



*Research and Development in the
2011 Budget*

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Policy
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*for the ASEE Engineering
Research Council*

www.ostp.gov

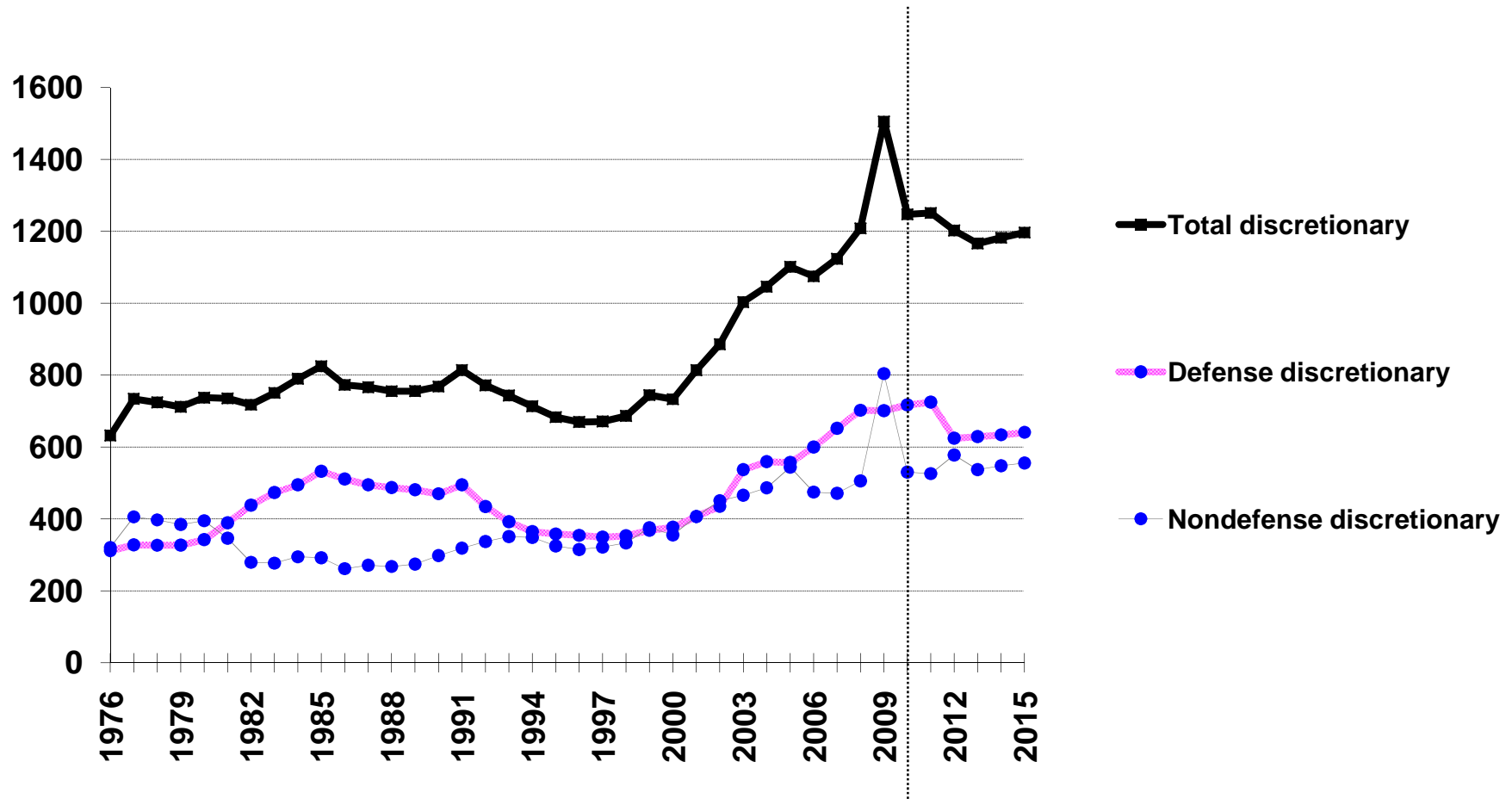


“Science is more essential for our prosperity, our security, our health, our environment, and our quality of life than it has ever been before.”

President Obama, National Academy of Sciences, April 27, 2009

Trends in Discretionary Spending, FY 1976-2015

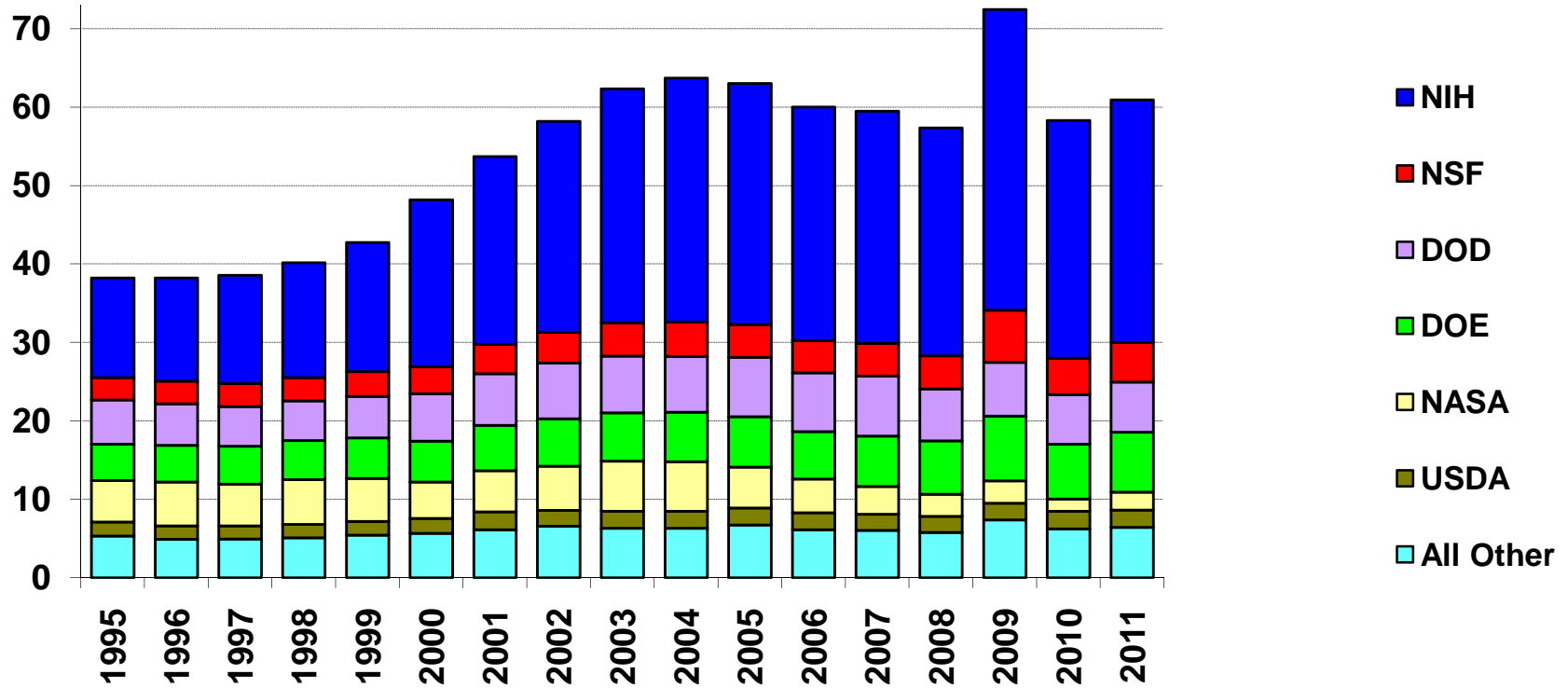
budget authority in billions of constant FY 2010 dollars



