

Projections for Research Funding in the U.S. Federal Budget

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for AAU Council on Federal Relations

AAAS R&D Budget and Policy Program

<http://www.aaas.org/spp/rd>

See the “Seminars and Presentations” section for copies of this presentation.

American Recovery and Reinvestment Act

- \$18.4 billion in R&D (12.5 percent of FY 2009 Investment)
 - National Institutes of Health - \$10.4 billion
 - \$8.2 billion in standard grants
 - National Science Foundation - \$3.0 billion
 - \$2.0 billion in standard grants
 - DOE Office of Science - \$1.6 billion
 - National Institute of Standards and Technology - \$600 million
- ARRA Obligation Deadline: September 30, 2010
- Different agencies, different mechanisms

ARRA Spending Update (as of Dec 31, 2009)

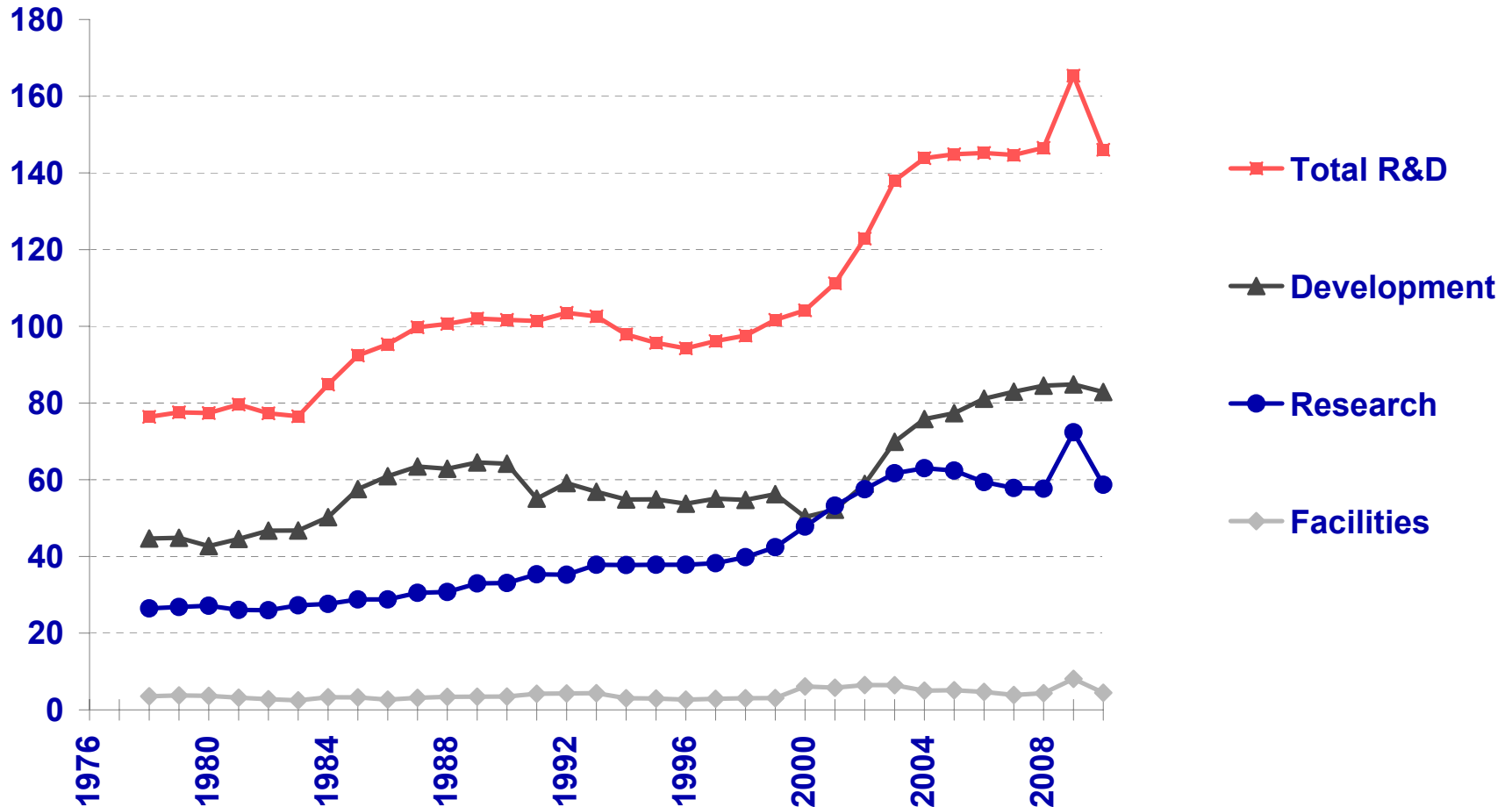
- Department of Energy (\$36.7 billion)
 - Office of Science – 86.9%
 - ARPA-E – 17.2%
 - Total – 63.1%
- National Institutes of Health (\$10.4 billion)
 - Grants – 55.1%
- National Science Foundation (\$3.0 billion)
 - Conduct of R&D – 93.1%
 - Total – 74.1%

