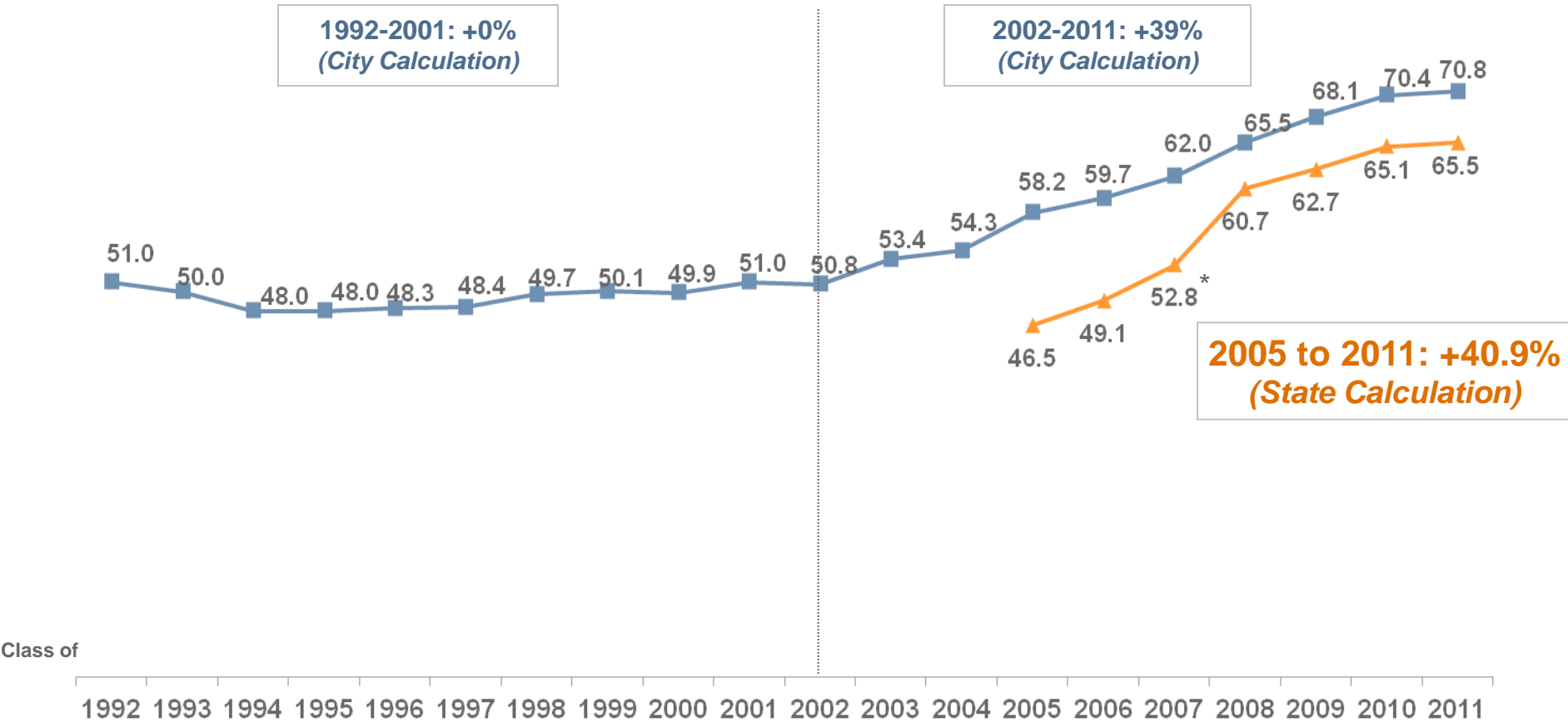


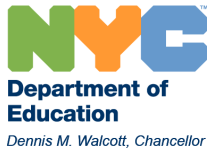
# ASEE ENGINEERING DEANS INSTITUTE

Josh Thomases  
Deputy Chief Academic Officer for Instruction  
NYC Department of Education