FY 2010 data are estimates. FY '11-'15 data are budget projections.
MAY '09 OSTP

Trends in Research by Agency, FY 1995-2011

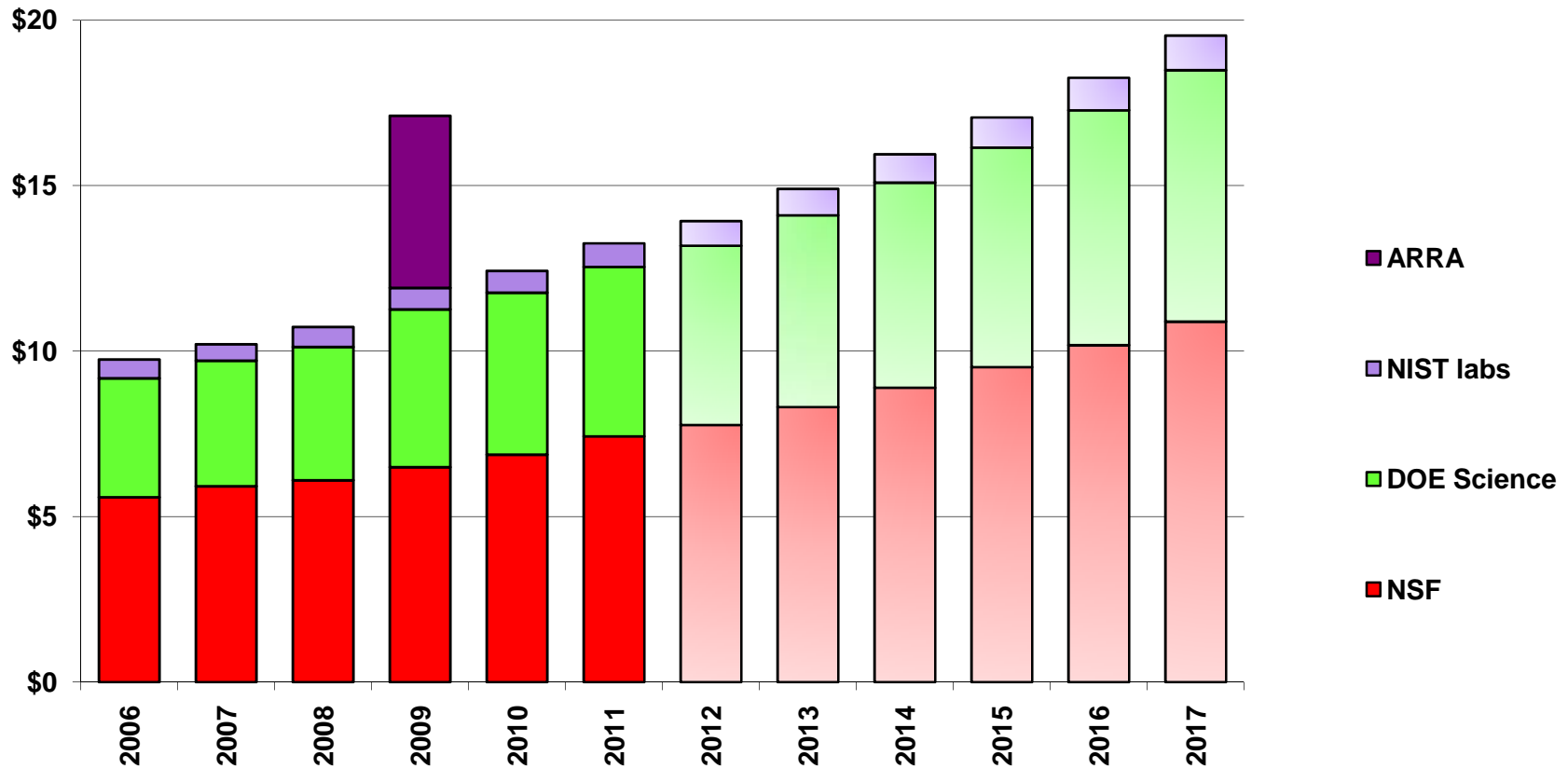
in billions of constant FY 2010 dollars



FY 2009 figures include Recovery Act appropriations. Research includes basic research and applied research.
 FEB. '10 OSTP

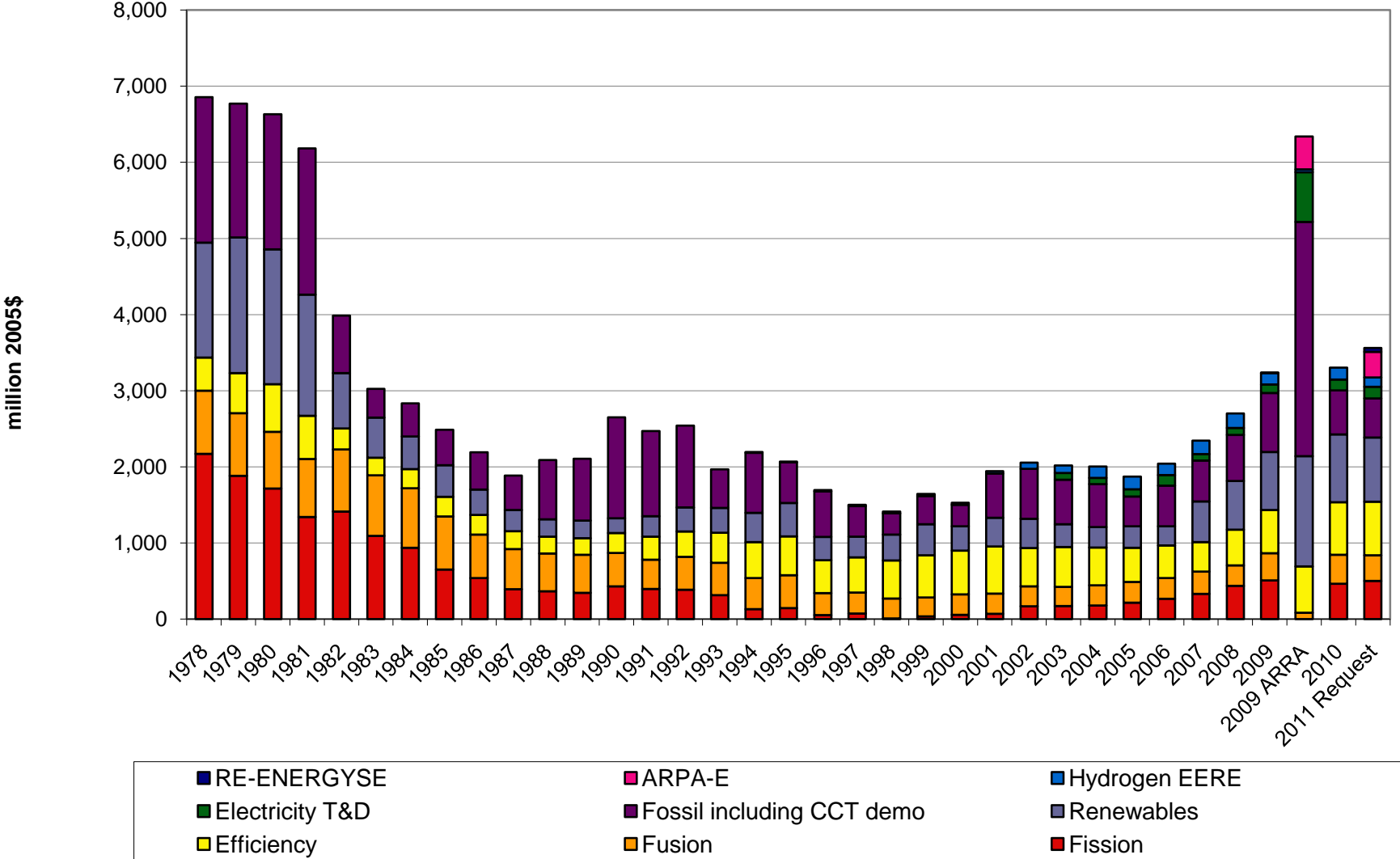
President's Plan for Science and Innovation, FY 2006-2017

