

A Report from the Field: Innovation in Postsecondary Mathematics Education

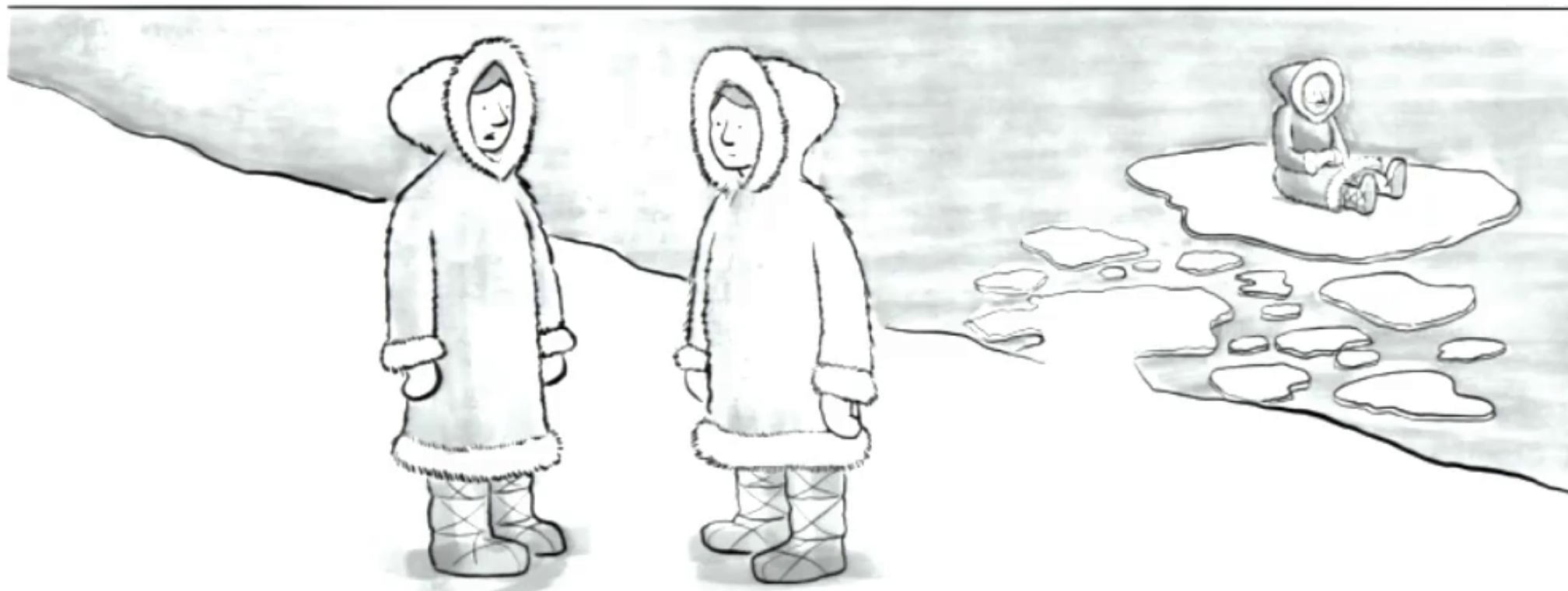
Uri Treisman

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Executive Director, The Charles A. Dana Center

