

Obama Administration Science and Technology Priorities for 2011

August 23, 2010

*Grants Resource Center External Funding
Conference*

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Office of Science & Technology Policy
Executive Office of the President

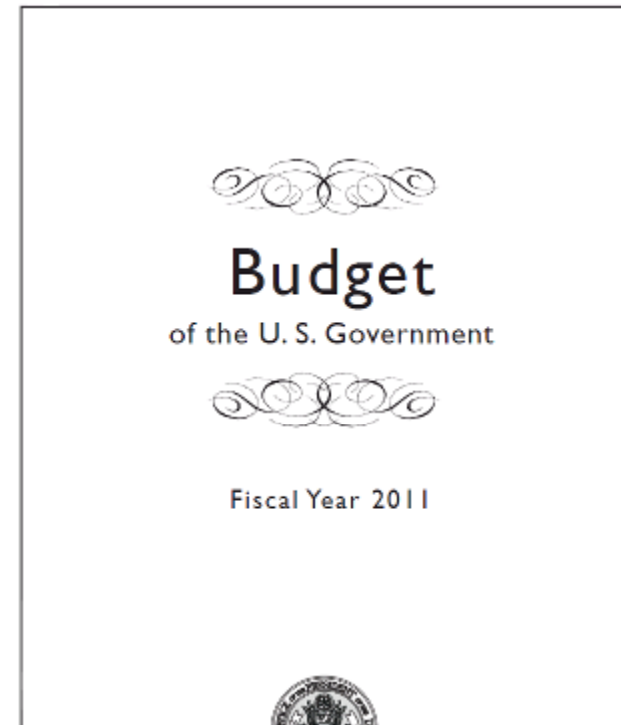


“Science is more essential for our prosperity, our security, our health, our environment, and our quality of life than it has ever been before.”

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

R&D in the 2011 Budget

- Investing in the sciences, health, energy / climate, and security are Administration priorities in the 2011 Budget.
- The America COMPETES Reauthorization Act would carry forward the doubling vision for three key science agencies.



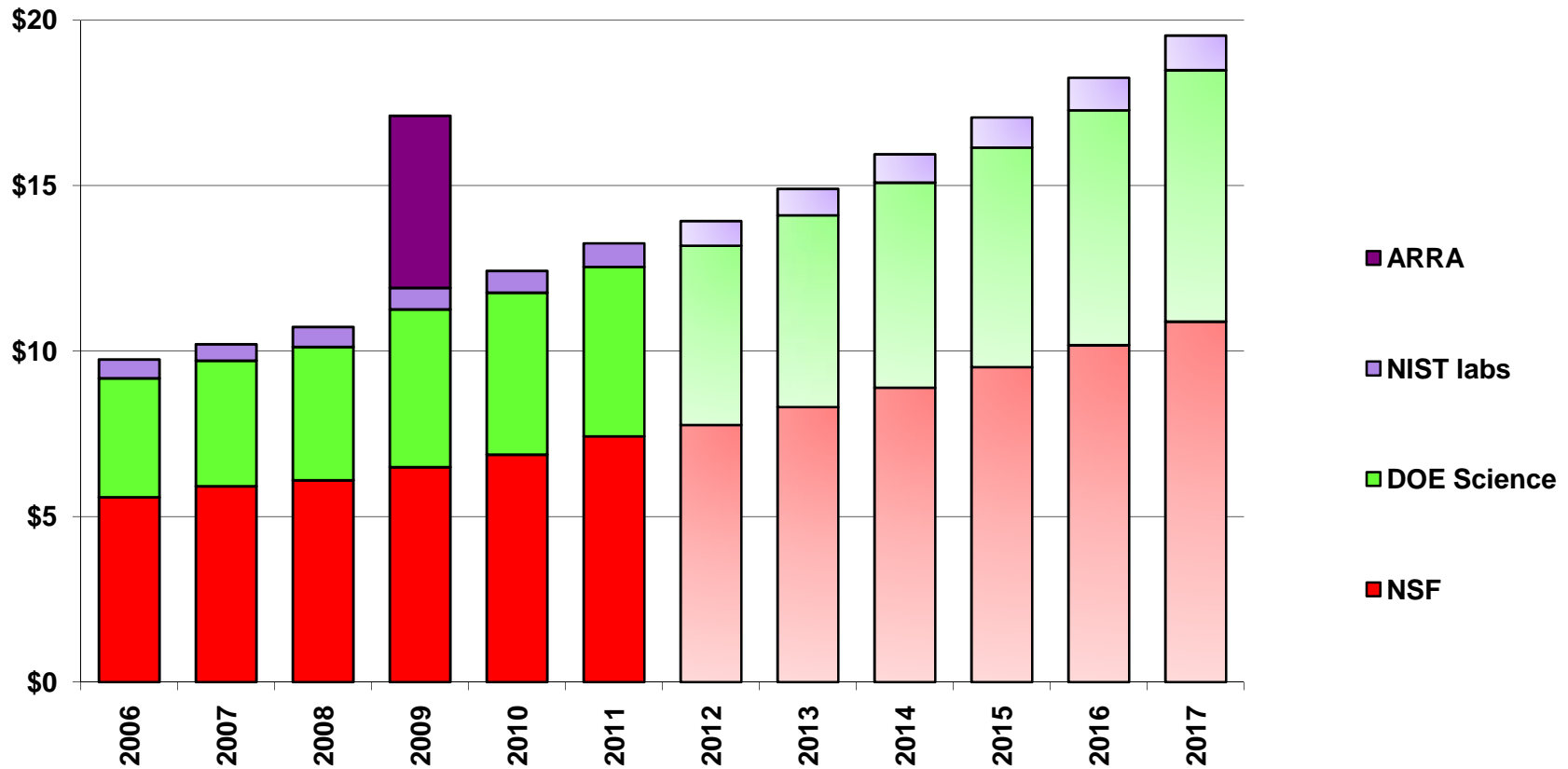
Office of Management and Budget
www.budget.gov