(budget authority in billions of current dollars)



2006-2010 figures are enacted budget authority; 2012-2017 figures are projections in the 2011 budget.
FEBRUARY '10 OSTP

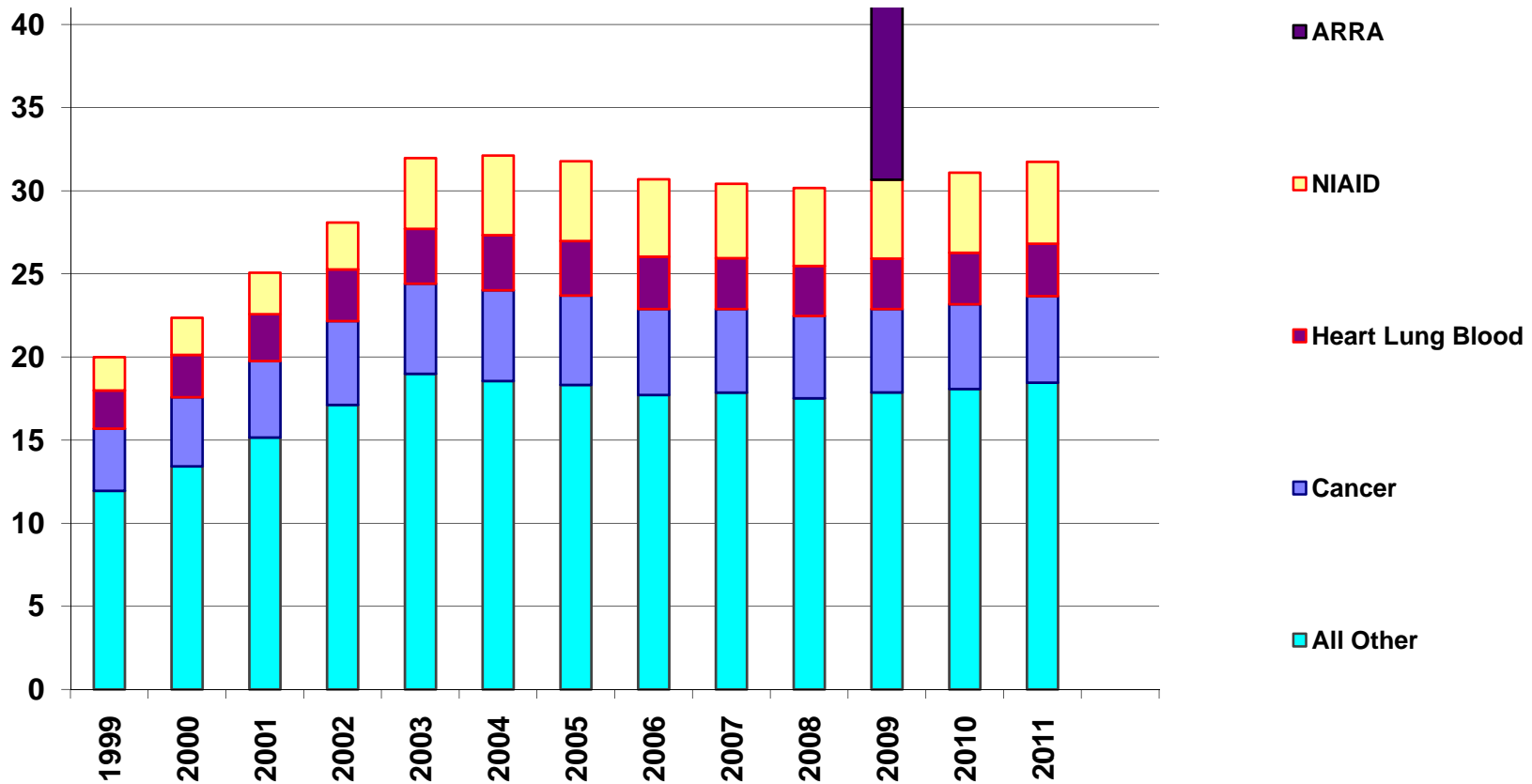
U.S. DOE Energy RD&D Spending FY1978-FY2011 Request



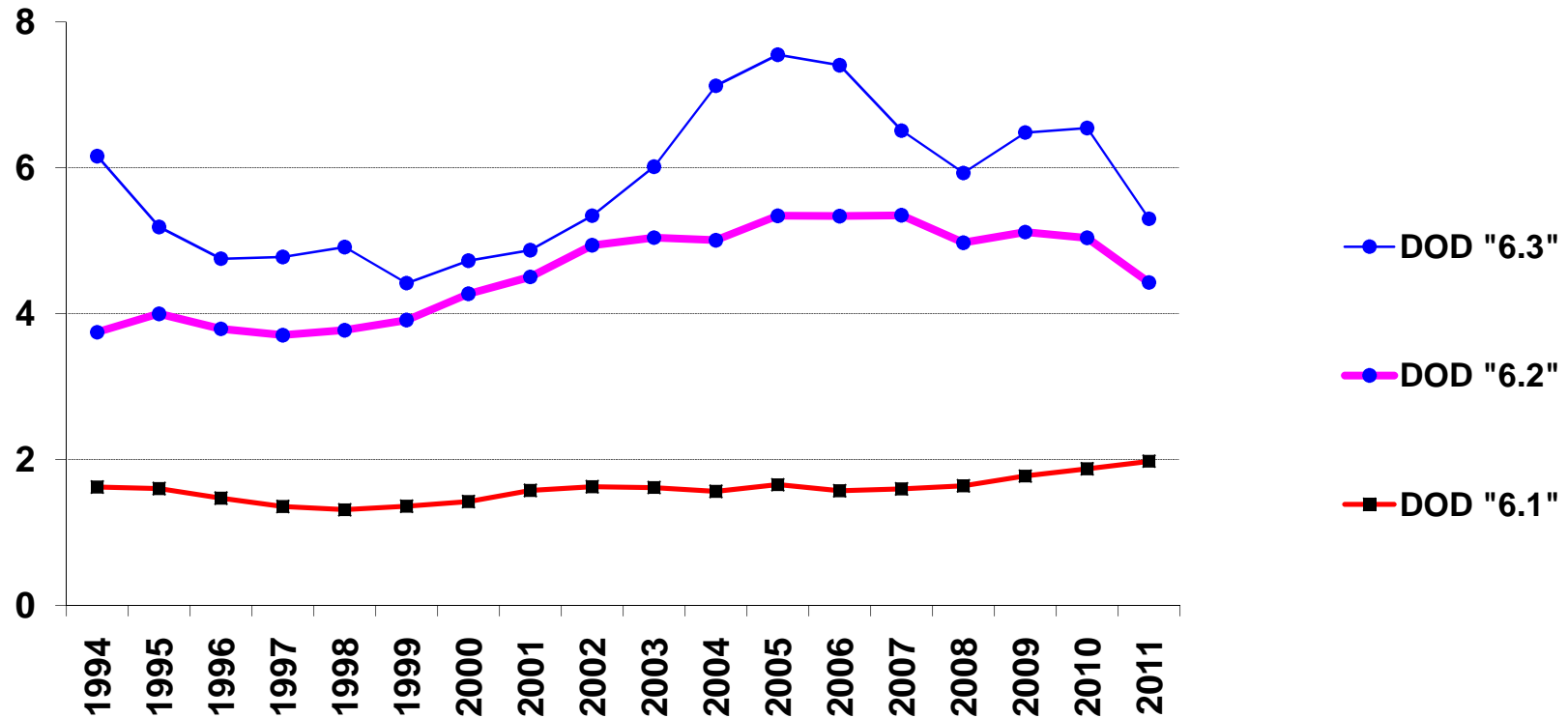
Gallagher, K.S. and L.D. Anadon, "DOE Budget Authority for Energy Research, Development, and Demonstration Database," Energy Technology Innovation Policy, John F. Kennedy School of Government, Harvard University, February 19, 2010.

