S&T Funding in the New Administration & Congress

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For the ASEE Engineering Research Council
AAAS R&D Budget and Policy Program
http://www.aaas.org/program/rd-budget-and-policy-program
Where We Are and Upcoming Milestones

- **FY 2017**
  - Appropriations stuck since fall
  - Trump Admin budget amendment coming in...March?
    - SecDef: 30-day readiness review, resulting in additional OCO request
  - Current CR runs out April 28
  - Defense Bill

- **FY 2018**
  - March 16 (next week): “skinny budget”
  - Early May (?): full request
  - Appropriations: typically late spring/summer, into fall...and beyond

- Also: debt ceiling deadline in March

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**DOD S&T in FY 2017 Appropriations**
percent change from FY 2016 levels, nominal dollars

<table>
<thead>
<tr>
<th>Basic Research (6.1)</th>
<th>Applied Research (6.2)</th>
<th>Adv Tech Dev (6.3)</th>
<th>TOTAL S&amp;T*</th>
<th>DARPA**</th>
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<tr>
<td>Obama Request</td>
<td>House (June '16)</td>
<td>Senate Cmte (May '16)</td>
<td>Current Bill</td>
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*Total S&T combines 6.1, 6.2, and 6.3. **DARPA’s budget is composed of portions of the other accounts listed above. ©2017 AAAS
Composition of the Proposed FY 2017 Budget

Total Outlays = $4.1 trillion

Outlays in billions of dollars:

- Net Interest: $303
- Defense Discretionary*: $529
- Defense [Defense R&D]*: $79
- Nondefense Discretionary*: $557
- Nondefense [Nondefense R&D]*: $68
- Social Security: $967
- Medicare: $598
- Medicaid: $386
- Other Mandatory: $656
- Other: $656

*Approximately $4 billion for R&D is classified as mandatory spending. Figures are estimates.

Discretionary Spending And Science Funding

percent change from prior year, nominal dollars

Based on historical OMB budget authority tables and agency data. © 2017 AAAS
Limits on NONDEFENSE Spending Since 2010
Estimated percent change from FY 2010, inflation adjusted

Based on past budget resolutions, the Budget Control Act and subsequent legislation, and comments from Trump OMB officials as reported Feb. 27. Trump Admin budget assumed to grow at sequester-cap rate. Adjusted for inflation using deflators from the FY17 budget request. © AAAS 2017
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Questions on the FY18 Science Budget

- Targets we mostly know (based on recent reporting):
  - EPA, Commerce, Interior

- Other likely targets (based on Heritage/RSC proposals):
  - Energy science and technology
  - Advanced manufacturing

- Will defense/discovery science fare relatively better?

- Rhetoric vs. reality?
  - Cabinet pushback already happening, apparently

- If the Administration seeks to blow a hole in the nondefense discretionary budget – how does Congress react?
  - Already skepticism emerging – from POTUS’ own party
Energy & Water Subcommittee

- ~$40 billion
- Challenge: balancing basic research, DOE tech portfolio, NNSA; also Army Corps, Bureau of Reclamation
- Questions:
  - What happens to applied tech?
  - Does support for science programs (physics, bio, others) continue?
Labor, HHS, Education Subcommittee

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- >$150 billion
- Deep divisions over public health programs, education, DOL
- Usually one of the hardest to pass, thus usually one of the last out of the gate
- Everybody likes NIH lately
  - Especially Alzheimer’s research
  - Cancer moonshot?

### Budget Estimates

- HHS, $34,014.2
- Education, $222.7
- Social Security Admin, $58.0

**R&D: Senate Labor-H Subcommittee**

AAAS estimates in millions of dollars

R&D includes conduct of R&D and R&D facilities. © 2016 AAAS
Commerce, Justice, Science Subcommittee

~$55 billion
Challenge: balancing Depts. of Justice and Commerce, NASA, NSF
Questions:
  - NSF: social and geo science funding? Facilities?
  - NASA: what happens to earth science? Human spaceflight? (and where do we go?)
  - Commerce: What happens to NOAA climate research and NIST commercial technology programs?

R&D: House CJS Subcommittee
AAAS estimates in millions of dollars

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For more info...

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