



SUMMARY OF ITEM FOR ACTION, INFORMATION OR DISCUSSION

**TOPIC**: 2017 USM Dashboard Indicators

**COMMITTEE**: Finance

DATE OF COMMITTEE MEETING: June 8, 2017

**SUMMARY**: Each year, the Board of Regents receives the Dashboard Indicators (DBIs) which summarize critical measures of success and compliance in a wide array of Board initiatives. The DBIs are organized into categories based on the USM Strategic Plan. The indicators displayed are meant to remain reasonably stable over time in order to provide the Regents with a ready comparison to past performance. They also feature benchmarks wherever possible against either peers or based on Board or institutional policy. The DBIs include pages of indicators focused on the external environment, the System as a whole, and each USM institution.

In each year's DBIs, specific issues are highlighted in a single page summary. Key issues highlighted in this year's Dashboard Indicators include:

- Financial Aid,
- Facilities Use,
- Fund Balance Goals and,
- Workforce Development.

**ALTERNATIVE(S)**: This item is presented for information purposes.

**FISCAL IMPACT**: This item is presented for information purposes.

**CHANCELLOR'S RECOMMENDATION**: This item is presented for information purposes.

COMMITTEE RECOMMENDATION: ACCEPTED FOR INFORMATION

DATE: 6/8/17

BOARD ACTION:

DATE:

SUBMITTED BY: Joseph F. Vivona (301) 445-1923



# Dashboard Indicators 2017

Board of Regents Committee on Finance June 8, 2017

Office of the Chief Operating Officer/
Vice Chancellor for Administration & Finance

## 2017 USM Dashboard Indicators Key Indicators

The 2017 Dashboard Indicators provides a "snapshot" overview of the USM and its institutions. It brings together data from many USM reports and data sets. The indicators noted below were selected to highlight specific trends and challenges drawn from the Dashboards.

#### Access, Affordability and Attainment Indicators

- Institutional Financial Aid Institutional financial aid awarded to undergraduates reached record levels of nearly 145 million dollars. This represents institutional aid which is the equivalent of more than 17% of all undergraduate tuition revenue and equals the highest level since USM began tracking this figure (System indicators 12 and 13).
- Recipients of Financial aid Although the percentage of those receiving some kind of aid
  remained relatively steady in FY 2016, 9 of 10 institutions awarded aid to a higher percentage
  of their students than did peer institutions. This suggests that the institutions are successfully
  reaching higher percentages of students needing financial aid to succeed (Institutional
  indicator 8).

#### **Facilities Indicators**

- Facilities Renewal For the first time in three years, two USM institutions were able to meet the Board of Regents' policy goal for facilities renewal at two percent of replacement, and three others exceeded one percent of replacement. Six institutions were able to maintain or improve their performance although in some cases well below the level indicated by the policy. Despite this mild improvement, facilities renewal remains a serious concern on most campuses (Institutional indicator 52).
- Non-traditional Credit Activity More than 15% of all credits awarded to undergraduates in FY 2016 were delivered via a modality other than face-to-face instruction. This substantially exceeds the Regent's target of 10%. This measure was originally established by the Board to measure the use of these non-traditional methods to more efficiently use facilities to support greater numbers of students (Institutional indicator 53).

#### **Fiscal Indicators**

• **Fund Balance** – For the second year in a row, all USM institutions successfully met their goals to increase their fund balance. The USM, as a whole, was also successful in meeting its fund balance goal. (*Institutional indicator 43*)

#### **Economic Development Indicators**

• **Upper Division STEM Enrollment** – This measure is a leading indicator of progress on the State's and the USM's commitments to increase Science, Technology, Engineering, and Math (STEM) degrees. From Fall 2015 to Fall 2016 this figure rose by nearly 2,500 students. This reflects a new surge in growth in this indicator after some slowing from Fall 2014 to 2015. This will likely translate into greater growth in STEM degrees over the next two to three years (System indicator 35 & Institutional indicator 35).

### Summary of 2017 Core Dashboard Indicators As of 5/25/17

Note: Data are the most recent available for any given indicator. Years are not the same for all indicators.