# AFTER REMAINING NEARLY FLAT FOR 10 YEARS, NYC'S GRADUATION RATE HAS INCREASED BY 41 PERCENT SINCE 2005



Class of



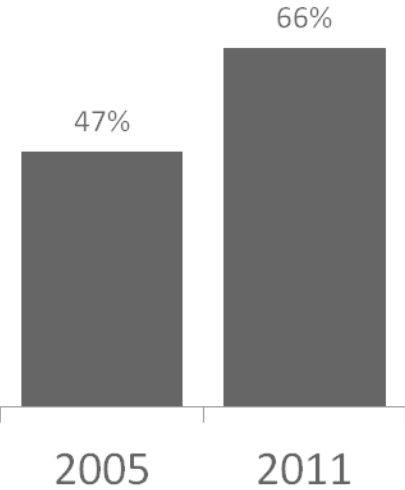
■ NYC Calculation Method    ▲ NY State Calculation Method

Notes: NYC traditional calculation includes Local and Regents Diplomas, GEDs, Special Education diplomas, and August graduates. It does not include disabled students in self-contained classrooms or District 75 students. The NYS calculation, used since 2005, includes Local and Regents Diplomas and all disabled students. It does not include GEDs and Special Education diplomas. \* Final year NYS did not include August graduates.

# MORE NEW YORK CITY STUDENTS ARE COLLEGE-READY THAN A DECADE AGO

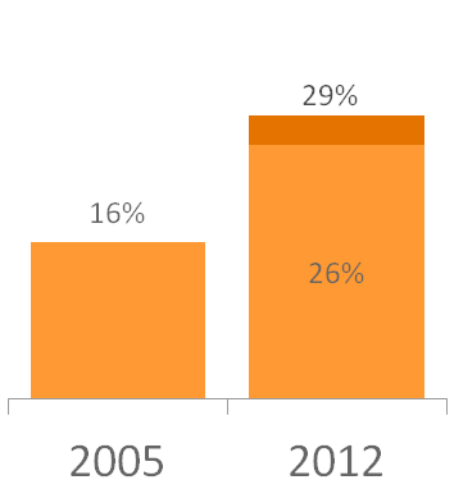
## Graduation Rates % of Cohort Graduating in 4 years\*

Increase 2005–11: +19 pts.



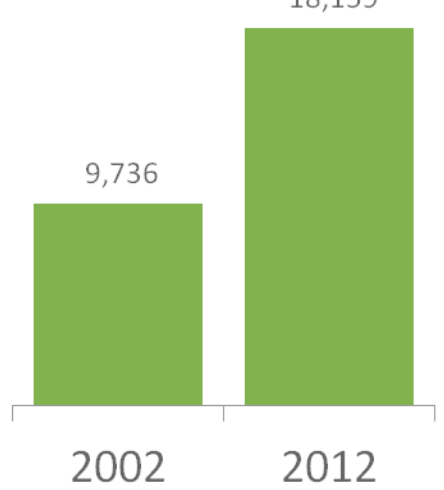
## College Readiness % of Students in Cohort Graduating College-Ready\*\*

Increase 2005–12: +10 pts.



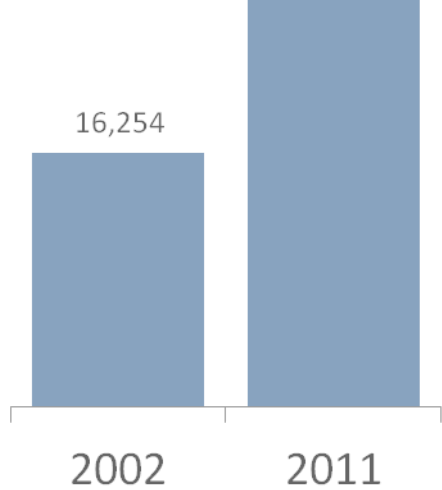
## AP Performance # of Students Passing at least 1 Exam\*\*\*

