

Getting to 'first in the world' in postsecondary attainment

What will it take?

What will it cost?

Jane Wellman

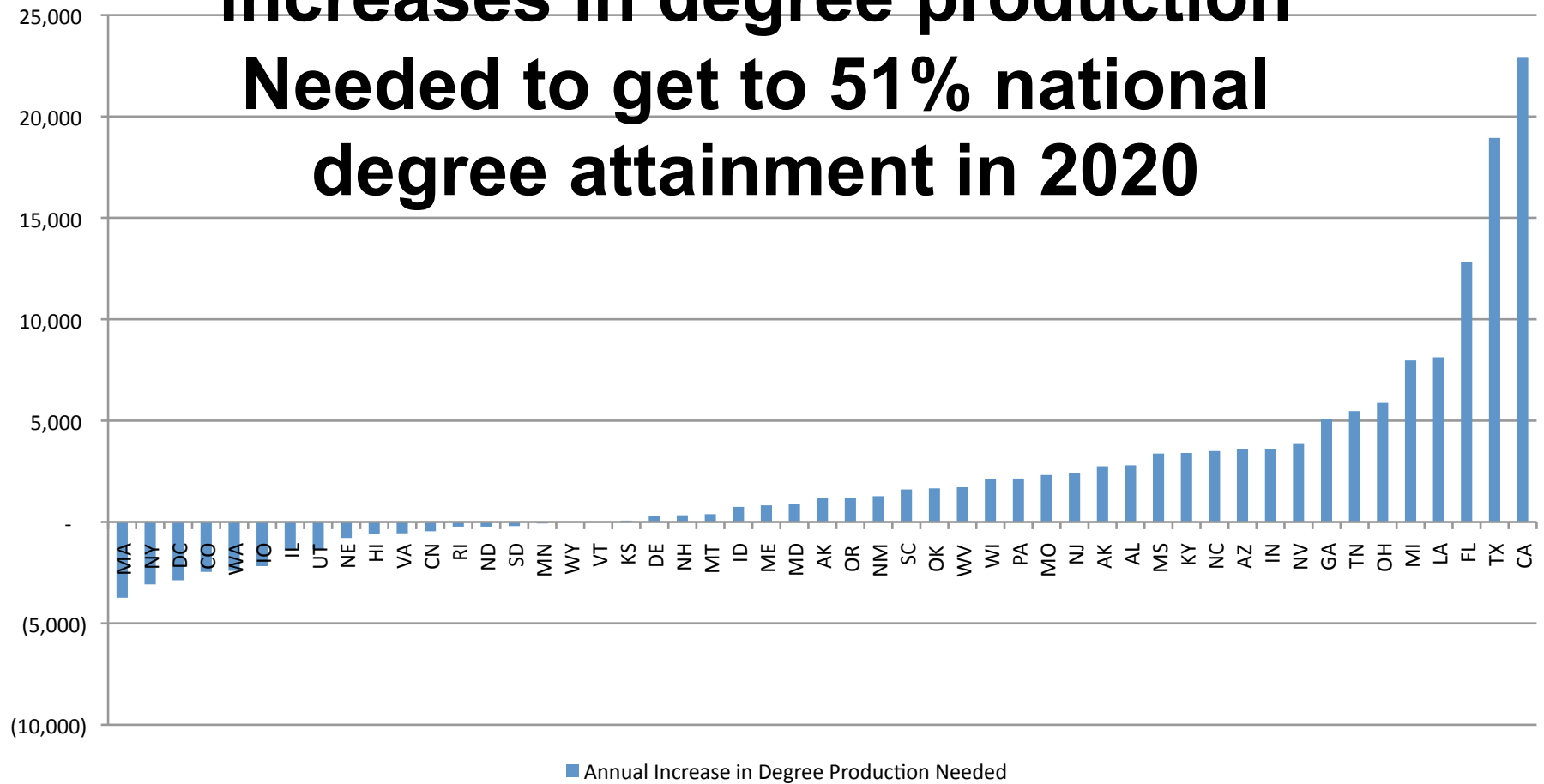
Donna Desrochers



National: What it will take to get to 50.8% adult degree attainment by 2020

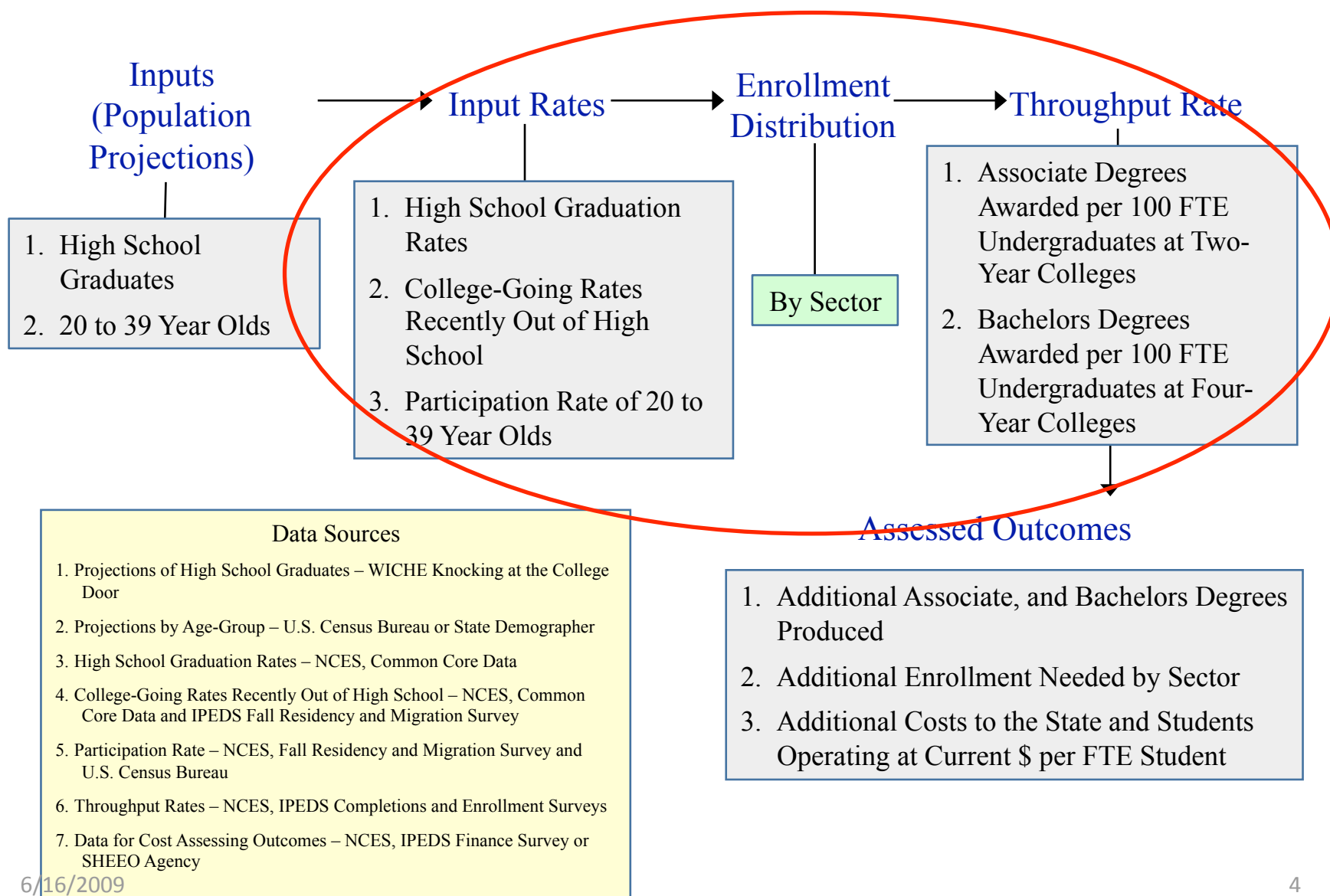
Projected 25 to 64 Year Olds in 2020			171,534,348
50.8% with College Degrees (Associate and Higher)			87,139,449
25 to 52 Year Olds with College Degrees (Who will Still be in the Cohort in 2020)			45,287,409
Maintaining Recent (2005-2007) Annual Net Migration of College Degree Holders			3,117,654
Degrees Produced at Current Annual Rate by 2020 (2,252,212)			27,026,544
Gap: Additional Degrees (Associate and Bachelor's) Needed by 2020			11,707,842
	Closing Degree Gap: Linear Progress by Year		150,101

State-level estimated annual increases in degree production Needed to get to 51% national degree attainment in 2020