The FY 2010 Federal R&D Investment

- \$150.5 billion, 2.4% increase from FY 2009
 - 2.0% more than the President's request
 - Defense S&T, Agriculture biggest increases
- 1.3% increase in real dollars from FY 2009
 - 2.6% increase in R&D investment since FY 2006

Trends in Federal R&D, FY 1976-2010

in billions of constant FY 2009 dollars

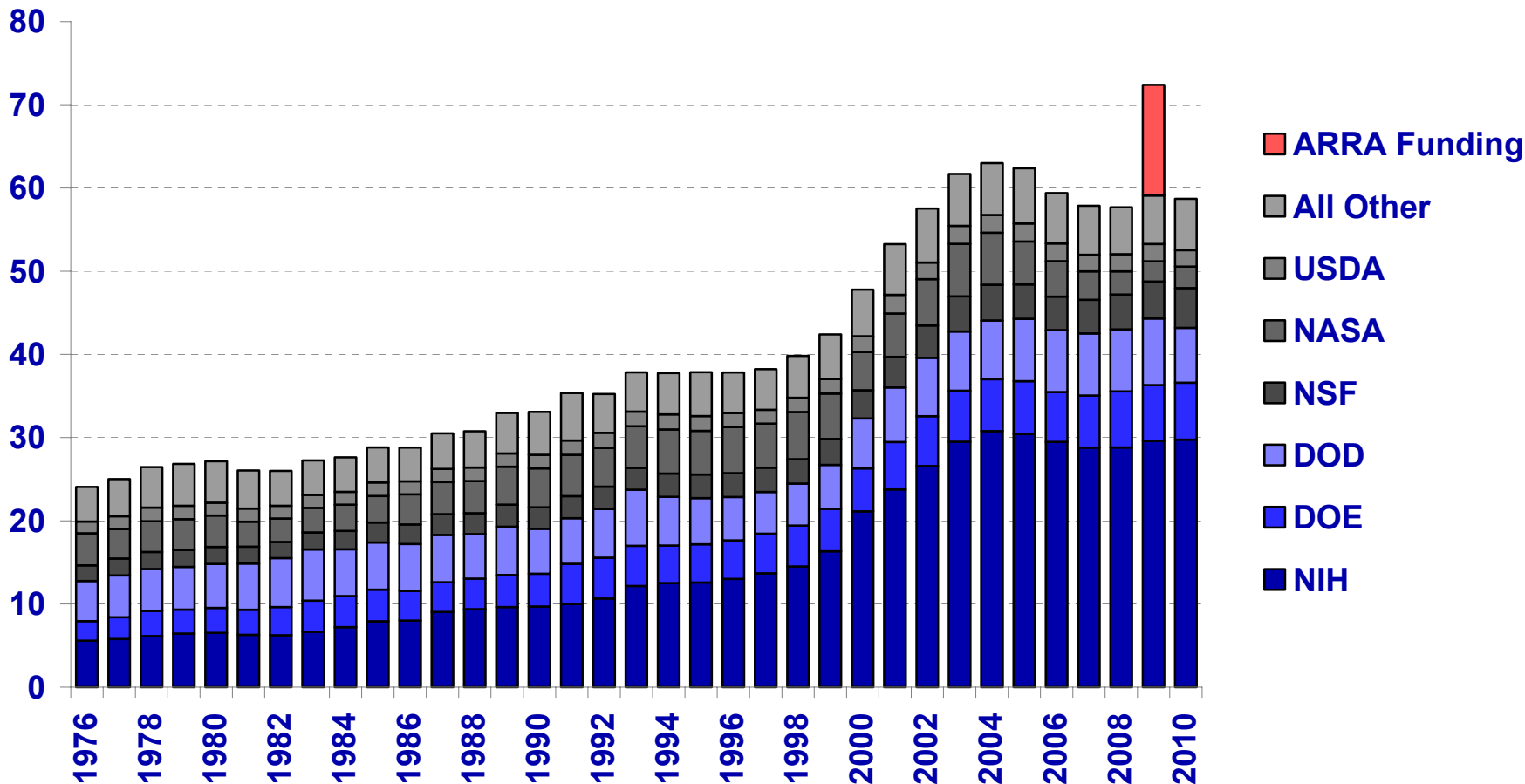


Source: AAAS analyses of R&D in annual AAAS R&D reports.
FY 2010 figures are latest AAAS estimates of FY 2010 request.
R&D includes conduct of R&D and R&D facilities.
1976-1994 figures are NSF data on obligations in the Federal Funds survey.
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Trends in Research by Agency, FY 1976-2010

