

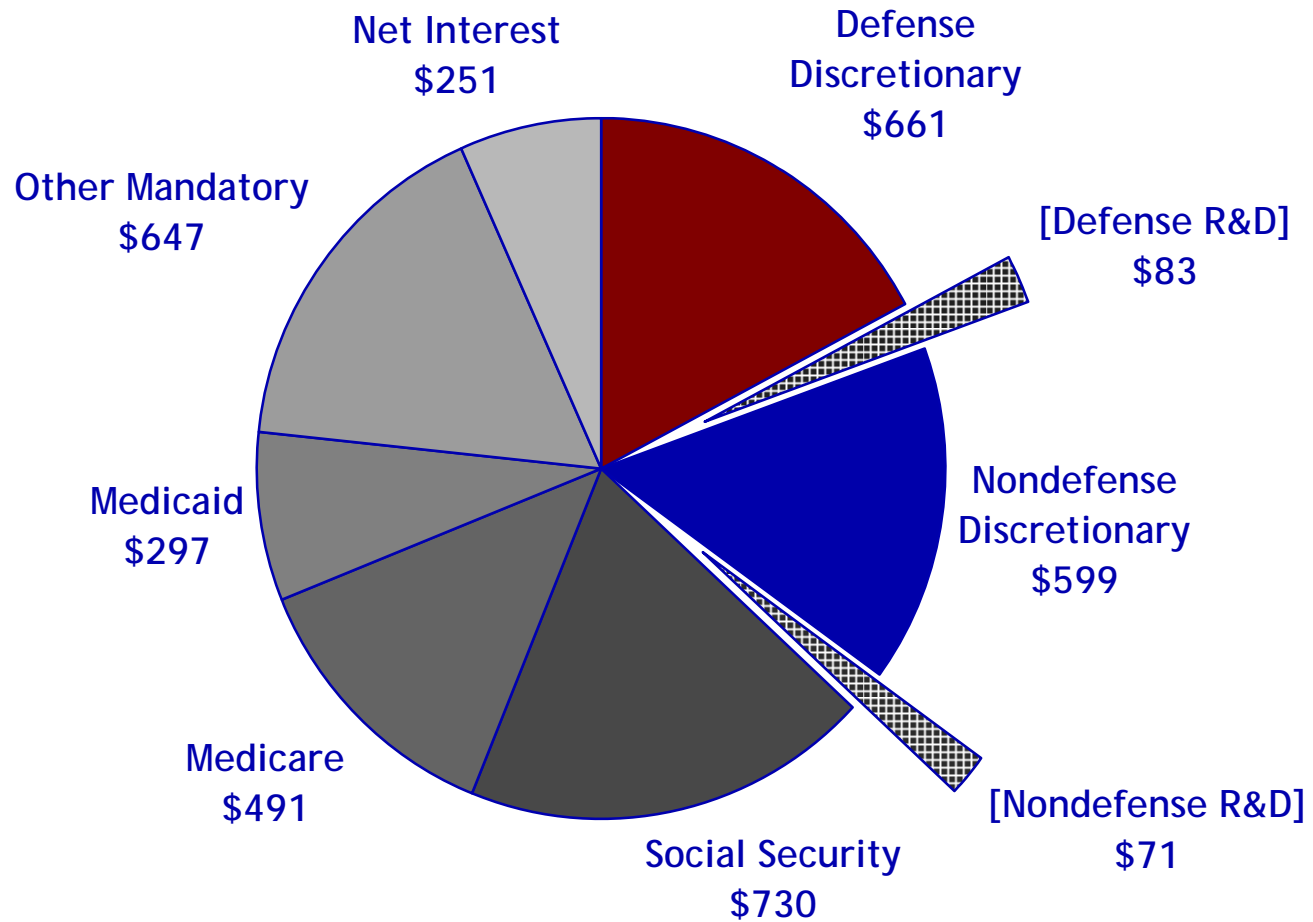
# Update on R&D Funding

Patrick J Clemins  
December 3, 2010  
for the AAAS Board of Directors

# Composition of the Proposed FY 2011 Budget

## Total Outlays = \$3.8 trillion

outlays in billions of dollars



Source: *Budget of the United States Government FY 2011*.

