

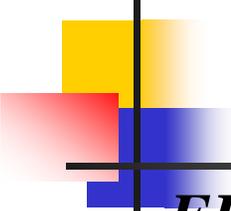
# U.S. Environmental Protection Agency

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## FY 2011 President's Budget

*Prepared for the Science Advisory Board February 19, 2010*





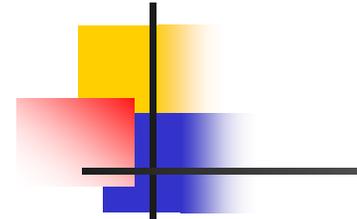
# FY 2011 President's Budget Request

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- *EPA's FY 2011 Budget Request totals \$10.02 billion.*
- *The FY 2011 Request builds on past successes by:*
  - *Taking action on climate change,*
  - *Improving air quality,*
  - *Assuring the safety of chemicals,*
  - *Cleaning up our communities,*
  - *Protecting America's waters,*
  - *Expanding the conversation on environmentalism and working for environmental justice and*
  - *Building strong State and Tribal partnerships*

# EPA's Resources by Major Category

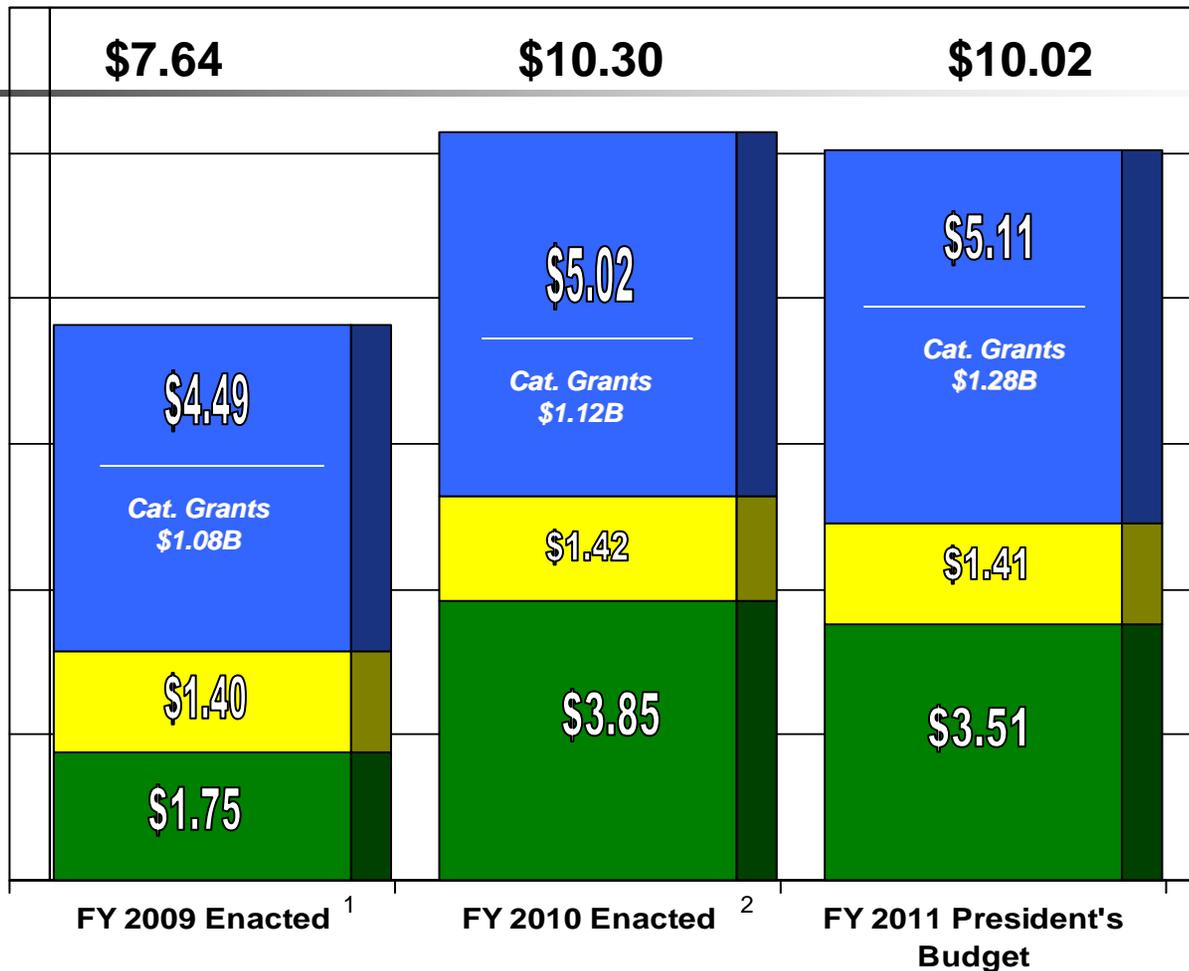
FY 2009- FY 2011 (Dollars in Billions)