<u>#</u>	<u>Indicator</u>	<u>UMCP</u>	<u>UMBC</u>	<u>UMB</u>	<u>BSU</u>	<u>CSU</u>	<u>FSU</u>	<u>SU</u>	<u>TU</u>	<u>UB</u>	<u>UMES</u>	<u>UMUC</u>	<u>UMCES</u>	System
1	Average SAT	1305	1217		868	862	942	1150	1080		921			
2	6-year graduation rate	86%	63%		41%	18%	51%	67%	70%		33%			65%
3	2nd-year retention rate	95%	87%		72%	66%	76%	81%	86%	72%	70%			74%
4	AfrAmer., Hispan., & Native Amer. as % of total undergraduates	22%	23%		89%	84%	36%	18%	24%	53%	76%	44%		34%
5	% of applicants who were admitted (new freshmen & transfer students)	49%	61%		45%	39%	65%	68%	74%	64%	39%			
6	MD community college transfers	1911	1380		227	267	525	726	2311	655	114	3131		11544
7	Resident undergrad tuition & fees	\$10,182	\$11,264		\$7,880	\$6,448	\$8,702	\$9,364	\$9,408	\$8,596	\$7,804	\$7,266		\$9,606
8	% of undergraduates receiving financial aid Average undergraduate debt burden upon graduation	66% \$26.818	70% \$26,534	_	86% NA	85% NA	80% \$25,463	76% \$25,376	71% \$25,785	85% \$17,032	85% \$21,000	42%	_	
10	Average alumni giving rate	6.6%	3.7%		5.5%	3.9%	5.0%	6.7%	5.1%	4.7%	2.9%	1.7%		
		\$124,155			\$78,882	\$75,843	\$77,035	\$80,756	\$80,786	7.770	\$84,202	1.770		
	5 , ,	, ,	69		,	,	. ,	,	,		. ,			7.5
	Faculty salary %ile	86			70	62	50	62	66		82			75
	Awards per 100 full-time faculty (5yrs.)	4.4	3.1											
24	Student to faculty ratio (X FTE students per 1 FTE facul	17	19	7	16	13	16	16	17	15	15			
31	Total R&D expenditure per full-time faculty	\$329,693	\$164,116	\$224,977*							\$52,655			
32	U.S. Patents issued	37	7	30										74
33	Adjusted gross license income received	\$836,035	\$124,645	\$1,341,140										
34	Licenses & options executed	22	4	34										60
35	Upper division STEM enrollment	7200	3793		309	114	481	628	1732	275	355	8290		23177
38	Number of start-up companies	62	8	13			6	24	0	0	0	1		114
41	Expenditures for instruction as % of total operating expenditures	33%	34%	25%	41%	34%	40%	47%	40%	41%	39%	27%		
42	Expenditures for administration as % of total operating expenditures	8%	11%	9%	20%	24%	15%	14%	14%	21%	13%	20%		
43	Fund balance increase: goal achieved	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	Met goal	
44	% of fundraising goal achieved	105%	107%	71%	88%	121%	91%	172%	87%	98%	116%	67%	99%	
51	Classroom utilization rate	70%	59%		65%	71%	56%	65%	60%	52%	67%			64%
52	Facilities renewal \$ as % of replacement value	1.1%	0.6%	0.6%	1.5%	0.5%	1.2%	2.1%	2.1%	0.5%	0.2%		0.4%	1.0%
53	% of undergrad credits from non-traditional metho	22.5%	11.0%		13.9%	20.9%	17.6%	15.0%	7.0%		16.0%			15.6%
54	Time to degree (Years)	3.9	4.4		4.7	5.9	3.7	4.0	4.0		4.8			4.1
	Teaching workload: courses per FTE faculty	5.5	7.0		8.0	9.0	7.2	7.3	7.1	6.7	8.2			

<sup>\*</sup>Includes only medical school faculty Q:\Dashboard Indicators\2016\Data