Projected unified deficit is \$1.3 trillion.

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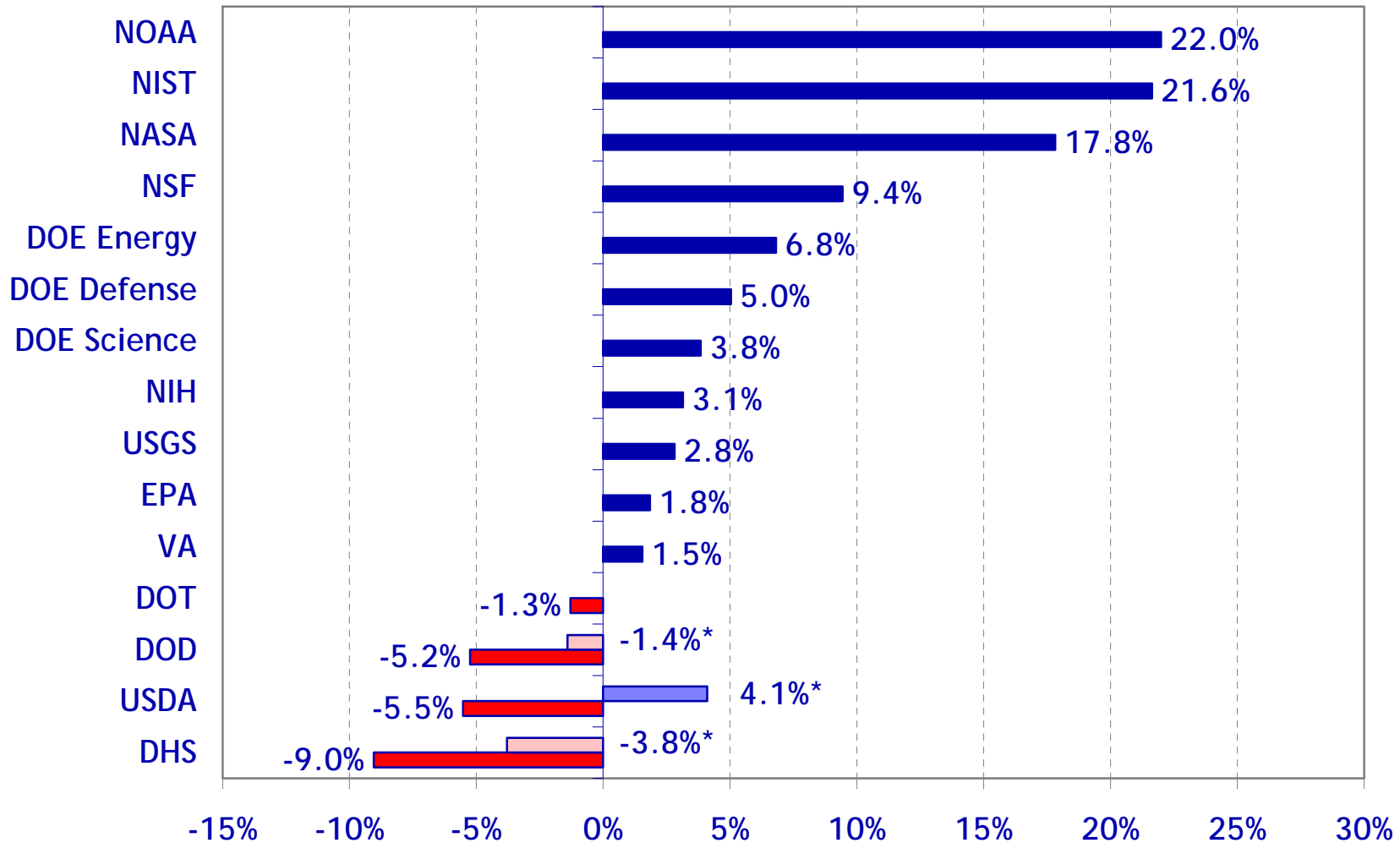