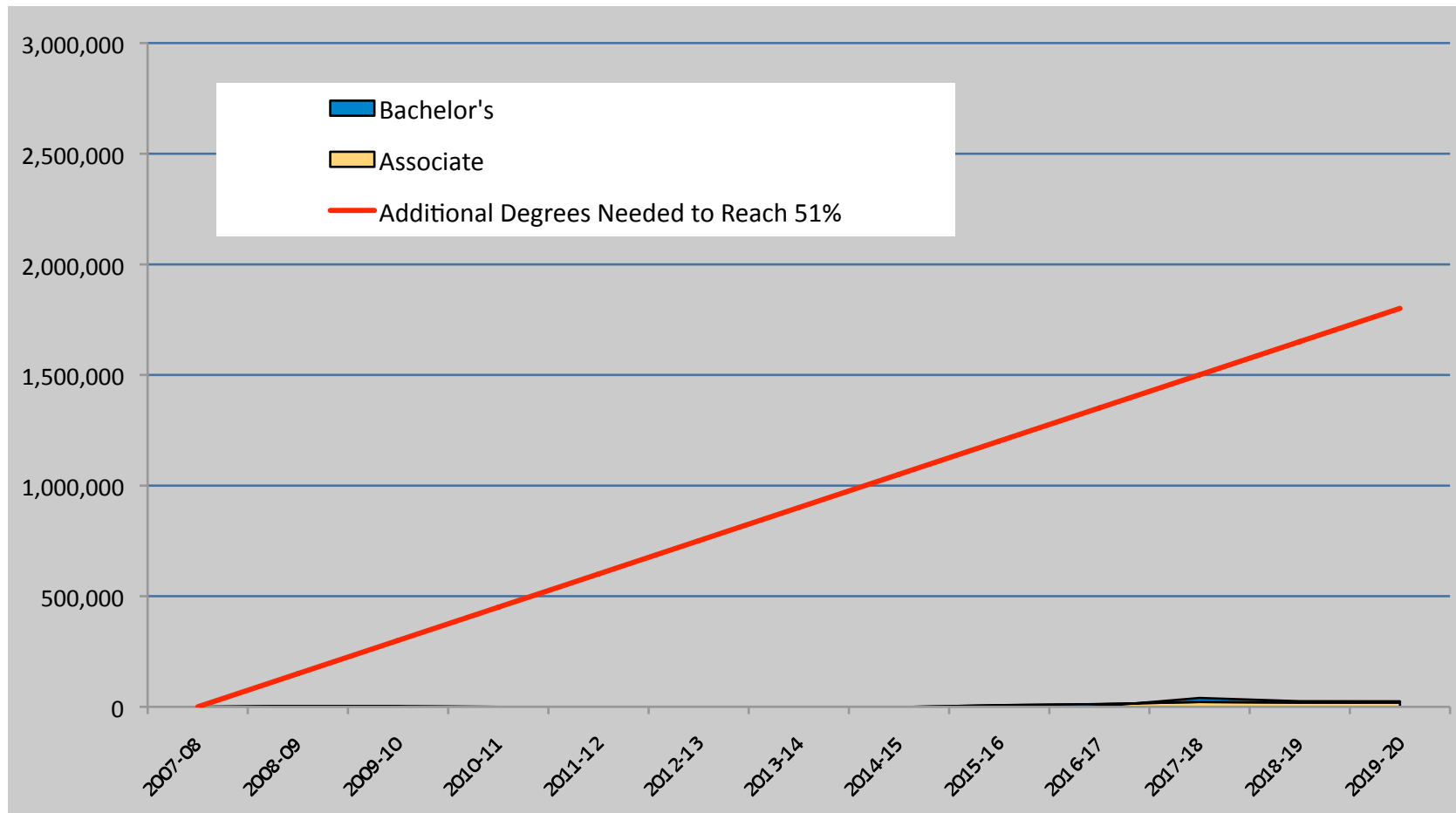


NCHEMS Simple Student Flow Model for Public Higher Education

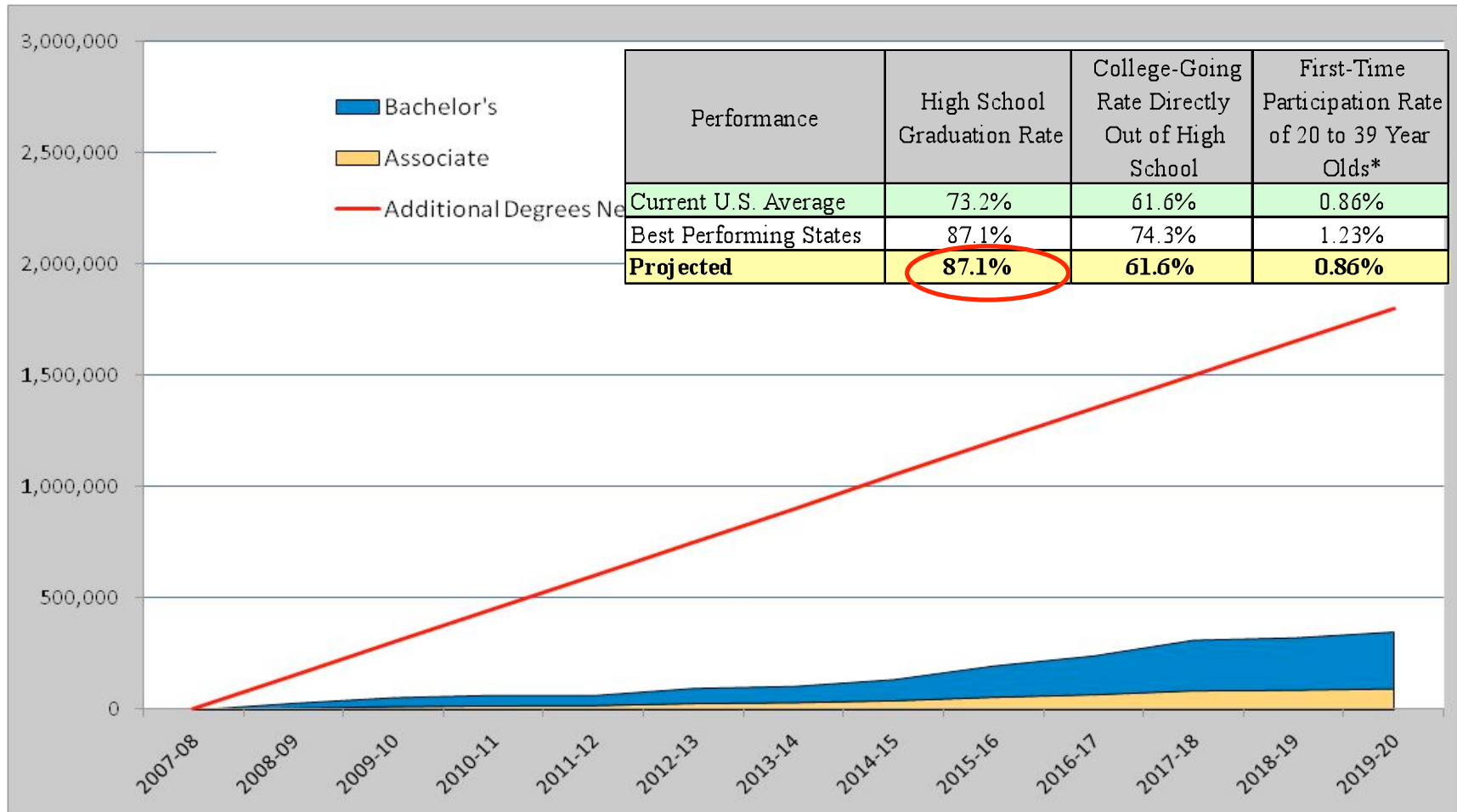
(Measures Used to Project the Impact of Improved Performance by 2020)



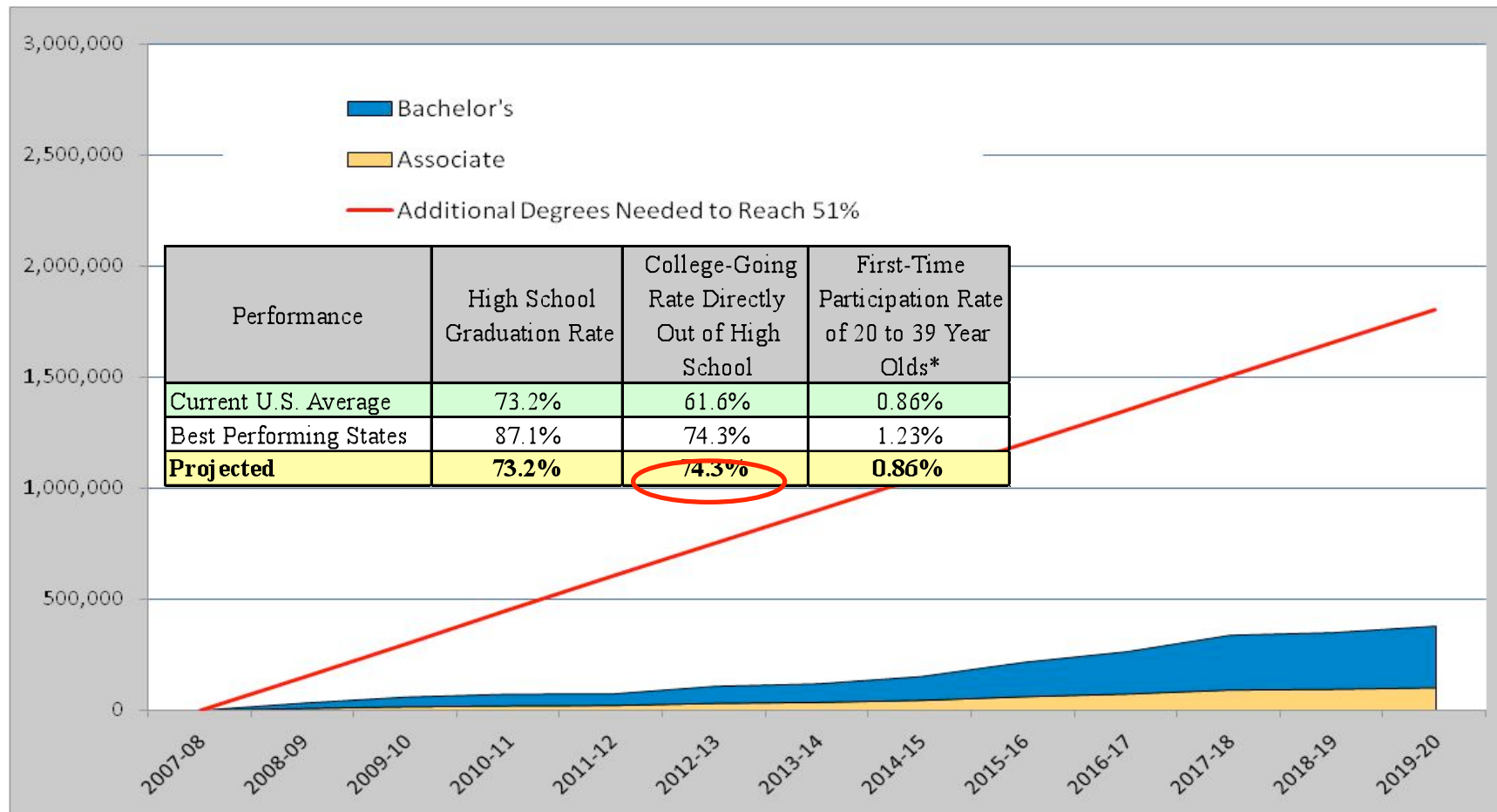
Gap in 2020 at goal of 50.8% adult population w/degrees, no change in inputs, degree production or distribution



