Vehicle, a new piloted spacecraft that will allow astronauts to land anywhere on the Moon, support a lunar outpost, and eventually support human expeditions to Mars.
 - \$1 billion for the Ares I Crew Launch Vehicle, a new rocket that will launch Orion.
- *Launches robotic spacecraft.* Robotic spacecraft will further explore the solar system.
 - \$105 million to conduct a program of small lunar robotic missions and research.
 - \$1.3 billion to explore Mars and other destinations in the solar system.

Operating, Assembling, and Servicing the International Space Station

- *Operates the International Space Station.* \$2.1 billion for this multi-national, Earth-orbiting research facility that enables future exploration activities and meets the Nation's commitments to our international partners.
- *Continues to assemble the International Space Station.* \$3 billion to fly the Space Shuttle to complete the International Space Station, while keeping the Shuttle on the path to retirement by 2010.
- *Develops new commercial services.* \$173 million for successful demonstrations of private-sector services to transport cargo to the International Space Station, and \$2.6 billion over five years to purchase transportation services to the Station.

Expanding Frontiers of Knowledge in Aeronautics and Earth and Space Science

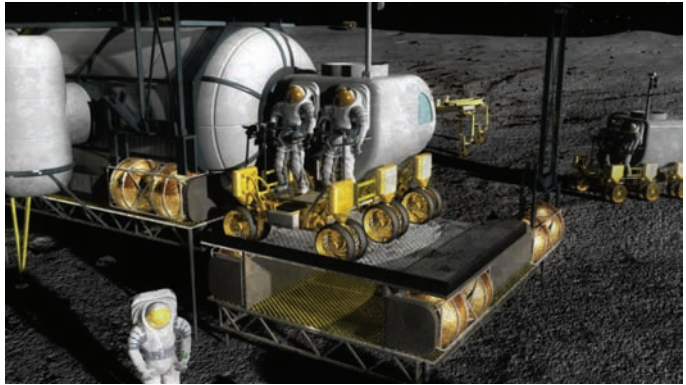
- *Promotes our understanding of the Earth.* \$1.4 billion—\$6.3 billion over five years—to embark on a series of high-priority, space-based Earth observation research missions that will advance understanding of the causes and consequences of changes to Earth’s climate, oceans, and land surfaces.
- *Pursues further research in space.* \$1.7 billion to conduct spaceflight missions and research to enhance understanding of the Sun and the universe.
- *Enables breakthrough aeronautics technologies.* \$447 million to enable cheaper, safer, cleaner, and more convenient air travel.

Major Savings and Reforms

- Reduces the New Millennium technology demonstration program by \$54 million due to its limited results, freeing funds for more effective efforts to develop satellite technology and scientific instruments.

Since 2001, NASA has:

- Advanced a bold, new vision for human and robotic exploration of the Moon, Mars, and beyond.
- Begun development of a new human spaceflight vehicle, called Orion, and a new rocket, the Ares I, to extend human exploration of the solar system.
- Continued assembly of the International Space Station, honoring the Nation’s commitments to our international partners.
- Prepared for the retirement of the Space Shuttle in 2010 after three decades of service and partnered with the private sector to develop commercial transportation to the International Space Station.
- Successfully initiated 33 robotic spacecraft missions to explore the solar system and universe and to improve understanding of our own planet.



Source: NASA

Illustration of a lunar outpost and lunar rover.

National Aeronautics and Space Administration

(Dollar amounts in millions)

	2007 Actual	Estimate	
		2008	2009
Spending			
Discretionary Budget Authority:			
Science.....	5,371	5,547	4,441
Exploration	3,457	3,821	3,500
Aeronautics.....	717	622	447
Education.....	140	177	116
Cross Agency Support programs	401	376	3,300
Space Operations.....	6,146	6,734	5,775
Inspector General.....	32	33	36
Cancellation of unobligated balances	—	—192	—
Total, Discretionary budget authority ¹	16,264	17,118	17,614
<i>Memorandum: Budget authority from enacted supplementals</i>	<i>20</i>	<i>—</i>	<i>—</i>
Total, Discretionary outlays	15,871	17,332	18,151
Total, Mandatory outlays	—10	—14	—14
Total, Outlays	15,861	17,318	18,137
	Number of Programs		2009 Savings
Major Savings, Discretionary			
Reductions	2		—136

¹ 2009 estimates reflect the transfer of funds for agency-wide support activities to Cross Agency Support from each of the other programs.