# The FY 2011 Federal R&D Investment

- Total R&D: \$148.1b, -0.3% from FY 2010
  - Basic Research: \$30.4b, +4.3%
  - Applied Research: \$31.6b, +2.1%
  - Development: \$81.5b, -2.9%
  - Equipment and Facilities: \$4.6b, +1.3%
- \$82.2b for defense R&D, -4.8%
- \$65.9b for non-defense R&D, +5.9%
- -1.4% in constant dollars from FY 2010
- +0.7% in constant dollars since FY 2004
  - Peak in FY 2009

# R&D in the FY 2011 Budget Request

percent change from FY 2010



Source: OMB R&D budget data, agency budget justifications, and other agency documents.

\* - Lighter colored bars indicate percent change with projected FY 2011 earmarks.

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# Pre-Election Outlook

## ● Democrats

- Budget cuts in FY 2012
  - 5% total discretionary budget
  - Low-Impact programs totaling 5%
- Summary: 5-10% decrease in FY 2012

## ● Republicans

- Immediate budget cuts
  - Pre-stimulus, pre-bailout levels
  - Sparse guidance in *A Pledge to America*
- Summary: \$100b decrease in FY 2011

# Post-Election Reality

- Democrats

- Obama: "I don't think we should be cutting back on research and development."
- Total Budget: 5-10% decrease in FY 2012
- R&D: Smaller decreases or priority funding for R&D

- Republicans

- Senate: \$1.108 trillion (-\$28b request) omnibus spending bill
- Total Budget: Inflation adjusted FY 2008 levels in FY 2012 (-\$100b)
- R&D: "Strong oversight... of multiple new and duplicative programs" - Rep. Ralph Hall (R-TX)

- Earmarks

# Post-Election Reality

- Fiscal Commission
  - "... we must invest in education, infrastructure, and high-value research and development..."
  - Long-term: Revenue and spending balance at 21% GDP
  - Inflation-adjusted FY 2008 levels in 2013, limit annual increase to half of the inflation rate through 2020.
  - No biennial budget recommendation
  - Notable R&D in \$200 billion illustrative savings options
    - 10% decrease in DOD RDT&E, eliminate new funding for DOE Fossil R&D, eliminate private sector funding for spaceflight developments