SIAM Conference on Applied Mathematics Education

October 1, 2016

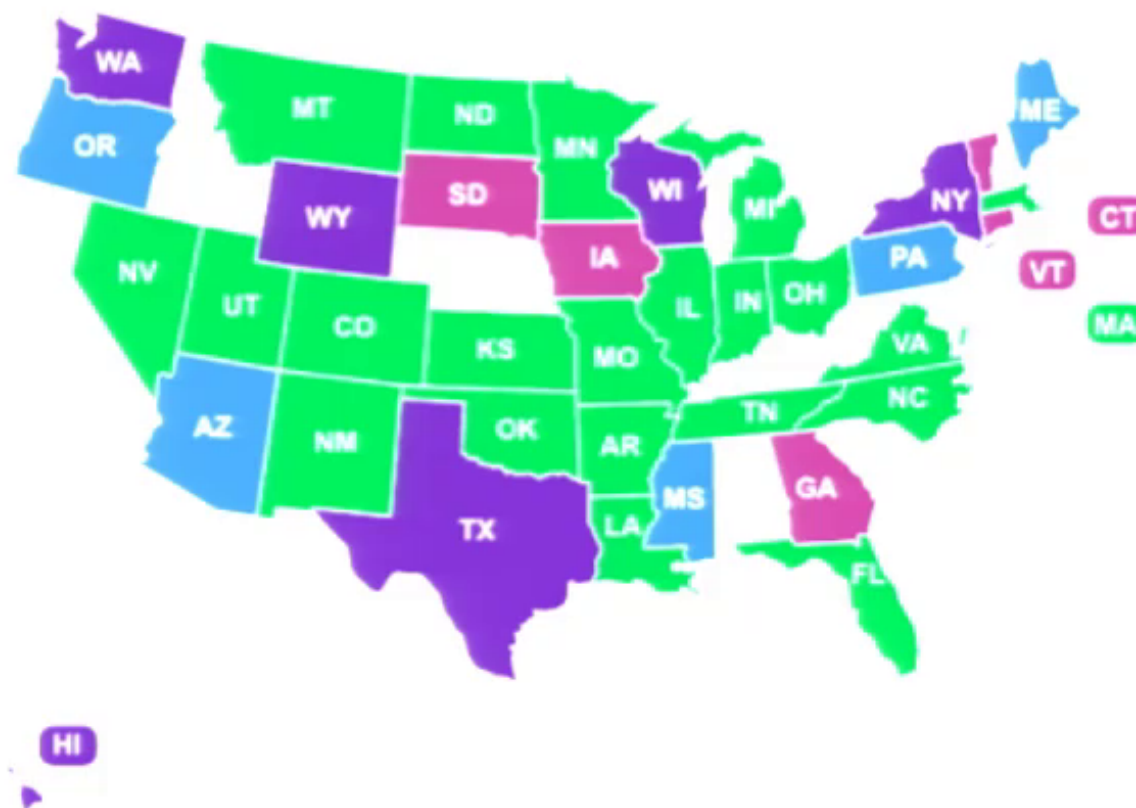




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“We may not have enough ice floes for the boomers.”

Performance Based Funding for Higher Education



Source: National Conference of State Legislatures (2016). Retrieved from <http://www.ncsl.org/research/education/performance-funding.aspx>

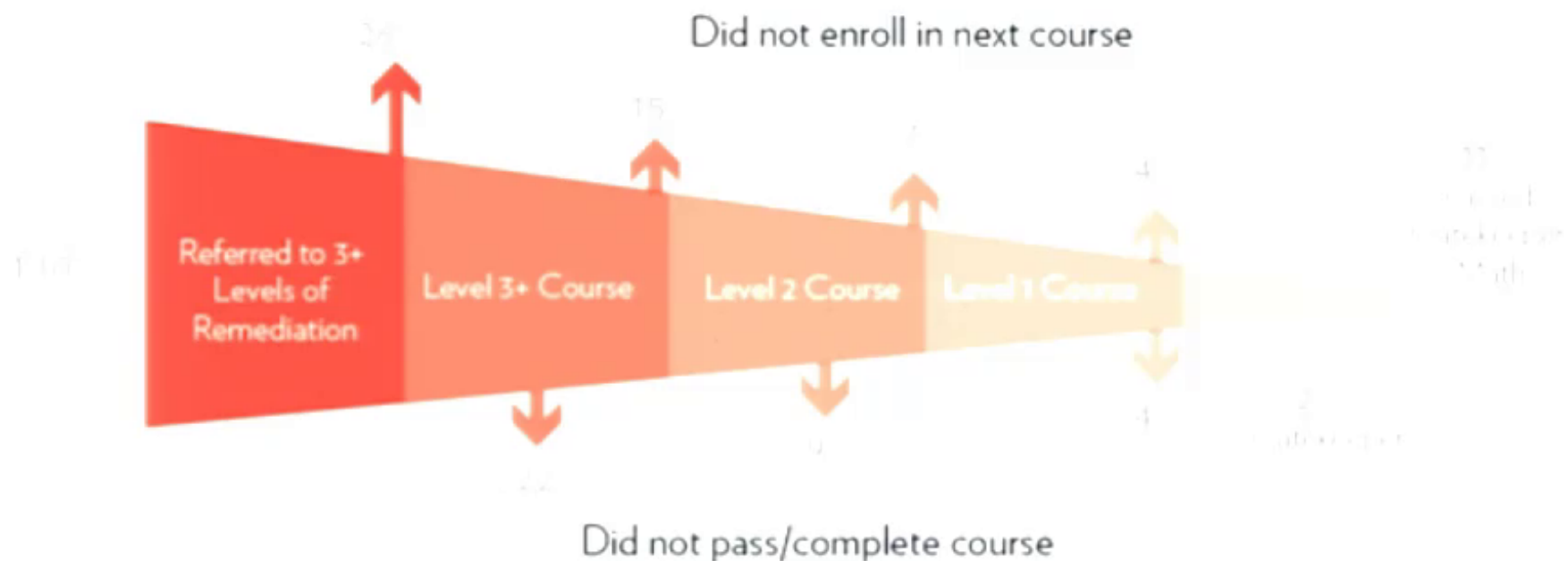
Higher Education Mathematics Course Enrollment

	4 Year Institutions				2 Year Institutions			
	1995	2000	2005	2010	1995	2000	2005	2010
College Algebra and below	57%	58%	56%	54%	81%	81%	81%	80%
Calculus	37%	35%	37%	38%	10%	8%	7%	7%
Advanced Courses	7%	6%	7%	8%				
Other Courses (2 Year)					12%	10%	12%	12%
TOTAL Enrollment (in thousands)	1469	1614	1607	1971	1348	1273	1580	1887

