

# R&D Funding in the New Administration and Congress

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For the Council on Government Relations

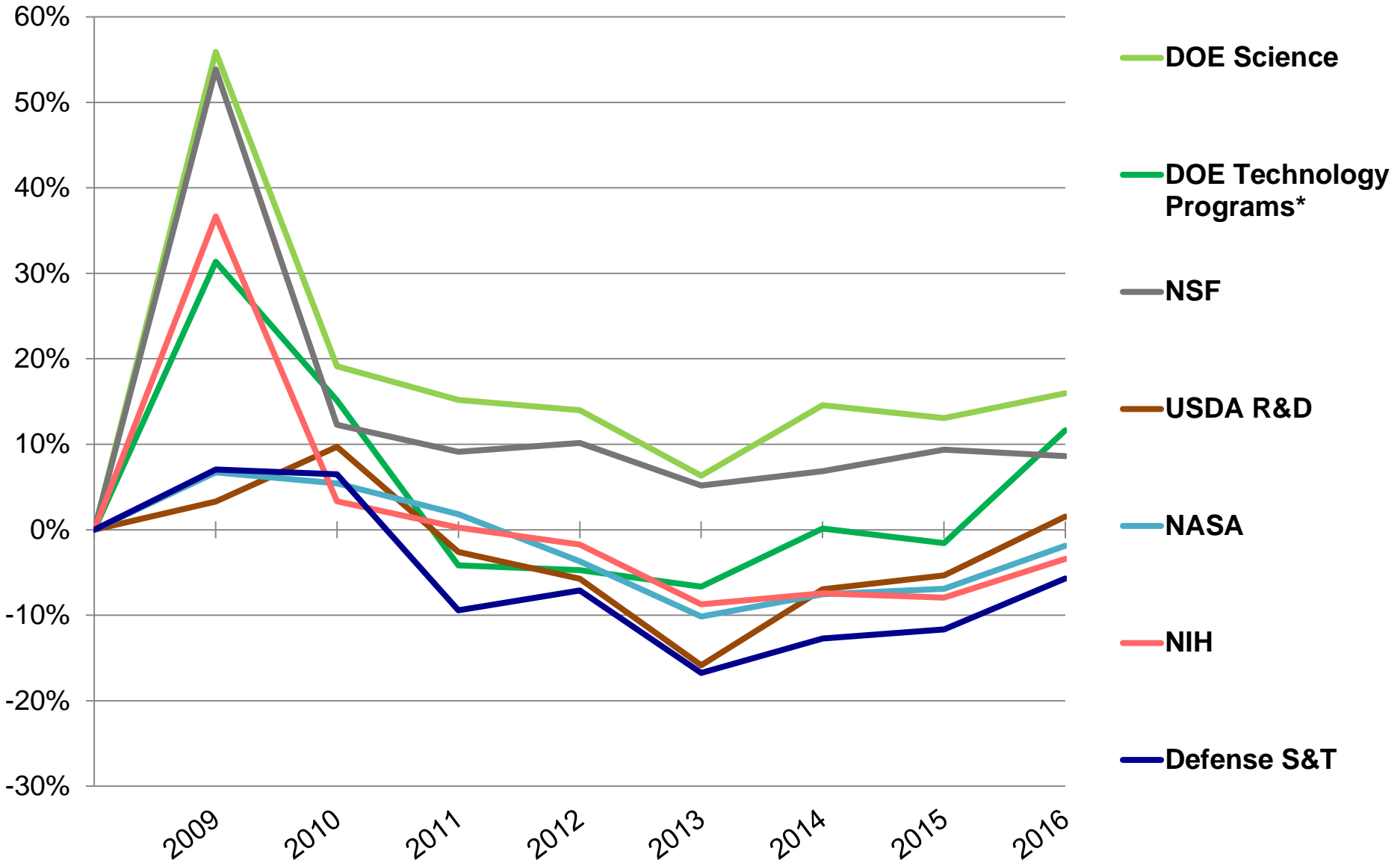
AAAS R&D Budget and Policy Program

