FLC DC Update

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2017 FLC Mid-Continent & Far-West Regional Meeting

Pasadena, CA
August 30, 2017

Overview

- Congressional Actions
- Administrative Actions
- FLC Initiatives
- Metrics Reporting

Recent Congressional Actions - I

Proposed – Passed – Agenda

Obama Lame Duck Session (114th)

21st Century Cures Act (PL 114-255)

Focuses on NIH funding and the Life Sciences

2017 NDAA (PL 114-328)

Reauthorizes SBIR/STTR for 5 yrs

American Innovation and Competitiveness Act (Passed) "COMPETES" (PL 114-329)

* Incentivizes private-sector innovation (updating prize competition authority …)
* Bolsters scientific research (authorizes the I-Corps program …)
* Reaffirms importance of commercialization (directing NSF to continue translational research grants and strengthening public-private cooperation).

Recent Congressional Actions - II

Proposed – Passed – Agenda

New Congress (115th)

DOE Bills (both derived from failed 114th energy policy bill)

DOE Research and Innovation Act (HR 518) (passed the House)
Energy Policy Modernization Act (S 1460) (introduced in Senate)

* enable labs to use T2 funds for pre-commercial tech demonstration
* directs DOE to issue report on improving T2
* authorizes/extends use of Agreement for Commercializing Technologies (ACT) pilot (gives labs increased authority to negotiate terms, etc.)

Recent Congressional Actions - III

Proposed – Passed – Agenda

House Science Committee Priorities for 115th

*** Cut Government Red Tape – Emphasize Sound Science at EPA**
*** Reforms to DOE Programs**
*** STEM Education and Reauthorization of NSF and NIST Programs**
*** Oversight of FDIC Cybersecurity Failures**
*** Constancy of Purpose Within NASA**

"The Science Committee plans to create transparent environmental policies based on sound science and focused on innovation rather than regulation. The committee will work to make sure every agency research dollar spent works for the taxpayers who fund them. … Rebalancing NASA's portfolio and setting course for its future successes will also be a key priority this Congress." (Lamar Smith, R-TX, Chair, HSST Committee)

Source: HSST Cmte press release (Feb 2017)

Recent Administration Actions

OMB Memorandum Suspends Multiple Reporting Requirements
(includes CAP Goals – and L2M)

“Through this Memorandum, OMB begins providing relief to agencies by rolling back these [reporting] requirements … [Accordingly] reporting on all previous Administration Priority Goals [which includes CAP Goals] to performance.gov is discontinued for the remainder of the performance period (through the end of FY 2017).” (Mick Mulvaney, Dir. OMB)

New White House Office of American Innovation

Office of Science and Technology Policy – NSTC Working Groups

Federal R&D Budget
(FY 2018 Administration's Proposed)

Budget Released (May 2017)

"As has been previously reported, the budget would make **very large reductions to the nondefense discretionary spending cap in FY 2018**, **cutting that portion of the budget by $54 billion or 10.9 percent below FY 2017 levels in order to boost defense spending**. … The White House budget [also] recommends steep nondefense cuts in FY 2018 - and then would keep cutting beyond, by over two percent annually before inflation. As a result, the **nondefense discretionary budget in 2027 would be 41.9 percent less than in 2017**, adjusted for purchasing power. Over the decade, total nondefense spending would decline by 29 percent in the aggregate."

Source: AAAS (May 23, 2017)

Federal R&D Budget

(FY 2018 Congressional Appropriations Process)

Appropriations Status (prior to August recess)