Source: Adapted from the CBMS 2010 Census Report, Table S.2

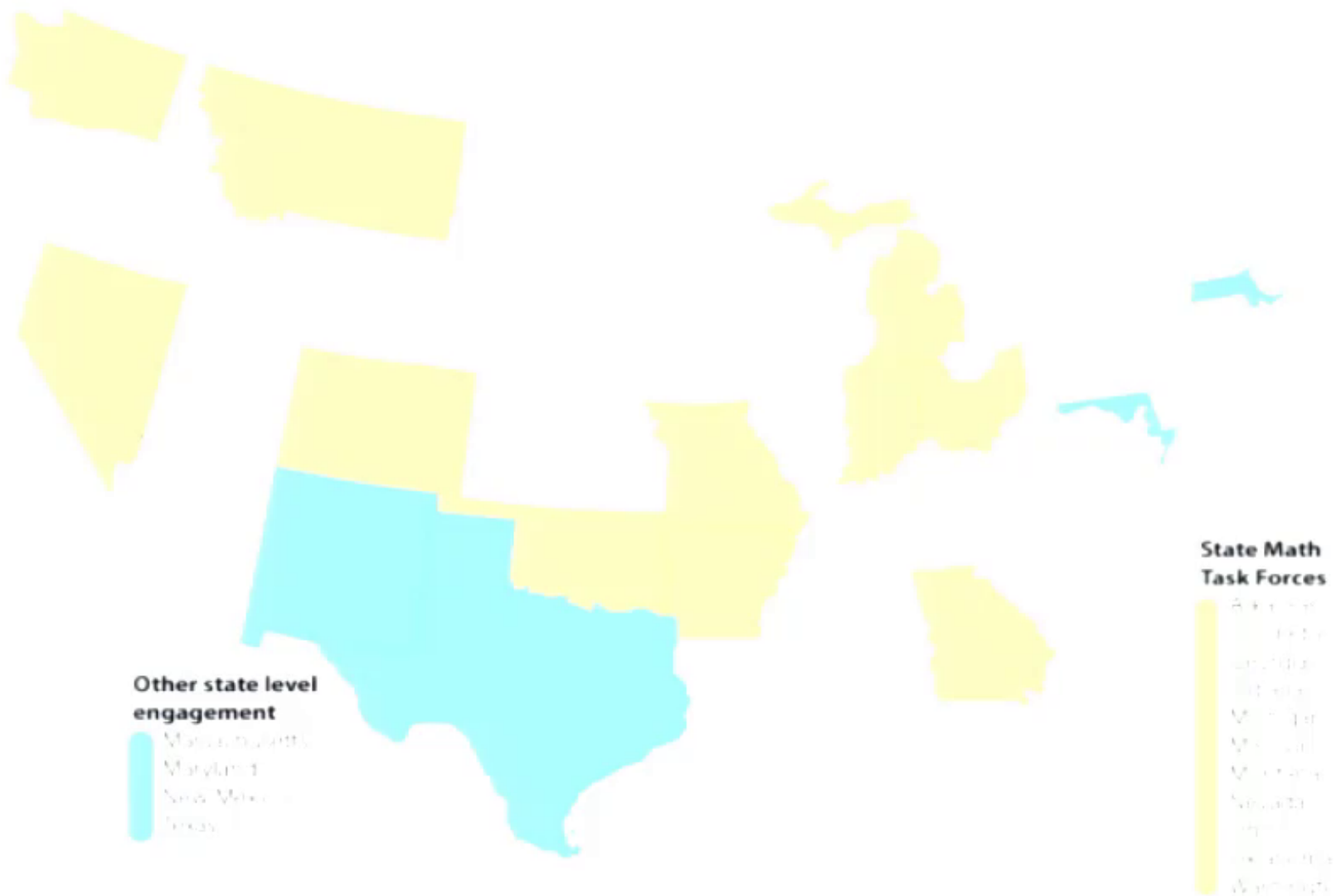
The Need For Reform

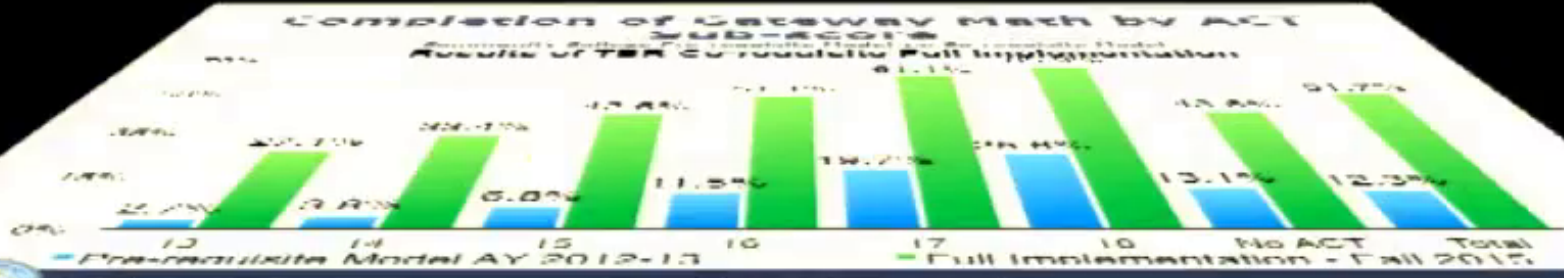
FIGURE 2. STUDENT PROGRESSION THROUGH THE DEVELOPMENTAL MATH SEQUENCES



Source: "What We Know about Developmental Education Outcomes," CCRC, Teachers College, Columbia University, January 2014, 5, <http://ccrc.tc.columbia.edu/media/k2/attachments/what-we-know-about-developmental-education-outcomes.pdf>