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

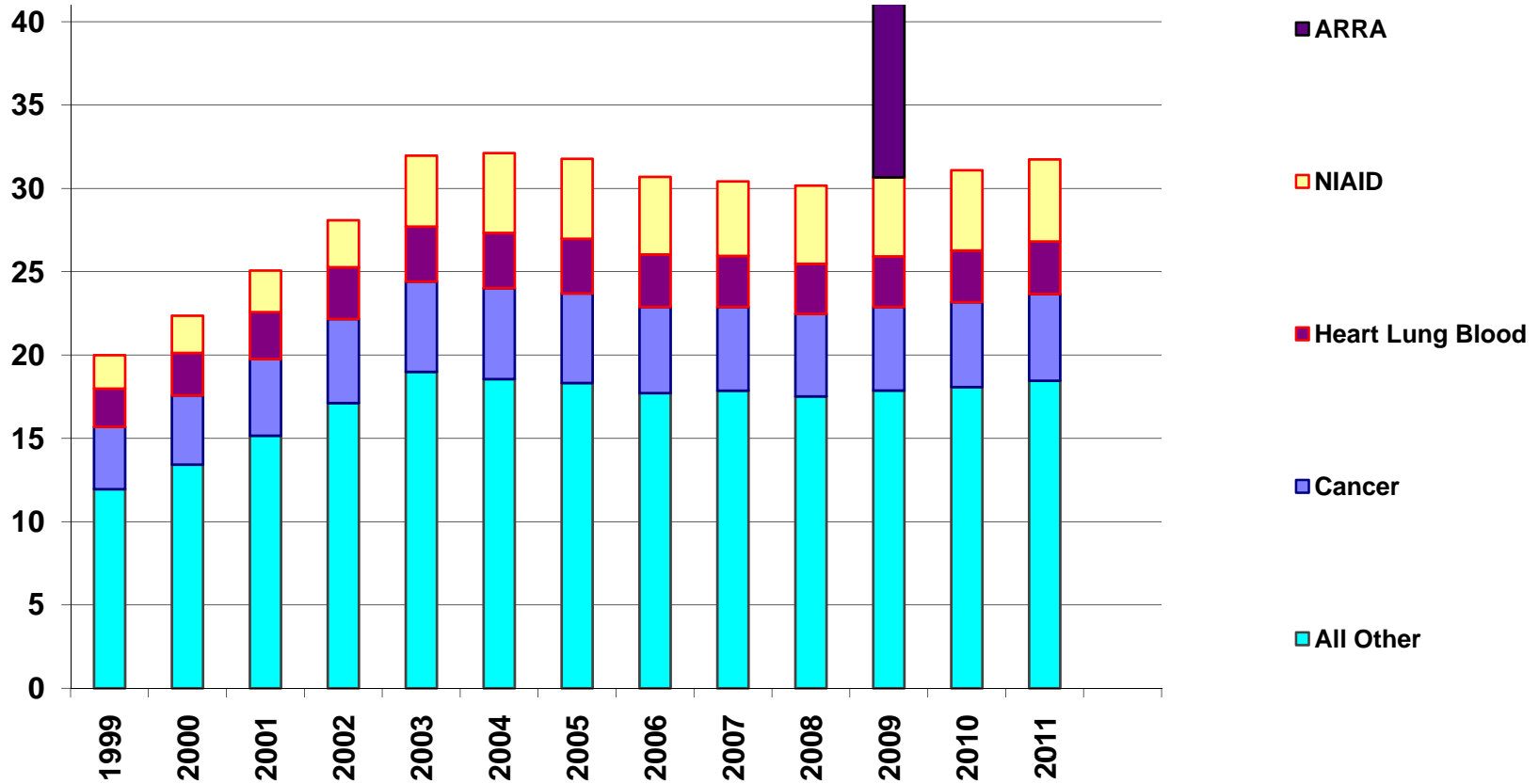
(budget authority in billions of current dollars)