### As of 5/25/17

	<u>#</u>	<u>Indicator</u>	<u>UMCP</u>	<u>UMBC</u>	<u>UMB</u>	BSU	CSU	<u>FSU</u>	<u>SU</u>	<u>TU</u>	<u>UB</u>	UMES	UMUC	UMCES
nent	1	Average SAT	•			•	•	•	•	•		•		
ainn	2	6-year graduation rate		•			•	•	•			•		
1 Att	3	2nd-year retention rate	•			•	•	•	•	•	•			
, anc	4	AfrAmer., Hispan., & Native Amer. as % of total undergraduates	•	•				•	•				•	
ility	5	% of applicants who were admitted (new freshmen &												
rdab		transfer students)		_						_	_			
Affo	6	MD community college transfers	•		_	_				_	_		_	_
, 388, 7	7	Resident undergrad tuition & fees	•	•		•				•				
Acce	8	% of undergraduates receiving financial aid		_	_		_	_	_	_	_	_		
int:	9	Average undergraduate debt burden upon graduation	•	_				_	_					
Student: Access, Affordability, and Attainment	10	Average alumni giving rate	•	•		•	•	•	•	•	•	•	•	
<b>0</b> 1	21	Average faculty salary	_					_	_					
.lty	22	Faculty salary %ile	•	•		•	•	•	•	•		•		
Faculty	23	Awards per 100 full-time faculty (5yrs.)		_										
_		Student to faculty ratio (X FTE students per 1 FTE fact	ulty)	•	•	•	•	•	•	•	•	•		
nt.	31	Total R&D expenditure per full-time faculty	•											
& Solopi	32		•	•	•									
nic . Jeve	33	Adjusted gross license income received		•	•									
Economic & Workforce Developmt.	34	Licenses & options executed	•	•	•									
Ec	35	Upper division STEM enrollment	•								•	•		
Wo	38	Number of start-up companies	•	•	•			•	•	•	•	•		
	41	Expenditures for instruction as % of total operating	_	•			•	_	•			_	•	
lship	42	expenditures Expenditures for administration as % of total operating		•	•	•	•	•	•	•	•	•	•	
Stewardship	42	expenditures				_	_						_	
Ste	43	Fund balance increase: goal achieved												
	44	% of fundraising goal achieved	_			_		_						
- સ્ટ	51	Classroom utilization rate							•	_				
less o	52	Facilities renewal \$ as % of replacement value	_	_		_	•		_	•	_	_		_
Effectiveness & Efficiency	53	% of undergrad credits from non-traditional methods								_				
Effe	54	Time to degree (Years)	•	•		•	•	•	-	•		•		
		Teaching workload: courses per FTE faculty						•						
		Improved/Same	21	23	8	14	12	18	15	15	7	14	4	2
		Worse	6	4	3	5	7	4	7	7	8	7	5	1

<sup>\*</sup> The most recent year compared with the average of previous 3 years.

Q:\Dashboard Indicators\2016\Data

Same or better

Worse

### As of 5/25/17

	#	<u>Indicator</u>	<u>UMCP</u>	<u>UMBC</u>	<u>UMB</u>	<u>BSU</u>	CSU	<u>FSU</u>	<u>su</u>	<u>TU</u>	<u>UB</u>	<u>UMES</u>	<u>UMUC</u>	UMCES
lent	1	Average SAT	•			•	•		•	•		•		
rin m	2	6-year graduation rate	•	•		•	•	•	•	•		•		
Atta	3	2nd-year retention rate		•		•	•	•			•	•		
and	4	AfrAmer., Hispan., & Native Amer. as % of total undergraduates	•	•				•	•	•			•	
Student: Access, Affordability, and Attainment	5	% of applicants who were admitted (new freshmen &												
ordak	6	transfer students)		•			•	•	•	•		_		
Affe	7	MD community college transfers												
sess,	8	Resident undergrad tuition & fees		•		•	•	•	•	•	•	•	•	
Acc		% of undergraduates receiving financial aid	•						•	•				
dent:	9	Average undergraduate debt burden upon graduation												
Stu	10	Average alumni giving rate												
	21	Average faculty salary				•	•	•						
Faculty	22	Faculty salary %ile	•					•						
Fac	23	Awards per 100 full-time faculty (5yrs.)												
	24	Student to faculty ratio (X FTE students per 1 FTE faculty)			•	•	•	•	•	•	•	•		
orce	31	Total R&D expenditure per full-time faculty	•	•	•							•		
orkfe it.	32	U.S. Patents issued												
udo M 2	33	Adjusted gross license income received												
Economic & Workforce Developmt.	34	Licenses & options executed												
onor	35	Upper division STEM enrollment												
Ec	38	Number of start-up companies												
Q.	41	Expenditures for instruction as % of total operating expenditures	•	•	•	•	•	•		•	•	•	•	
Stewardship	42	Expenditures for administration as % of total operating	•	•	•	•	•	•	•	•	•	•	•	
war		expenditures		_	_	_	_	_	_	_	_	_	_	_
Ste	43	Fund balance increase: goal achieved			•	•		•		•	•			
	44	% of fundraising goal achieved	•	•			•		•					
ચ	51	Classroom utilization rate												
ness	52	Facilities renewal \$ as % of replacement value	_	_		_	•	•	•	•		_	_	_
Effectiveness & Efficiency	53	% of undergrad credits from non-traditional methods								_				
Effe	54	Time to degree (Years)												
	55	Teaching workload: courses per FTE faculty		•				•	•	•	•	•		
		Meets benchmark	12	10	3	5	8	8	13	10	3	11	3	1
		Does not meet benchmark	4	8	5	10	7	9	4	7	6	6	3	1