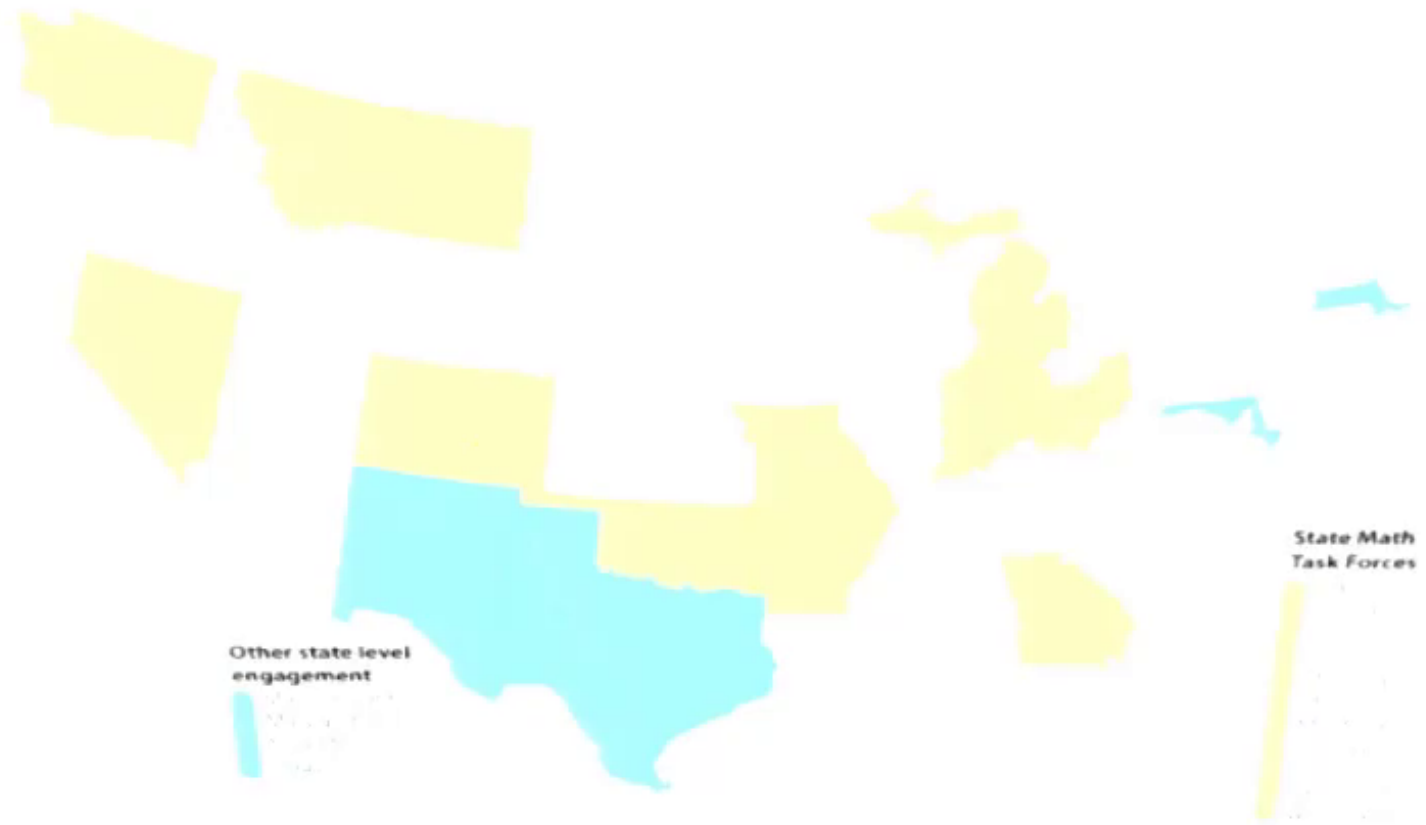
Dana Center State-level Postsecondary Math Initiatives





