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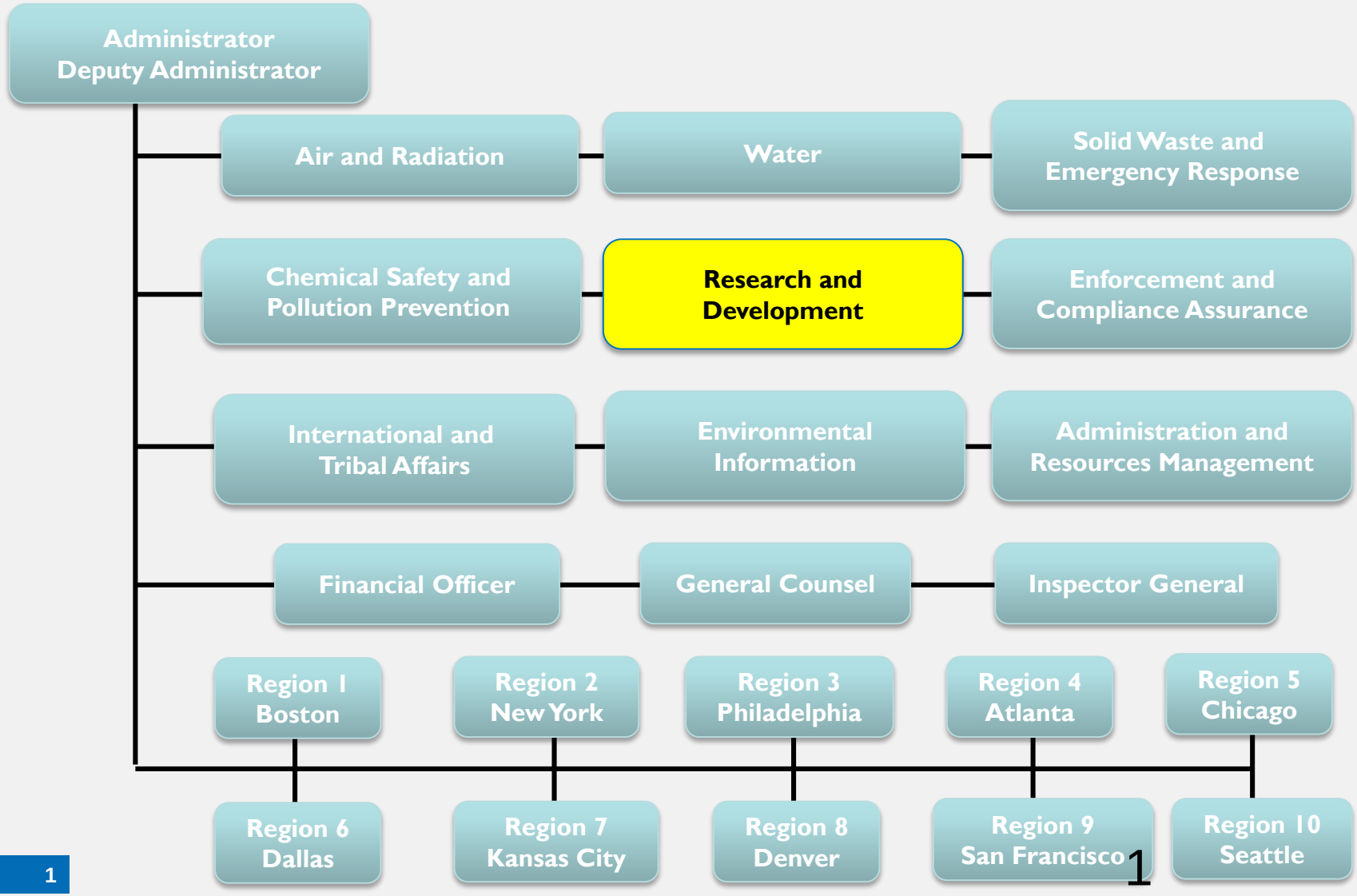
STAR Grant Kickoff Meeting: Human and Ecological Health Impacts Associated with Water Reuse and Conservation Practices October 26-27, 2016

Dr. Jim Johnson, Jr. , Director
National Center for Environmental Research

U.S. EPA Organization Chart



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Office of Research and Development Research Programs