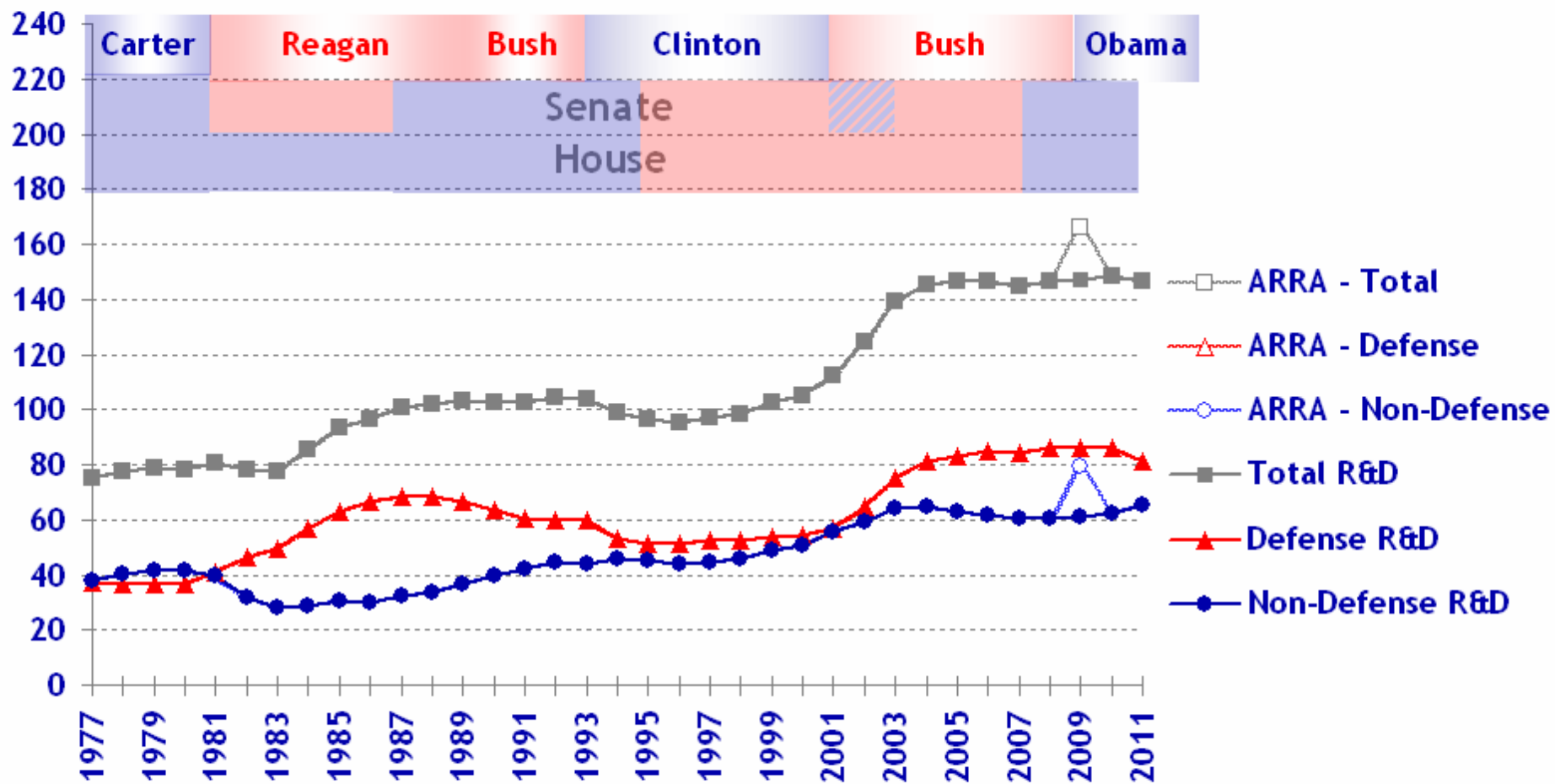
# R&D Priorities

- National Security
  - Health
  - Jobs / Innovation / Economy
  - Energy
- 
- Democrats
    - Clean Energy
    - Action on Global Climate Change
  - Republicans
    - Energy Security
    - Resource Management



# Trends in Federal R&D

in billions of constant FY 2010 dollars



Source: AAAS analyses of R&D in annual AAAS R&D reports.  
 FY 2011 figures are latest AAAS estimates of FY 2011 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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## Next Steps

- Congress passed a second CR which extends funding until December 18.
- FY 2011 Appropriations Possibilities
  - 12-bill omnibus
    - \$1.108 trillion, some earmarks (\$9b), priorities funded
  - Year-long CR
    - \$1.091-\$1.098 trillion, very few earmarks, status quo
- FY 2012: OMB Memos: 5% reduction; list of low-impact programs totaling 5% of discretionary budget. Initial budget submissions were due to OMB by September 13.

## For More Information...

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

Twitter: @AAAS\_RDBudget

The FY 2012 AAAS Forum on  
Science and Technology Policy  
is May 5-6, 2011  
in Washington, DC

### AAAS REPORT XXXV Research & Development FY 2011

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