### University System of Maryland *Dashboard Indicators, June 2017*

As of 5/25/17

 $N = National \ standards \ based \ upon \ weighted \ average \ of \ 4-year \ public \ universities$ 

			Student								
•	S2	S3	S4	S6	S7	S11	S12	S13	1		
		Average (3-yr.)	AfrAmer.		Average weighted	% of Maryland	Institutional financia	Institutional			
	6-year	2nd year	Hispan., Nat. Amer.	MD comm. college	resident UG tuition	market share	aid for undergrads	financial aid for			
	graduation rate	retention rate	as % of UGs	transfers	& fees	(Public/	as % of undergrad	undergraduate			
Year	+	+	+	+	(Yr. beginning) chg.	Private/CCs) +		students (millions) +			
2011	61%	74%	33%	10994	\$7,992 3%	41.7%	16%	\$110.9			
2012	61%	74%	33%	11033	\$8,268 3%	42.4%	15%	\$117.1			
2013	63%	73%	33%	11882	\$8,558 4%	42.9%	15%	\$123.9			
2014	63%	74%	33%	11182	\$8,833 3%	45.1%	16%	\$132.5			
2015	65%	74%	34%	11603	\$9,389 6%	45.9%	17%	\$141.0			
2016				11544	\$9,606 2%	47.4%	17%	\$144.7			
Benchmark	59%	75%	25%	1							
				_							
		Faculty			nomic Develop			kforce Develop		Fund	0
	S21-1	S21-2	S22	S32	S34	S38	S35	S36	S37	S48	S49
	Aver.	Aver.	Wgtd. aver		Licenses &		Upper division			Operating expendit.	Funding
	faculty salary	faculty salary	faculty salary	U.S. Patents	options	Number of	STEM	Number of	Number of	per FTE stdt.	guideline %
***	(Research univ.)	(Master's univ.)	%ile	issued	executed	start-up companies	enrollment	teaching graduates	nursing graduates	(Excl. auxil./hosp.)	achieved (FY)
Year 2011	\$105,812	\$71,240	71	77	29	NA	15550	1720	1,169	+ +27.200	70%
2011	\$105,812	\$71,850	68	67	38	52	17043	1728 1701	1,109	\$27,208 \$27,624	70% 74%
2012	\$100,733	\$71,830 \$71,872	67	68	42	67	18098	1701	1,201	\$27,624 \$28,120	74% 74%
2013	\$116,024	\$77,233	80	70	52 52	131	20130	1718 1713	1,339	\$30,185	76%
2015	\$119,120	\$78,951	81	89	58	141	20717	1/13	1,459	\$29,549	72%
2016	\$118,385	\$80,799	75	74	60	114	23177		1,439	\$29,349	72%
2010	φ110,505	φου,722	75	74	00	117	23177				7270
Benchmark	\$106,377	\$79,802	85%							\$30,412	100%
				Stewardship	)				Effectiveness	& Efficiency	
	S41	S42	S43	S44	S45	S46	S47	S51	S52	S53	S54
		System Office admin	Unrestricted	Fund balance	5.0	% of annual	Total funds	561	Facilities	% of undergrad.	Time
		as % of System's tota	net assets to	increase:	Credit rating	fundraising	raised (annual)	Classroom	renewal \$ as % of	credits from	to
	per FTE student	operating expend.	debt ratio	goal achievement	(Moody's)	dedicated to	(000s)	utilization rate	replacemt. value	non-tradit. methods	Degree
Year	+	NC NC	+	+	NC	endowment +	+	+	+	+	-
2011	\$8,151	0.4%	100%	Met goal	Stable	13.0%	\$242,343	66%	1.3%	13.2%	4.4
2012	\$8,150	0.4%	113%	Met goal	Stable	12.5%	\$242,056	66%	1.3%	14.0%	4.4
2013	\$8,136	0.4%	121%	Met goal	Stable	14.2%	\$232,150	66%	1.4%	14.5%	4.2
2014	\$8,591	0.5%	111%	Met goal	Stable	12.5%	\$256,528	65%	1.1%	16.9%	4.2
2015	\$9,063	0.4%	74%*	Met goal	Stable	14.2%	\$335,074	64%	0.9%		4.1
2016			82%	Met goal	Stable	16.3%	\$276,594		1.0%	15.6%	_
Benchmark	\$7,501	Rank 27 of 29						66%	0.2% increase	10.0%	