<http://www.aaas.org/program/rd-budget-and-policy-program>



# S&T Agency Budgets in the Obama Years

Percent change from FY 2008 levels, constant dollars

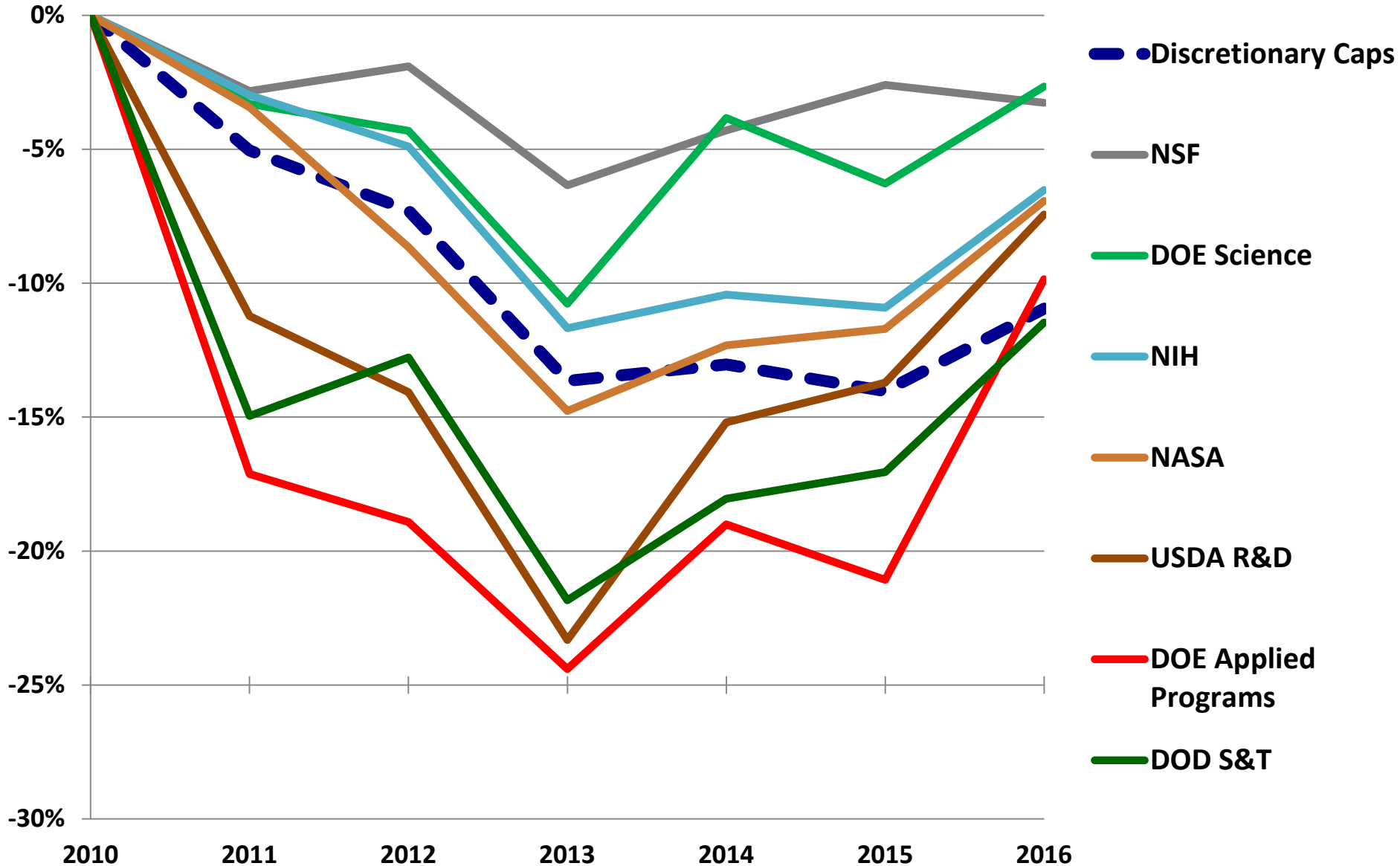


\*Includes nuclear, fossil, efficiency and renewables, grid research, and ARPA-E.