in billions of constant FY 2009 dollars

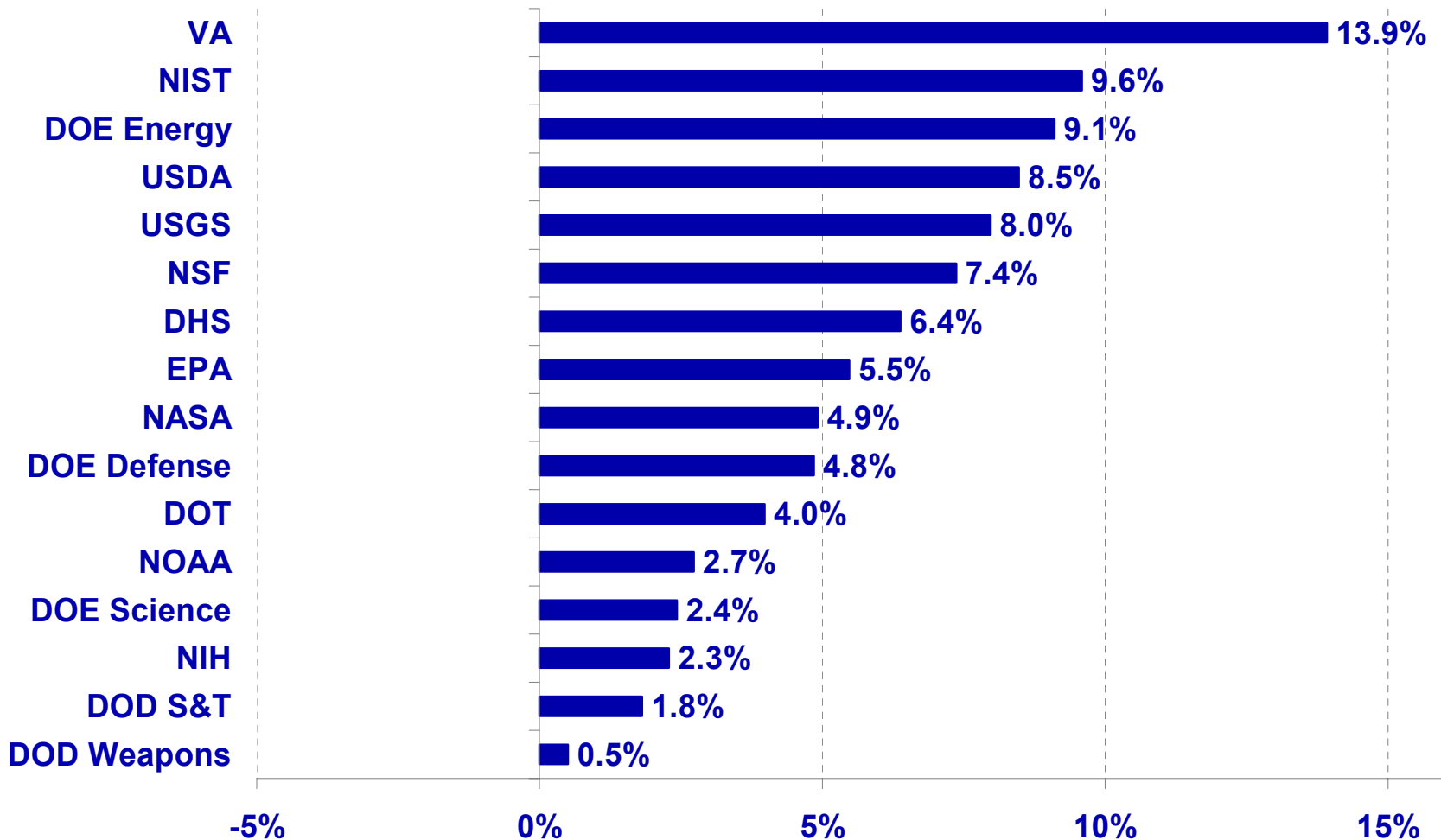


Source: AAAS Report: Research & Development series.
FY 2009 and FY 2010 figures are latest estimates.
Research includes basic research and applied research.
1976-1994 figures are NSF data on obligations in the Federal Funds survey.
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FY 2010 R&D Appropriations

percent change from FY 2009



Source: AAAS estimates of R&D in FY 2010 appropriation bills and reports.
DOD S&T includes R&D in 6.1 through 6.3 categories plus medical research.