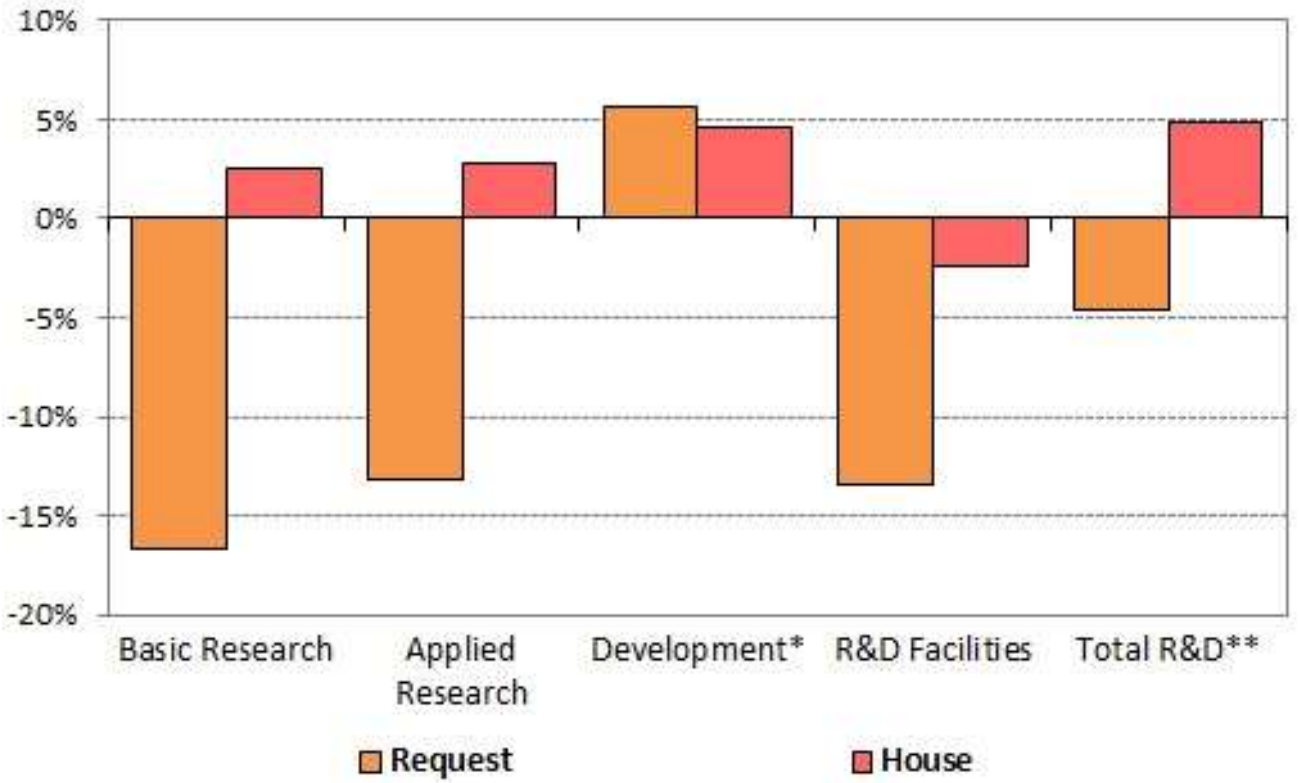
"Certainly, the White House has seen **Congress largely ignore its calls for historic reductions to federal science and technology programs**. According to rough AAAS estimates, current House appropriations **would increase federal R&D by 4.8 percent** or $7.6 billion above FY 2017 omnibus estimates, with basic and applied research increasing by about 2.5 percent each, slightly ahead of inflation; development spending would grow by even more thanks to large boosts for Department of Defense development activities."

"While **House appropriators have moved their full set of twelve annual spending bills** through committee, their **Senate counterparts still haven't introduced several of their own**, but the legislation they *have* produced so far has **generally topped** the House numbers."

Source: AAAS (August 1, 2017)