**Operating Programs (EPM, S&T, B&F, Oil, IG, and STAG)** The Agency's core regulatory, research, enforcement activities and grants to States and other partners.

**Trust Funds (Superfund and LUST)** Support Superfund and LUST programs.

**Infrastructure Financing (STAG)** Includes Clean Water State Revolving Fund, Drinking Water State Revolving Fund, Diesel Grants and Special Projects.



**Notes:**

Totals may not add because of rounding.

1 FY 2009 and FY 2011 include a \$10 M rescission to prior year funds.

2 FY 2010 includes a \$40 M rescission to prior year funds.



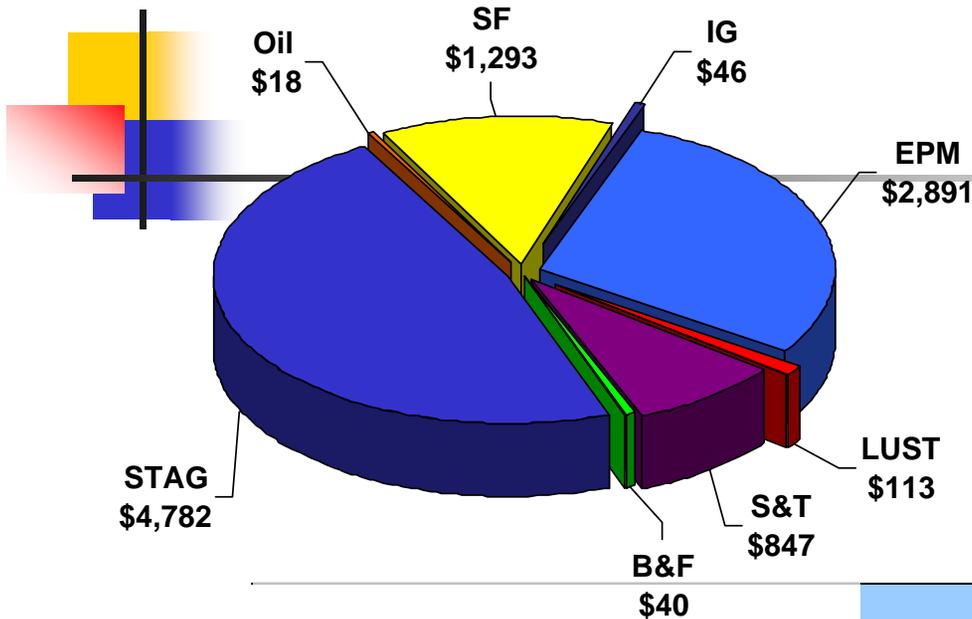
# Big Picture – What Changed?