National Institutes of Health Budget with Select Institutes, 1999-2011

(budget authority in billions of constant FY 2010 dollars)

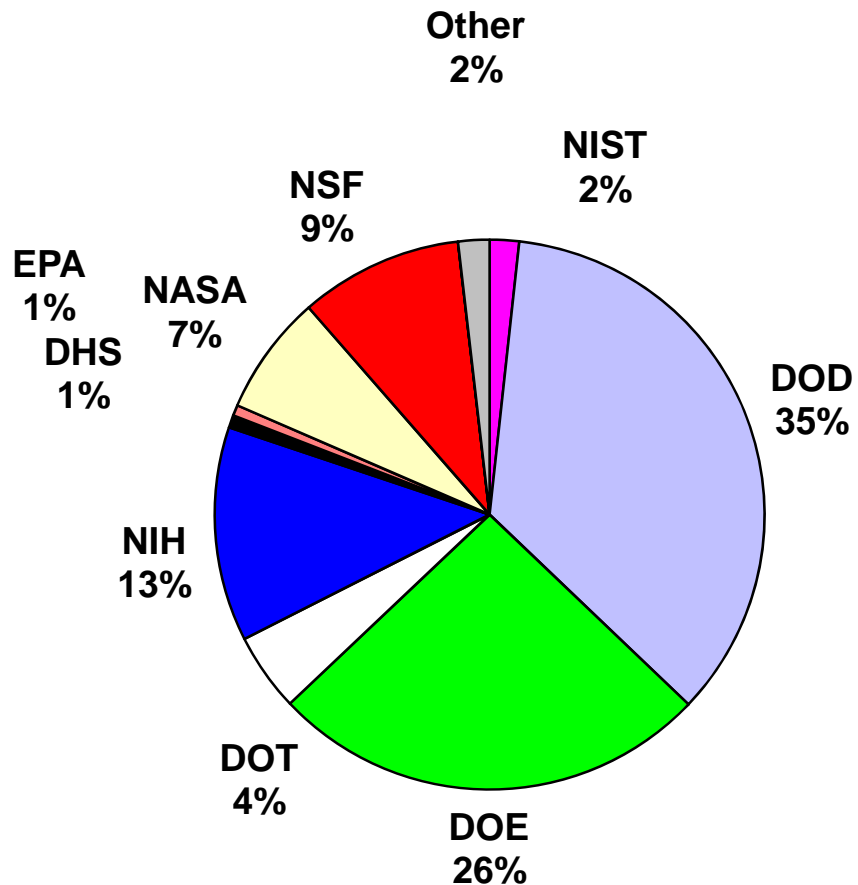


Trends in DOD "S&T", FY 1994-2011 in billions of constant FY 2010 dollars



Engineering Research in the FY 2009 Budget (preliminary obligations)

Total Engineering
Research :
\$8.9 billion
(includes basic
research and
applied research)