DOD weapons includes R&D in 6.4 and higher categories.

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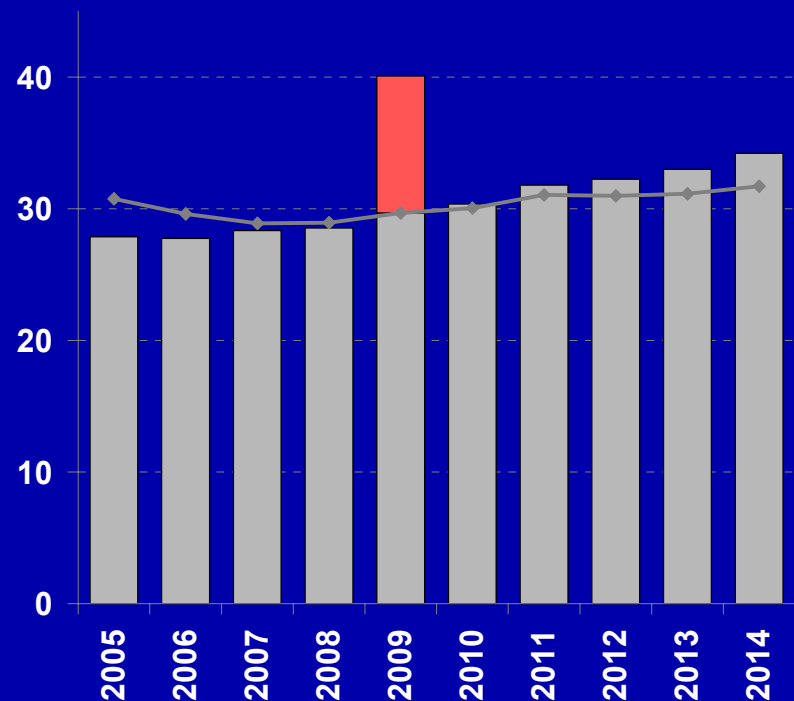


General Outlook for FY 2011

- OMB/OSTP R&D Priority Memo
 - Economic Growth
 - Energy Technologies
 - Healthier Lives
 - National Defense
- Bart Gordon (D-TN): "... we've got to get the deficit down."
- Steven Chu: "It's a flat overall budget..."
- Presidential and Congressional support for 10-year doubling of basic research
 - Presidential memo to Senate and NSF conference report