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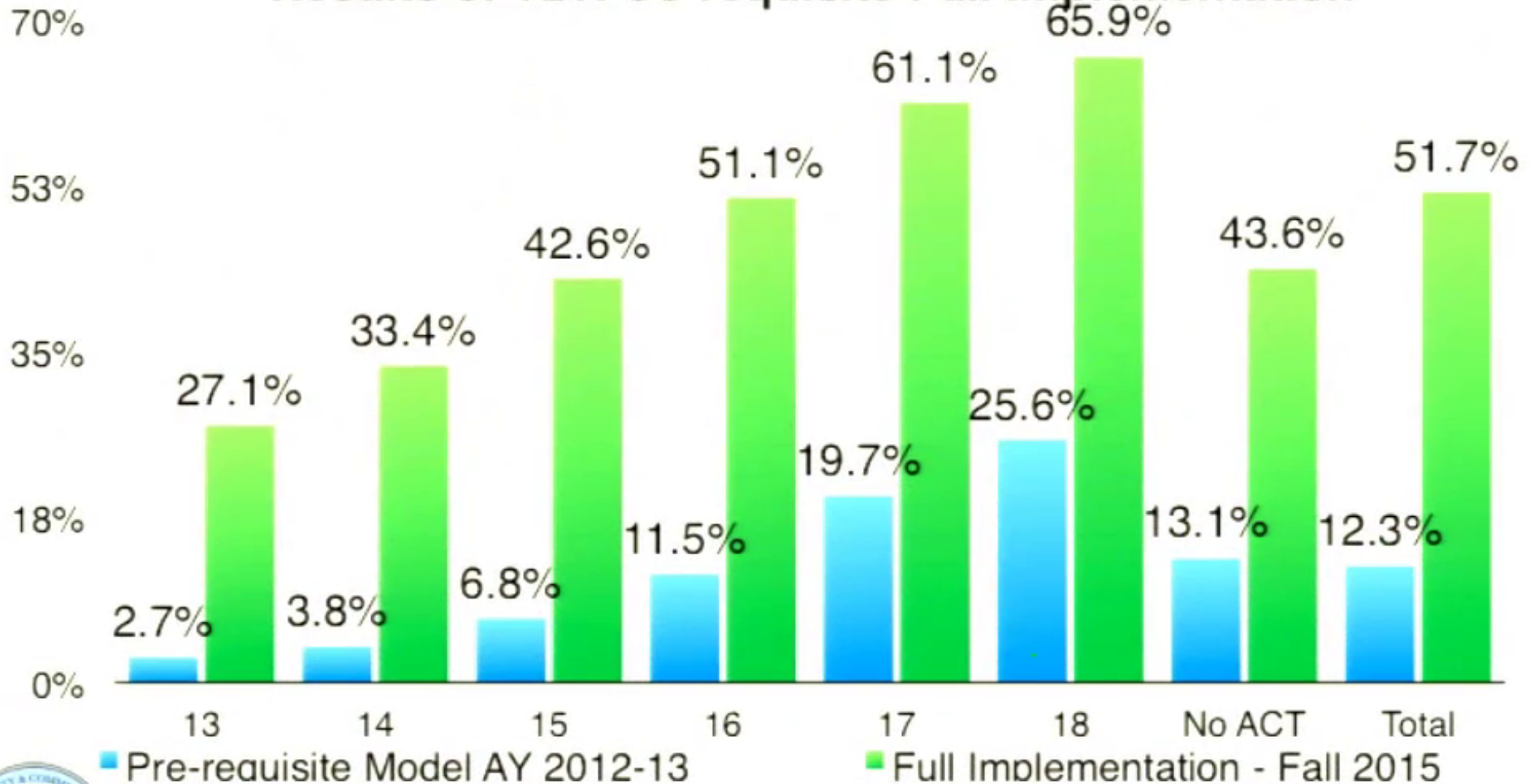
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Completion of Gateway Math by ACT Sub-score