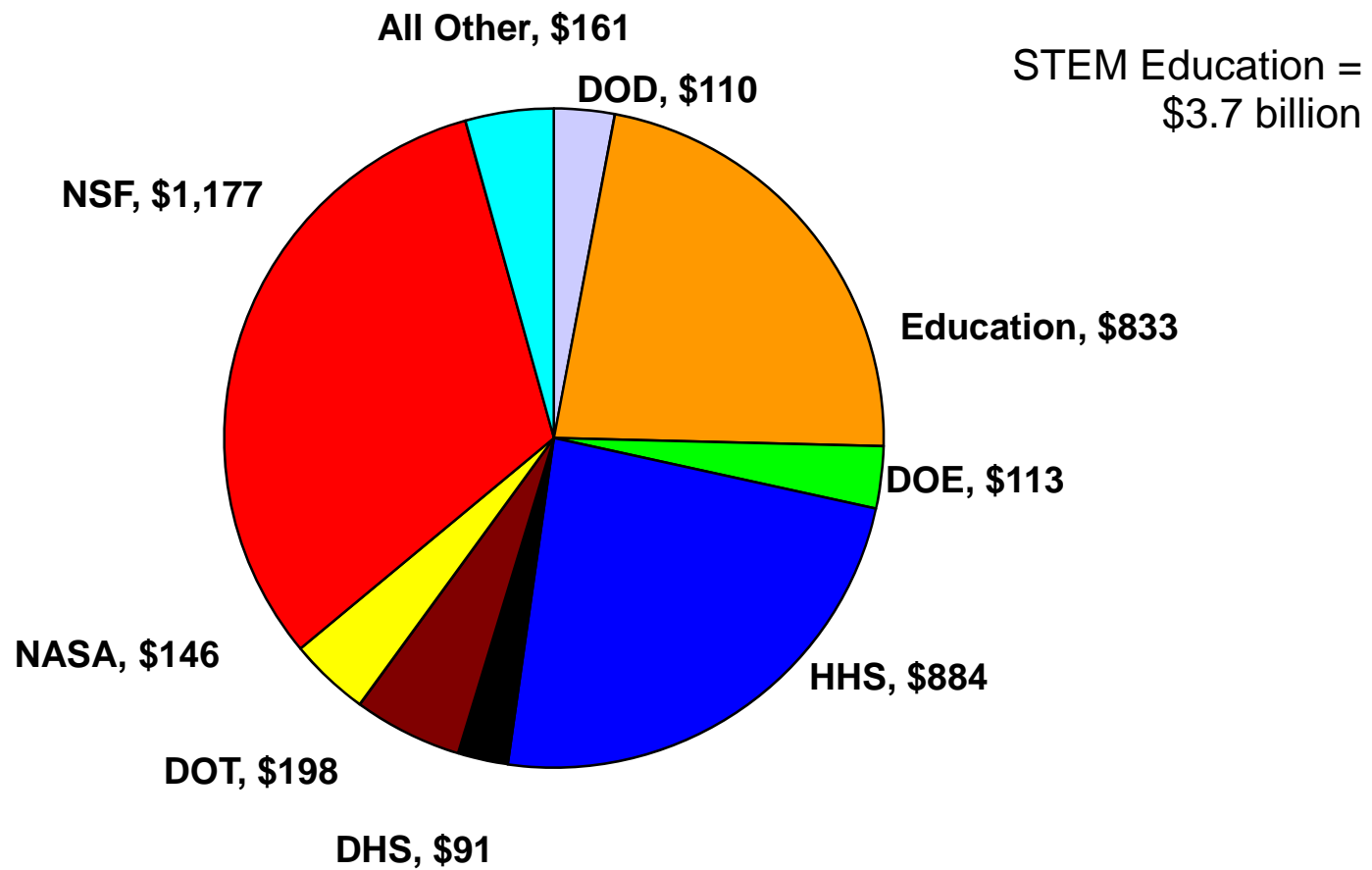


Army = 7% of total
Navy = 7%
Air Force = 10%
Defense Agencies = 11%

Source: National Science Foundation, Survey of Federal Funds for
Research and Development: Fiscal Years 2007-09. Data exclude
development and R&D facilities.
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STEM Education by Agency: 2011 Budget

Budget Authority in Millions of dollars



THANK YOU



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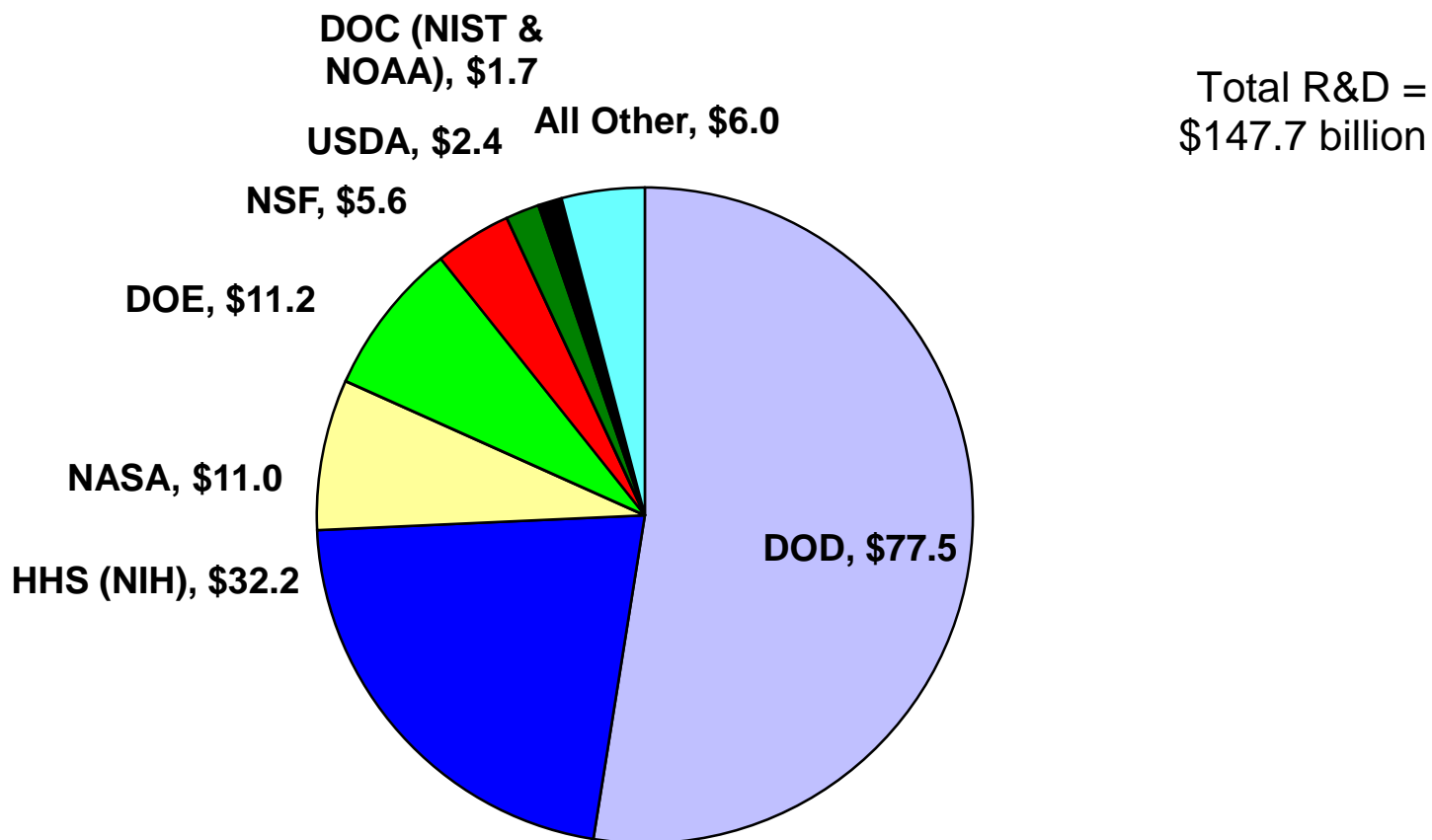
Kei_Koizumi@ostp.eop.gov