Increase 2002–12: +87%



## CUNY Enrollment # of DOE Graduates\*\*\*\* Enrolling at CUNY as First-time Freshmen

Increase 2002–11: +62%



\*August graduate data is only available for the classes of 2008–11.  
 \*\*According to the Progress Report College Readiness Index, which is defined as the percentage of students who met the 2012 CUNY standards for passing out of remedial coursework. According to the Progress Reports' 2012 definition, 29% of students are College Ready when you include results on the ACT and the CAT.  
 \*\*\*2002 data are from the College Board's 2004 College Bound Seniors Report. College Board updates its historic data annually to adjust for revised data on students. Data reported are the most recent comprehensive information available to the NYCDOE; 2012 data are from the College Board's 2012 College Bound Seniors Report.  
 \*\*\*\*Includes all students who, when they enroll in the fall, report to CUNY that they have graduated from a NYC high school at any point in time. Source: CUNY Office of Institutional Research and Assessment.

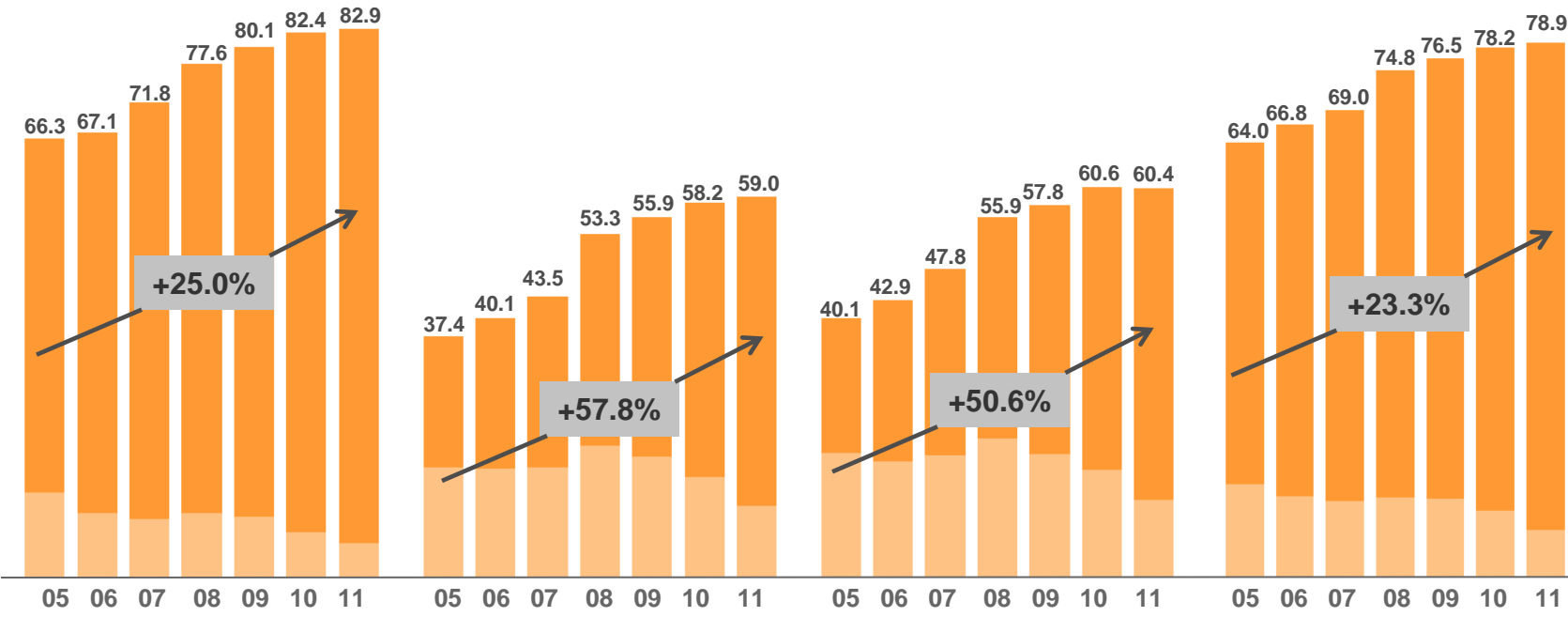
# FOUR-YEAR GRADUATION RATES INCREASED FROM 2005-2011 ACROSS ETHNICITY GROUPS

Asian Students	
2005	2011
6,501	9,925

Hispanic Students	
2005	2011
9,682	18,192

Black Students	
2005	2011
10,477	15,896

White Students	
2005	2011
7,750	7,818

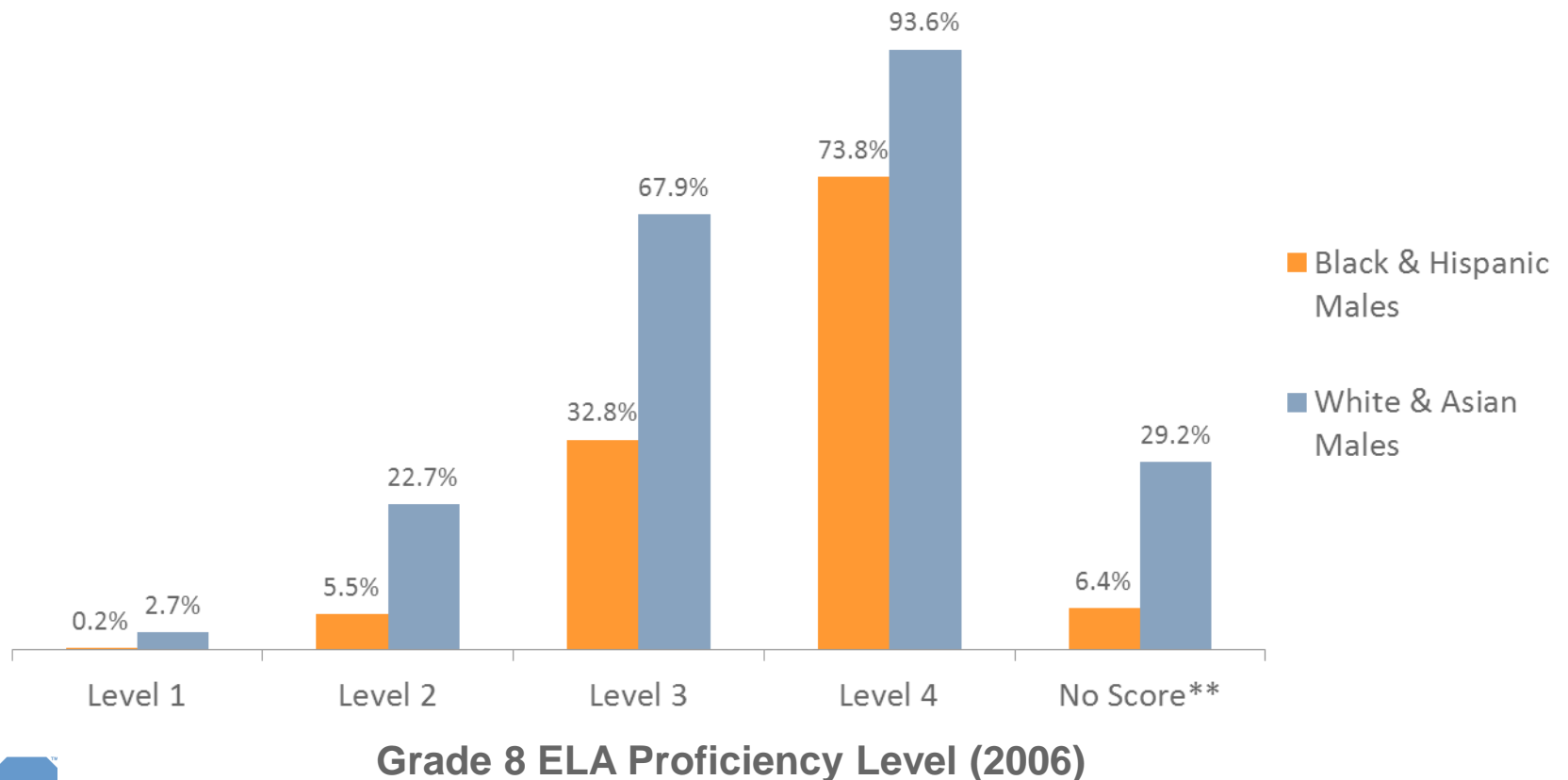


Note: Totals reflect data available at the time of reporting provided by NYS; August graduate data is only available for years 2008-2011. The overall rate may not equal the sum of each diploma type due to rounding.