Community College Pre-requisite Model vs. Co-requisite Model

Results of TBR Co-requisite Full Implementation



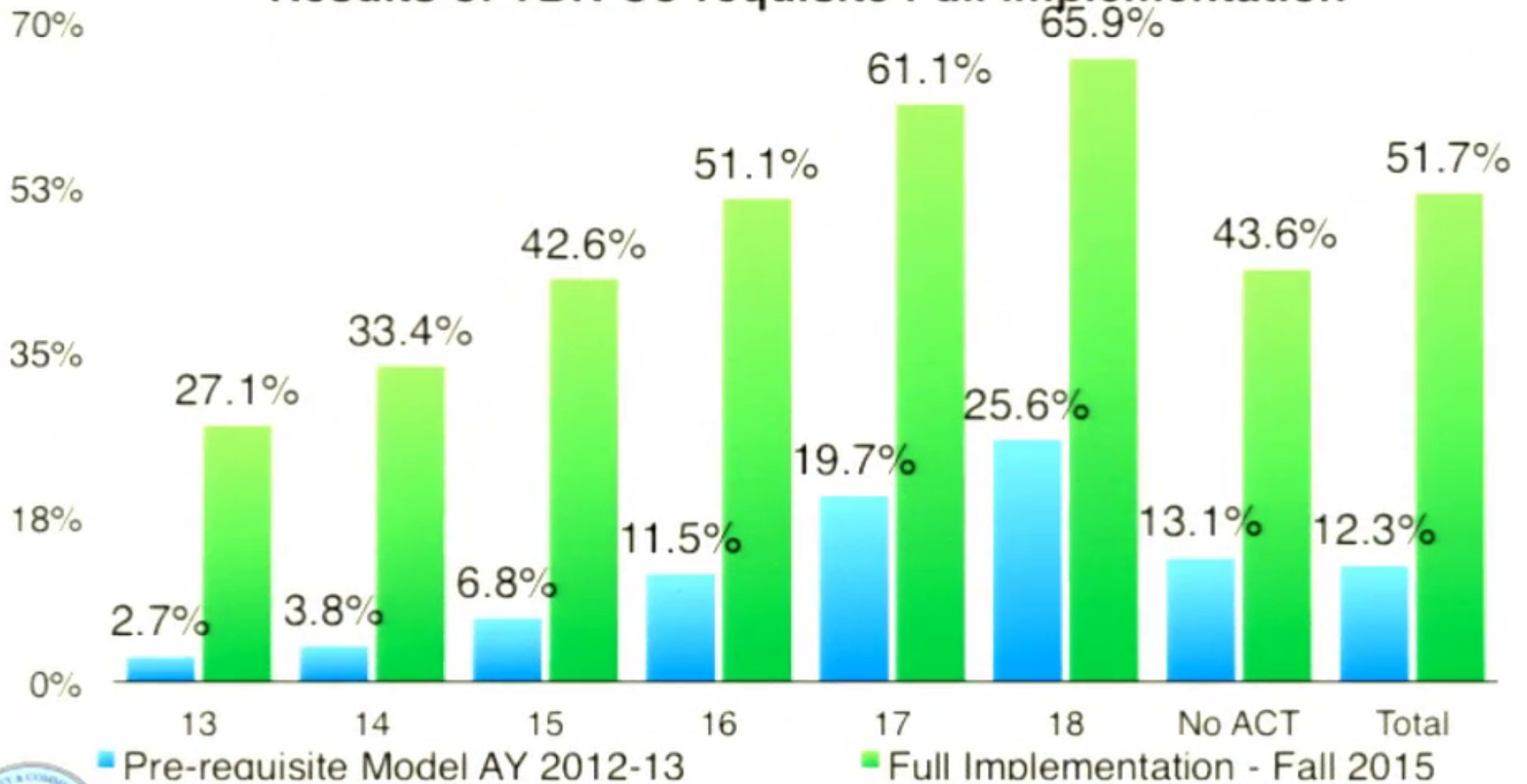
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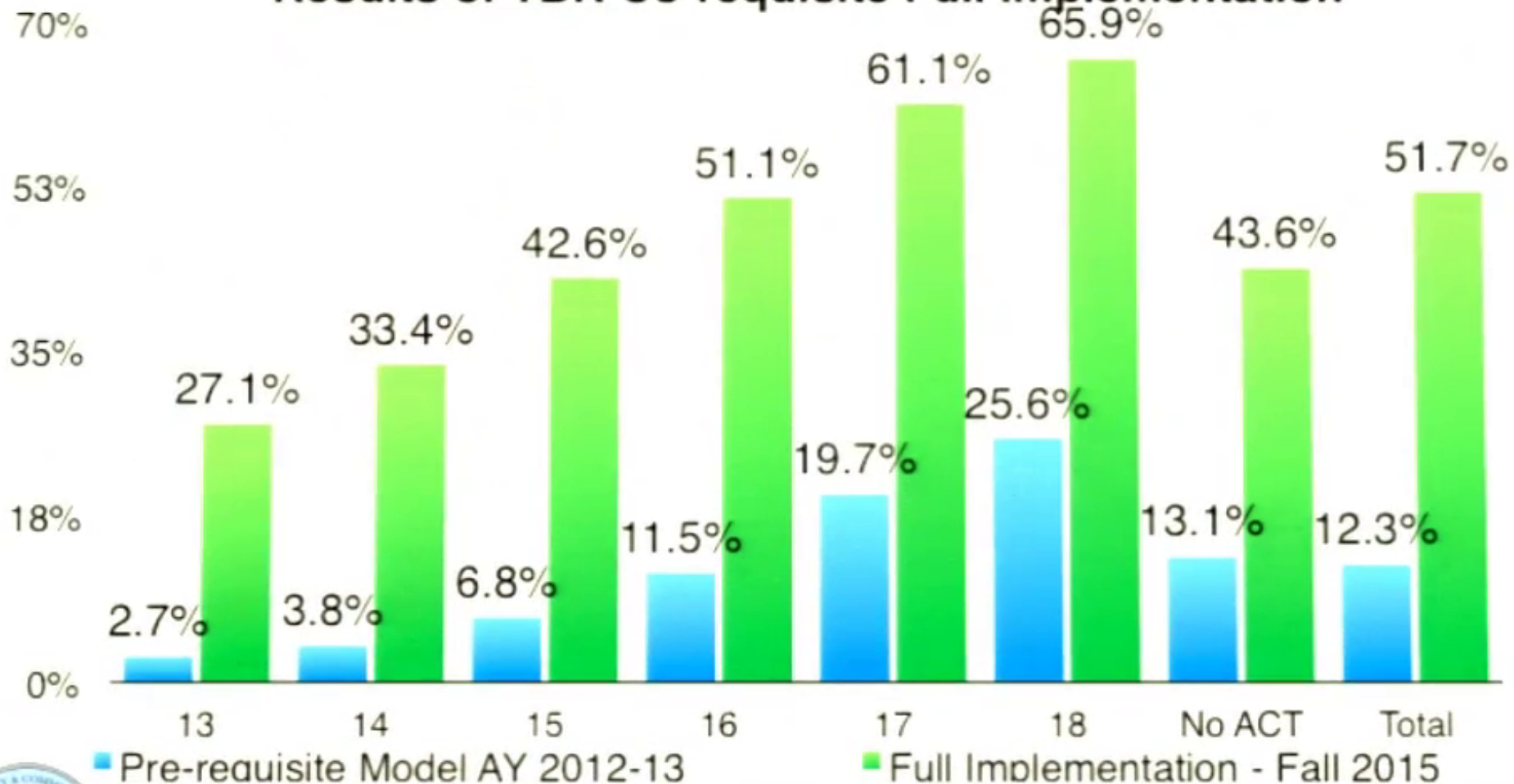