http://epa.gov/research

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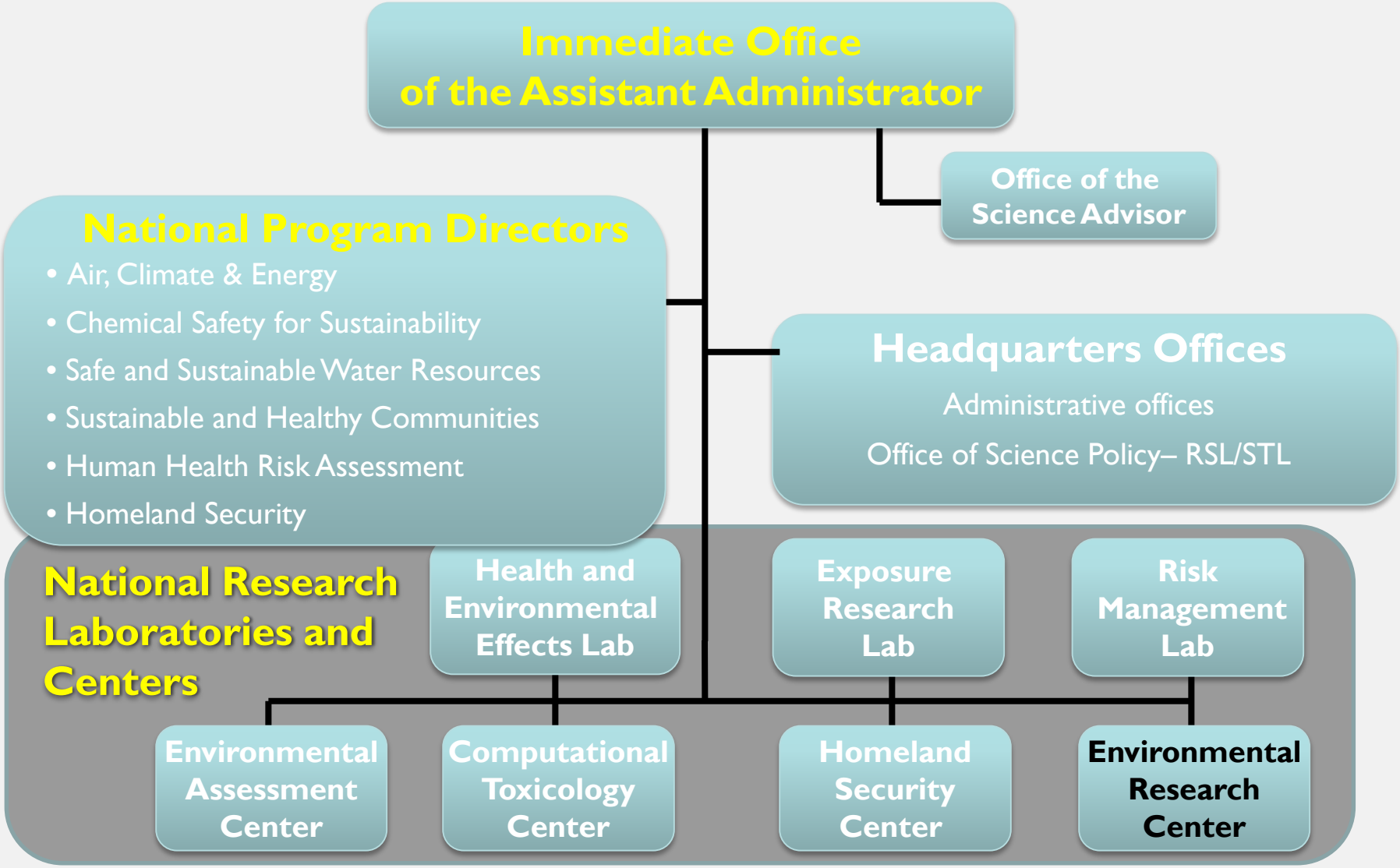
NCER – Where we Fit



Key Research Questions

- how reclaimed water applications and large scale harvest will affect public and ecological health;
- best practices and sustainable water management incorporating water reuse and larger-scale rainwater harvesting/stormwater reuse systems;
- life cycle costs of large scale harvest and reuse systems;
- uses and treatment trains for reuse applications and large scale harvest, and assessments and measurements of economic and non economic impact

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Kick-off Meeting Objectives

1. Announce new grants and meet the grantees.
2. Presentations from grantees on funded projects and research.
3. Enable researchers from recipient teams, EPA and other agencies to understand common interests and explore prospects for collaboration such as Cooperative Agreements.

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Cooperative Agreement Benefits

- Build research relationships between PI and EPA
- Extend capacity of research "*whole* > *Σ parts*" expanding technical and personnel capacity
- Add valuable *real world* application
- Does not cost PI $
- Does not affect scope of research

  – Most research grants can be converted to cooperative agreements

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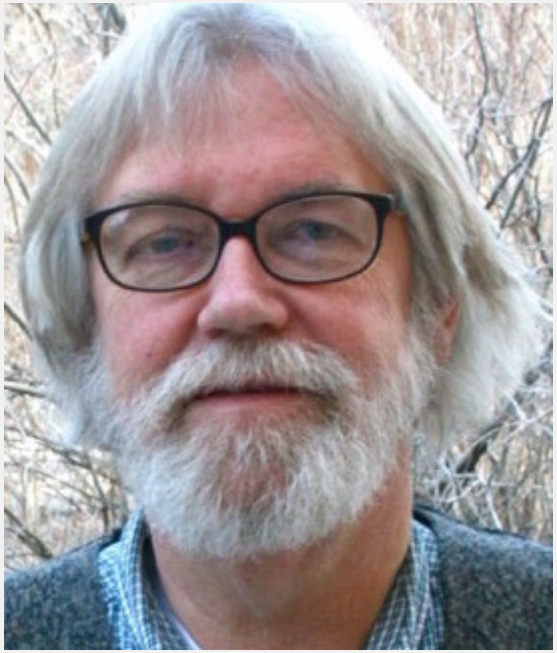

Ryan Dupont
Utah State University
Douglas Jackson-Smith
Ohio State University

Assessment of Stormwater Harvesting via Managed Aquifer Recharge to Develop New Water Supplies in the Arid West: the Salt Lake Valley Example

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Justin Mattingly
Water Environment & Reuse Foundation
Sujay Kaushal
University of Maryland

Improving Water Reuse for a Much Healthier Potomac Watershed

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Jay Gan
University of California, Riverside

Reclaimed Water Irrigation: Plant Accumulation and Risks of Contaminants of Emerging Concern (CECs)

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Helen Nguyen
University of Illinois at Urbana-Champaign

Enabling adaptive UV and solar-based disinfection systems to reduce the persistence of viral pathogens in wastewater for sustainable reuse

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Daniel Gerrity
University of Nevada, Las Vegas

Framework for Quantifying Microbial Risk and Sustainability of Potable Reuse Systems in the United States

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http://www.epa.gov/research-grants/

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