# RACE IS A PREDICTOR OF COLLEGE AND CAREER READINESS

A college and career ready racial gap for males exists at all 8<sup>th</sup> grade ELA proficiency levels

Percent of *Males* achieving College Readiness in 2010 after 4 Years of High School\*



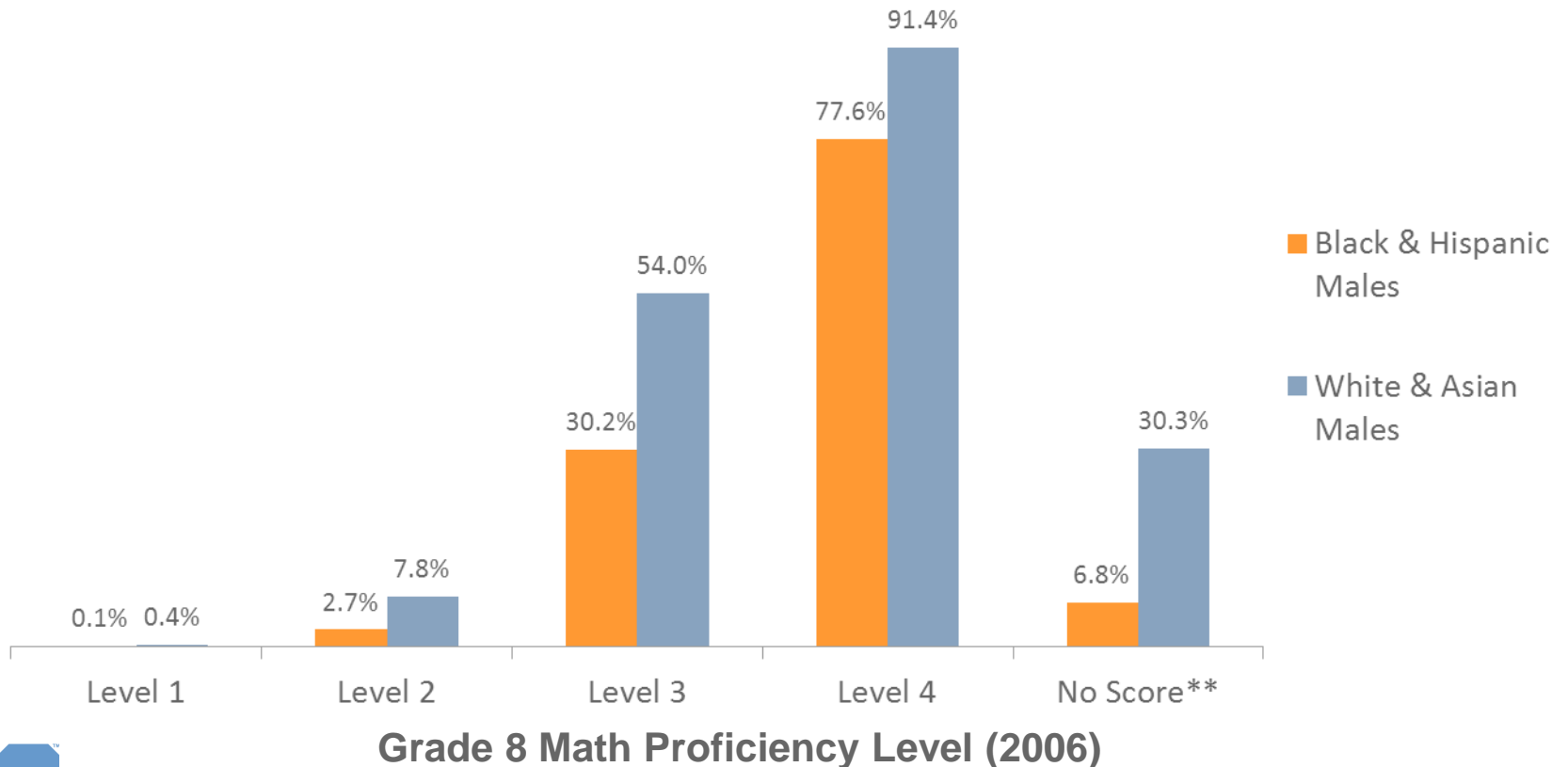
\*College Readiness as defined by APM "English/Math APM" (Aspirational Performance Measures) which includes students who scored 80 or higher on a Regents examination in mathematics and 75 or higher on the English Regents examination. Totals reflect data available at the time of reporting provided by NYSED; August graduate data available for 2010.

