

Overview: EPA's Office of Research and Development (ORD)

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ORD Mission

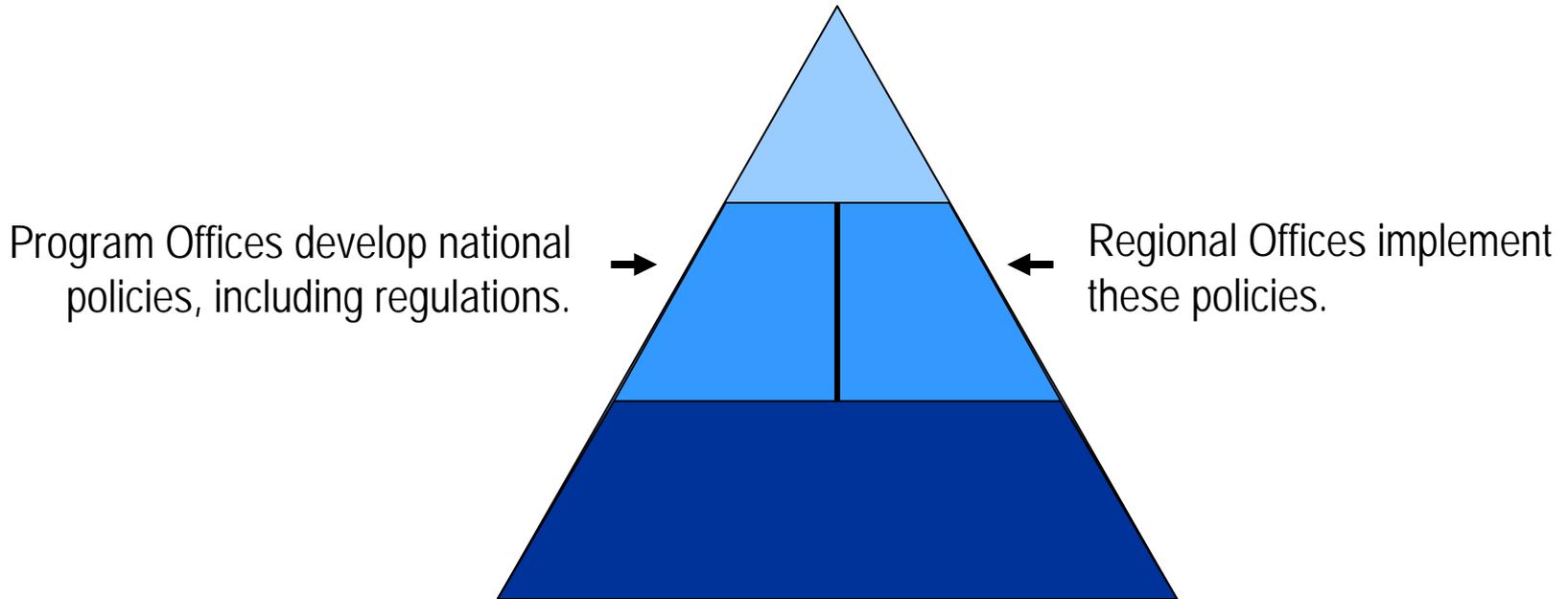
Provide the scientific foundation to support the EPA's mission by:

- **Conducting research and development** to identify, understand, and solve current and future environmental problems
- **Providing responsive technical support** to EPA's Programs and Regions
- **Collaborating with our scientific partners** in academia and other agencies, private-sector organizations, state and tribal governments, and other nations
- **Exercising leadership** in addressing emerging environmental issues and advancing the science and technology of risk assessment and risk management