FY 2009 includes Recovery Act funding. Based on AAAS analyses of historical agency data. © 2017 AAAS

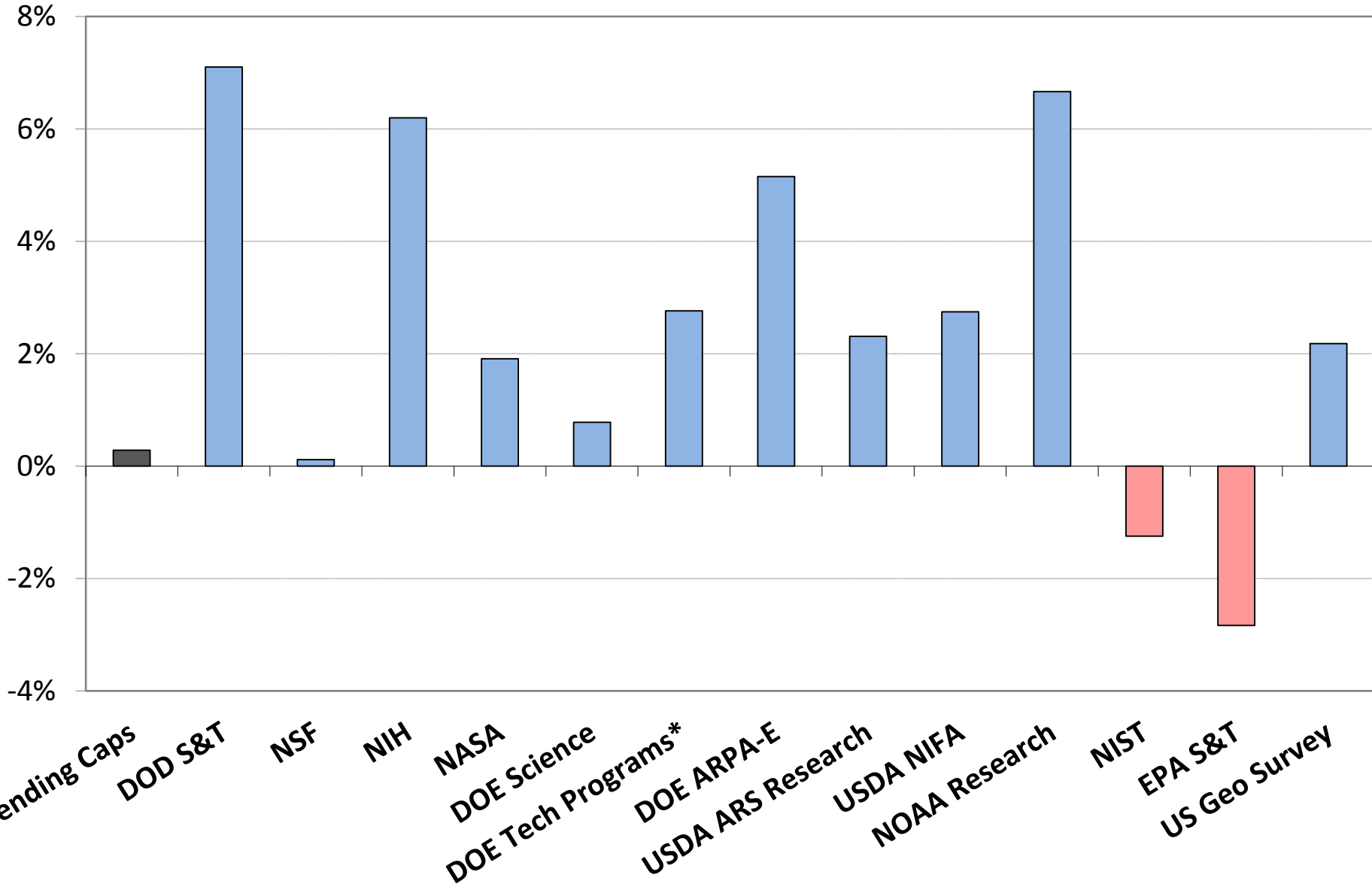
# Federal Spending Since FY 2010

Percent change from FY10 levels, constant dollars



# Science & Tech Agencies and Offices in the FY 2017 Omibus

*Estimated percentage change from FY 2016 levels, nominal dollars*



\*Includes renewables and efficiency, nuclear, fossil, grid research. Based on first look at the FY 2017 omnibus package posted May 1. | AAAS