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- Increased categorical grants to highest level ever
  - New regulations & new demands on states
    - Particular focus on Air & Water
- Focus on community-level implementation – bringing environmental protection to where people live, work, and play.
- Decreased some areas where 2009 Recovery Act and 2010 large increases are still being implemented
  - SRFs
  - Great Lakes

# FY 2011 Appropriation Totals

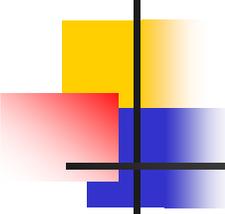
(Dollars in Millions)



**FY 2011 President's Budget  
\$10.02 Billion**

	<i>FY 2009 Enacted</i>	<i>FY 2010 Enacted</i>	<i>FY 2011 PresBud</i>	<i>10 EN to 11 PB</i>
EPM	\$2,392	\$2,994	\$2,891	-\$103
S&T (excludes SF transfer)	\$790	\$846	\$847	\$1
B&F	\$35	\$37	\$40	\$3
STAG	\$2,976	\$4,978	\$4,782	-\$196
LUST	\$112	\$113	\$113	\$0
Oil	\$18	\$18	\$18	\$0
IG (excludes SF transfer)	\$44	\$45	\$46	\$1
SF (includes transfers to IG and S&T)	\$1,285	\$1,307	\$1,293	-\$14
Rescission to Prior Year Funding	(\$10)	(\$40)	(\$10)	\$30
<b>TOTAL</b>	<b>\$7,642</b>	<b>\$10,298</b>	<b>\$10,020</b>	<b>\$2,656</b>

Note: Numbers may not add because of rounding.

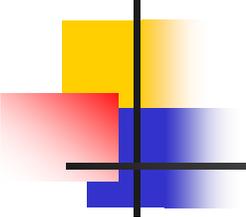


# Budget Request Highlights

## FY 2011 Request

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- Taking Action on Climate Change & Air Quality Management (+50 M)
  - Implementing the GHG Registry and 2010 mobile source regulations
  - Preparing Clean Air Act regulations and analyses on GHGs based on the endangerment finding
  - Preparing assessments and analyses for other potential GHG limiting work
  - Continuing to build the scientific and legal foundation for Carbon Capture and Sequestration
  
- Cleaning Up Our Communities (+68M)
  - Brownfields
  - Clean, Green and Healthy Schools
  - Air Toxics in Communities
  - Sustainable Communities
  - Community Water Priorities
  - Maintaining a Strong Superfund Program



# Budget Request Highlights

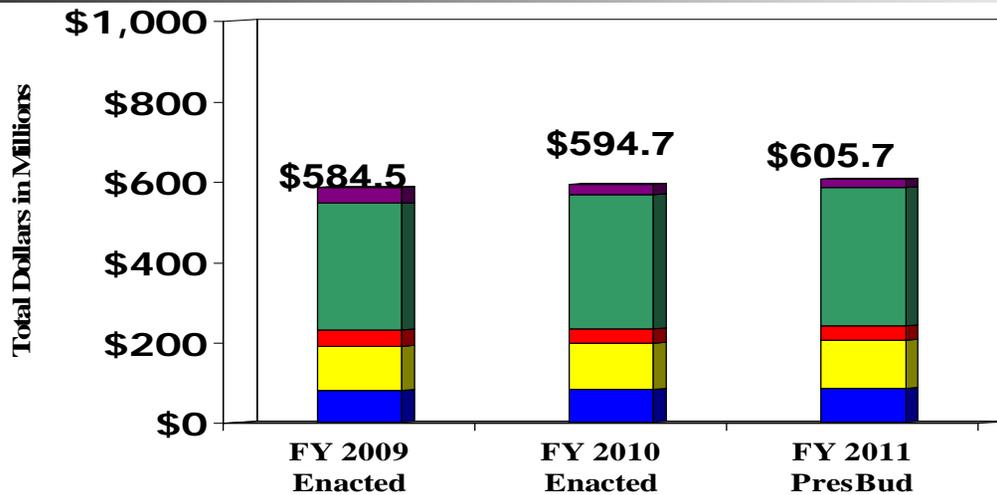
## FY 2011 Request

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- **Protecting America's Waters (+30M)**
  - Chesapeake Bay
  - Mississippi River Basin Initiative
  - Maintaining Strong Support for Water Infrastructure (\$3.3B total)
- **Building Strong State and Tribal Partnerships (+\$157M)**
  - State and Local Air Quality Management Grants (+\$82M)
  - State Water Pollution Control Grants (+\$45M)
  - Multi-Media Tribal Implementation Grants (+\$30M)
- **Strengthening Research (+\$11M, \$606M total)**