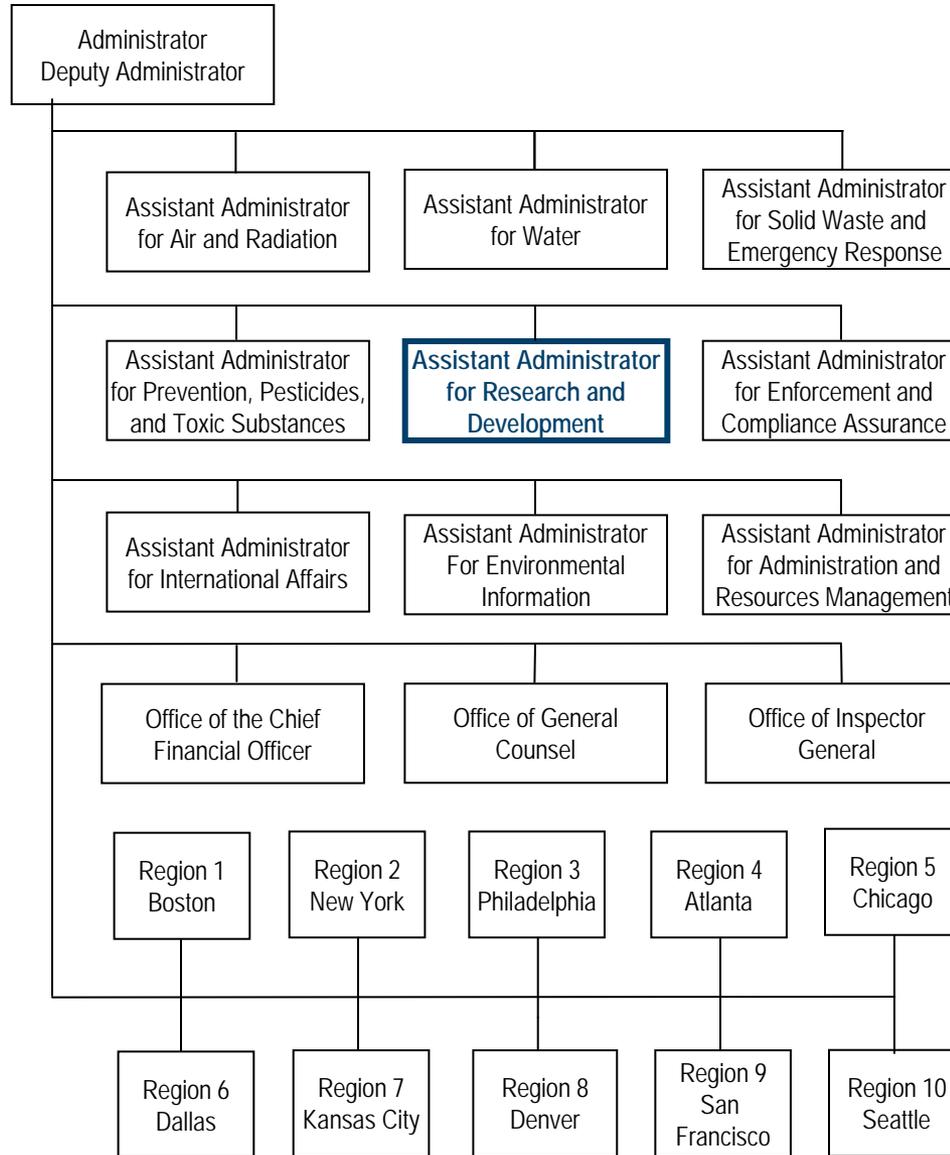
ORD Role

EPA's mission is to protect human health and safeguard the natural environment—air, water, land—upon which life depends.



The Office of Research and Development provides the scientific foundation to support EPA's mission.