# R&D Funding in the Obama Years

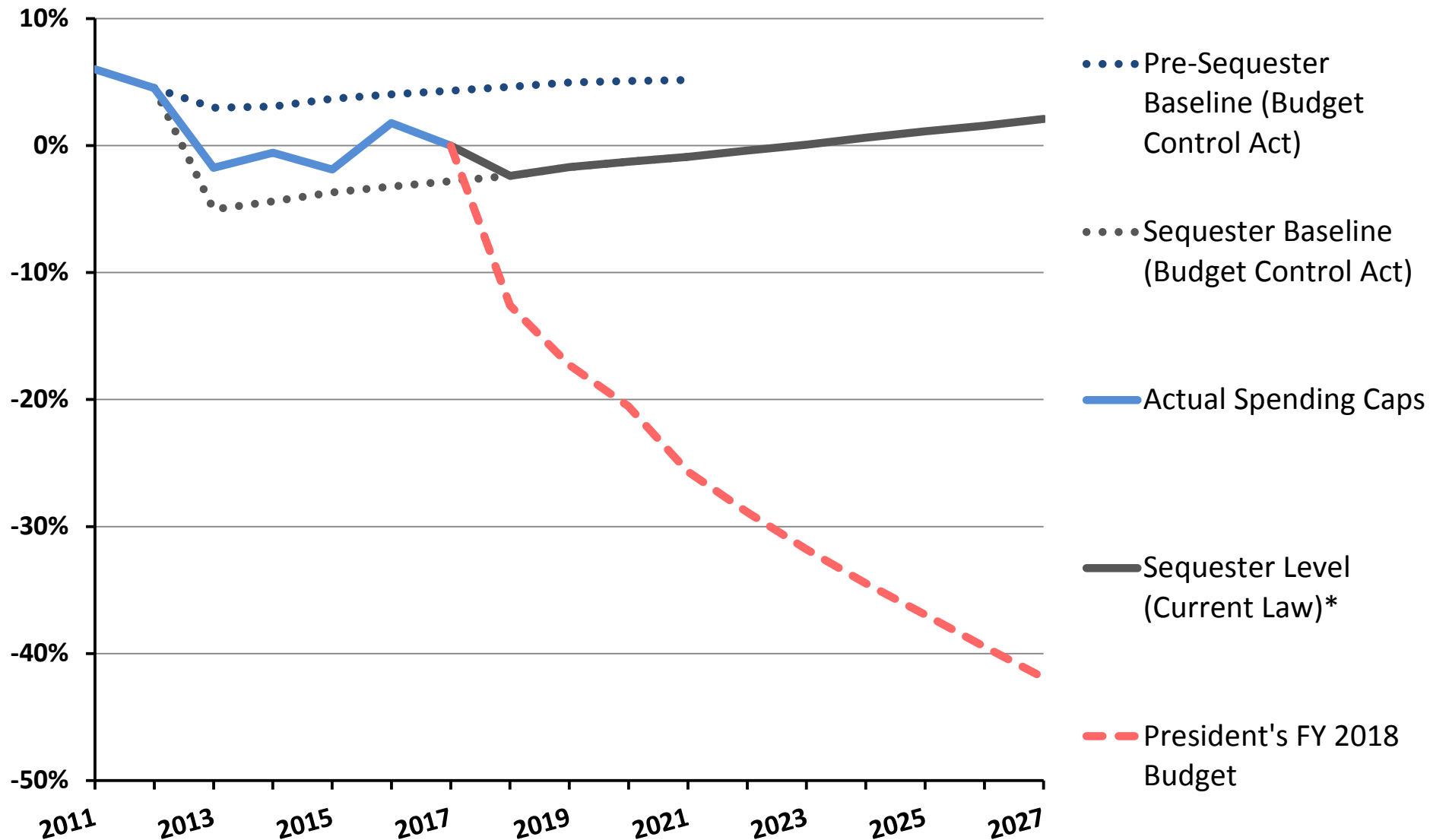


- While the President's requests were regularly unfulfilled, appropriators still found ways to fund research...when there was fiscal room
  - "All politics is local"
  - Competitiveness, health, energy independence, national security; individual legislator priorities
- However, still areas of particular disagreement, i.e.:
  - Climate science
  - Social science
  - Applied tech: energy, manufacturing
  - Duplication, role of government, waste, accountability, transparency

The screenshot shows a news article from NBC News. The headline is "NASA chief defends 2013 budget in Congress" with a sub-headline "Allocation request for commercial flight vs. agency programs fires up heated dispute". The article is by Clara Moskowitz, updated on 3/8/2012. The text discusses NASA chief Charles Bolden's defense of the agency's proposed 2013 budget to Congress, noting a \$59 million drop from the 2012 level and the resulting criticism from lawmakers. A photo of the U.S. Capitol building is visible on the right side of the article.

