

NASA Budget Breakdown, FY08

Bruce Davis

NASA Budget

Outline:

- NASA Mission Statement
- Budget Breakdown
- Budget History
- Budget Future
- Congressional Updates

NASA Mission Statement

To pioneer the future in space exploration, scientific discovery, and aeronautics research.

NASA's Strategic Goals

Strategic Goal 1: Fly the Shuttle as safely as possible until its retirement, not later than 2010.

Strategic Goal 2: Complete the International Space Station in a manner consistent with NASA's International Partner commitments and the needs of human exploration.

Strategic Goal 3: Develop a balanced overall program of science, exploration, and aeronautics consistent with the redirection of the human spaceflight program to focus on exploration.

Strategic Goal 4: Bring a new Crew Exploration Vehicle into service as soon as possible after Shuttle retirement.

Strategic Goal 5: Encourage the pursuit of appropriate partnerships with the emerging commercial space sector.

Strategic Goal 6: Establish a lunar return program having the maximum possible utility for later missions to Mars and other destinations.

Overview – FY08 Budget Breakdown

Category	Percentage
Space Operations	39.2%
Science	31.9%
Exploration Systems	22.7%
Aeronautics Research	3.2%
Agency Support	2.8%
Inspector General	0.2%

NASA Budget: 17.3 Billion Dollars
National Budget: 2,650 Billion Dollars

Space Operations – 6.8 Billion ↑

Space Shuttle 59% →

Int. Space Station 33% ↑

Space and Flight Support 8% ↑

- Communications
- Launch Services
- Crew Health & Safety

Overview – FY08 Budget Breakdown

Category	Percentage
Space Operations	39.2%
Science	31.9%
Exploration Systems	22.7%
Aeronautics Research	3.2%
Agency Support	2.8%
Inspector General	0.2%

Science Directorate – 5.5 Billion →

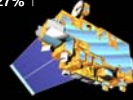
Astrophysics 28% →

- Hubble
- JWST
- Chandra
- Keck Telescope



Earth Science 27% ↑

- GRACE
- Terra
- NPOESS
- TRMM
- Sounding Rockets



Planetary Science 26% →

- Deep Impact
- Cassini
- MER
- New Horizons
- Voyager

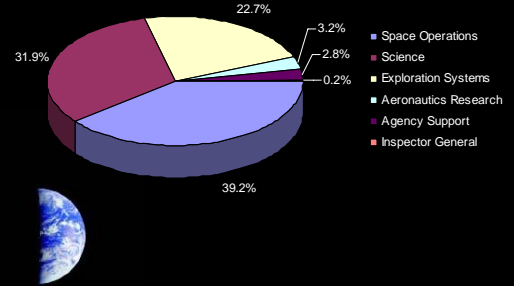


Heliophysics 19% ↑

- SOHO
- THEMIS
- Glory
- LISA



Overview – FY08 Budget Breakdown



Exploration Directorate – 3.9 Billion ↓

Constellation 78% ↓

- Crew Exploration Vehicle
- Mission Operations
- Ground Operations

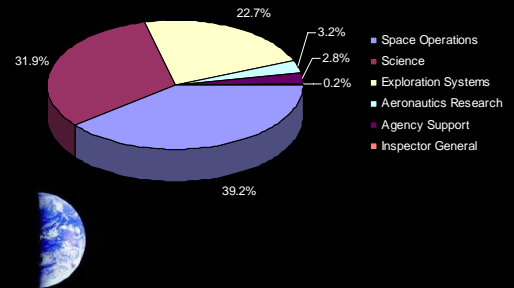


Advanced Technologies 22% ↓

- Lunar Precursor Robotics (LRO)
- Exploration Technology/Concepts
- Exploration Human Research



Overview – FY08 Budget Breakdown



Aeronautics Research – 0.5 Billion ↑

Aerospace Safety %13 →

- Aircraft Aging
- Health Monitoring
- Aircraft Control



Airspace Systems %18 →

- Air Traffic Control Navigation
- Airport Congestion

Fundamental Aeronautics %54 ↓

- Rotary
- Sub, Super & Hypersonics

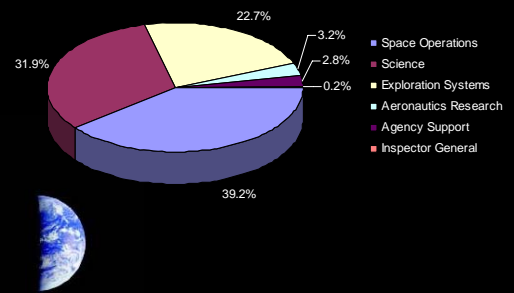


Aeronautics Testing %15 ↑

- Wind Tunnel Operations
- Air-breathing prop facilities



Overview – FY08 Budget Breakdown



Cross Agency Support – 0.5 Billion ↓

Education %31 ↓

- Multimedia
- Space Grant Consortia
- Fellowships / GSRP

Innovative Partnerships %41 ↓

- Centennial Challenges
- Commercial Orbital Transportation Services (COTS)