U.S. EPA Organizational Chart



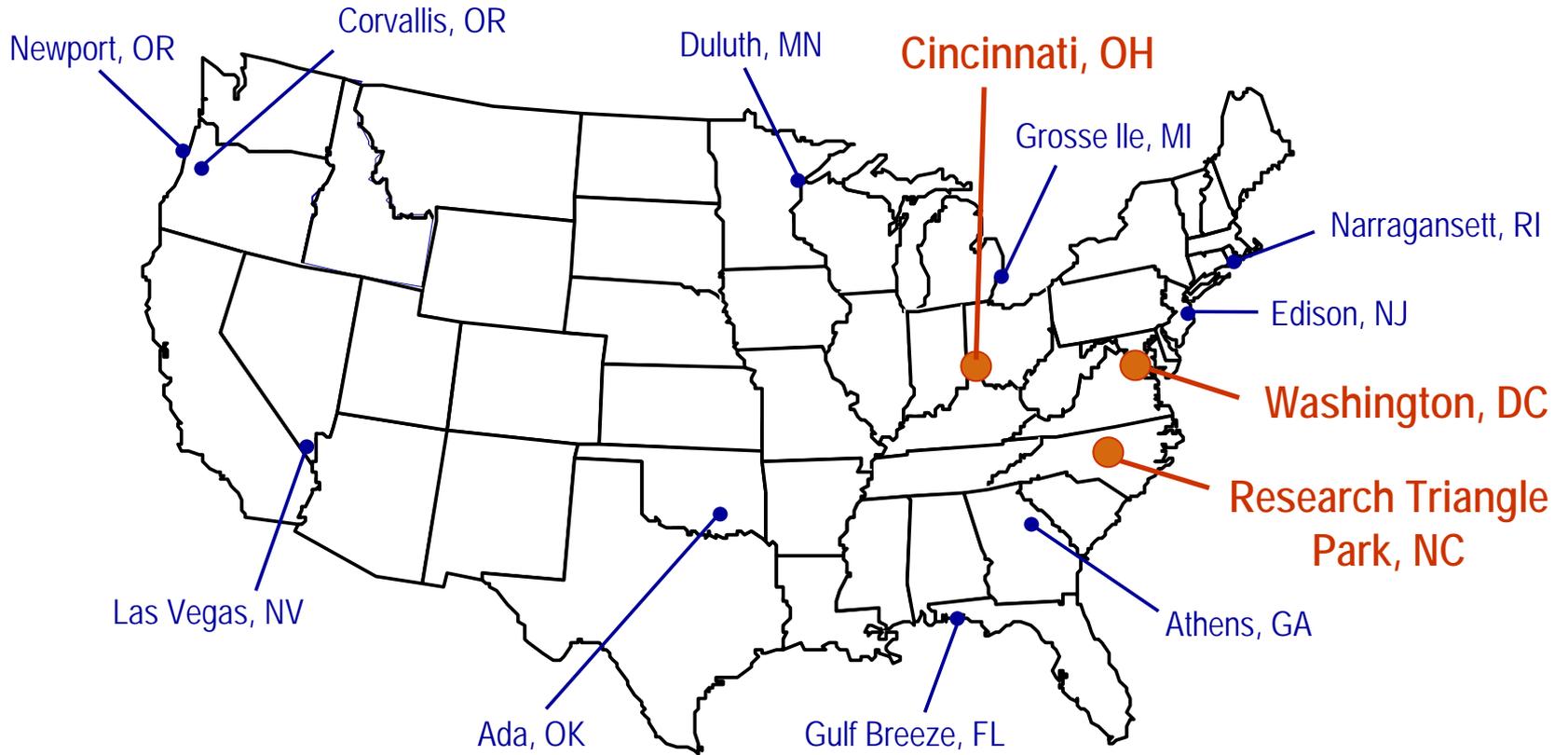
ORD Profile



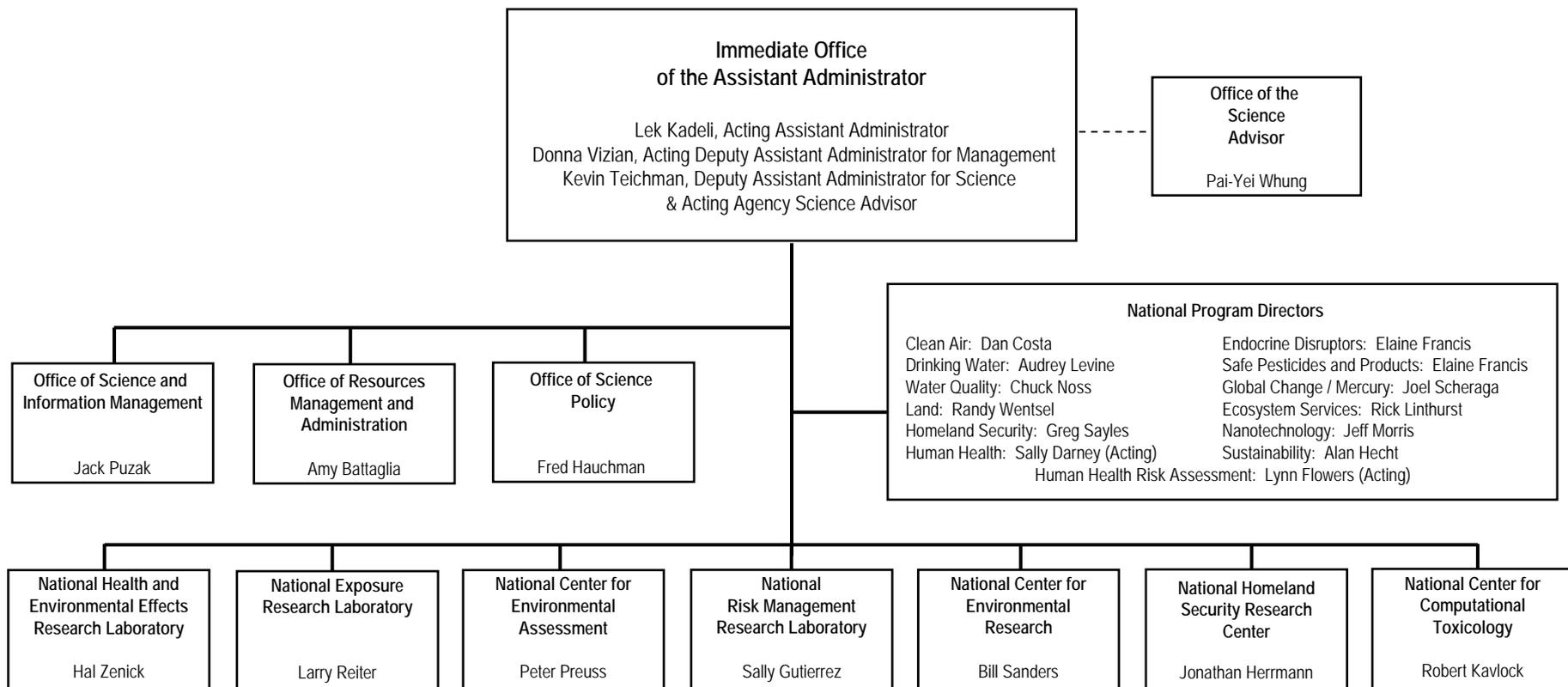
- 1,911 Full Time Equivalents*
- \$587 million budget*
 - Includes a \$63 million extramural research grant program
- 13 locations: Labs, Centers, and Offices