\*\*Students with no score are those who were not enrolled in the DOE in 8th grade.

# RACE IS A PREDICTOR OF COLLEGE AND CAREER READINESS

A college and career ready racial gap for males exists at all 8<sup>th</sup> grade Math proficiency levels

Percent of *Males* achieving College Readiness in 2010 after 4 Years of High School\*

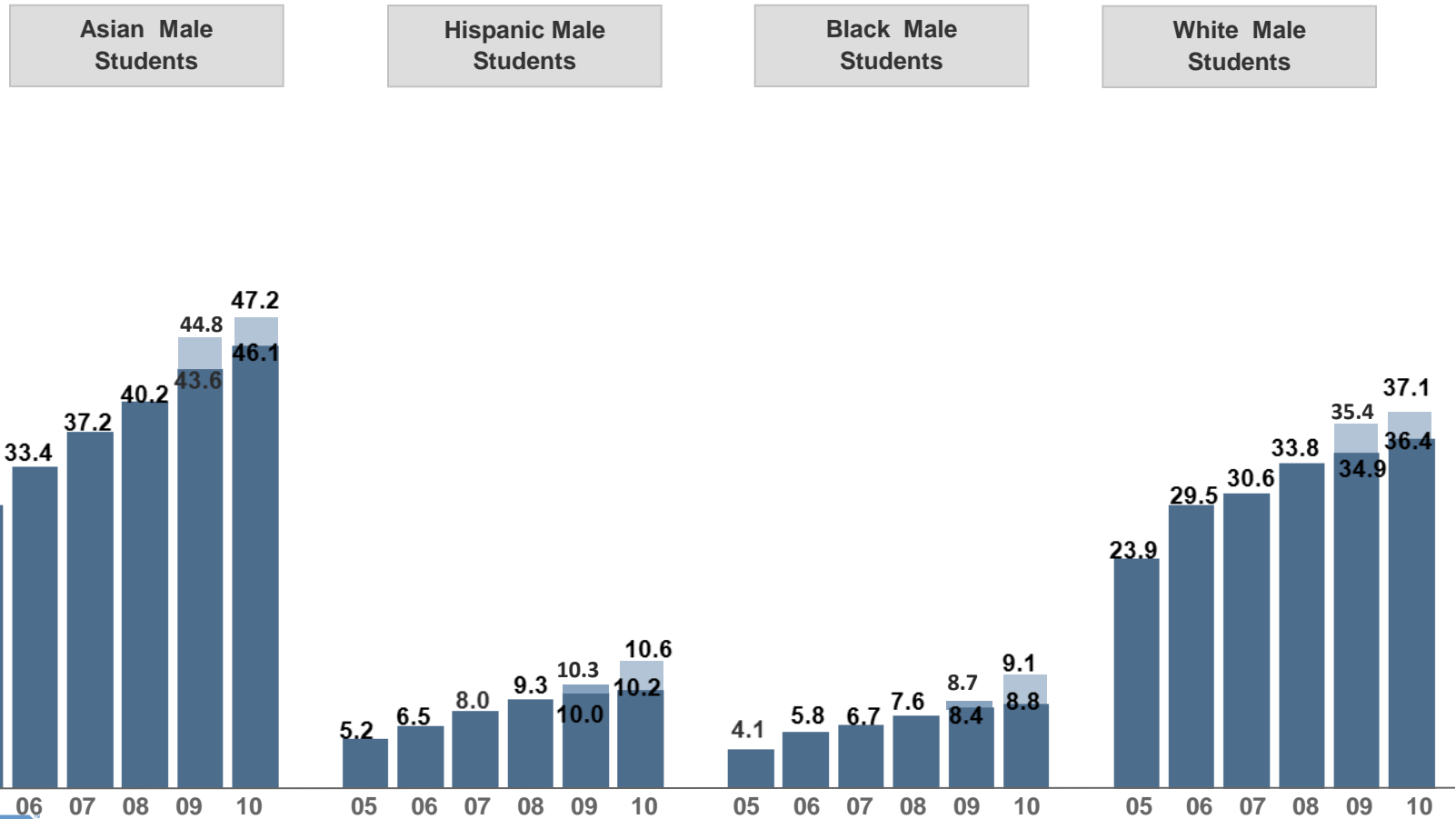


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\*\*Students with no score are those who were not enrolled in the DOE in 8th grade.

# NO MATTER THE INDICATOR, BLACK AND LATINO YOUNG MEN ARE NOT READY FOR COLLEGE

The number of male students achieving the English/Math Regents-based Aspirational Performance Measure



■ NYS Percent of 4-Year Cohort achieving English/Math APM (Note: 2009 & 2010 includes August grads)

Note: Totals reflect data available at the time of reporting provided by NYS; August graduate data is only available for years 2009-2010.

# NEW YORK CITY IS FOCUSED ON STRENGTHENING STUDENT WORK AND TEACHER PRACTICE

**2009-10**

- New York State adopts Common Core standards
- New York State passes Education Law 3012-c

**2010-11**

- New York City launches Common Core pilots in 100 schools
- Teacher Effectiveness Pilot begins with 20 schools and over 700 teachers

**2011-12**

- All schools implement citywide instructional expectations

**2012-13**

- New York State assesses Common Core in grades 3-8
- DOE recommends Common Core-aligned curriculum materials
- All schools implement citywide instructional expectations

**2013-14**

- New York State assesses Common Core in Algebra I, Geometry, ELA Regents
- All schools implement citywide instructional expectations
- Implementation of Education Law 3012-c citywide, pending agreement

**2014-15**

- New York City students take State PARCC\* assessments



# CTE IS A KEY LEVER FOR COLLEGE AND CAREER READINESS IN NEW YORK CITY

## 1905-1960: 18 CTE high schools opened

- Large schools with multiple career tracks
- National standouts and industry pipelines: Aviation, Fashion Industries

## 1960-2003: no new CTE high schools opened

- Rise of “college for all” approach to education served to stigmatize “voc ed” as dumping ground for less able students