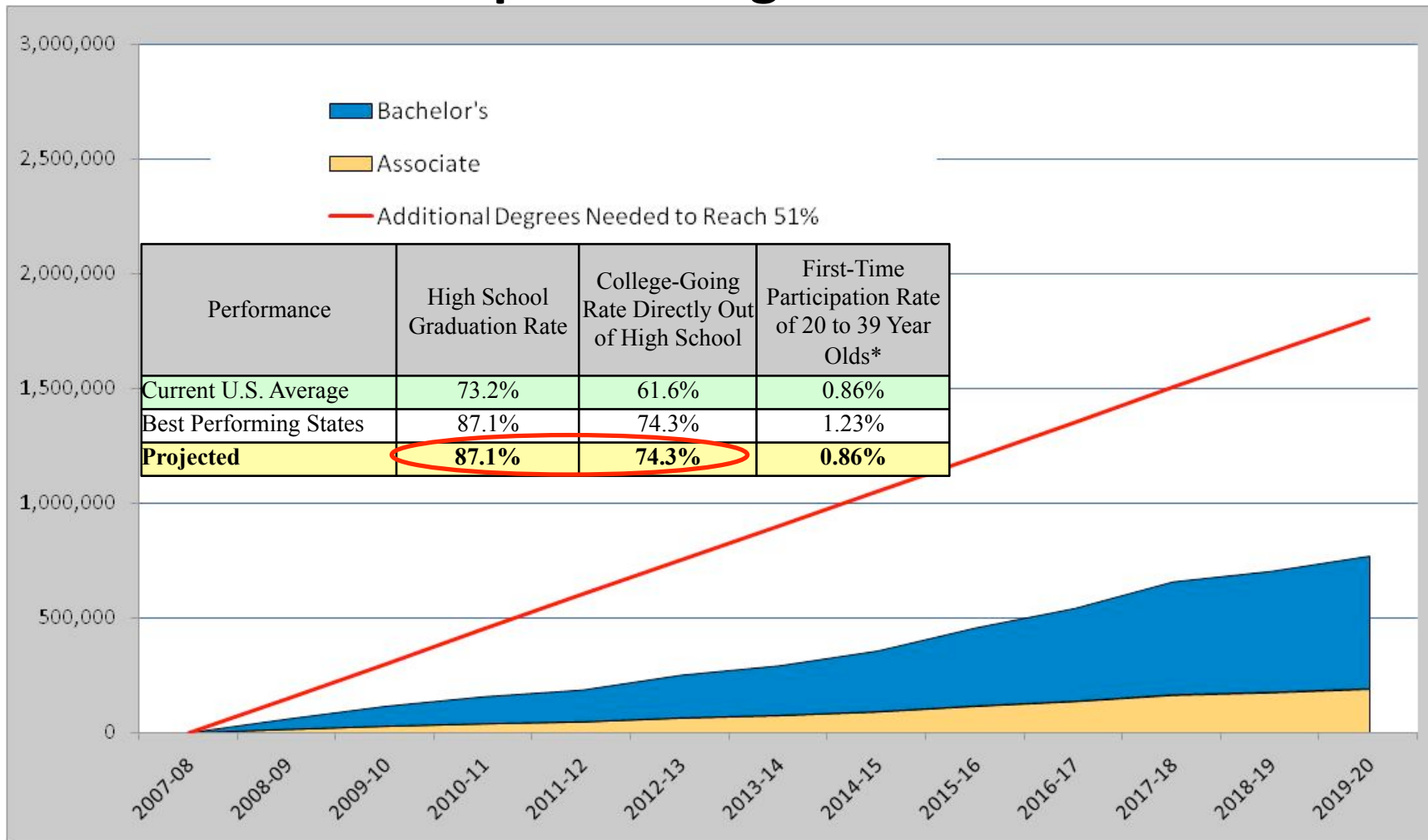
Change in 2020 gap by improving all high school grad rates to best performing



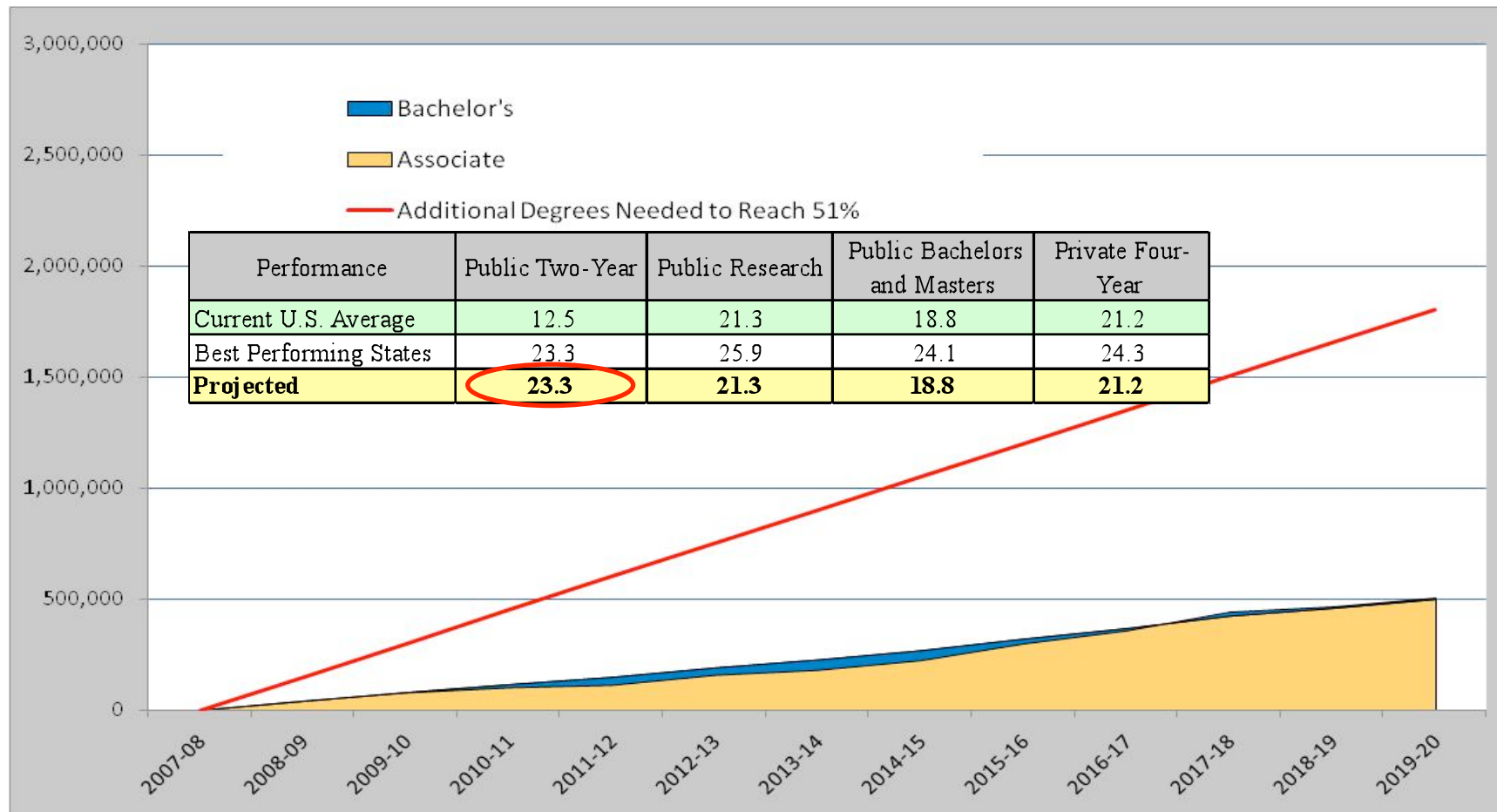
Change in 2020 gap by improving college going rates for recent high school grads to best performing