* FY 2010 President's Budget Request

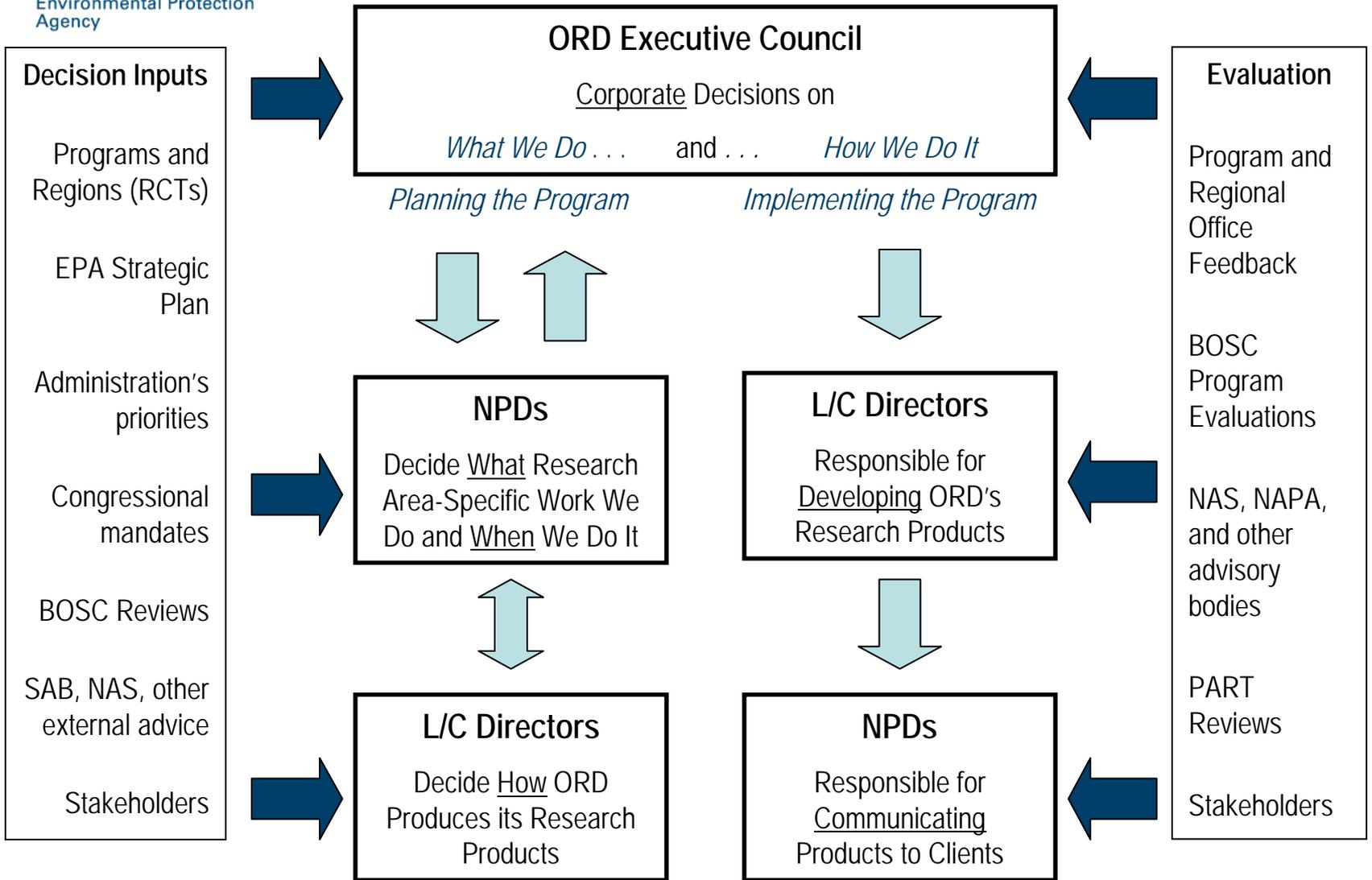
ORD Locations



ORD Organization



How ORD Develops its Research Programs



Planning and Budgeting Activities October 2009 - October 2010

FY 2011 Budget
Activities →

OMB Review, Budget Passback	Budget to Congress	SAB Review and Comment	Approp. for FY 2011
		Congressional Deliberations	



FY 2012 Budget
Activities →

ORD Annual Planning	EPA Budget Forum	Budget to OMB	OMB Review
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Strategic Planning
Activity →

SAB Consultation	SAB Report	ORD Review
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ORD Research Areas

Program-Targeted Research

- Air
- Drinking Water
- Water Quality
- Land Preservation and Restoration
- Safe Pesticides and Products
- Homeland Security



Cross-Program Research

- Human Health
- Ecosystem Services
- Human Health Risk Assessment
- Global Change
- Mercury
- Endocrine Disrupting Chemicals
- Computational Toxicology
- Nanotechnology
- Science and Technology for Sustainability
- Fellowships

FY 2010 President's Budget Resources for ORD

Program-Targeted Research		
	\$M	FTE
Air	\$83	270
Drinking Water	\$48	190
Water Quality	\$63	237
Land Preservation and Restoration	\$36	155
Safe Pesticides and Safe Products	\$28	137
Homeland Security	\$36	58

Total FY 2010 President's Budget was \$587M and 1,911 FTE

Note: Chart does not total due to some double-counting of the Nanotechnology Research Area.

Cross-Program Research		
	\$M	FTE
Human Health	\$63	195
Ecosystem Services	\$71	272
Human Health Risk Assessment	\$49	189
Global Change	\$21	36
Mercury	\$5	11
Endocrine Disrupting Chemicals	\$11	50
Computational Toxicology	\$20	33
Nanotechnology (resources contained in multiple programs)	\$18	33
Science and Technology for Sustainability	\$24	71
Fellowships	\$11	3

FY 2010 Appropriation: EPA Highlights

- The President signed the FY 2010 Appropriation into law on October 30, 2009.
- EPA's FY 2010 funding level is \$10.3 billion, \$2.7 billion above FY09 Enacted. Major investment areas include the following:
 - Clean Drinking Water & Wastewater: \$3.6 billion, \$2 billion above FY09, to help nearly 1,500 communities improve their drinking water and wastewater systems.