# Limits on NONDEFENSE Spending

Estimated percent change from current year, inflation adjusted

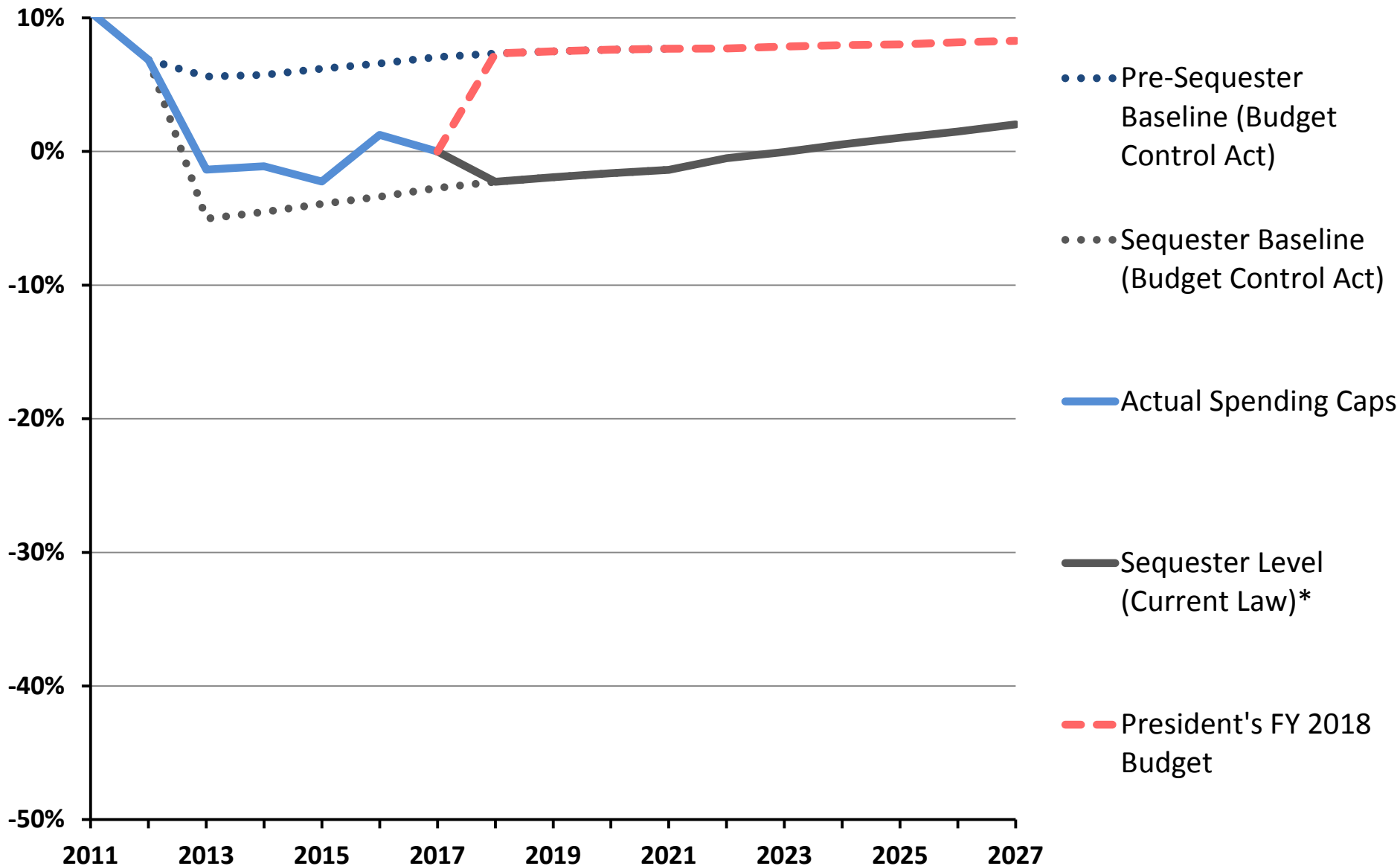


\*Current caps last through 2021; spending is projected beyond.

Based on past budget resolutions, the Budget Control Act and subsequent legislation, and the FY 2018 OMB summary tables. © AAAS 2017

# Limits on DEFENSE Spending

Estimated percent change from **current year**, inflation adjusted



\*Current caps last through 2021; spending is projected beyond.

Based on past budget resolutions, the Budget Control Act and subsequent legislation, and the FY 2018 OMB summary tables. © AAAS 2017

# UPDATED R&D in the FY 2018 Budget

(budget authority in millions of dollars)

	FY 2016	FY 2017	FY 2018	Change FY 17-18	
	Actual	Estimate*	Budget	Amount	Percent
<b>Total R&amp;D</b>	<b>149,479</b>	<b>156,751</b>	<b>149,579</b>	<b>-7,173</b>	<b>-4.6%</b>
Basic Research	32,885	34,747	28,935	-5,812	-16.7%
Applied Research	39,659	40,511	35,168	-5,342	-13.2%
Development**	75,449	79,031	83,583	4,552	5.8%
Facilities & Equipment	2,581	2,514	2,171	-344	-13.7%
<b>Defense R&amp;D</b>	<b>79,109</b>	<b>83,752</b>	<b>92,477</b>	<b>8,725</b>	<b>10.4%</b>
<b>Nondefense R&amp;D</b>	<b>70,371</b>	<b>73,000</b>	<b>57,102</b>	<b>-15,898</b>	<b>-21.8%</b>

\*AAAS estimates based on the FY 2017 omnibus. Other years based on OMB data revised with agency R&D data.