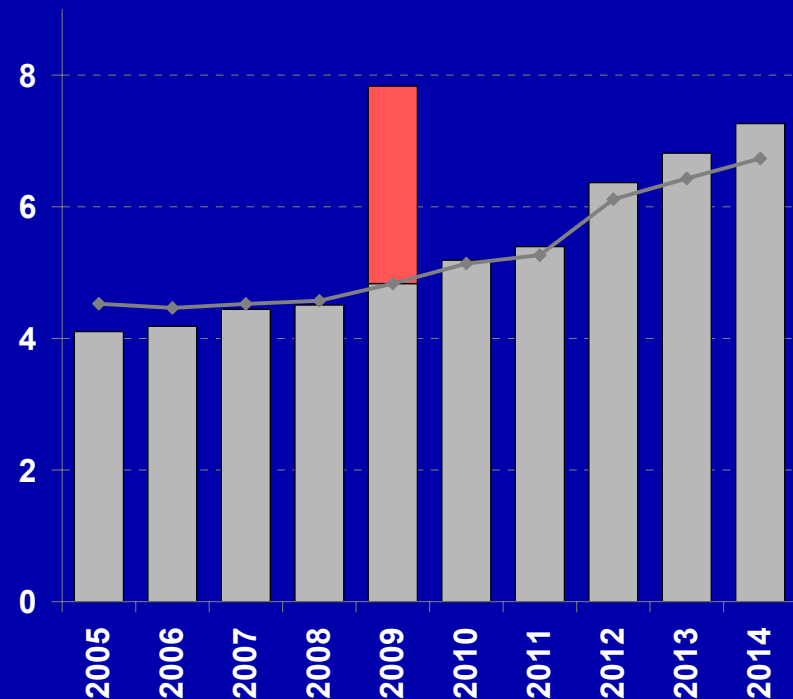
National Institutes of Health

- FY 2009: \$30.5 billion
- FY 2010: \$31.2 billion
- FY 2011: \$29.6 – \$32.1 billion
 - -5.0% - 3.0%
- Policy Issues
 - Defunding international AIDS/HIV proposals
 - Restrictions on research that creates or destroys human embryos
 - Doubling of Cancer Budget (8 years through 2017)



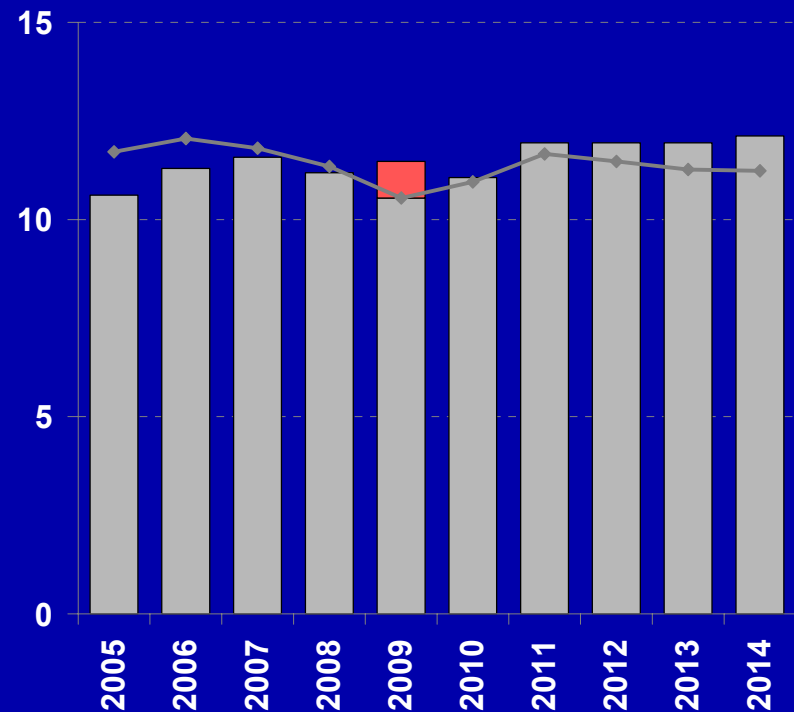
National Science Foundation

- FY 2009: \$6.5 billion
- FY 2010: \$6.9 billion
- FY 2011: \$7.2 billion
- Policy Issues
 - Administration and CJS Conference support for budget doubling
 - Sen. Coburn (R-OK) amendment to eliminate Political Science funding (36 votes in favor)