 - Great Bodies of Water: \$608 million, \$512 million above FY09, to protect the nation's great water bodies including the Great Lakes, San Francisco Bay, Puget Sound, and the Chesapeake Bay.
 - Hazardous Waste and Toxic Site Cleanup: \$1.5 billion, \$25 million above FY09, to clean up dangerous toxic waste at sites around the nation.
 - Climate Protection: \$152 million, \$23 million above FY09, to address climate change, including greenhouse gas reductions, development of a Greenhouse Gas Registry, and research.

FY 2010 Appropriation: ORD Highlights

- The FY 2010 President's Budget Request included increases in the following areas:
 - +\$5M for Biofuels
 - +\$5M for Computational Toxicology
 - +\$5M and 10 FTE for the Integrated Risk Information System (IRIS)
 - +\$3M for Water Quality / Green Infrastructure

- Major resource changes to the FY 2010 President's Budget included:
 - +\$3M for Human Health Research
 - +\$2M for Children's Centers
 - +\$1M to accelerate research on the effects of environmental chemicals and toxins on children
 - +\$4.7M for Congressional Priorities

- We anticipate normal adjustments associated with the Agency Operating Plan process.

Desired Outcomes For this Meeting

- Identify ways to optimize ORD's research program to meet both EPA's (frequently short-term) programmatic needs and key environmental challenges
 - In particular, those areas where ORD is best placed to address national issues while still meeting Program and Regional Office needs
 - Also, where ORD can evolve to be *better* placed to meet these needs
- A shared understanding of how ORD can enhance the quality and relevance of scientific information used to inform environmental decisions
 - Since decisions are complex and multifaceted, how can ORD's research products reflect integrated, multidisciplinary scientific thinking? (Process)
 - How can this scientific thinking be most effectively translated into information that is useful for decision makers? (Products)
- Agreement on a path forward for continued SAB-ORD collaboration on advancing the development, use, and communication of scientific information at EPA