An Update on the FY 2010 Federal Budget

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for the AAAS Board of Directors

AAAS R&D Budget and Policy Program
http://www.aaas.org/spp/rd

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The FY 2010 Budget

- $3.6 trillion total budget, $1.3 trillion unified deficit
- $1.4 trillion discretionary spending (9.1% increase)
  - $704 billion nondefense spending (16.0% increase)
- Includes military costs for activities in Iraq and Afghanistan
- Focuses on “stable and broad economic growth” by investing in:
  - Education
  - Healthcare
  - Energy
Trends in Discretionary Spending, FY 1976-2014
outlays in billions of constant FY 2009 dollars

FY 2009-2014 data are budget projections.
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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
  - National Science Foundation - $3.0 billion
  - 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
- Buoys the 0.3% increase in R&D investment from FY 09-10
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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FY 2010 R&D Budget Request
Percent Change from FY 2009

- NIST: 15.8%
- VA: 13.7%
- NSF: 9.5%
- DOE Defense: 6.8%
- USGS: 6.2%
- NASA: 6.1%
- DOE Energy: 5.4%
- EPA: 4.4%
- DOE Science: 3.3%
- DOT: 2.8%
- DHS: 2.6%
- NIH: 1.5%
- DOD Weapons: 0.5%
- USDA: -6.6%
- NOAA: -8.0%
- DOD S&T: -15.6%

DOD "S&T" = DOD R&D in "6.1" through "6.3" categories plus medical research.
DOD weapons = DOD R&D in "6.4" and higher categories.
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Congressional Action on Defense R&D

budget authority in billions dollars

Request - 83.2
House - 84.9
Senate - 83.1

Source: AAAS Report XXXIV: Research & Development FY 2010 and Congressional Reports.
R&D includes conduct of R&D and R&D facilities.
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National Institutes of Health Budget by Institute, 1996-2010
budget authority in billions of constant FY 2009 dollars

FY 2009 and FY 2010 figures are latest estimates.
R&D includes conduct of R&D and R&D facilities.
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Congressional Action on NIH R&D

budget authority in billions dollars

Request - 31.0
House - 31.3
Senate - 30.8

Source: AAAS Report XXXIV: Research & Development FY 2010 and Congressional Reports.
R&D includes conduct of R&D and R&D facilities.
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Trends in DOE R&D, FY 1990-2010

in billions of constant FY 2009 dollars

Source: AAAS Report: Research & Development series. FY 2009 and FY 2010 figures are latest estimates. R&D includes conduct of R&D and R&D facilities. © 2009 AAAS
Congressional Action on DOE R&D

budget authority in billions dollars

Request - 10.7  House - 10.7  Senate - 10.8

Source: AAAS Report XXXIV: Research & Development FY 2010 and Congressional Reports.
R&D includes conduct of R&D and R&D facilities.
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National Science Foundation Budget, FY 2000-2010
budget authority in billions of constant FY 2009 dollars

FY 2009 and FY 2010 figures are latest estimates.
R&D includes conduct of R&D and R&D facilities.
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Congressional Action on NSF Budget

budget authority in billions dollars

Source: AAAS Report XXXIV: Research & Development FY 2010 and Congressional Reports.
R&D includes conduct of R&D and R&D facilities.
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R&D IN THE FY 2010 FEDERAL BUDGET

R&D Investment Priorities

- Investing in the Sciences for a Prosperous America
  - General increases in science funding, especially basic research (3.4% increase, plus ARRA)
- A Clean Energy Future
  - DOE Energy Programs (5.4% increase, plus ARRA)
- Healthy Lives for All Americans
  - National Institutes of Health (1.5% increase, plus ARRA)
- A Safe and Secure America
  - Homeland Security Funding (23.8% increase)
FY 2010 R&D Budget Request by Function

percent change from FY 2009

Source: OMB and agency budget data.
Environment includes natural resources R&D
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Federal Homeland Security R&D by Agency
budget authority in millions of constant FY 2009 dollars

Source: OMB R&D data.
Includes conduct of R&D and R&D facilities.
DOD expanded its reporting of HS spending beginning in 2005.
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The Federal R&D Investment for FY 2010

- Four R&D Investment Priorities
- On track to double funding for basic research agencies
- Small increase from FY 2009 to FY 2010, but ARRA has had a major impact
- Congressional marks are generally close to budget request

Next Steps
- Legislative Branch Appropriations Conference Report with attached Continuing Resolution passed extending funding to October 31
- Senate has six appropriations bills to pass, then conferences
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