BACKUP SLIDES

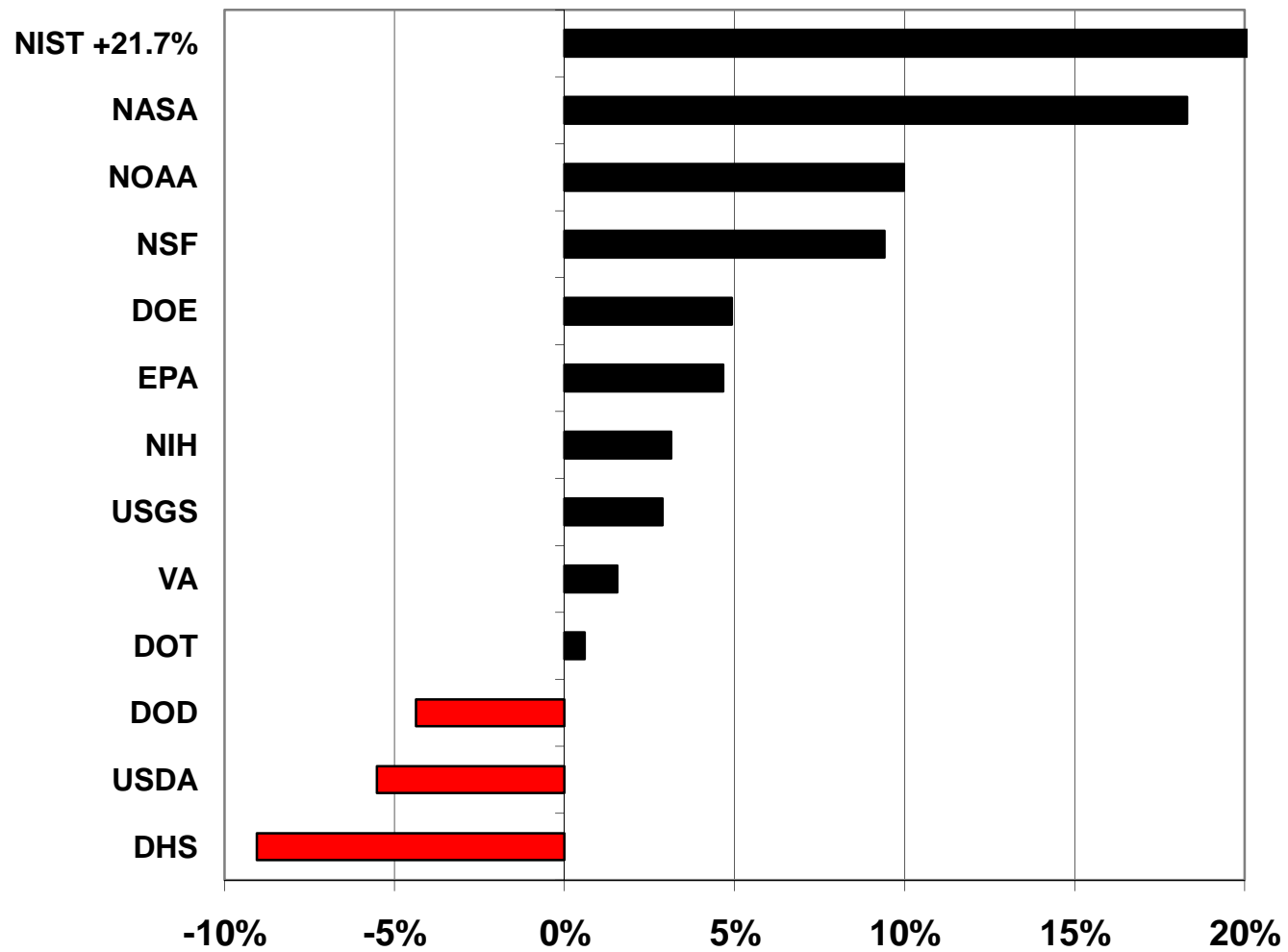


Total R&D by Agency: 2011 Budget

Budget Authority in billions of dollars

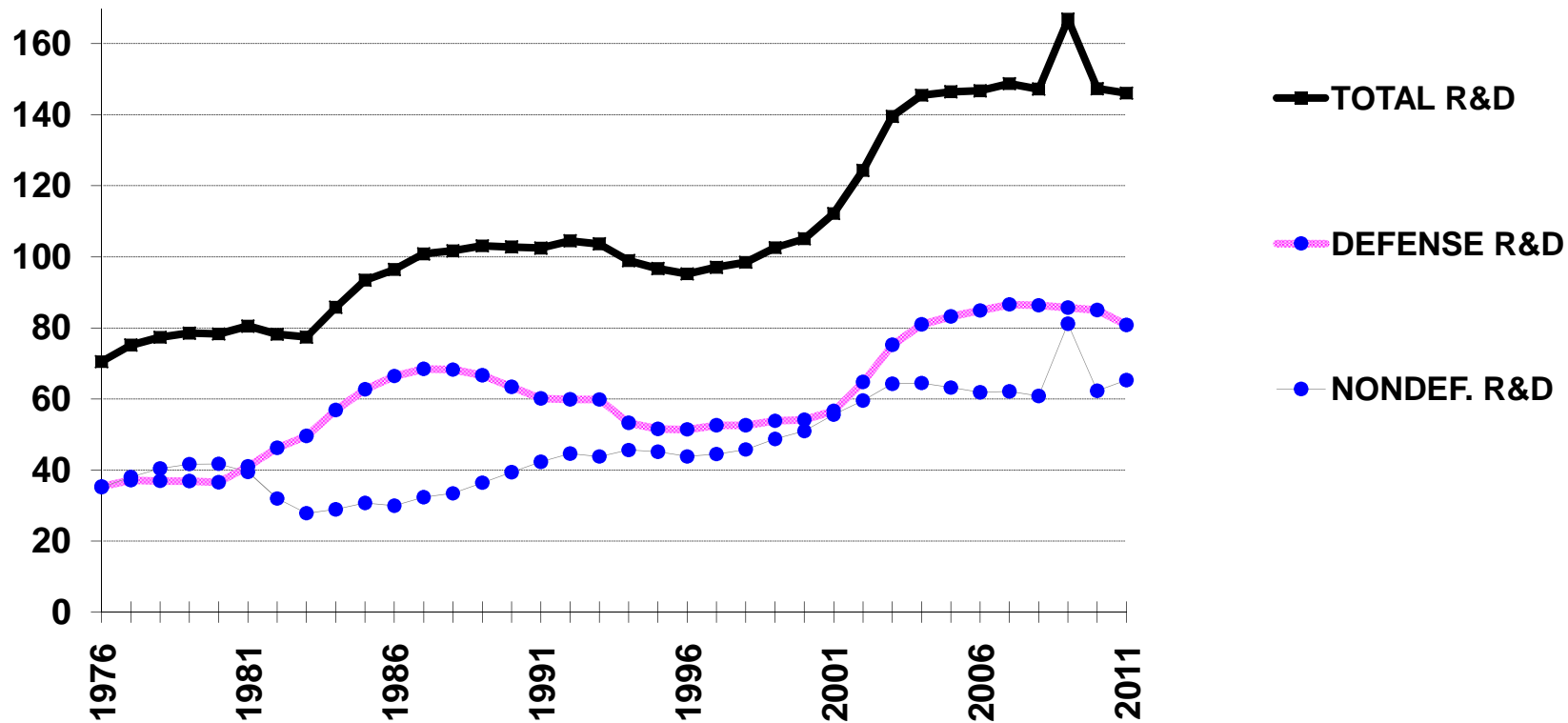


FY 2011 R&D Budget Percent Change from FY 2010



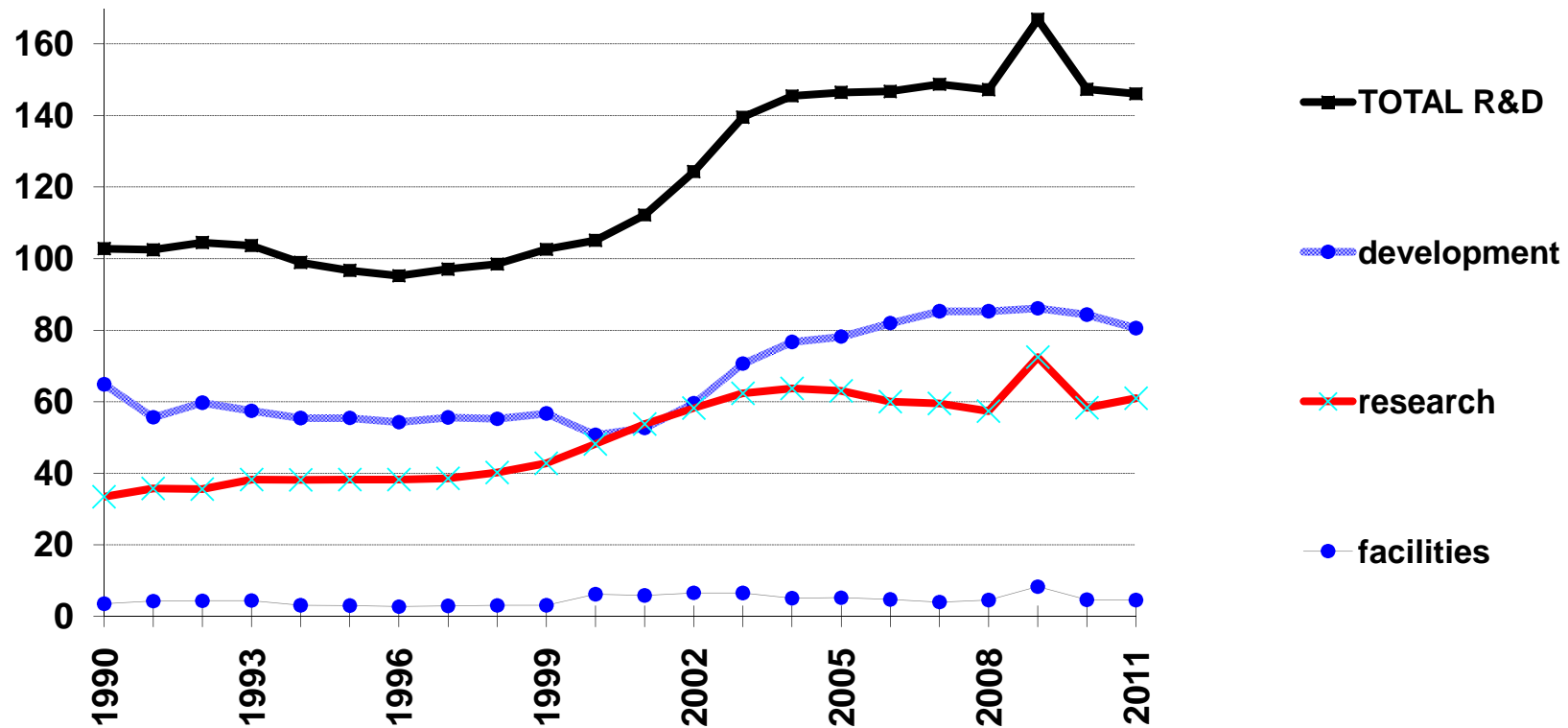
Trends in Federal R&D, FY 1976-2011

in billions of constant FY 2010 dollars