# Enhance Science and Research Objective

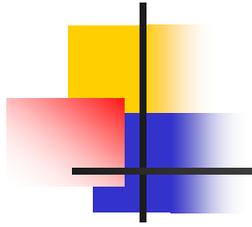
*(Dollars in Millions)*



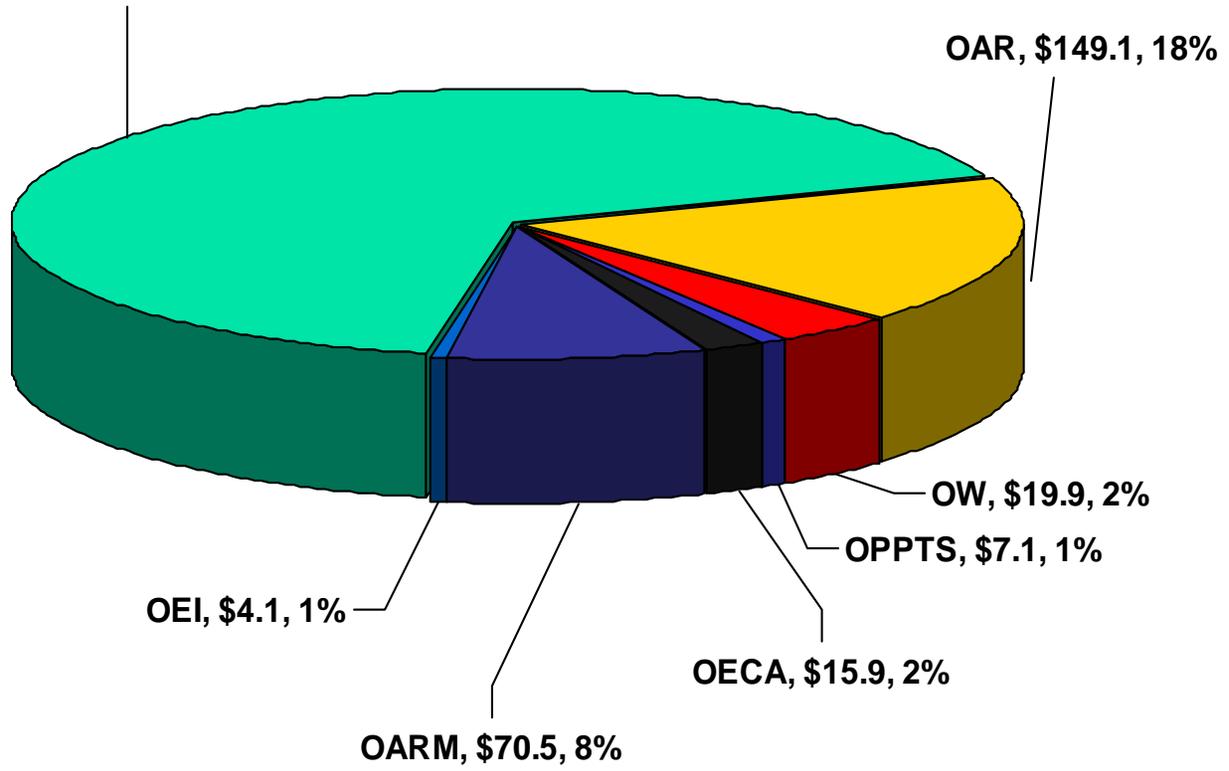
- Goal 5: Compliance & Environmental Stewardship
- Goal 4: Healthy Communities & Ecosystems
- Goal 3: Land Preservation & Restoration
- Goal 2: Clean and Safe Water
- Goal 1: Clean Air and Global Climate Change

# FY 2011 S&T Request by NPM

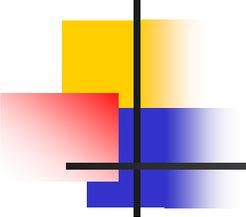
(Dollars in Millions)