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

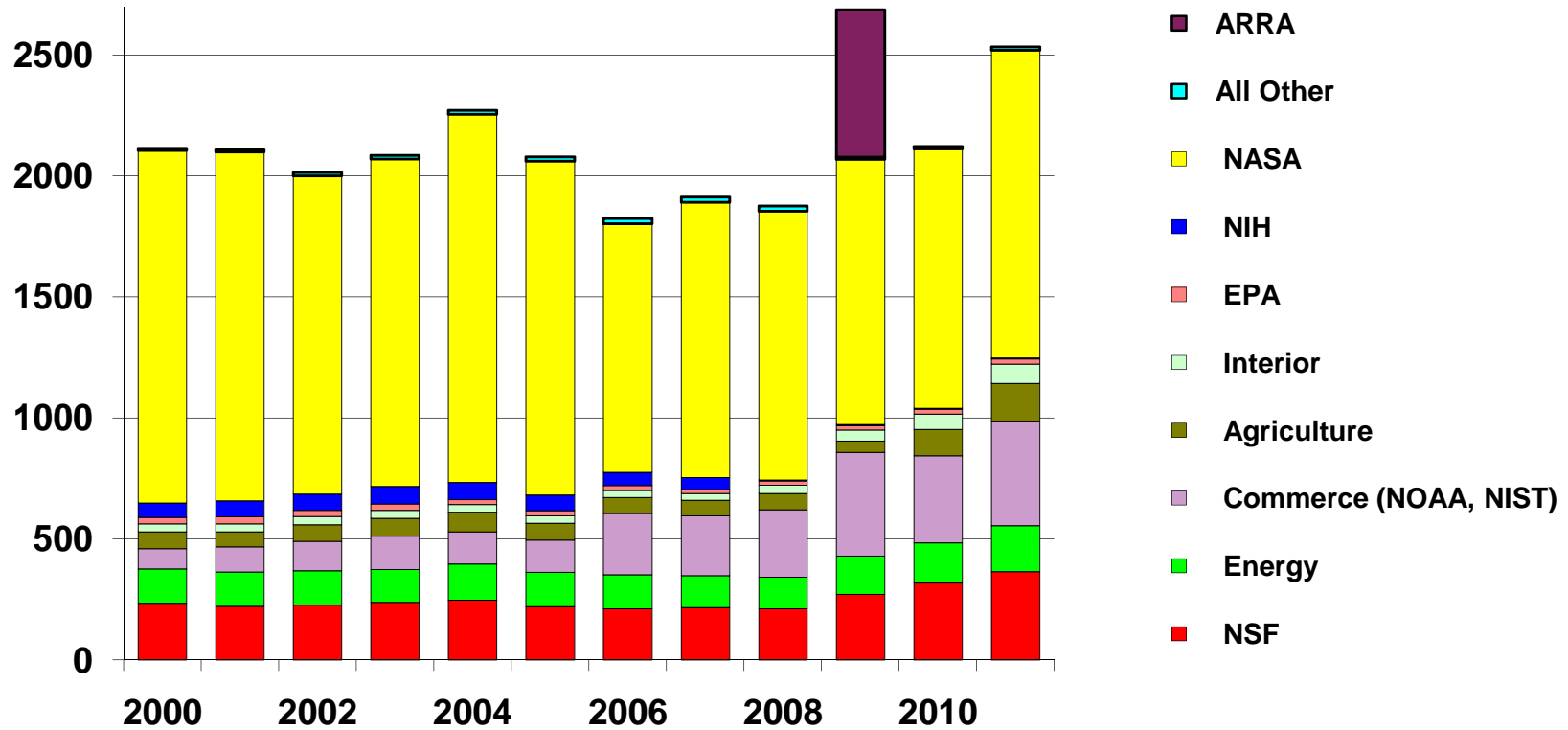
National Institutes of Health Budget with Select Institutes, 1999-2011