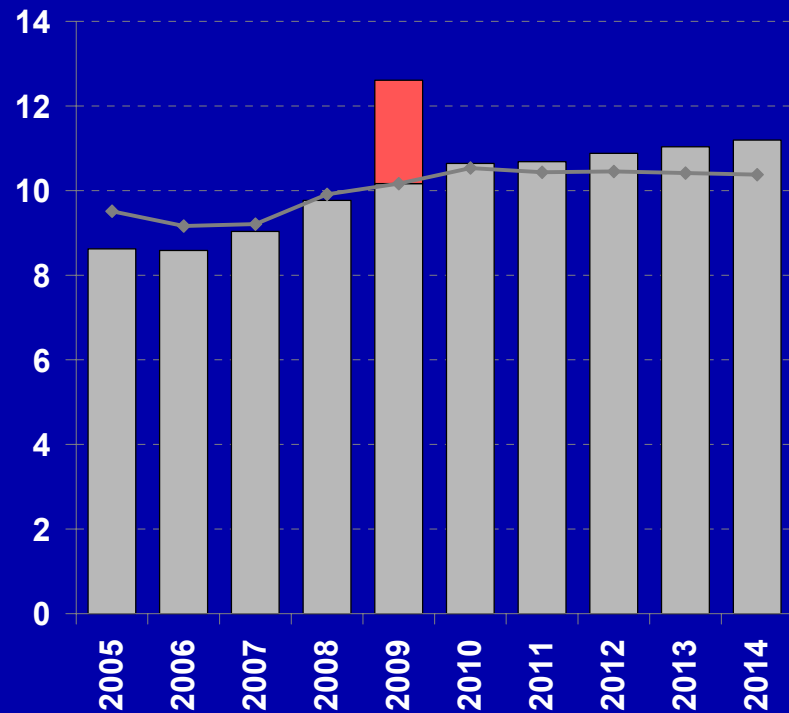
National Aeronautics and Space Administration

- FY 2009: \$10.5 billion in R&D
- FY 2010: \$11.1 billion in R&D
- FY 2011: \$11.9 billion in R&D
- Policy Issues
 - Augustine Report on manned space travel
 - Ares I vs. heavy-lift launcher



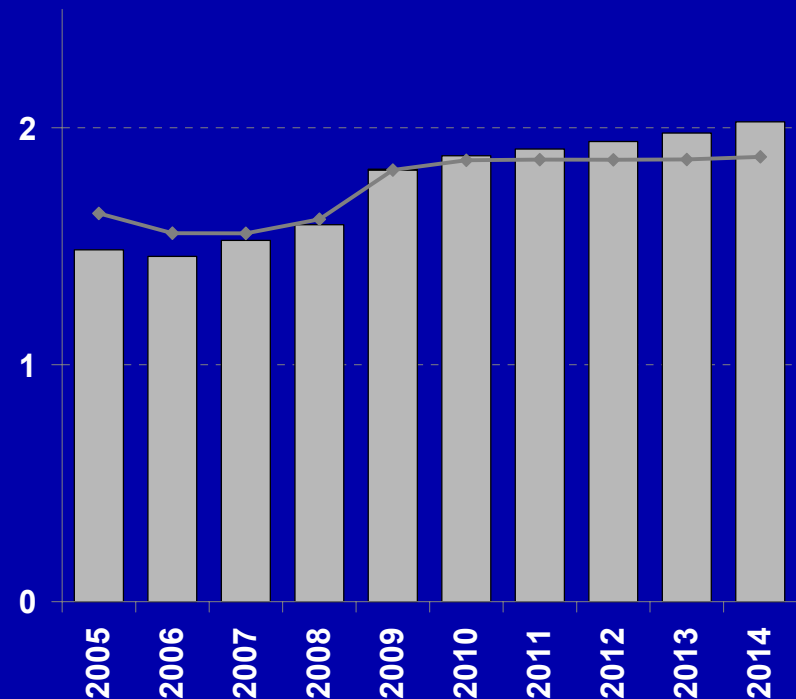
Department of Energy

- FY 2009: \$26.8 billion
 - \$10.2 billion R&D
- FY 2010: \$27.1 billion
 - \$10.6 billion R&D
- FY 2011: \$28.5 billion
 - \$10.7 billion R&D
- Policy Issues
 - Energy Innovation Hubs
 - Office of Science Budget Doubling – 2.7% increase to \$4.9 billion (\$4.5 billion R&D)
 - Energy R&D Refocus – Nuclear and Fossil down, Renewable and Reliability up
 - Clean Energy Act of 2009



Department of Defense – Basic Research

- FY 2009: \$1.8 billion
- FY 2010: \$1.9 billion
- FY 2011: \$1.8 – \$2.0 billion
 - -5.0% - 5.0%
- Policy Issues
 - Highly variable in Congressional action
 - Small in comparison to \$80.5 RDT&E FY 2010 budget



For More Information...

The AAAS R&D web site is
<http://www.aaas.org/spp/rd>

The AAAS Forum on Science
and Technology Policy is
May 13–14, 2010 in
Washington, DC