ORD, \$580.0, 69%



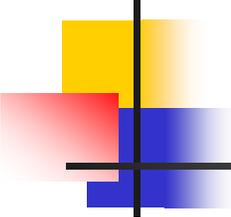
- Office of Research and Development
- Office of Air and Radiation
- Office of Water
- Office of Prevention, Pesticides and Toxic Substances
- Office of Enforcement and Compliance Assistance
- Office of Administration and Resource Management
- Office of Environmental Information



# Stepping Back: the Government-wide R & D Perspective

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- FY 2011 R & D Budget is \$147.7B, \$59B of which is basic or applied research
- This is the third consecutive year of increases after 4 years of decline
- DOD has over half of the R & D pie with \$83B,
  - HHS \$33B,
  - DOE \$11B,
  - NSF \$7.4B,
  - USDA \$2.4B,
  - NASA \$1.8B,
  - DHS \$1.0B,
  - NOAA \$1.6B,
  - EPA \$606M (+1.8% over FY '10)



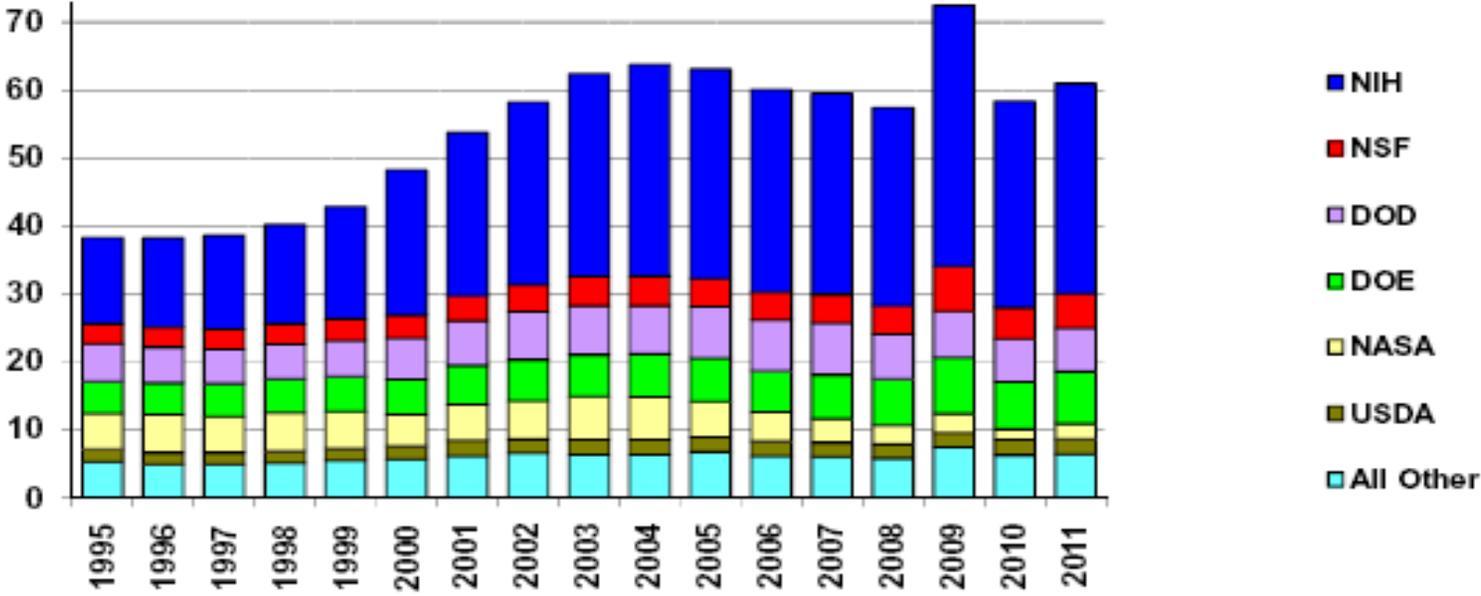
# Stepping Back: the Government-wide R & D Perspective

