Research in Context
The Federal and Political Landscape,
What it Means for Universities

Travis Reed
Lewis-Burke Associates LLC
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WE'RE WORKING ON A CURE FOR FUNDING CUTS.
Setting the Context

- Polarized political environment is paralyzing progress
- Legislative gridlock
- Instability and low morale in federal agencies
- The GOOD news?
  - Research funding is still a priority investment
The Budgetary Environment

• Before the end of the year:
  – November elections
  – Extension of the Bush-era tax cuts
  – Raising the debt ceiling
  – Lame-duck Session

• FY 2013
  – Sequestration?
### Status of Funding

<table>
<thead>
<tr>
<th>Agency</th>
<th>FY 2012 funding</th>
<th>President’s FY 2013 Budget Request</th>
<th>House vs. FY 2012</th>
<th>Senate vs. FY 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSF</td>
<td>$7.03 billion</td>
<td>$7.37 billion</td>
<td>+ (4.2%)</td>
<td>+ (3.4%)</td>
</tr>
<tr>
<td>NIH</td>
<td>$30.7 billion</td>
<td>$30.7 billion</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>DOE Office of Science</td>
<td>$4.87 billion</td>
<td>$4.99 billion</td>
<td>- (1.4%)</td>
<td>+ (0.6%)</td>
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<tr>
<td>DOE ARPA-E</td>
<td>$275 million</td>
<td>$350 million</td>
<td>- (27.3%)</td>
<td>+ (13.5%)</td>
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<tr>
<td>ED IES</td>
<td>$593.6 million</td>
<td>$621.1 million</td>
<td>N/A</td>
<td>+ (4.2%)</td>
</tr>
<tr>
<td>DOD 6.1</td>
<td>$2.1 billion</td>
<td>$2.1 billion</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>NASA</td>
<td>$17.8 billion</td>
<td>$17.7 billion</td>
<td>- (1.7%)</td>
<td>+ (9.0%)</td>
</tr>
<tr>
<td>NEH</td>
<td>$146 million</td>
<td>$154 million</td>
<td>- (9.6%)</td>
<td>+ (5.6%)</td>
</tr>
</tbody>
</table>

*N/A: Congress has yet to take action or has not yet issued a report for this bill, therefore the number is not yet available.*
Cross-Agency Research Priorities

• Administration encouraging commercialization, strategic R&D investments, public-private partnerships.
• Mission agencies (NASA, NOAA, DOE) grappling with large mission overruns.
• Continued emphasis on STEM programs.
• NIH, FDA trying to reinvent clinical enterprise.
Multi-agency research priorities for FY 2014 (Under Obama 2\textsuperscript{nd} Term):

- Advanced Manufacturing
- Clean Energy
- Research and Development for Informed Policy making and Management
- Information Technology Research and Development
- Biological Innovation
- Science, Technology, Engineering, and Mathematics (STEM) Education
- Innovation and Commercialization
- Global Climate Change
- Nanotechnology
Status of Federal Agencies

National Science Foundation (NSF)

- NSF is a favored agency by both the Administration and Capitol Hill; House would increase NSF by $300 million, with the Senate proposing a $240 million increase for FY 2013
- All-in on Obama Administration priorities – manufacturing, innovation, sustainability, STEM, data-intensive science

Department of Energy (DOE)

- Office of Science research programs expected to be flat or slightly decreased
- Basic energy, environmental, and computing research remain Administration priorities at the expense of other Office of Science programs

National Institutes of Health (NIH)

- NIH bracing for tight budgets
- Largest institutes reviewing and revising portfolios: National Cancer Institute; National Institute of Allergy and Infectious Diseases; National Heart, Lung, and Blood Institute
Status of Federal Agencies

National Aeronautics and Space Administration (NASA)

- Bipartisan support for Science and Human Space Flight, but Congress and President disagree on prioritization within each
- James Webb Space Telescope continues to put pressure on rest of Science Mission Directorate funding

Department of Defense (DOD)

- Bipartisan and bicameral support remains for DOD RDT&E; particularly strong support for defense science and technology (6.1-6.3) programs; most cuts to test and evaluation accounts
- DOD’s seven S&T priorities will continue to guide BAAs and large funding opportunities: autonomy, counter weapons of mass destruction, cyber, data-to-decisions, electronic warfare and protection, human systems, and engineering resilient systems
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