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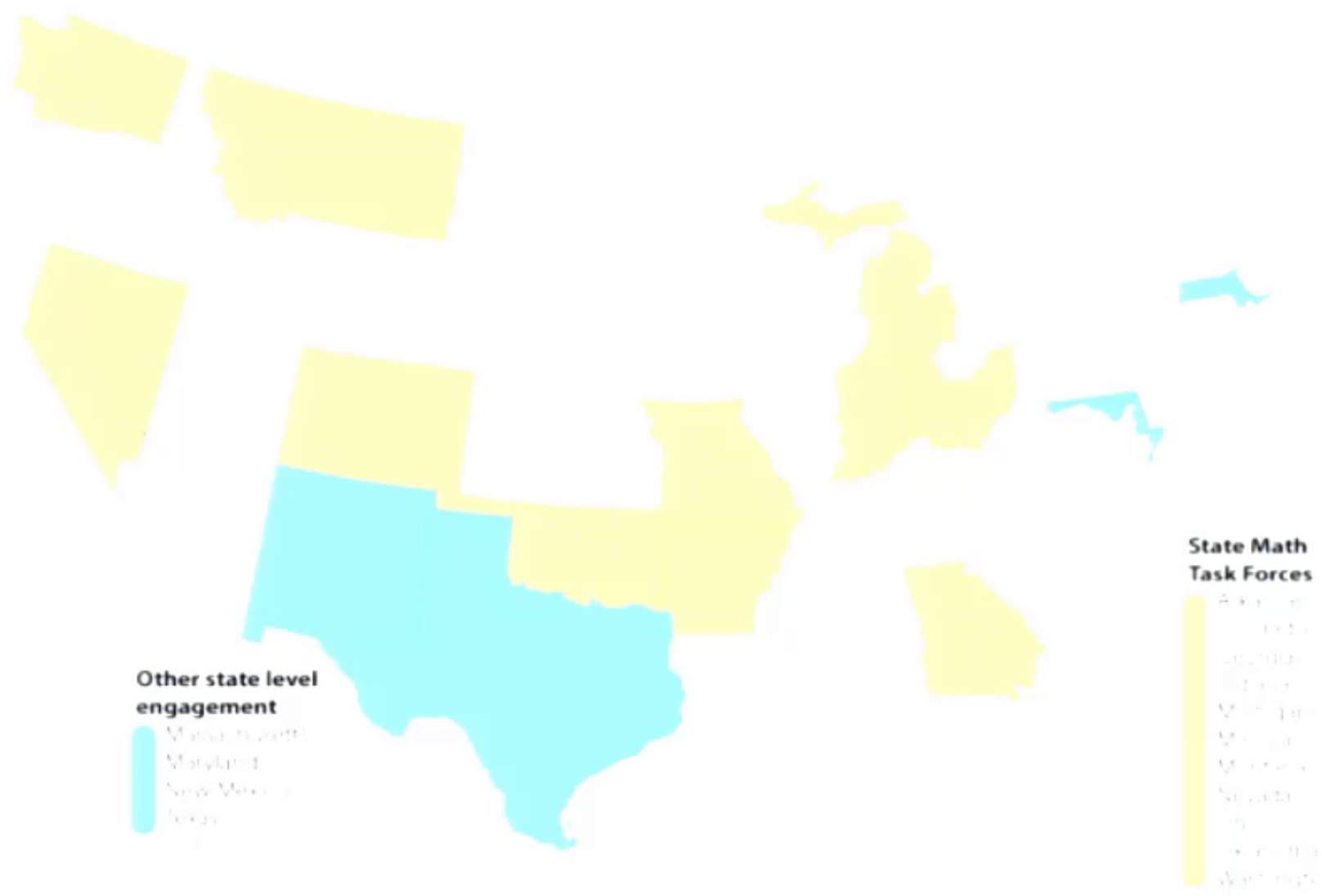
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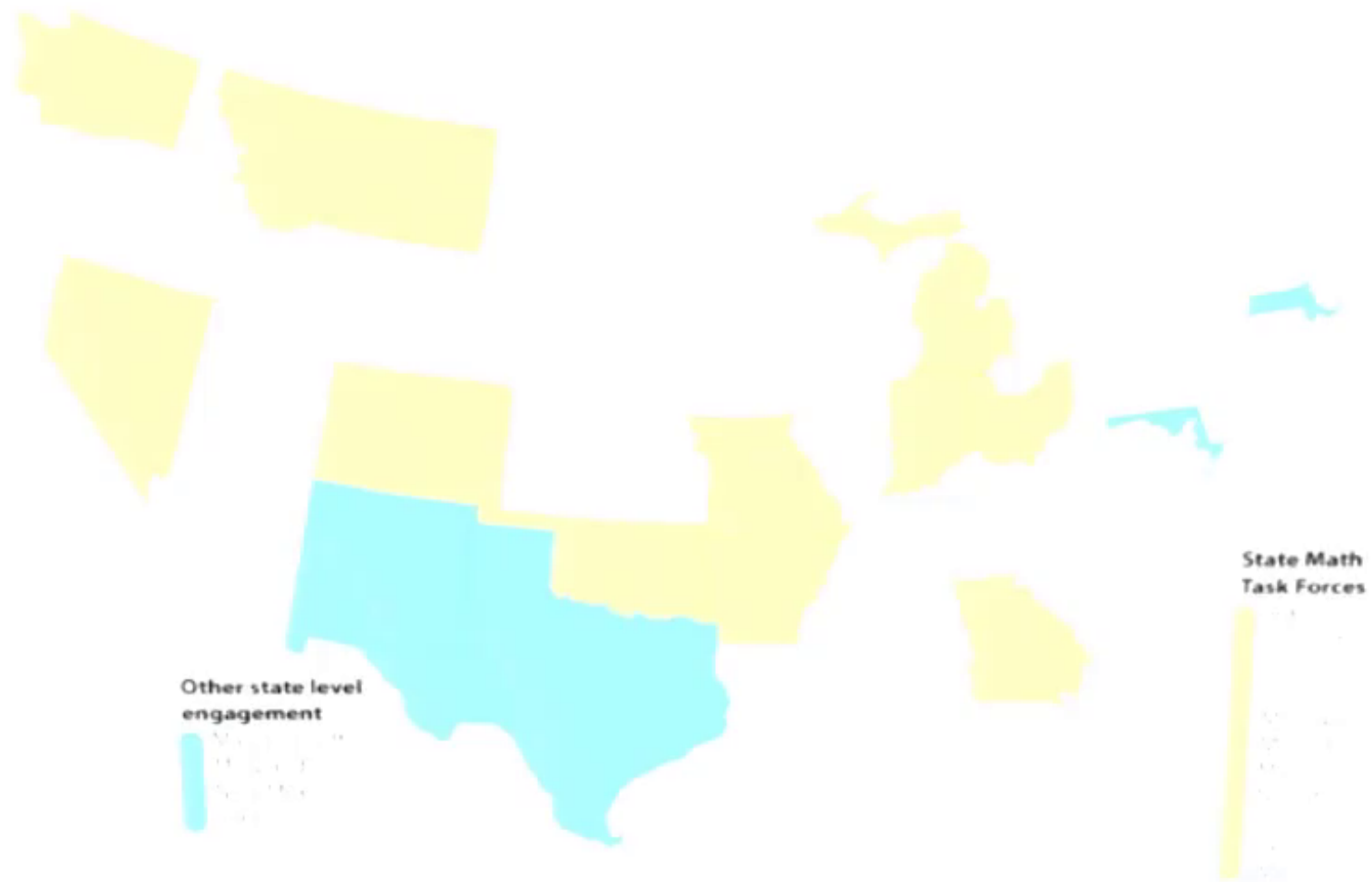