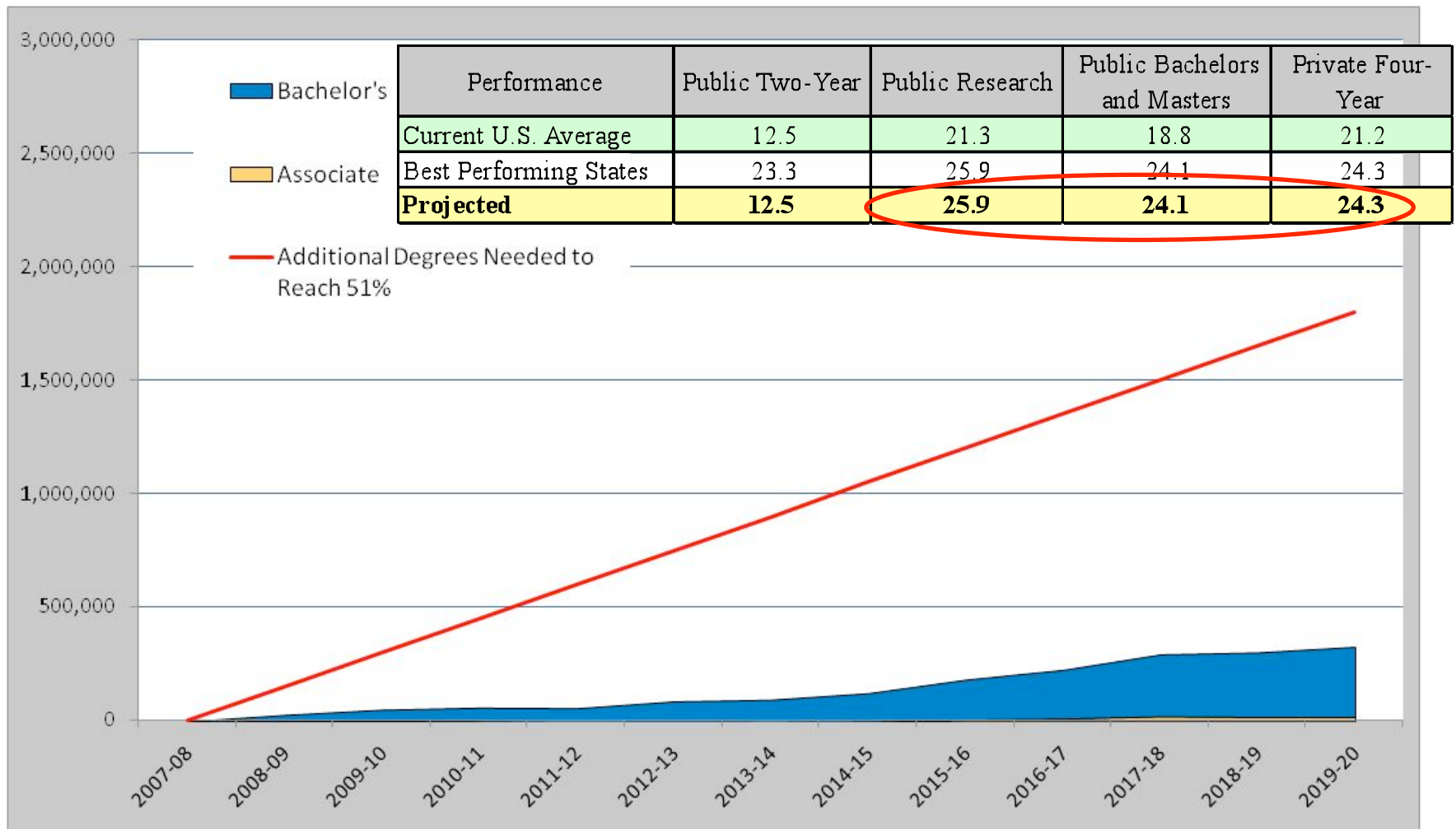
Change in 2020 gap from moving high school *and* college-going rates to best performing



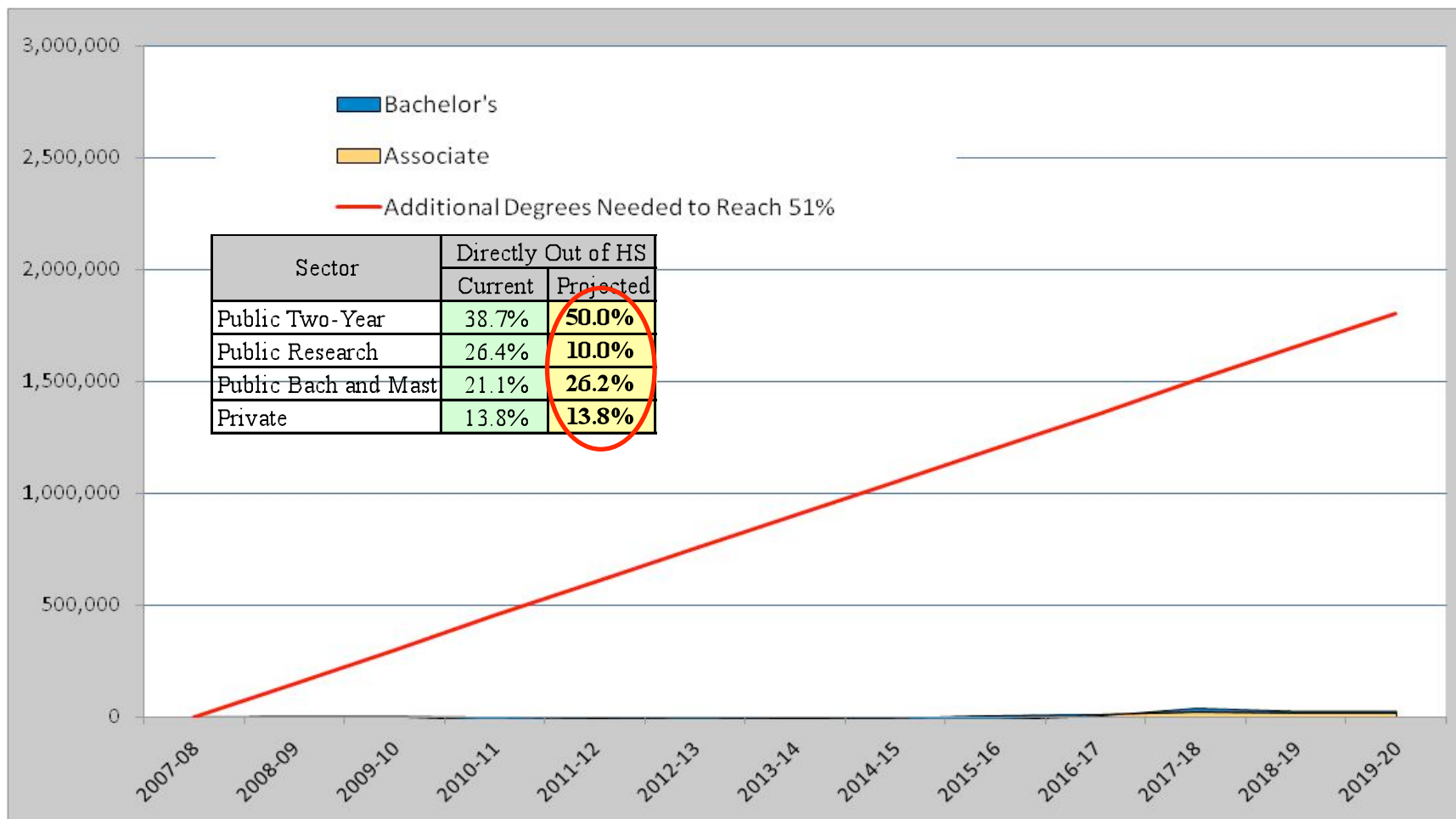
What if.. Impact from improvement in two-year sector production to 'best performing'



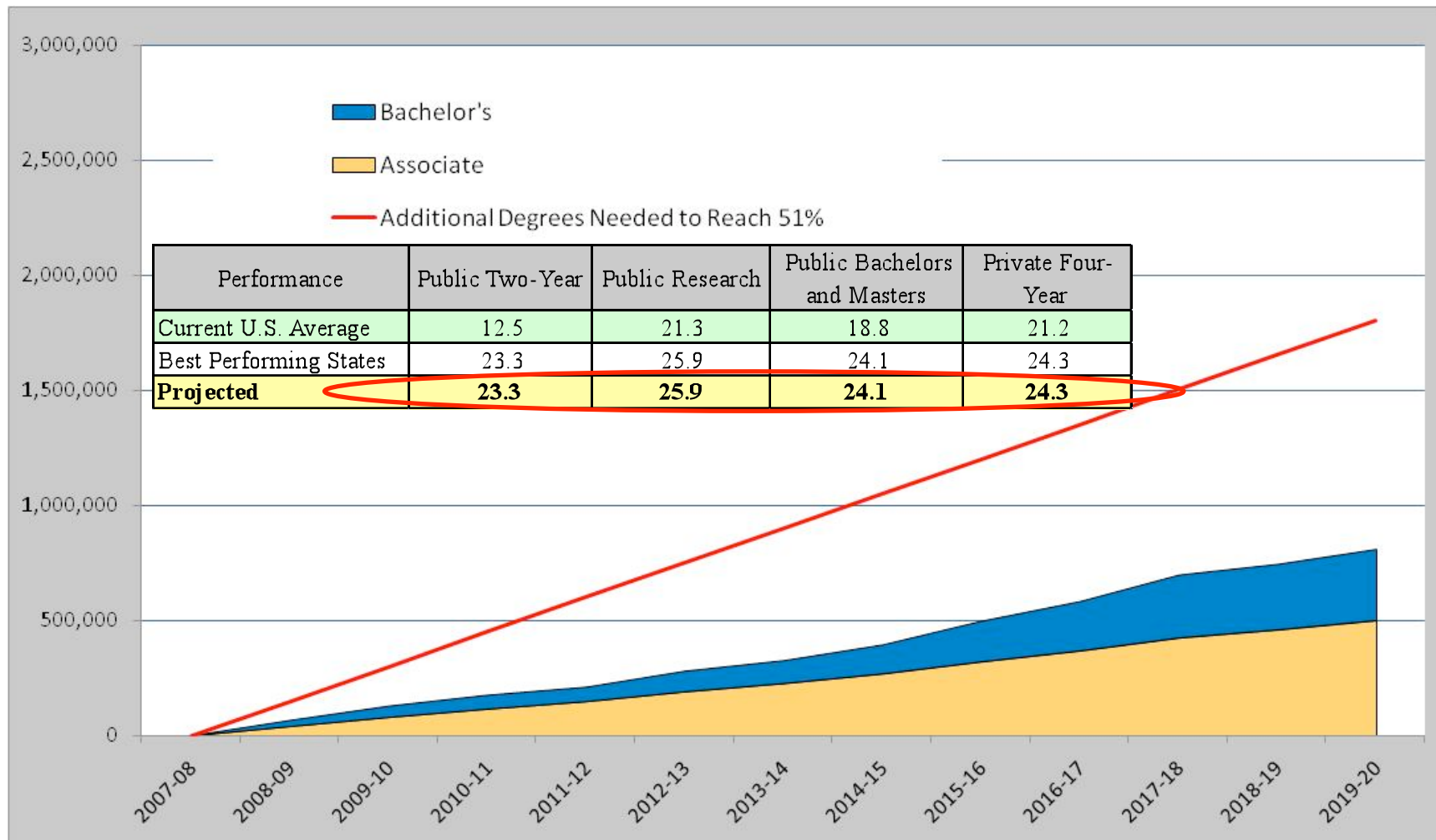
What if – only improvement is 4-year degree production to “best performing” – no change in HS grads, college-going rates, or 2-year college performance