(budget authority in billions of constant FY 2010 dollars)



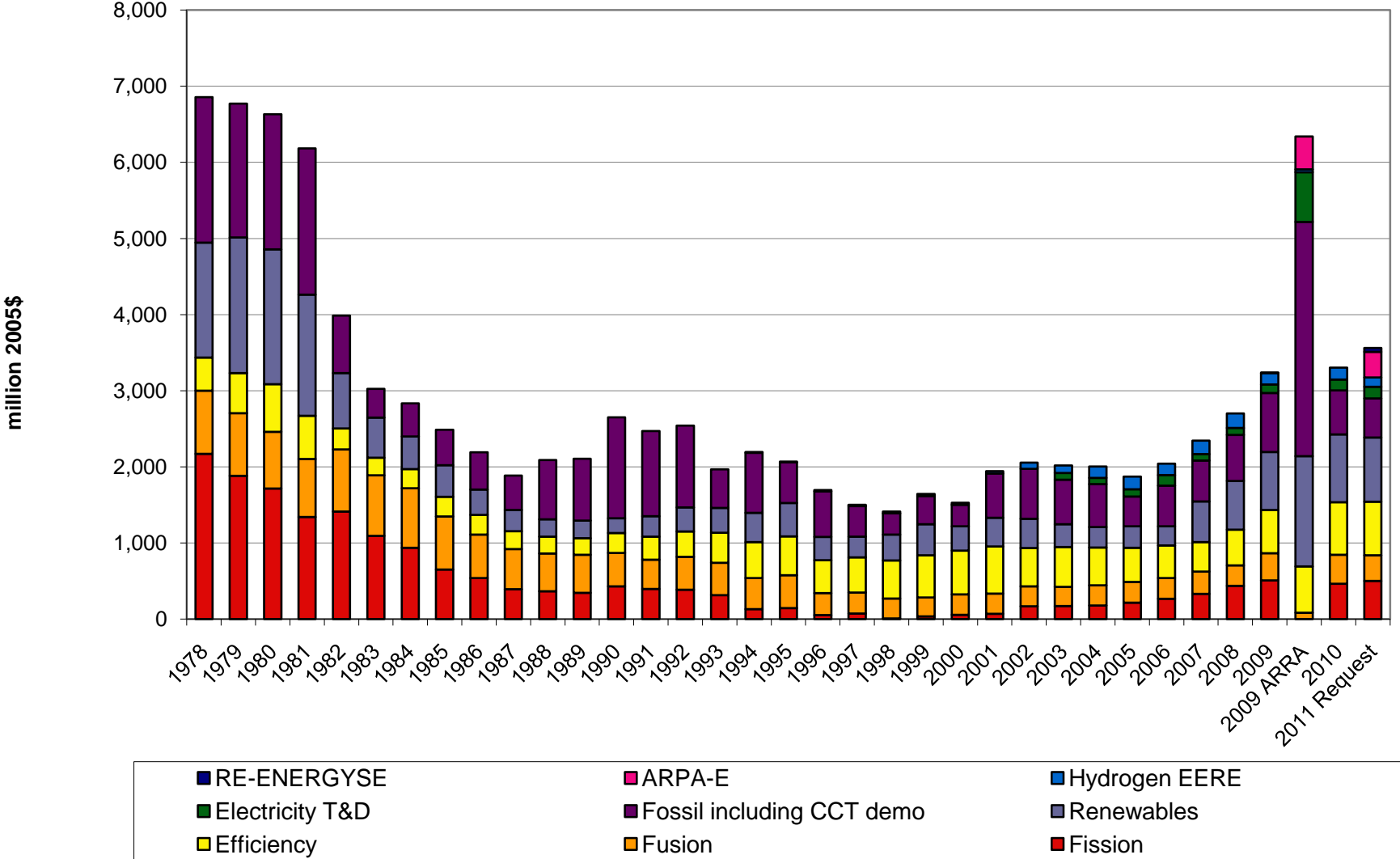
US Global Change Research Program, by Agency