<sup>6</sup> 

<sup>\*</sup> Recalibrated for new accounting standard on pensions

### External Fiscal

	Funding guideline % achieved (FY)										
	BSU	CSU	FSU	SU	TU	UB	UMB	UMBC	UMCP	UMES	UMUC
2005	53%	64%	73%	63%	77%	84%	56%	61%	65%	70%	43%
2006	51%	70%	78%	74%	80%	80%	53%	64%	67%	72%	34%
2007	94%	108%	90%	104%	100%	141%	72%	81%	82%	99%	40%
2008	74%	93%	82%	79%	90%	132%	73%	74%	78%	88%	61%
2009	87%	101%	93%	78%	88%	107%	75%	72%	82%	82%	39%
2010	74%	112%	77%	65%	68%	50%	61%	65%	73%	69%	46%
2011	62%	101%	67%	63%	63%	45%	57%	64%	72%	62%	43%
2012	70%	111%	69%	63%	66%	46%	69%	62%	75%	71%	37%
2013	77%	116%	75%	70%	76%	45%	71%	65%	76%	75%	54%
2014	84%	127%	90%	75%	87%	55%	60%	62%	78%	97%	40%
2015	95%	126%	86%	70%	65%	66%	72%	62%	80%	85%	53%
2016	89%	128/%	85%	71%	60%	64%	68%	59%	75%	78%	53%
2017	86%	138%	85%	74%	68%	63%	71%	61%	80%	78%	26%

	Operating expend. per FTE student (Excl. auxil./hosp.)										
	BSU	CSU	FSU	SU	TU	UB	UMB	UMBC	UMCP	UMES	UMUC
2005	\$13,554	\$15,562	\$11,363	\$10,391	\$11,108	\$13,191	\$46,596	\$23,059	\$31,270	\$20,605	\$17,266
2006	\$13,885	\$13,736	\$12,764	\$10,859	\$11,881	\$14,230	\$48,802	\$23,979	\$33,087	\$21,009	\$18,961
2007	\$14,770	\$18,924	\$13,637	\$11,217	\$12,275	\$15,090	\$50,438	\$25,720	\$33,645	\$18,214	\$17,569
2008	\$14,778	\$18,114	\$14,843	\$10,973	\$12,608	\$15,625	\$55,374	\$26,326	\$34,538	\$18,473	\$17,585
2009	\$15,269	\$19,617	\$15,102	\$12,499	\$13,743	\$14,629	\$55,333	\$26,522	\$36,444	\$19,233	\$18,534
2010	\$15,821	\$21,749	\$14,598	\$11,892	\$13,009	\$15,606	\$56,458	\$25,759	\$36,281	\$18,353	\$18,704
2011	\$14,766	\$23,063	\$14,706	\$11,556	\$13,052	\$15,698	\$57,345	\$26,620	\$37,303	\$18,385	\$19,153
2012	\$15,381	\$24,627	\$15,533	\$12,899	\$14,794	\$14,848	\$55,889	\$25,011	\$38,981	\$20,600	\$18,299
2013	\$16,942	\$22,270	\$16,103	\$13,088	\$13,639	\$15,608	\$56,435	\$25,690	\$40,232	\$21,036	\$19,399
2014	\$17,984	\$23,900	\$17,335	\$13,888	\$14,219	\$17,031	\$69,623	\$26,464	\$42,959	\$22,377	\$20,718
2015	\$17,118	\$25,800	\$17,811	\$14,026	\$14,918	\$18,108	\$73,671	\$27,319	\$42,972	\$24,293	\$15,550
Benchmark	\$19,927	\$19,610	\$17,817	\$20,255	\$16,785	\$18,472	\$58,385	\$29,641	\$62,178	\$20,843	\$10,548