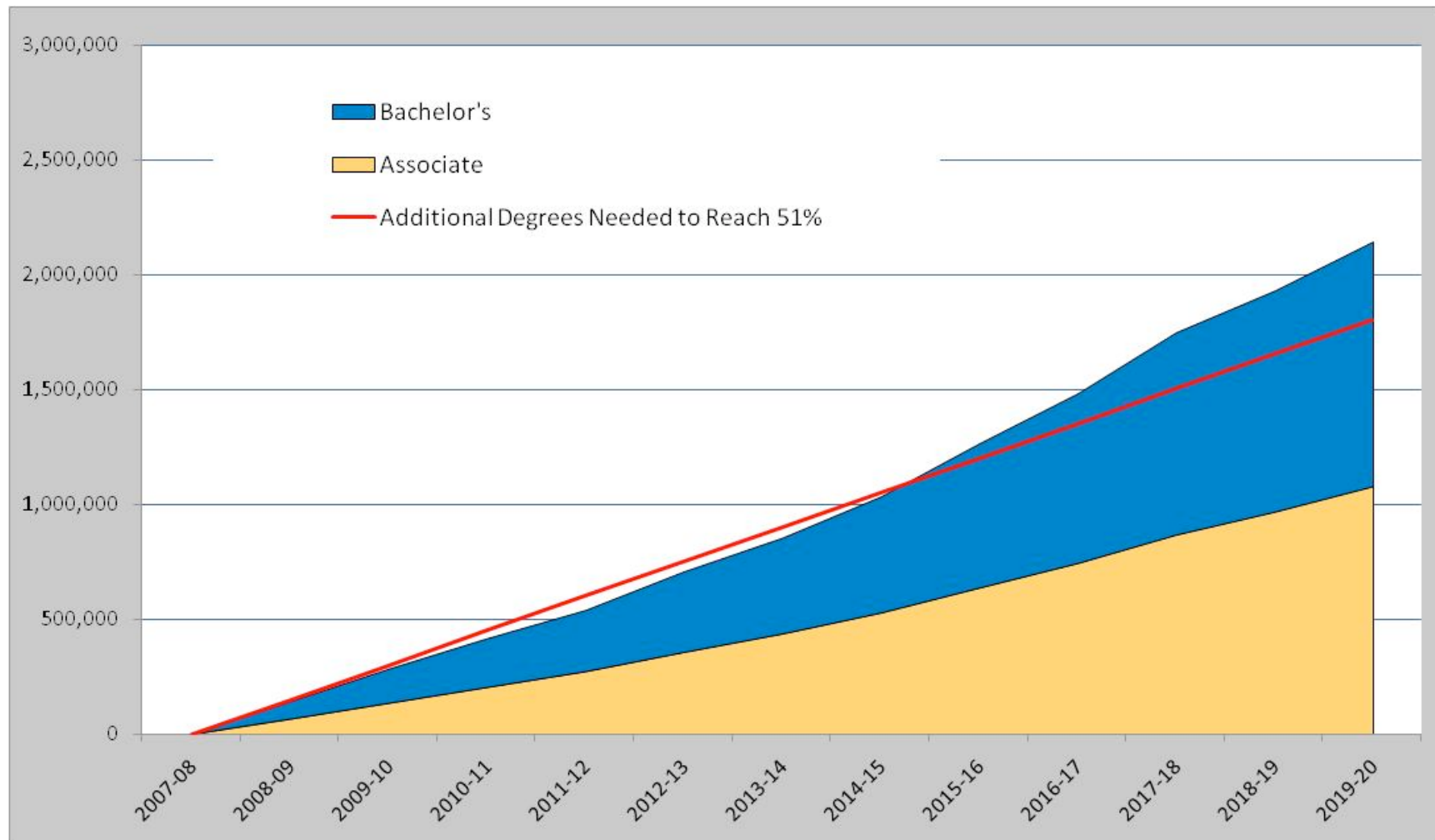
Change from redistributing PSE enrollments – no other change



Change in 2020 gap from moving all PSE grad rates to best performing (no change in high school grad or college-going rates)



Change in 2020 gap if move to best performing for all input/throughputs (high school grads, college-going, degree attainment)



Cost to meet 'best performing' – state/local appropriations, no inflation, no tuition increases, no change in enrollment distribution

Year	Annual Additional State and Local Appropriations (Keeping Tuition the Same)*				
	Public Two-Year	Public Research	Public Bachelors and Masters	Total Public	Percent Increase in State and Local Funding
2009	1,153,398,911	896,196,732	502,769,329	2,552,364,972	3.7%
2020	14,613,620,354	11,494,498,599	6,439,149,146	32,547,268,099	47.6%

Cost of 'best performing' if increased \$ from tuition and fees only (no inflation)

Year	Annual Additional Cost per FTE Student - No Investment by the State*					
	Public Two-Year	Percent Increase in Tuition and Fees Per Student	Public Research	Percent Increase in Tuition and Fees Per Student	Public Bachelors and Masters	Percent Increase in Tuition and Fees Per Student
2009	255	13.1%	259	3.6%	202	4.4%
2010	477	24.5%	488	6.7%	379	8.2%
2020	2,102	108.2%	2,482	34.1%	1,838	39.6%

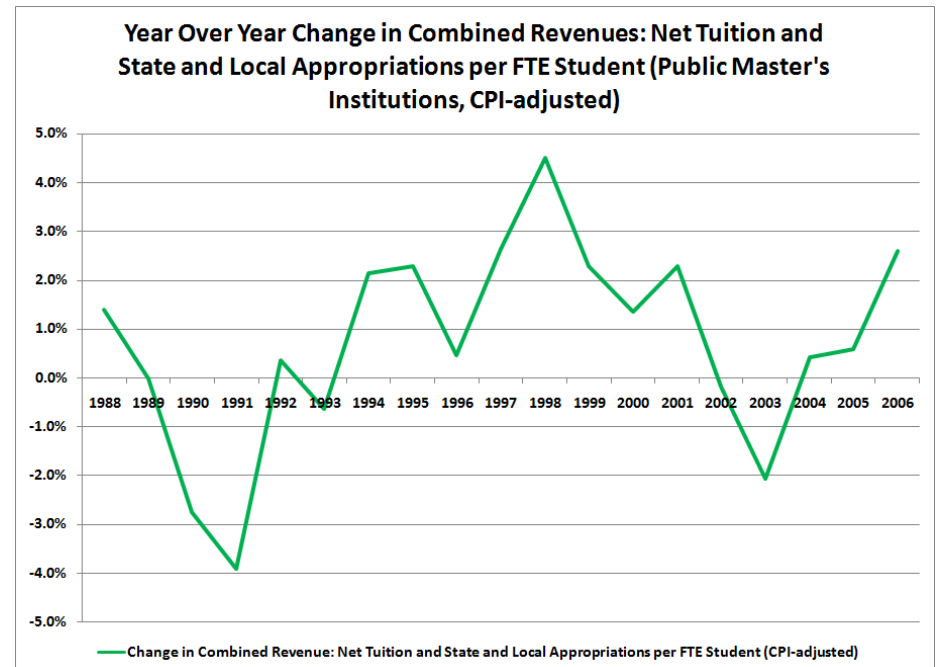
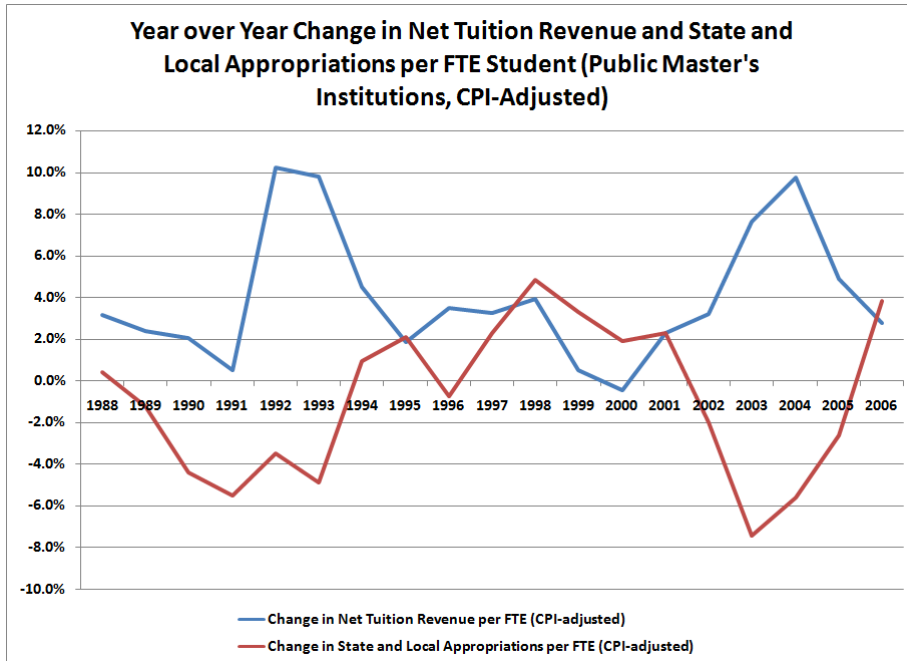
Average Annual Percent Change in Revenue Source, 2002-2006			
	Net Tuition Revenue per FTE	State and Local Appropriations per FTE	Total: S&L Appropriations and Net Tuition Revenue, per FTE
<i>Change in constant 2006 dollars</i>			
Public Research	6.1%	-3.1%	0.1%
Public Master's	6.2%	-3.1%	0.4%
Public Community Colleges	4.6%	-0.3%	0.7%
<i>Change in current dollars</i>			
Public Research	9.1%	-0.3%	2.9%
Public Master's	9.3%	-0.3%	3.3%
Public Community Colleges	7.7%	2.5%	3.6%

Note: Source data were calculated as mean values.
Source: Delta Cost Project IPEDS Database, 1987-2006; 20-year matched set.