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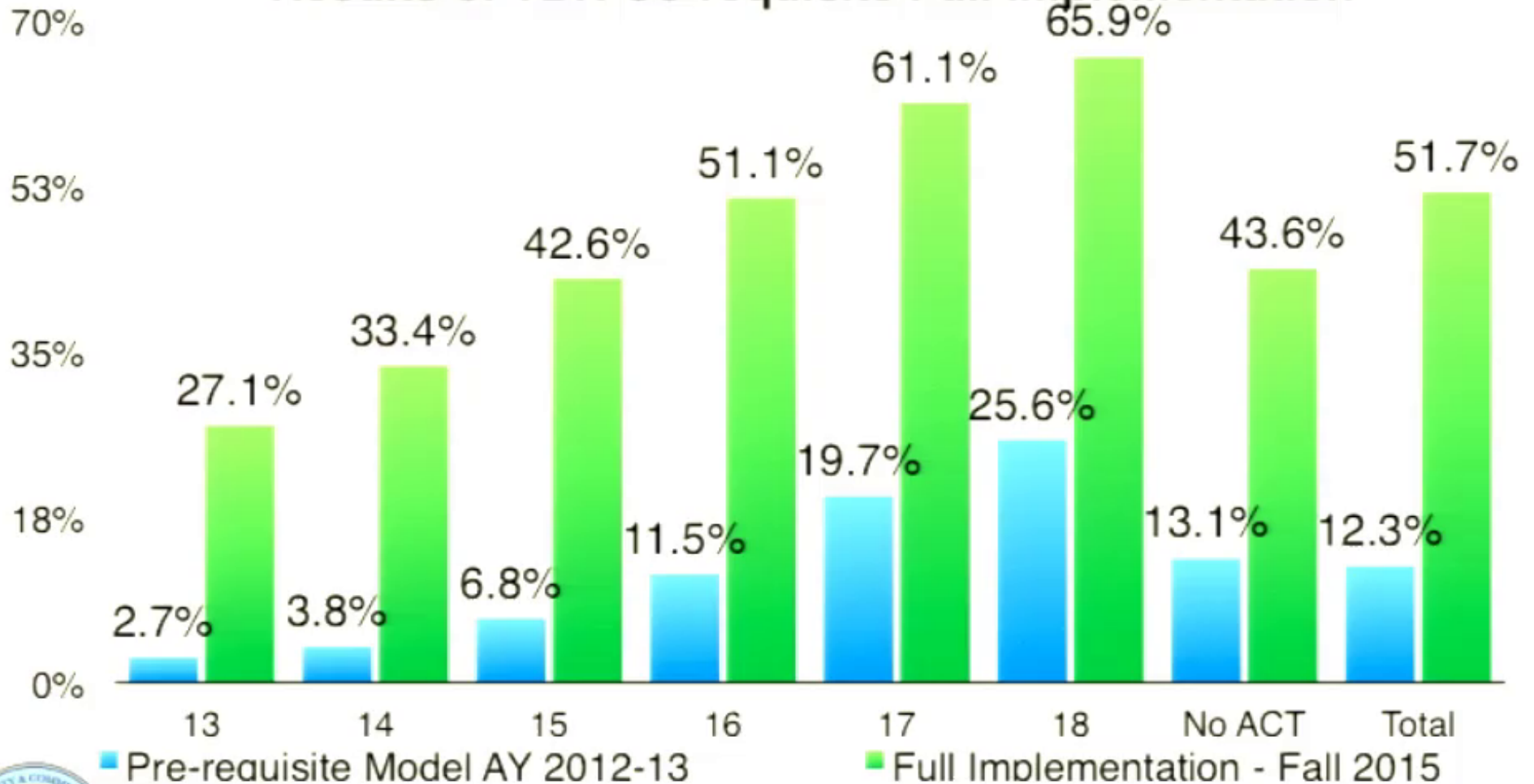
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■ Pre-requisite Model AY 2012-13

■ Full Implementation - Fall 2015

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