FY 2009 figures include Recovery Act appropriations.
R&D includes conduct of R&D and R&D facilities.
FEB. '10 OSTP

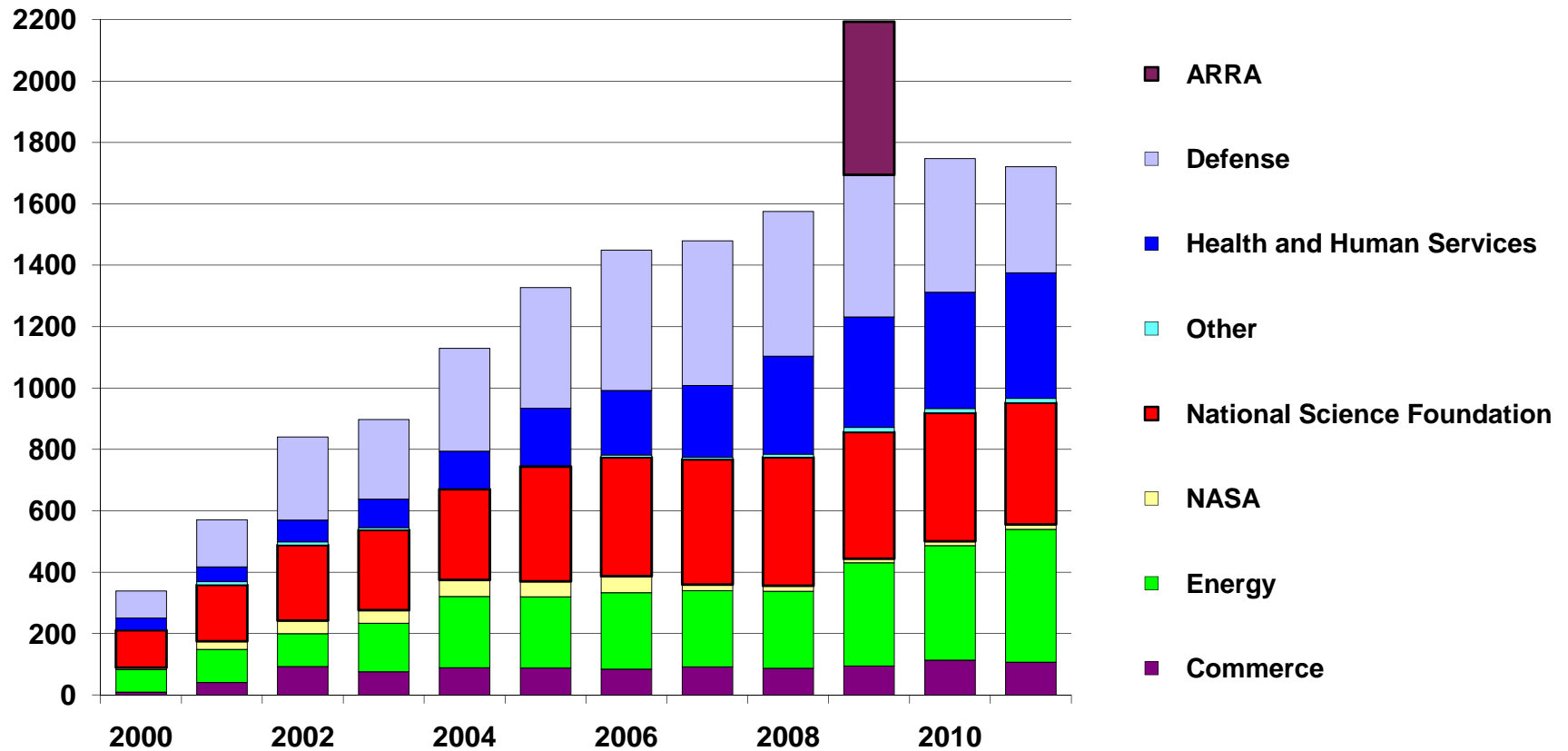
Trends in Federal R&D, FY 1990-2011 in billions of constant FY 2010 dollars



FY 2009 figures include Recovery Act appropriations.
Research includes basic research and applied research.
FEB. '10 OSTP