Historic Changes in Revenues per Student

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Note: Source data were calculated as mean values.
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What if... reallocation between sectors

	Current	Projected
Public Two-Year	38.7%	50.0%
Public Research	26.4%	10.0%
Public Bach and Mast	21.1%	26.2%
Private	13.8%	13.8%

Year	Cost @ best performing w/no change in distribution of PSE enrollments				
	Public Two-Year	Public Research	Public Bachelors	Total Public	Percent Increase in
2009	1,153,398,911	896,196,732	502,769,329	2,552,364,972	3.7%
2020	14,613,620,354	11,494,498,599	6,439,149,146	32,547,268,099	47.6%

Year	Cost IF best performing AND FTF redistributed to lower cost institutions				
	Public Two-Year	Public Research	Public Bachelors	Total Public	Percent Increase in
2009	1,167,905,315	852,543,732	511,787,978	2,532,237,025	3.7%
2020	16,850,085,904	4,764,475,967	7,829,562,384	29,444,124,255	43.1%

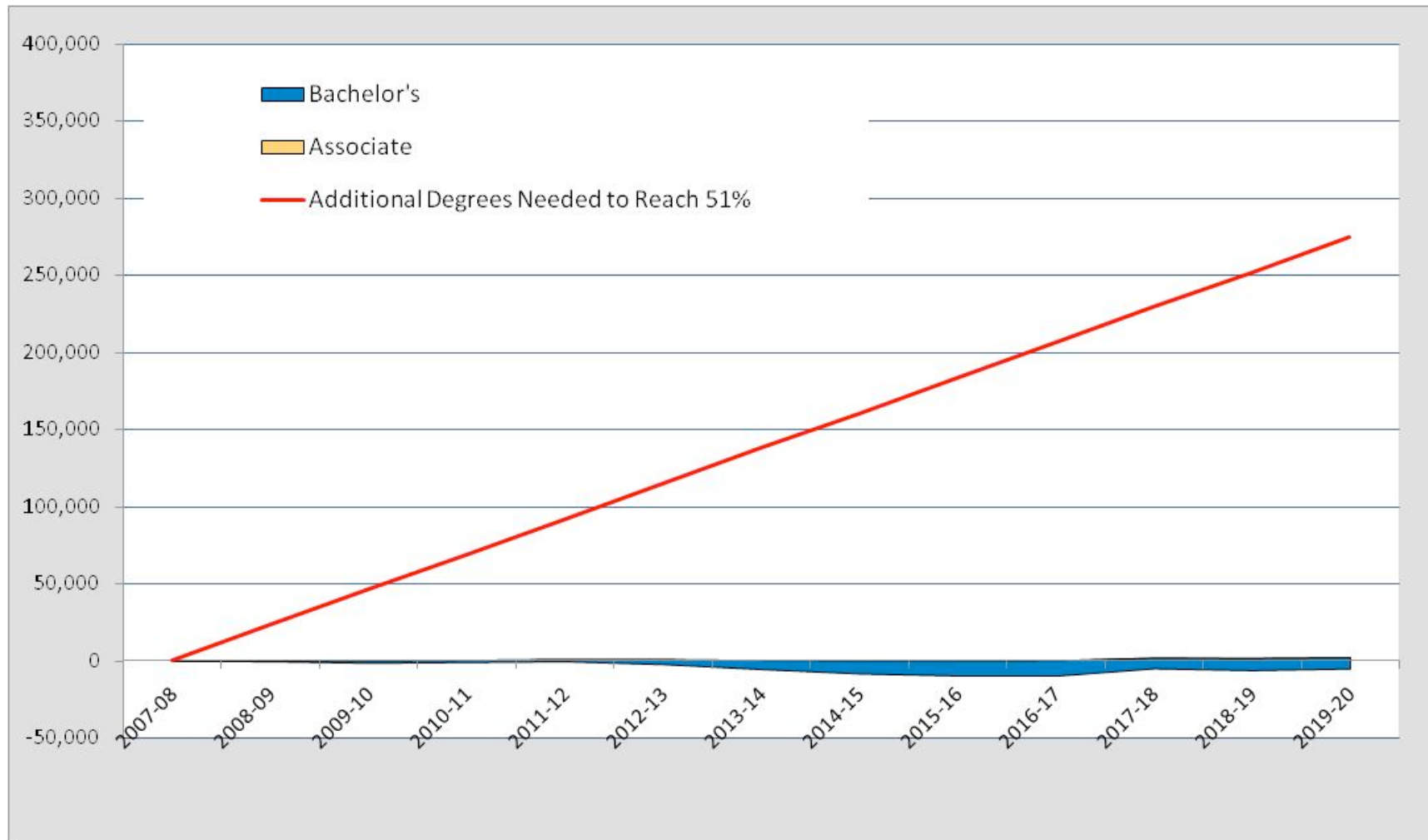
California

Inputs	HS Grad Rate	College-Going directly from HS	First-time participation for 20-29 YOs	
California	69.2%	55.8%	0.73%	
US Average now	73.2%	61.6%	0.86%	
Best performing	87.1%	74.3%	1.23%	
Degree Production	Public 2-year	Public Research	Public Bach/ Masters	Private 4-year
California	10.1	25.0	22.0	22.9
US Average now	12.5	21.3	18.8	21.2
Best performing now	23.3	25.9	24.1	24.3
Distribution of First Time Freshmen	California		National	
Public 2-year	47.9%		38.7%	
Public Research	20.5%		26.4%	
Public Masters	23.6%		21.1%	
Private	8.0%		13.8%	

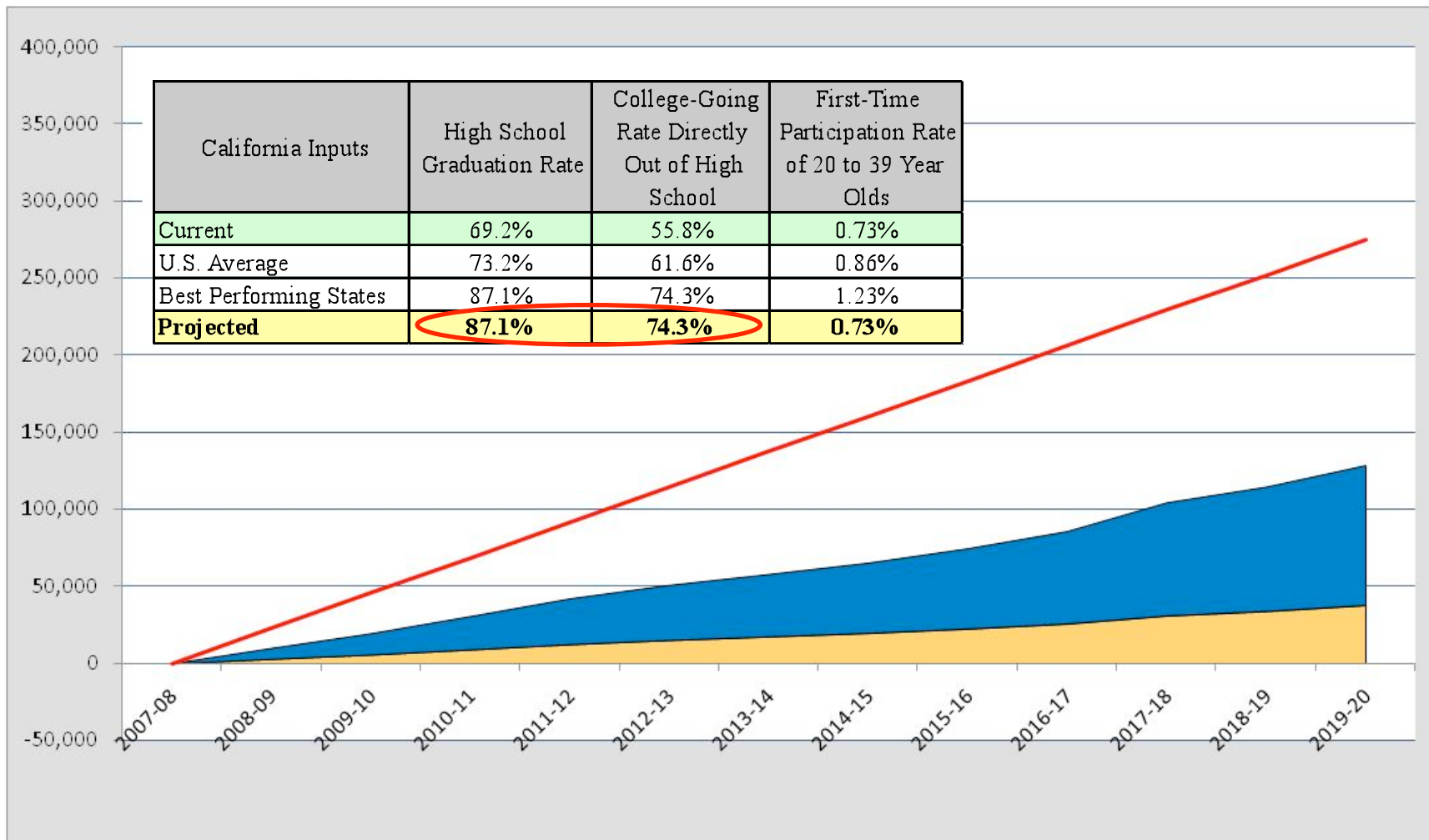
California model (continued): Costs

Education and Related Expenses per FTE Student		
	California	National
Public 2-year	\$7,236	\$7915
Public bach/ masters	\$9,922	\$10,816
Public research	\$21,132	\$14,511