	State appropriations per FTE student										
	BSU	CSU	FSU	SU	TU	UB	UMB	UMBC	UMCP	UMES	UMUC
2005	\$5,074	\$6,161	\$5,231	\$4,199	\$4,012	\$4,380	\$11,249	\$6,667	\$9,955	\$6,396	\$1,277
2006	\$5,362	\$6,104	\$5,843	\$4,359	\$4,183	\$4,771	\$12,119	\$7,200	\$10,364	\$6,629	\$1,365
2007	\$7,418	\$9,482	\$6,691	\$4,957	\$4,783	\$5,420	\$12,966	\$8,094	\$11,735	\$7,593	\$1,492
2008	\$7,558	\$10,266	\$6,853	\$5,021	\$4,939	\$5,260	\$13,641	\$8,451	\$12,220	\$8,374	\$1,890
2009	\$7,586	\$10,715	\$6,731	\$5,201	\$4,842	\$5,219	\$11,162	\$8,404	\$12,003	\$8,072	\$2,034
2010	\$6,733	\$11,457	\$5,804	\$4,475	\$4,281	\$4,422	\$11,771	\$7,217	\$10,524	\$7,135	\$1,776
2011	\$7,521	\$12,150	\$6,475	\$5,001	\$4,796	\$4,859	\$13,231	\$8,534	\$12,035	\$7,589	\$1,972
2012	\$7,817	\$12,849	\$6,858	\$4,989	\$4,944	\$5,038	\$13,253	\$8,540	\$12,187	\$7,907	\$1,804
2013	\$8,177	\$13,006	\$6,943	\$5,043	\$4,887	\$4,996	\$13,232	\$8,339	\$12,218	\$7,902	\$1,850
2014	\$8,319	\$14,726	\$7,246	\$5,088	\$4,848	\$5,176	\$16,544	\$8,399	\$12,567	\$8,919	\$2,010
2015	\$8,651	\$16,869	\$7,725	\$5,571	\$5,359	\$5,696	\$19,007	\$9,096	\$13,520	\$9,512	\$1,793
Benchmark	\$8,735	\$9,079	\$6,801	\$7,902	\$5,498 <b>7</b>	\$6,615	\$9,079	\$9,811	\$9,347	\$8,912	\$1,523

### University System of Maryland Dashboard Indicators, June 2017

As of 5/25/17

Italicized figures are figures against which national comparisons should be made.

	E1	E30	E2	E4	E5	E6	E12	E14	"	E23
	% of Maryland	% of Maryland	Doctoral scientists,				Persons in science			Current population
	residents	residents	engineers, &				& engineering			estimates
	with at least a	with advanced	health professionals	Science & engineering	Per capita	Unemployment	occupations	Average		(as of July 1)
	bachelor's degr.	degree or more	employed in MD	doctorates awarded	personal income	rate (June)	as % of workforce	high-tech wage		(for comparison purposes
Year	+	+	+	+	+	-	+	+		ı
2011	36.9%	16.5%		858	\$50,656	7.2%	7.00%	\$100,054		5,828,289
2012	36.9%	16.9%		900	\$53,816	7.0%	7.20%	\$96,500		5,884,868
2013	37.4%	17.1%	32,600	1,124		6.7%	7.40%			5,928,814
2014	38.2%	17.5%		1,066	\$55,478	5.8%	7.40%	\$101,849		5,976,407
2015	38.8%	17.7%			\$56,502	5.2%		\$104,659		6,006,401
2016					\$58,149	4.2%				6,016,447
Benchmark	30.6%	11.6%	5th (MD's rank)	11th (MD's rank)	7th (MD's rank)	4.6%	3rd (MD's rank)	11th (MD's rank)		19th (MD's rank)

	R&D								
	E8	E22							
	Academic R&D	University R&D							
	expenditures in	expenditures in							
	science & engin.	life sciences							
	(millions)	(millions)							
Year	+	+							
2011	\$3,367	\$1,524							
2012	\$3,308								
2013	\$3,376	\$1,557							
2014	\$3,515	\$1,622							
2015	\$3,705	\$1,737							
2016									
Benchmark									

Economic Development											
E7	E16	E15									
	Venture capital	High-tech									
	disbursed per \$1,000	establishments									
SBIR awards	of Gross Domestic	as % of business									
(\$ millions)	Product (\$)	establishments									
+	+	-									
265	\$1.36	11.74%									
	\$1.23	11.87%									
245	\$1.91										
234	\$1.04										
4th (MD's rank)	16th (MD's rank)	4th (MD's rank)									

Support of Higher Education											
E17	E18	E19									
St. gen. funds for											
higher educ. per		State gen. funds for									
\$1,000 of personal	State gen. funds for	higher educ. per									
income (FY)	higher educ. per capita	headcount student									
+	+	+									
\$5.65	\$280.05	\$4,447									
		\$4,453									
\$5.39	\$274.25	\$4,074									
\$5.58	\$306.81	\$4,838									
\$5.60	\$302.57										
\$5.41	\$303.26	\$4,946									
29th (MD's rank)	14th (MD's rank)	13th (MD's rank)									

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