R&D by Character in FY 2018 Appropriations

percent change from estimated R&D in the FY 2017 omnibus, nominal dollars

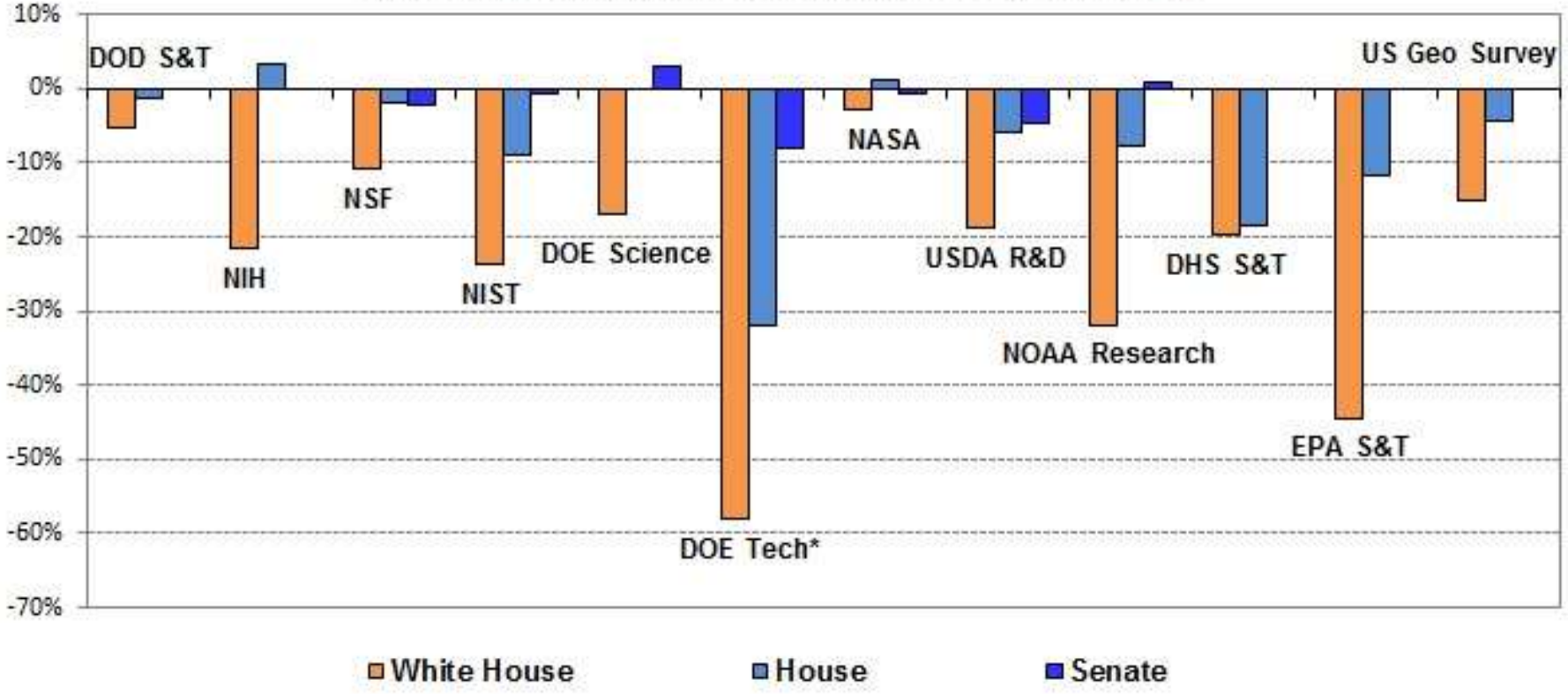


*Using old definition, including DOD 6.7 account as R&D. **Includes uncharacterized $2 billion increase and $100 million increase for R&D in House defense bill.
Based on OMB and agency data, and AAAS estimates based on FY 2017 and FY 2018 appropriations. © 2017 AAAS

Source: AAAS (August 1, 2017)

Current Appropriations for Select Science & Tech Agencies

Estimated percentage change from FY 2017 enacted levels, nominal dollars



*Includes renewables, efficiency, nuclear, fossil, grid, ARPA-E. Based on FY 2018 request, FY 2017 omnibus, and current appropriations. | AAAS

Source: AAAS (August 1, 2017)

Federal R&D Budget
(FY 2019 S&T Budget Guidance)

OMB/OSTP Memorandum to Agency Heads (August)

*** Defense, security, energy, health**

"Therefore, agencies should give priority to funding basic and early-stage applied research that, **supplemented by private sector financing of later-stage R&D** can **result in the development of transformative commercial products and services**. Strong partnerships with the private sector will be critical to maximizing the efficacy of Federal funding."

"By providing the fundamental building blocks of new technological advances, the Government can **empower the private sector to accelerate research discoveries from the laboratory to the marketplace**."

Source: OMB/OSTP Memorandum

Select FLC Activities

FLC Website Update

*** FLC Bus; Available Tech; Success Stories; T2 Mechanisms**

Inclusive Innovation Initiative

*** Working with MBDA - connect minority bus. to federal labs**

Technology Initiative (Energy)

*** 7/24 (renewables); 9/20 (non-renewables);**
10/11 (transmission); 11/8 (storage)

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Federal T2 Summary Report - I

(FY 2014, Department of Commerce, Issued Nov 2016)

Federal Laboratory Tech Transfer Report, FY 2014: Summary Report to the President and the Congress

		FY 2010	FY 2011	FY 2012	FY 2013	FY 2014
CRADAs, total active in FY		8,374	8,240	8,307	8,830	9,180
New inventions disclosed in FY		4,755	5,251	5,350	5,321	5,103
Patent applications filed in FY		2,002	2,308	2,361	2,494	2,609
Patents issued in FY		1,468	1,449	2,228	1,855	1,931
Licenses, total active in FY		15,166	12,077	11,542	11,672	20,822
New, executed in FY		2,142	2,023	1,445	1,846	9,908
Income from licenses, ($$M)		$144.2	$167.1	$167.1	$184.8	$194.2

* Includes multiple examples of downstream outcomes for all agencies (reporting since 2001)
** New metrics reported starting 2013

Federal T2 Summary Report - II

(FY 2014, Department of Commerce, Issued Oct 2016)

Selected New Metrics (focus on Small Business)

	% CRADAs w/SB	% Licenses w/SB	# Startups supt'd
DOC	2% (19%)*	17% (18%)	4 (25)
DOD	(12%)		
DOE	34% (7%)	5% (5%)	9 (40)
DOT	20% (17%)	100%	
EPA	19% (44%)	49% (43%)	
HHS	(39%)**	5% (27%)***	17
USDA	38% (55%)	37% (35%)	13 (13)
NASA		5%	28
VA	9% (11%)		
Total	**11% (18%)**	**6% (7%)**	**71 (78)**

*(%) represent 2013 data
**NIH only
*** NIH and FDA
NOTE: Not all agencies able to report – partial data for 2014
Other new metrics: S&E articles, Economic Impact Studies, New Initiatives, others

Save the Date

FLC National Meeting

Loew's Philadelphia
Philadelphia, PA

April 24-26, 2017

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