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- The Administration has committed to doubling funding in ten years for key S & T agencies NSF, NIST and DOE Office of Science; on pace to hit goal by FY 2016
- Public and private R & D funding is 2.6% of GDP today; another \$50B investment is needed to meet the President's goal of 3%
- One area of focus is building national science capacity for the future – supporting education and academic research opportunities
- Bottom line: Science budgets are on the rise

# Government-wide Perspective

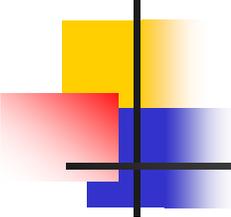
Trends in Research by Agency, FY 1995-2011  
in billions of constant FY 2010 dollars



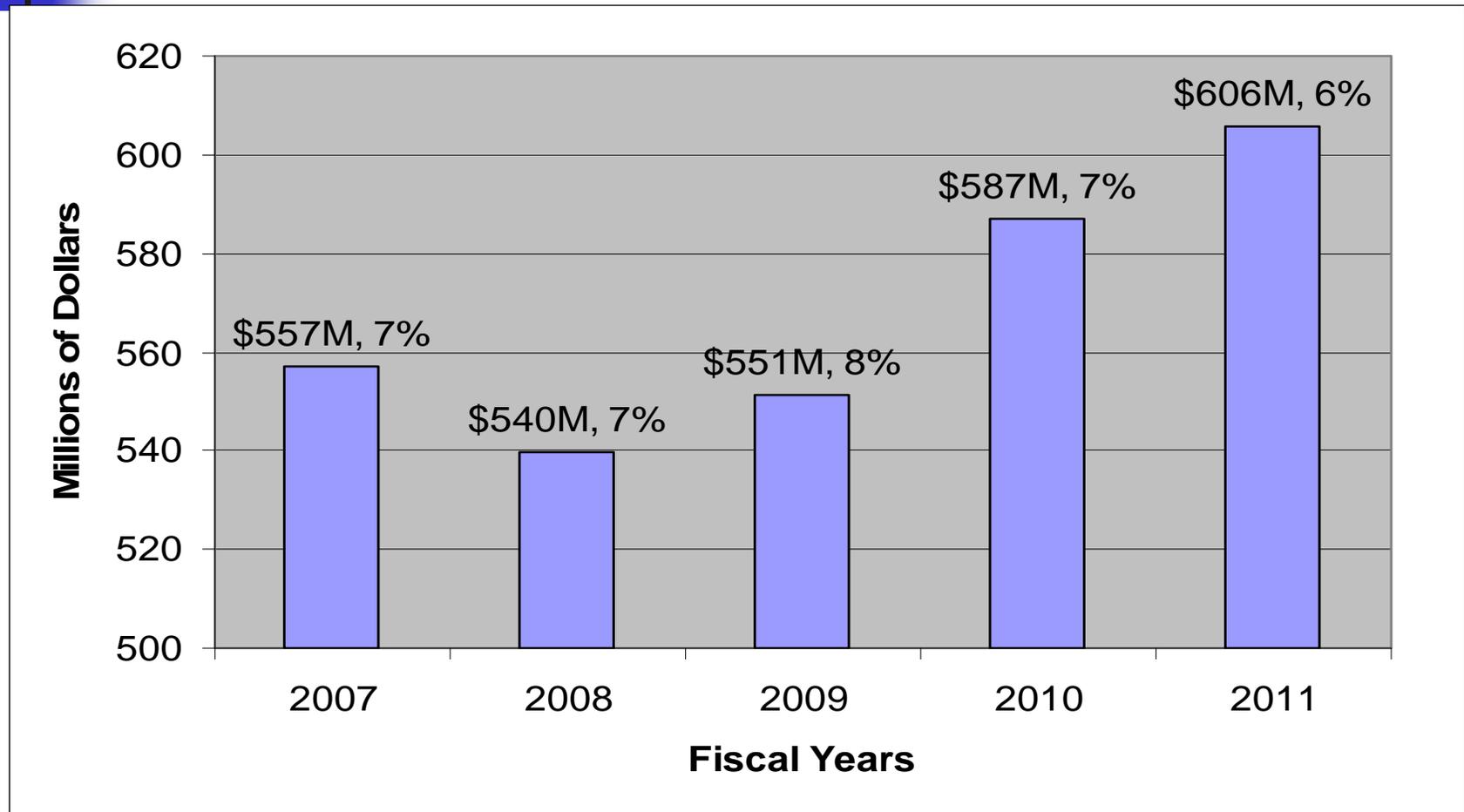
FY 2009 figures include Recovery Act appropriations. Research includes basic research and applied research.  
FEB. '10 OSTP