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



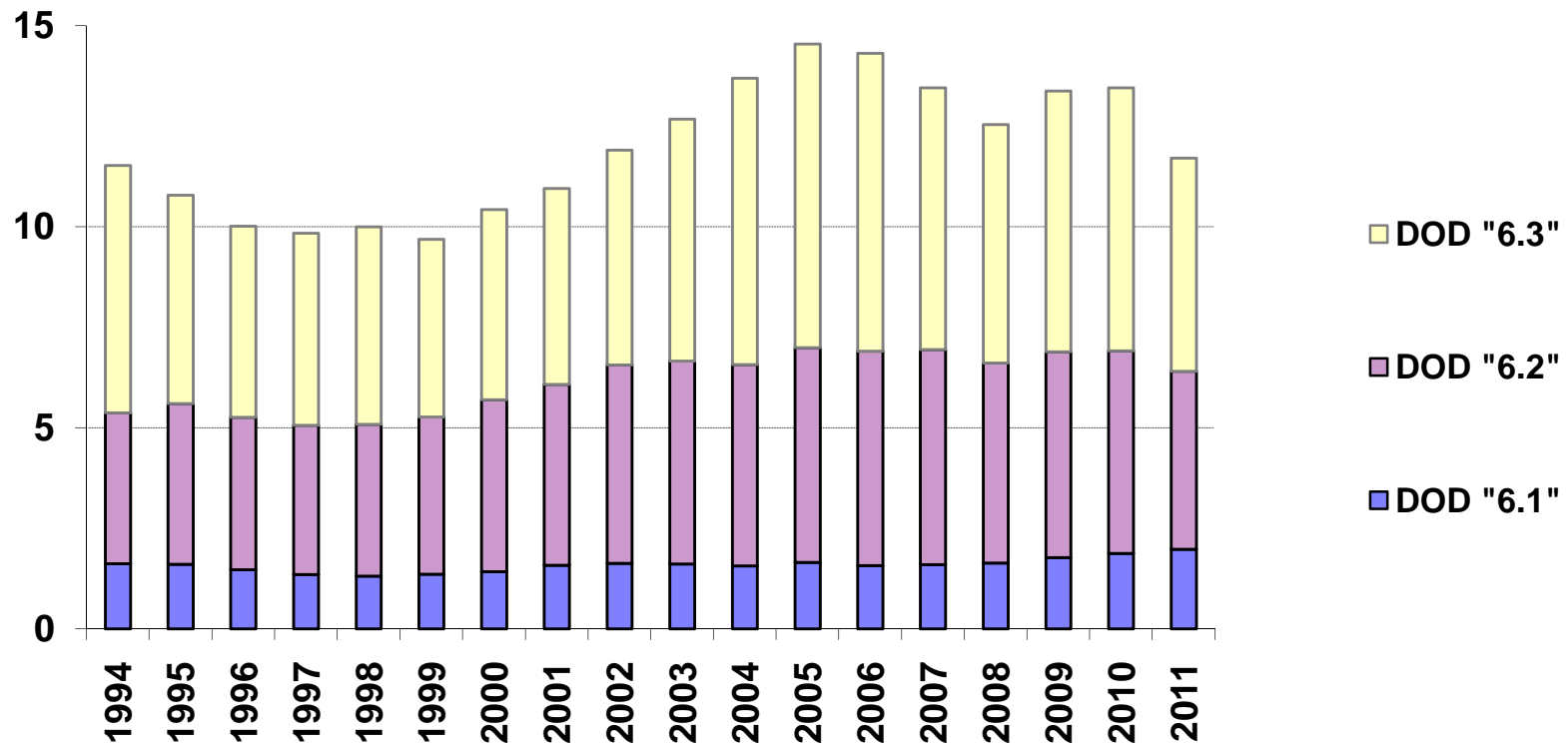
FY 2009 figures include Recovery Act funding.
 FEB. '10 OSTP