Shared Capability Assets %7 ↑

- Maintaining NASA Test Facilities

Adv. Business Solutions %21 ↑

- Integrated Enterprise Management System (Standardizing business processes)

Inspector General – 0.03 Billion →

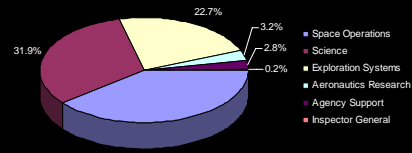
Office of Audits →

- Contractors
- Project Operations
- Policies

Office of Investigations →

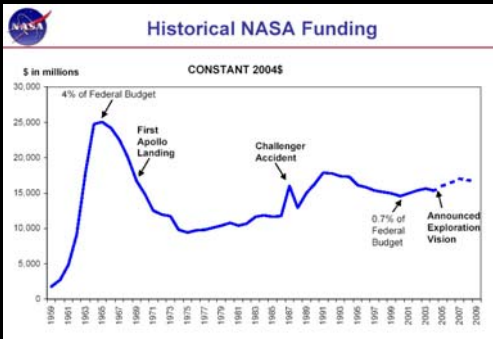
- Prosecutes: Fraud, Waste, & Abuse
- Investigates: Crimes & procurement integrity

How does the 2007 allocation compare to the 1960's?

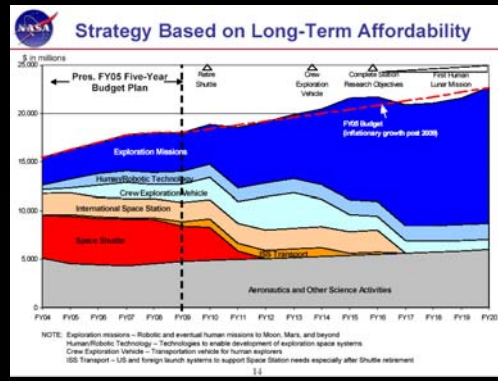


Category	1959-68	FY08 Request
Human Space Flight	63%	62%
Science	17%	32%
Aeronautics	6%	3%
Comm & Space Tech.	10%	0%
Cross-Agency Supt.	4%	3%

NASA Budget History



Budget Future Trends



Updates to the FY08 NASA Budget

- Senate allocated 17.46 billion (of 17.3 request)
 - Increase to go to the Science Mission Directorate
- House allocated 17.62 billion (of 17.3 request)
 - Increase to go to the Science, Aeronautics & Education

Backup Slides

By Mission Directorate	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012
Science, Aeronautics and Exploration	16,609.6	16,483.1	16,868.4	11,364.2	15,386.5	15,886.6
Science	4,456.8	5,115.1	5,553.3	5,680.6	5,956.9	5,892.2
Earth Science	1,464.5	1,497.3	1,543.8	1,520.1	1,411.2	1,353.2
Heliophysics	1,029.1	1,097.2	1,028.4	1,091.3	1,241.2	1,307.5
Planetary Science	1,411.2	1,395.6	1,476.9	1,320.3	1,236.3	1,148.2
Astrophysics	1,563.0	1,565.8	1,304.2	1,268.9	1,266.2	1,393.8
Exploration Systems	4,152.5	3,923.8	4,312.8	4,757.8	8,725.2	9,676.8
Constellation Systems	3,232.5	3,068.0	3,461.2	3,784.9	7,666.0	7,993.0
Advanced Capabilities	920.0	855.8	851.6	972.9	1,059.1	1,683.8
Aeronautics Research	529.3	554.8	546.7	545.3	549.8	554.7
Aeronautics Technology	529.3	554.8	546.7	545.3	549.8	554.7
Cross-Agency Support Programs	392.0	493.2	453.5	460.4	454.7	454.4
Education	167.4	163.7	152.8	152.7	149.9	149.9
Advanced Business Systems	197.4	103.1	69.4	71.6	67.6	67.6
Innovative Partnerships Program	215.1	198.1	197.2	199.8	200.0	200.0
Shared Capability Assets Program	22.1	34.3	34.2	36.2	37.3	37.2
Continuing Resolution Rate*	(551.40)					
Exploration Capabilities	6,986.3	6,791.7	6,716.3	6,425.7	3,936.6	2,578.8
Space Operations	6,389.3	6,291.2	6,210.3	6,425.2	3,636.6	2,578.8
Space Shuttle	4,017.6	4,027.5	3,650.9	3,534.4	116.2	0.0
International Space Station	1,762.6	2,238.6	2,515.1	2,829.2	2,547.5	2,600.0
Space and Flight Support	329.1	545.7	544.3	362.0	372.9	377.2
Continuing Resolution Rate*	(46.8)					
Inspector General	33.6	34.6	35.5	34.4	37.3	36.3
Continuing Resolution Rate*	(2.0)					
TOTAL	16,792.3	17,309.4	17,614.2	18,026.3	18,460.4	18,905.0