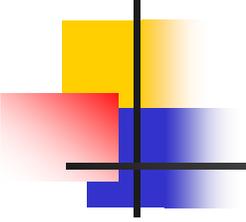
Figure 1.

# EPA Research is Foundational

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- Science must be the compass guiding our environmental protection decisions.
  - The public health and environmental laws that Congress has enacted depend on rigorous adherence to the best available science.
  - Scientific findings should be arrived at independently using well-established scientific methods, including peer review, to assure rigor, accuracy and impartiality.
  - There should be transparency in the preparation, identification and use of scientific and technological information in policymaking.
  - The March 2009 Presidential Memo and June Administrator testimony at the SEPW Scientific Integrity hearing affirm these principles and commit to the highest standards of scientific integrity.

# ORD President Budget Levels FY 2008-2011 and % of Agency Budget



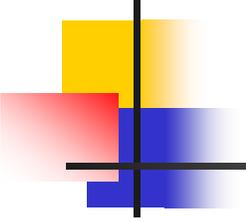


## FY 2010 S&T Highlights- EPA

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### ***S&T Highlights outside of the Office of Research and Development:***

- An \$8.8 million increase for Federal Vehicle and Fuels Standards and Certification to promote clean air efforts.
- A \$6.9 million decrease to reflect completion of funding for the establishment of five full-scale contamination warning system demonstration pilots in public water systems under the Water Security Initiative (WSI).



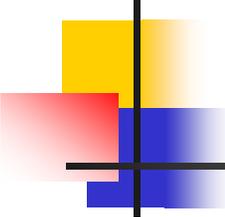
## FY 2011 S&T Highlights- ORD

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*EPA continues to provide strong support for research addressing the Nation's most critical environmental issues which are becoming increasingly complex. ORD received a 1.8% increase in FY 2011 PB. Highlights include:*

- **STAR grants (+\$25.8M)** Requests a total of \$87.2M for research in key areas of Administrator's priorities.
- **Computational Toxicology (+\$1.9M)** Requests a total of \$21.9M to speed development of next generation tools and facilitate implementation of the Agency's Endocrine Disruptor program.

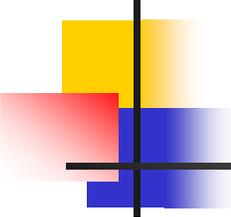
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# FY 2011 S&T Highlights- ORD

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- **Green Water Infrastructure Research (+\$6.0M)** Provides a total of \$10.3M and expands research to assess, develop and compile scientifically rigorous tools to be used by Agency Offices, States and localities to help develop and deploy green infrastructure.
- **Hydraulic Fracturing Research (+\$2.5M)** Provides a total of \$4.3M to research the impact on drinking water.
- **Air Quality Research (+\$3.4M)** Provides a total of \$85.3M to develop and maintain a next generation monitoring network for ambient air pollutants.
- **Nanotechnology Research Fellowships (+6.2M)** Supports STAR fellowships and promotes the safe development, use and disposal/recycling of products containing nanomaterials. Increase supports the Agency's priority to ensure a large and well-trained scientific workforce.



## ORD Components of FY 2010 Enacted Budget reduced or not sustained in FY 2011

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- \$4.7M in Congressionally Mandated Projects were not sustained
- \$4.3M reduction for Homeland Security research
- \$2.5M reduction for mercury research to address higher priority research needs
- \$1.5M reduction in pesticides and toxics biotechnology to shift focus to assuring the safety of chemicals and expanding efforts in green chemistry and green engineering