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



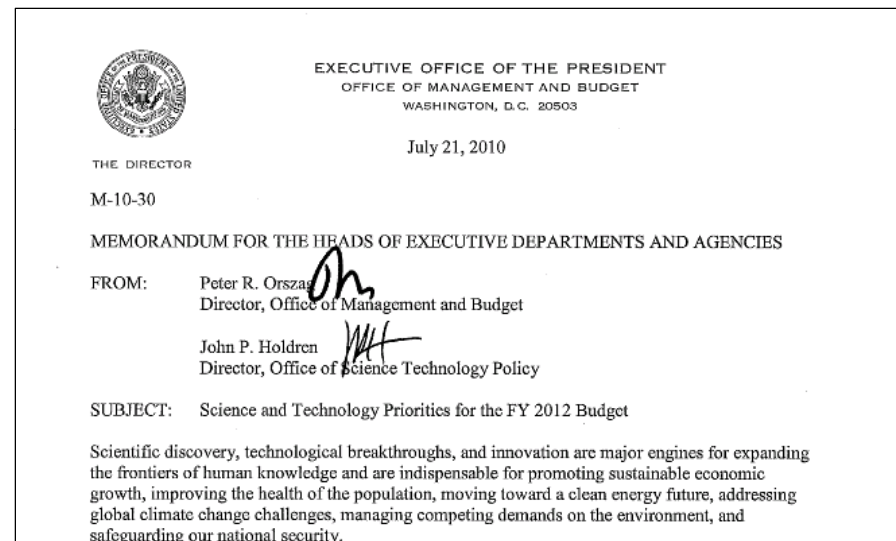
Gallagher, K.S. and L.D. Anadon, "DOE Budget Authority for Energy Research, Development, and Demonstration Database," Energy Technology Innovation Policy, John F. Kennedy School of Government, Harvard University, February 19, 2010.

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



The 2012 Budget

- 2012 will be a very tough year.
- Agencies are asked to prepare -5% budgets.
- OSTP and OMB recently released the 2012 R&D Priorities memo.



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Administration R&D Priorities

- Promoting sustainable economic growth and job creation
- Defeating the most dangerous diseases and achieving better health outcomes
- Moving toward a clean energy future
- Understanding, adapting to, and mitigating the impacts of global climate change
- Managing competing demands on natural resources, based on sustainability and biodiversity
- Developing the technologies to protect our troops, citizens, and national interests



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Administration Leadership on STEM

“Competitive priority” for STEM plans in historic \$4.3B grant competition

Key Levers

- STEM is the only “competitive priority” in the RTT competition
- States must have a comprehensive strategy . “All of nothing” points with three criteria: (1) offer a rigorous course of study, (2) build partnerships with industry, universities, others (3) have a plan for broadening participation
- FY11 Budget calls for \$1.3B more in RTT, additional \$500M in Invest in Innovation with \$150 for STEM



“Educate to Innovate” Launched in November

Public-Private Campaign to Spur STEM; \$500M already raised

Some Key Partnerships

- National Lab Day
- SMTI and NMSI Teacher Initiative
- STEM Game Design Competition
- Private Sector Leaders
- Annual White House Science Fair

“Through these efforts, we're going to expand the scope and scale of science and math education all across America.”



—President Barack Obama, November 3rd, 2009



Thank You

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The screenshot shows the official website of the Office of Science and Technology Policy (OSTP) at the White House. The header features the White House logo and navigation links such as 'BLOG', 'PHOTOS & VIDEO', 'BRIEFING ROOM', 'ISSUES', 'the ADMINISTRATION', 'the WHITE HOUSE', and 'our GOVERNMENT'. Below the header, the page title is 'Office of Science and Technology Policy'. A search bar is visible with the text 'Search WhiteHouse.gov'. The main content area has a dark blue background with the text 'SCIENCE, TECHNOLOGY and INNOVATION' in large, white, serif font. Below this, a quote from President Barack Obama reads: 'Whether it's improving our health or harnessing clean energy, protecting our security or succeeding in the global economy, our future depends on reaffirming America's role as the world's engine of scientific discovery and technological innovation.' To the right of the text is a photograph of President Barack Obama in a dark suit, talking to a woman in a bright green jacket and a man in a dark suit. The overall design is professional and official.



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