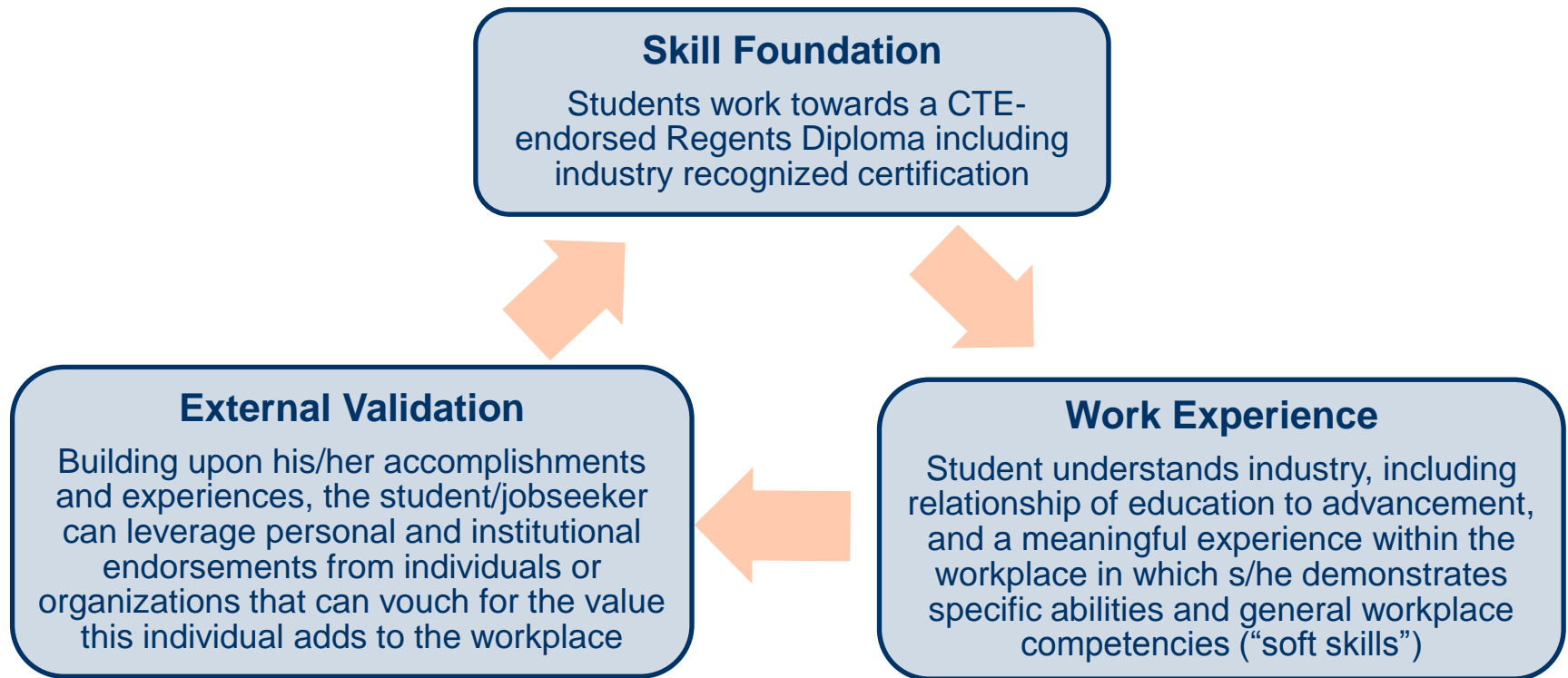
## 2004-today: 28 new CTE schools have opened

- Smaller and more focused; easier to align with industry
- Return to notion of high school as career exploration opportunity; aligned to workplace competencies that employers value
- Key input to industry pipelines and local economic development
- Focus on college **and** career

There are 38 designated Career and Technical Education high schools in New York City, serving approximately 26,000 students annually.

# CTE POSITIONS STUDENTS FOR POSTSECONDARY SUCCESS

Three components of CTE practice in NYC align to federal and local policy guidance, as articulated in the USDOE April 2012 CTE Blueprint for Reauthorization of the Carl D. Perkins Act (VTEA) and 2008 NYC Mayoral Task Force on CTE Innovation Report



# NEW YORK CITY HAS OPENED 11 ENGINEERING-FOCUSED CTE PROGRAMS

Computer Integrated Manufacturing  
*Brooklyn Technical HS*

Civil Engineering, Architecture, and General Technology  
*Brooklyn Technical HS*

Civil Engineering  
*City Polytechnic HS*

Academy of Engineering  
*HS for Construction Trades, Engineering & Architecture*

Technology Education-Pre-Engineering  
*Midwood HS*

Engineering Pathways in Technology  
*Early College HS (P-Tech)*

Pre-Engineering Electronic Technology  
*Queens Vocational & Technical HS*

Engineering  
*Staten Island Technical HS*

Technical Electronics Engineering Robotics  
*Thomas A. Edison Career & Technical Education HS*

Drafting/Design Engineering Technologies/Technicians  
*Thomas A. Edison Career & Technical Education HS*

Electronics Pre-engineering  
*Transit Tech Career & Technical Education HS*

# QUESTIONS