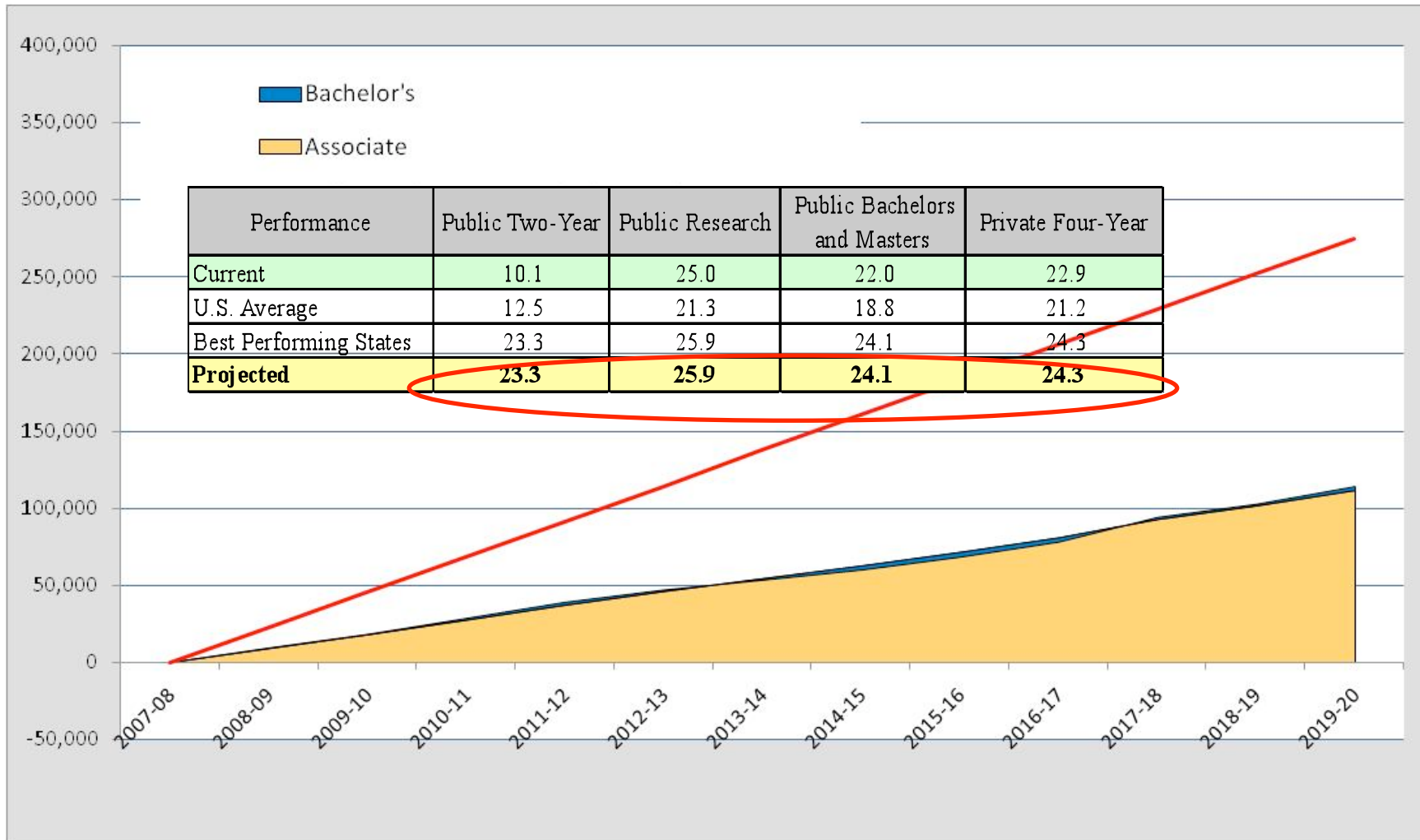
CA Gap in 2020 w/no change in performance –22,893
additional degrees/year required to close the gap



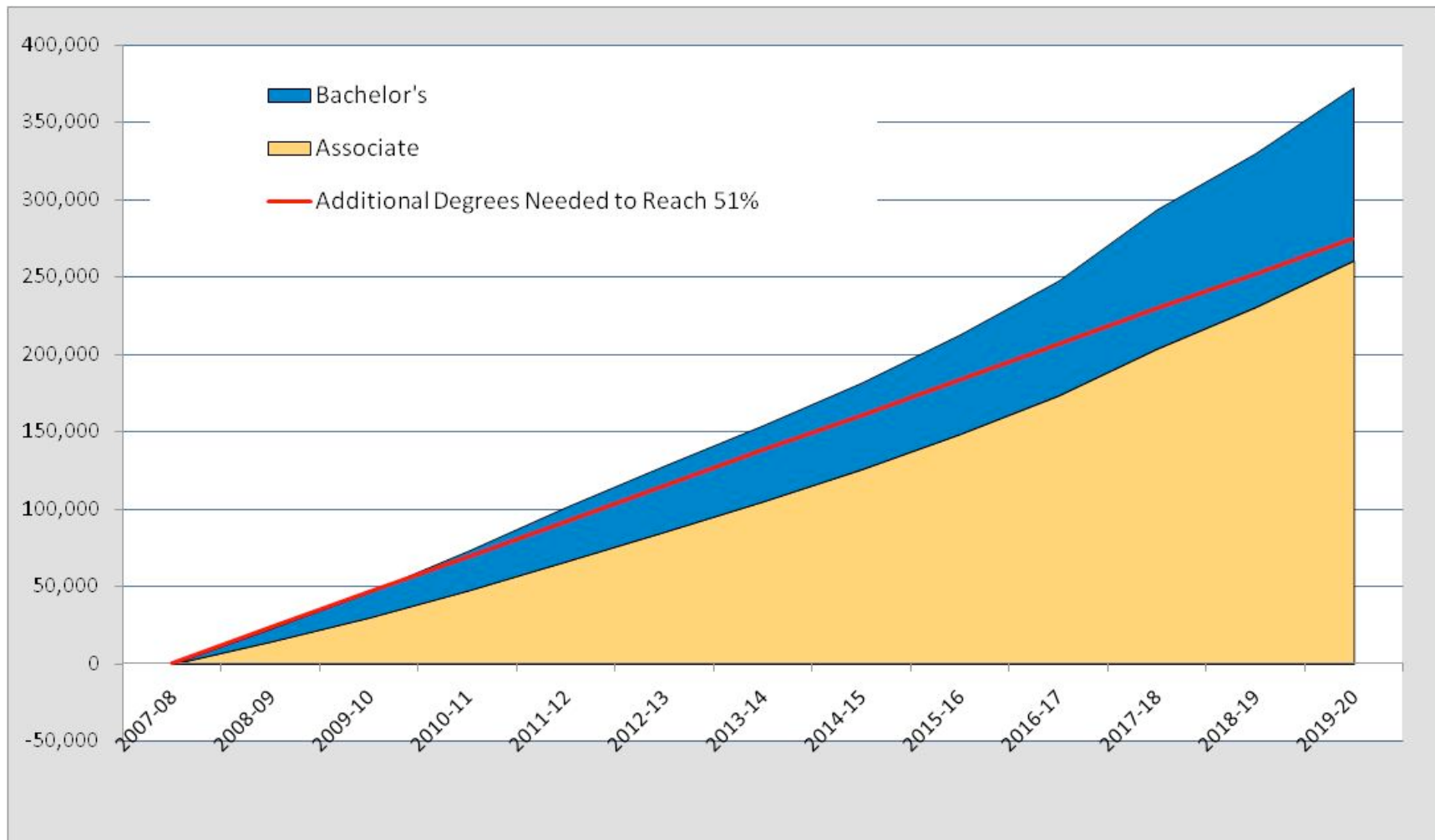
CA- Change in gap from improvements in high school grad/college-going rates



CA: Change in 2025 gap from improvements in degree performance (high school grads/college-going rates constant)



