



Future ORD-SAB Engagements on Strategic Directions

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SAB Review of the
President's Budget Request for
EPA Research

Budget Activities

October 2010 - October 2011

FY 2012 Budget
Activities →

OMB Review, Budget Passback	Budget to Congress	SAB Review and Comment		Approp. for FY 2012
		Congressional Deliberations		



FY 2013 Budget
Activities →

ORD Annual Planning	EPA Budget Forum	Budget to OMB	OMB Review
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Charge for This Year's Budget Review

- Goal: To provide comments on the President's Budget Request for the Office of Research and Development.
- How **consistent** is the requested research budget with EPA's long-term research agenda?
- To what extent is the requested research budget **adequate** for making progress on EPA's long-term research goals?



Materials Provided by ORD for This Year's Budget Review (Feb. 2010)

- FY 2011 Narratives on EPA ORD Research (97 pages)
- Graph, "Total ORD Budget with Inflation, 1988-2011"
- Graph, "Resource Trends, ORD Budget by Type of Spending"
- Budget and Research Directions for Economics and Decision Sciences (3 pages)
- ORD Resource History FYs 2005-2011 (15 pages)
- OCFO Presentation: FY 2011 President's Budget (18 pages)
- ORD Presentation: FY 2011 President's Budget Request for ORD (37 pages)



Materials Provided by the SAB Staff Office for This Year's Budget Review

- EPA Strategic Research Directions 2008: An Advisory by the EPA Science Advisory Board, November 26, 2008 (59 pages)
- Administrator's response to November 26, 2008 SAB Report (6 pages)
- Minutes for the November 9-10, 2009 SAB Meeting (34 pages)
- Science Advisory Board Comments on the FY 2010 Research Budget, July 10, 2009 (7 pages)



SAB "Review" of EPA's
Strategic Research Directions



Strategic Planning and Budget Activities

October 2010 - October 2011

Strategic Planning Activity →



FY 2012 Budget Activities →



FY 2013 Budget Activities →



Charge Questions for This Year's Strategic Directions Review (April 2010)

- To what extent do ORD's suggested strategic research directions address the Administrator's Priorities by providing the scientific information needed to inform environmental decision-making, especially decisions made by Program and Regional Offices?
- Which key research areas should ORD leverage by working with other (non-ORD) science programs across EPA? Which key research areas should ORD leverage by working with the science programs of other federal agencies?
- Which areas should receive increased emphasis in ORD's research program over the next five years? Which areas should receive decreased emphasis over the next five years?

Additional Charge Questions

- Are there strategic research directions that ORD should pursue differently or undertake as it draws upon its unique expertise to conduct integrated, transdisciplinary research (ITR)?
- Where can research on socio-economics best contribute to ORD's ITR efforts?
- Where can we apply lessons learned from environmental research to protect human health, and from human health research to protect the environment?



Materials Provided by ORD for This Year's Strategic Directions Review

- Memorandum, "The Path Forward" from Dr. Paul Anastas to ORD-All, March 4, 2010 (5 pages)
- Presentation by Dr. Kevin Teichman, ORD's Strategic Directions and The Administrator's Priorities (36 pages)
- Charge to the chartered Science Advisory Board for April 5-6, 2010 meeting (1 page)

Additional Materials Provided in the Past (Nov. 2009)

- ORD research program summaries for break-out discussions with NPDs and SAB Members (over 100 pages)
- Compilation of ORD research program descriptions, Oct. 2007 (92 pages)



ORD's Path Forward

Path Forward Memo

(From Paul Anastas, April 2010)

- “To ensure **close and continual dialogue with our Program and Regional partners**, I will be tasking the National Program Directors, together with the Office of Science Policy, to develop **mechanisms for engagement** of these partners in time for the fiscal year 2012 ORD research program planning and on into the future.”
- “ORD will be fully engaged in **Integrated Transdisciplinary Research (ITR)**, which is defined as the process to develop sustainable solutions to environmental problems by engaging partners who transcend traditional scientific disciplines throughout each stage of the research process.”
- “I will be looking to encourage development of **sustainable technological innovations** by supporting internal entrepreneurial research projects through an internal competitive seed grant program, external partnerships for innovation, and catalyzing the private sector to develop approaches to facilitate sustainable technology implementation across the technology life-cycle.”
- “To **communicate this message as ‘One ORD,’** I have tasked our Communication Team across ORD to work with the Executive Council to systematize the identification, inventorying, collection, translation, and dissemination of **ORD's contributions and impact.**”



ORD Innovation

Peter Preuss, Ph.D.
Chief Innovation Officer
EPA Office of Research and Development



Innovation: Charge from the Assistant Administrator

- "...creating and developing sustainable solutions to improve human health and the environment is a core mission of ORD and offers great opportunities."
- "I am therefore...forming a small group to continue to develop, encourage, facilitate and enable new ideas throughout the ORD research program and move our program in the direction of innovative, sustainable solutions to environmental problems."
- "This group will be headed by Dr. Peter Preuss, who will report directly to me on these matters. The team working with Peter will be a small one, composed of people with diverse backgrounds, working to craft new and innovative approaches that will further ORD's impact and EPA's mission."

Innovation: Our Approach

- ORD will encourage divergent thinking, i.e., thinking that is not limited by today's constraints, but instead focuses on **"disruptive" ideas and solutions** with the potential to transform environmental protection strategies.
- In addition, this team will promote the **creative application of new tools** for environmental and public health protection.
- The innovation team will also work with ORD scientists to help **identify and eliminate barriers to innovation**.
- ORD will soon announce an opportunity for scientists in ORD to apply for **internal innovation grants**.
- ORD will begin to use **on-line networking tools to foster collaboration** among scientists both in EPA and other organizations.
- ORD will also pilot the use of open, collaborative innovation platforms, which **engage a much broader, diverse group of people** in environmental problem identification and formulation, and in the joint development of innovative solutions.



Discussion:
Future ORD-SAB Interactions
on Strategic Directions

Questions for Discussion

- Goal: Input on ORD strategic priorities, independent of budget constraints
- What are some possible approaches to / formats for these discussions?
- What materials would the SAB need to prepare for these discussions?
 - What has been most helpful in the past?
 - What has not?
 - What would be most helpful in the future?