National Nanotechnology Initiative, by Agency

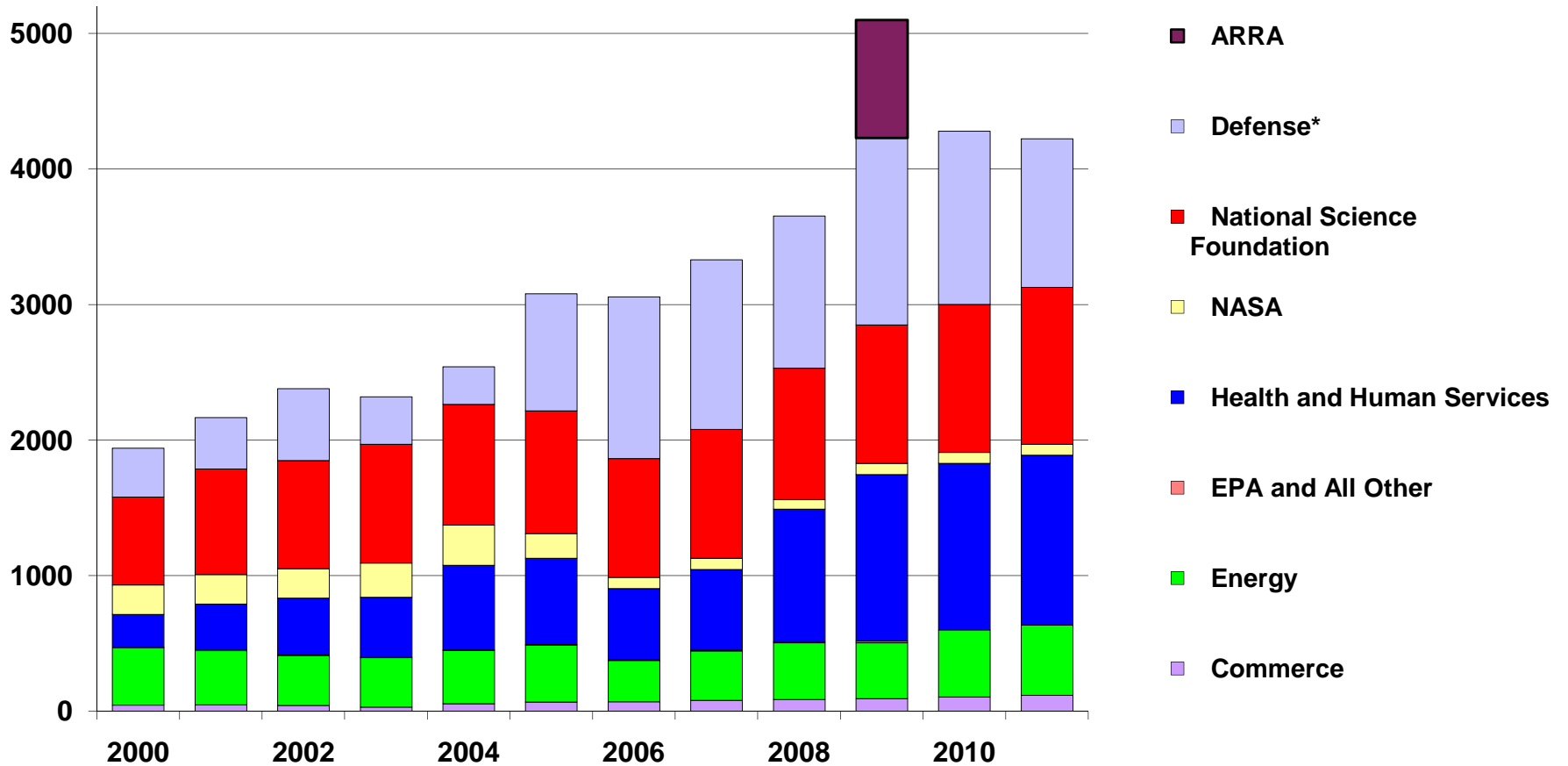
(budget authority in millions of constant FY 2010 dollars, FY 2000-2011)



FY 2009 figures include allocations of Recovery Act funding.
 FEB. '10 OSTP

Networking and Information Technology R&D, by Agency

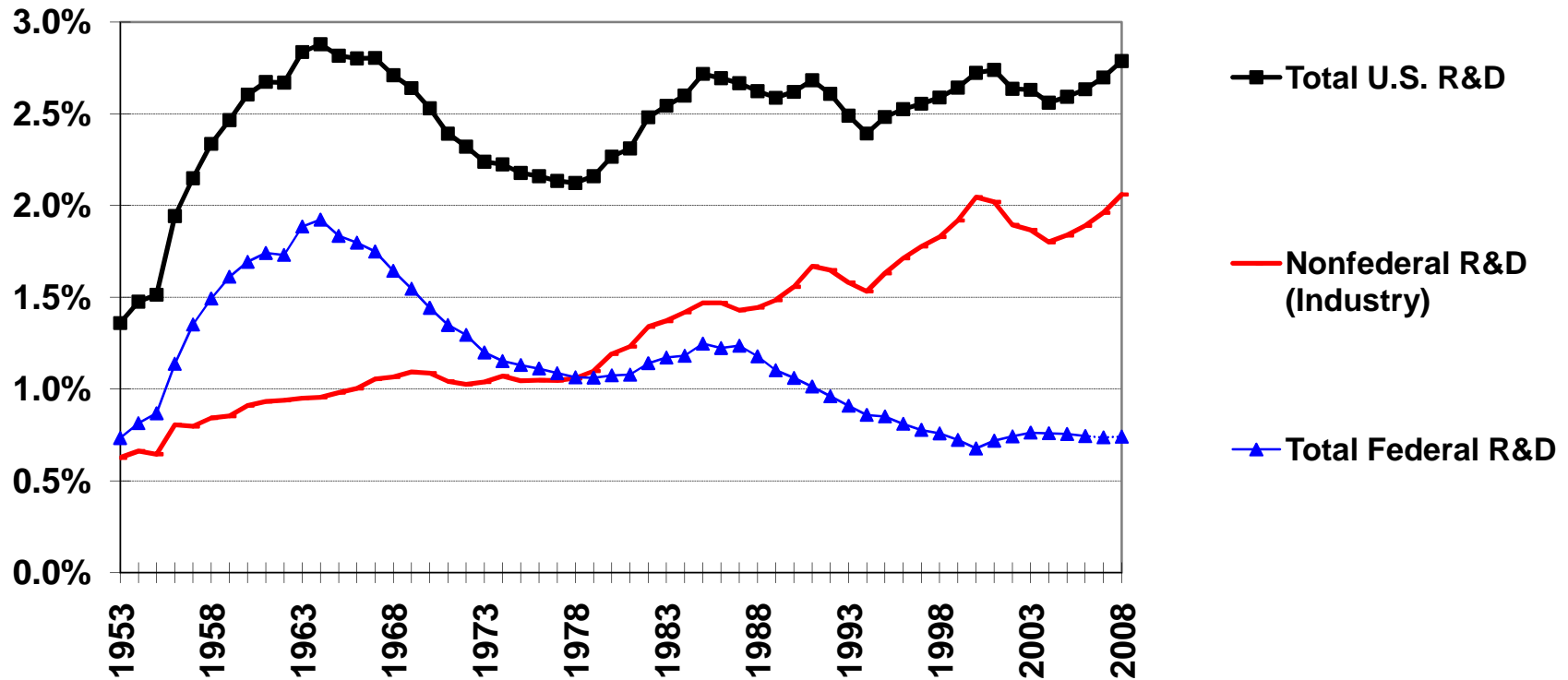
(budget authority in millions of constant FY 2010 dollars, FY 2000-2011)



* DOD changed its accounting starting in 2005, resulting in larger totals. FY 2009 figures include allocations of Recovery Act funding. FEB. '10 OSTP

U.S. R&D as Percent of Gross Domestic Product

Total, Industrial, and Federal R&D - 1953-2008



NSF, Division of Science Resources Statistics.
OSTP JANUARY '10