CA: Gap in 2020 @ best performing for inputs/throughputs

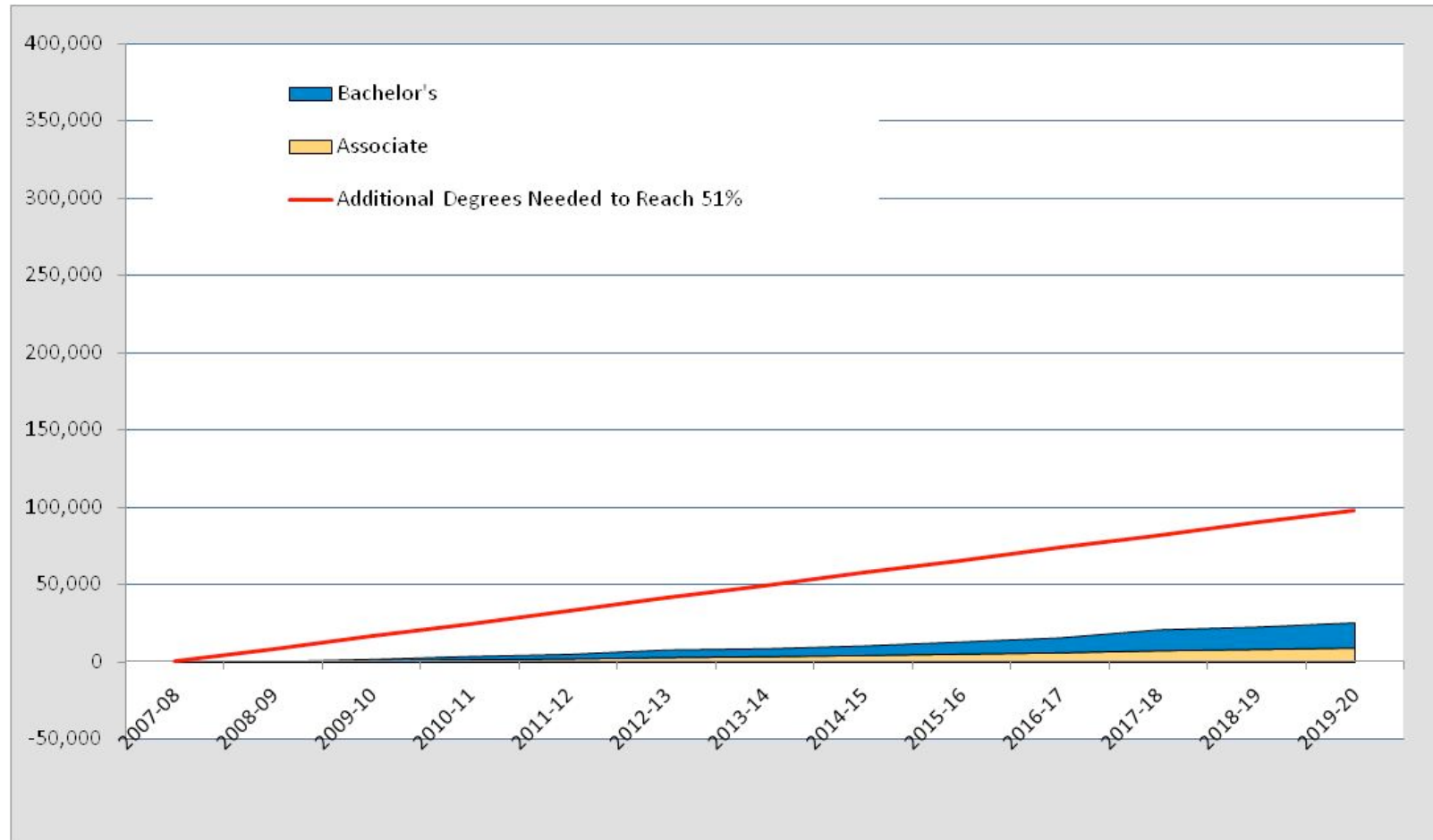


Ca: cost to get to best performing by 2020

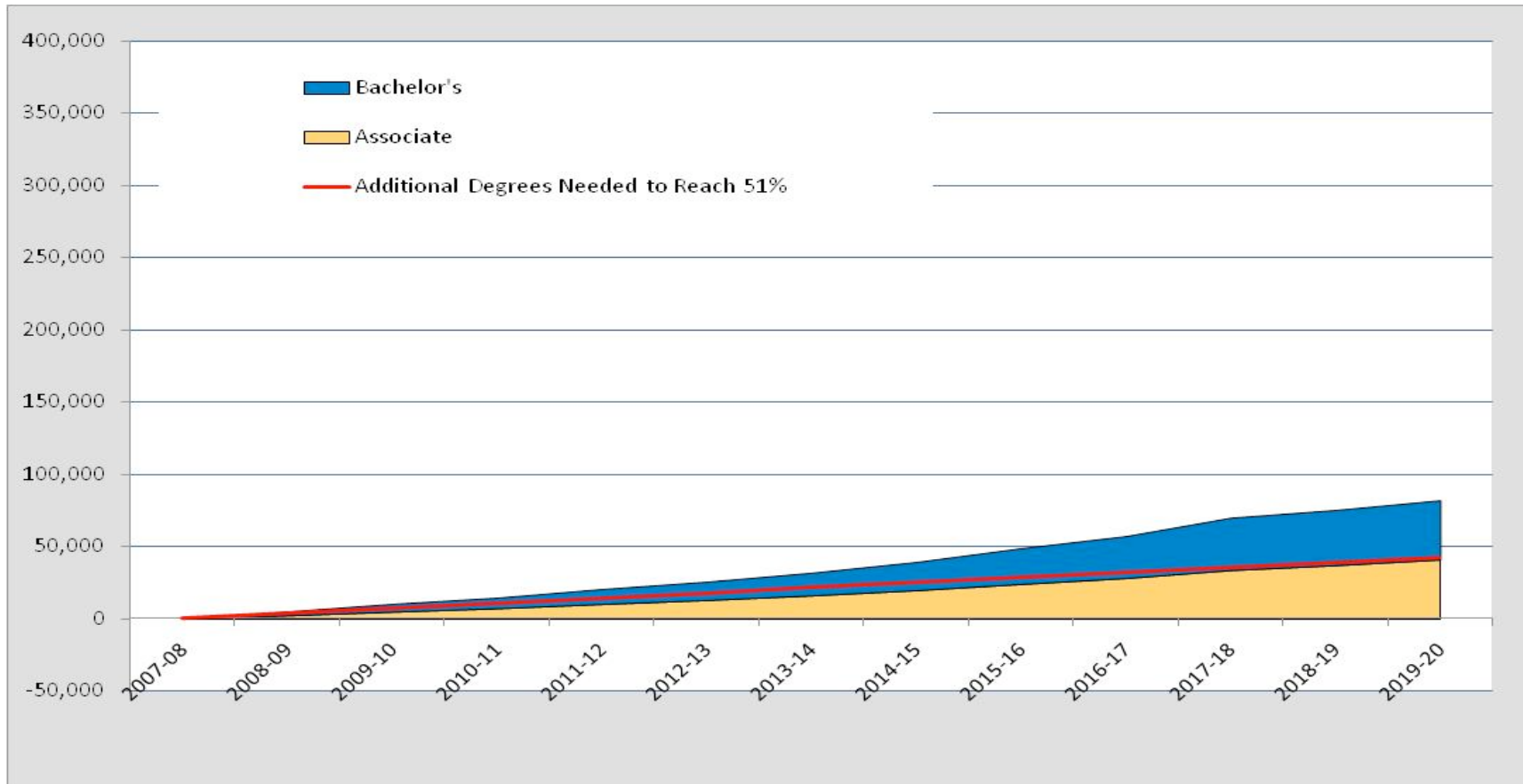
Year	Annual Additional State and Local Appropriations (Keeping Tuition the Same)				
	Public Two-Year	Public Research	Public Bachelors and Masters	Total Public	Percent Increase in State and Local Funding
2009	359,388,530	126,920,781	112,479,145	598,788,456	5.3%
2020	4,705,474,557	1,628,190,706	1,442,792,511	7,776,457,775	68.9%

Year	Annual Additional Cost per FTE Student - No Investment by the State					
	Public Two-Year	Percent Increase in Tuition and Fees Per Student	Public Research	Percent Increase in Tuition and Fees Per Student	Public Bachelors and Masters	Percent Increase in Tuition and Fees Per Student
2009	417	54.9%	503	6.7%	309	9.7%
2020	3,203	421.5%	4,328	57.7%	2,646	83.2%

Louisiana...2020 at 'best performing'



North Carolina- 2020 at “best performing”



About the model...

Developed by NCHEMS in collaboration with the Delta Cost Project

Estimates are preliminary; model is being refined and may be revised

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Delta Project on Postsecondary Costs, Productivity and Accountability

Washington, DC

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National Center for Higher Education
Management Systems – Boulder, CO
6/16/2009



Input Rates

	High School Graduation Rate	College-Going Rate Directly Out of High School	First-Time Participation Rate of 20 to 39 Year Olds*
Current U.S. Average	73.2%	61.6%	0.86%
Best Performing States	87.1%	74.3%	1.23%

Throughput Rates

Throughput = BA/AA degrees produced per 100 FTE undergraduates

Performance	Public Two-Year	Public Research	Public Bachelors and Masters	Private Four-Year
Current U.S. Average	12.5	21.3	18.8	21.2
Best Performing States	23.3	25.9	24.1	24.3

Distribution of First-Time Freshmen Enrollments

Sector	Directly Out of HS		Other	
	Current	Projected	Current	Projected
Public Two-Year	38.7%	38.7%	85.1%	85.1%
Public Research	26.4%	26.4%	3.9%	3.9%
Public Bach and Mast	21.1%	21.1%	6.1%	6.1%
Private	13.8%	13.8%	4.9%	4.9%
Total	100.0%	100.0%	100.0%	100.0%

Costs

- Educational and related expenses (excludes organized research, auxiliaries, and public service)
- National average in 2009:
 - Public two-year: \$7,236
 - Public bachelors/masters: \$10,816
 - Public research: \$14,511