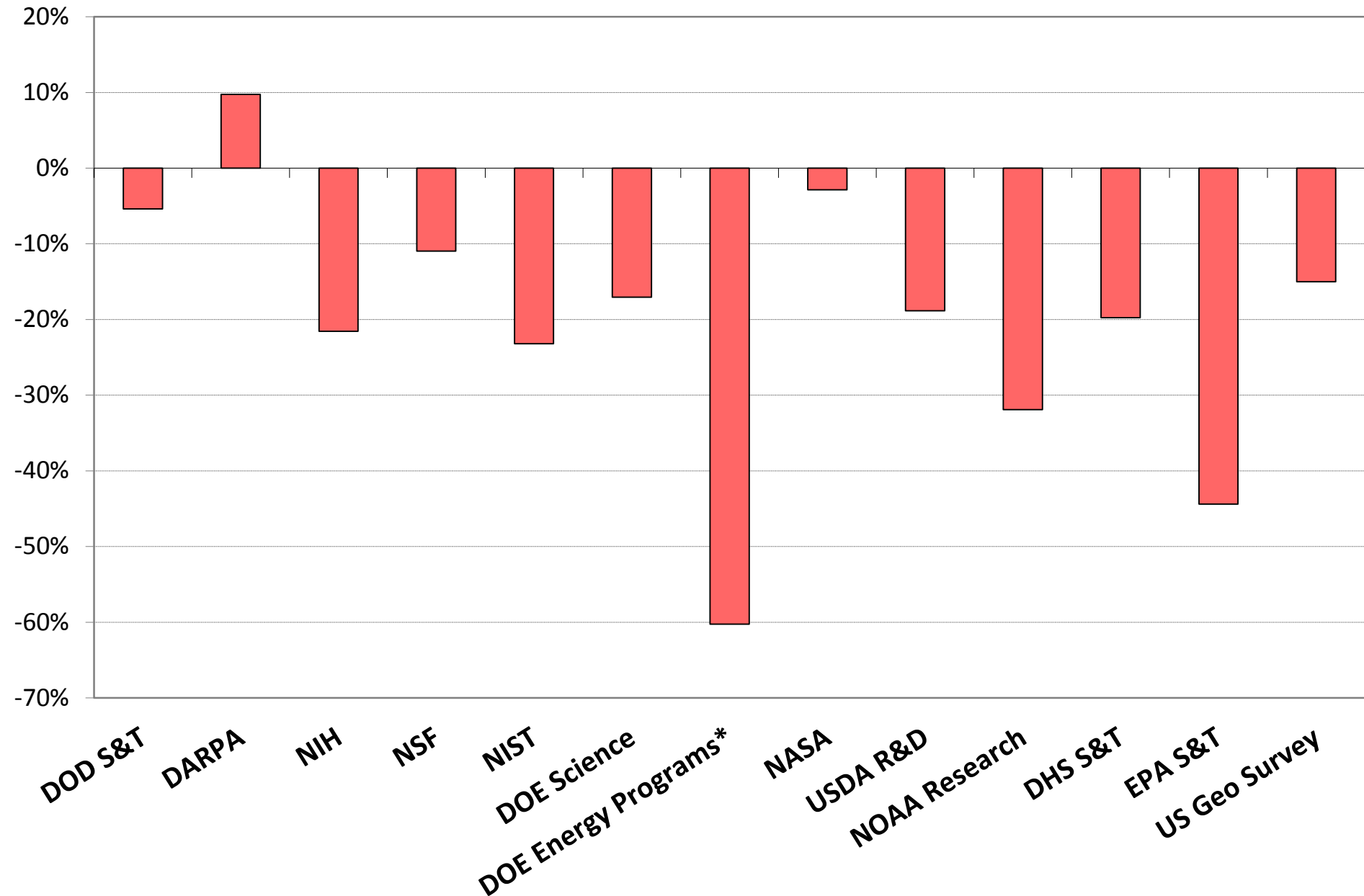
\*\*Using old definition, continuing to count DOD 6.7 as R&D.

6/6/2017 | AAAS



# Select Science & Tech Agencies and Programs in the FY 2018 Budget

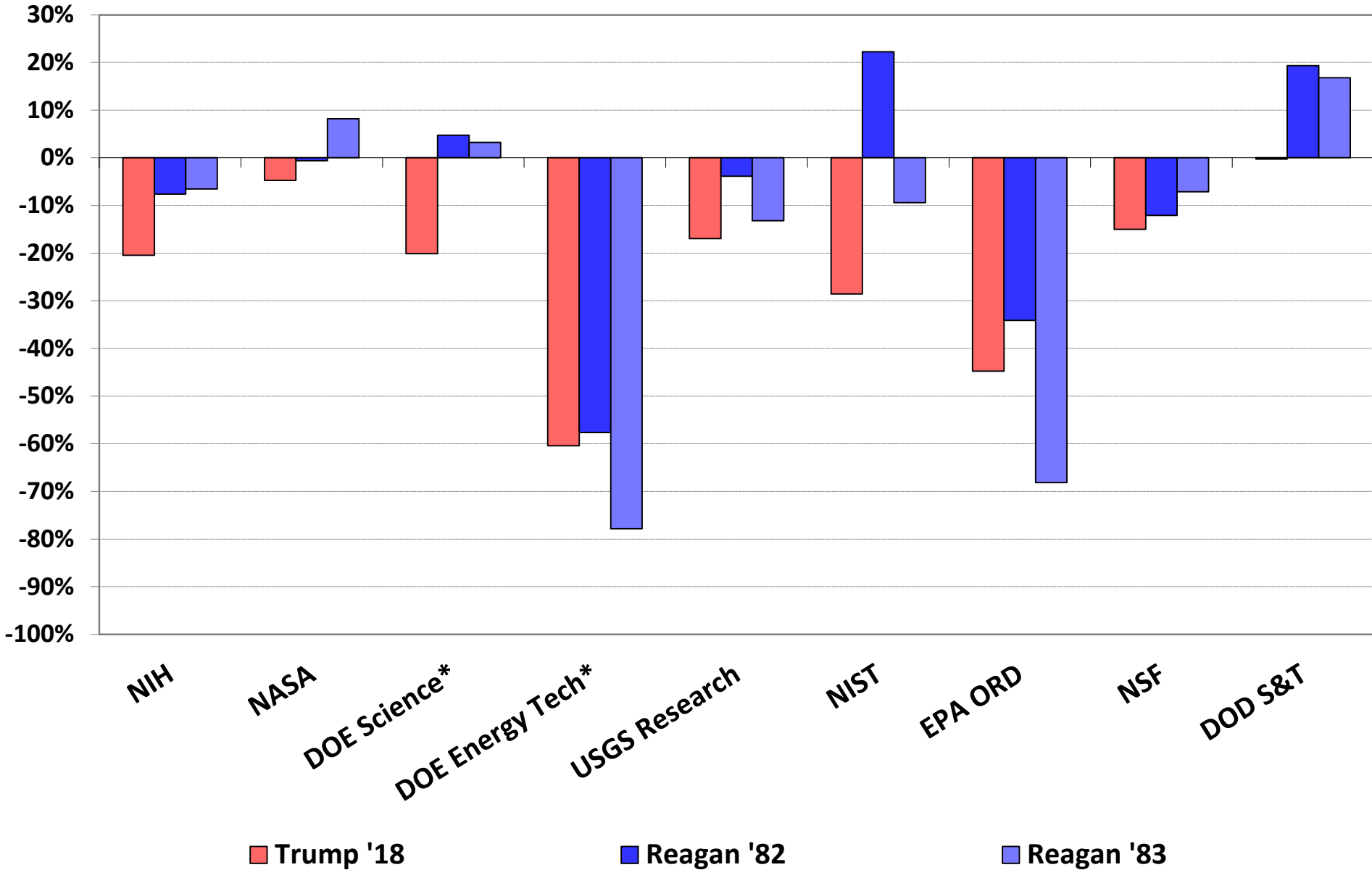
*Estimated percentage change from FY 2017 enacted levels, nominal dollars*



\*Includes renewables and efficiency, nuclear, fossil, grid research, ARPA-E. Based on the FY 2018 budget request and the FY 2017 omnibus. | AAAS

# Trump '18 vs. Reagan '82 and '83

*Proposed two-year percentage change in total budgets, inflation-adjusted*



■ Trump '18

■ Reagan '82

■ Reagan '83

\*FY82 and FY83 figures are estimates.

Based on FY 2018 budget figures and historical budget documents, analyses, and reports. May 2017 | AAAS

# Reception and Questions...

- Some initial *Republican* responses:
  - “draconian, careless, and counterproductive”
  - “cannot pass”
  - “does not work”
  - “you’ll see some changes”
  - “ridiculous”
- FY18 budget resolution: Where do the caps end up?
  - Remember: 60 votes required to change!
- FY18 appropriations: does support continue? How does the basic/applied dichotomy shake out?



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## Capitol Hill Republicans not on board with Trump budget



President Trump made a lot of promises to the American people during his campaign, but parts of his spending proposal seem to contradict some of those pledges. (Video: Jenny Starrs/Photo: Melina Mara/The Washington Post)

By Kelsey Snell and Karoun Demirjian March 16

Some of President Trump's best friends in Congress sharply criticized his first budget Thursday, with defense hawks saying the proposed hike in Pentagon

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