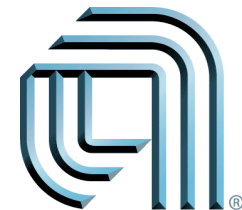


# Applied Materials Education Initiative

Progress Update September 2007

Accomplishments to Date



think it. apply it.™



## Why did Applied Materials develop an Education Initiative?

In 2001, Applied Materials commissioned a study focusing on student achievement in southern San Francisco Bay Area schools, near its global headquarters. The results identified high-need, low socio-economic communities with a high percentage of school-age children and low student achievement. Shifting strategies to address the study's findings, in 2002 Applied Materials launched an initiative to serve the needs of disadvantaged children in two specific, targeted communities - the downtown and parts of the east side in San Jose.





## What is the extent of the problem to be solved?

- Latino students are the largest ethnic group in Santa Clara County public schools, 36.1% of all K-12 students in 2006-2007 (Source: California Department of Education Dataquest)
- In the two largest districts served by the Applied Materials Education Initiative, the trend shows a steady increase in Latino enrollment: from 45.7% in 1993 to 51.3% in 2007 for San Jose Unified School District and 37% in 1993 to 46.0% in 2007 for East Side Union High School District (Source: California Department of Education Dataquest)
- Students in the two communities served by the Education Initiative have the lowest scores on standardized tests, as reported by API (Academic Performance Index) and AYP (Adequate Yearly Progress)
- In 2006, only 22.8% of Latino 12th graders graduated with the requirements for a state four-year college in Santa Clara County (Source: California Department of Education Dataquest)





## What is the Education Initiative strategy?

The Applied Materials Education Initiative engages deeply in two high-need geographic areas over a sustained period of time to support the entire educational pathway - from preschool to college enrollment.

The company's strategy is to identify barriers to educational success and then support programs to overcome them. Applied Materials is engaging partners and making investments to intervene at critical leverage points along the education pathway.



# What are the critical investment leverage points along the education pathway?



Grade Level Age	Early Education Age 0-3	Preschool Grade K Age 4-5	Primary Grades 1-3 Age 6-8`	Upper Elementary Grades 4-6	Middle School Grades 6-8	High School Grades 6-8	Post Secondary
<b>CRITICAL LEVERAGE POINTS</b>	Support and resources for care givers	Entering K ready to learn	Reading on grade level by the end of third grade	Achieving proficiency in English Language Development	Staying on academic track	Multiple settings for success	Access to higher education
<b>SUCCESS INDICATORS</b>	Early learning enrichment	Access to quality preschool experiences	Best early literacy practices in place	Providing additional support in language skills acquisition	Student engagement In the learning process	Alternatives to meet different learning needs/styles	Affordable options
<b>BARRIERS TO SUCCESS</b>	Care givers not aware or equipped to provide early learning	Unaffordable or not appropriate learning experiences	Lack of expert trained teachers of reading	Limited opportunities to develop language skills	Social pressures away from academic achievement	Student alienation from school	Lack of role models and finances
<b>METRICS</b>	# Books and learning materials in homes/day care sites	% Entering K with formal preschool experience	% Reading on grade level by the end of third grade	% Proficient in English	% Ready for high school algebra	% Graduates with UC/CSU requirements	# Enrolled % Degree achieved





## Early education investments:

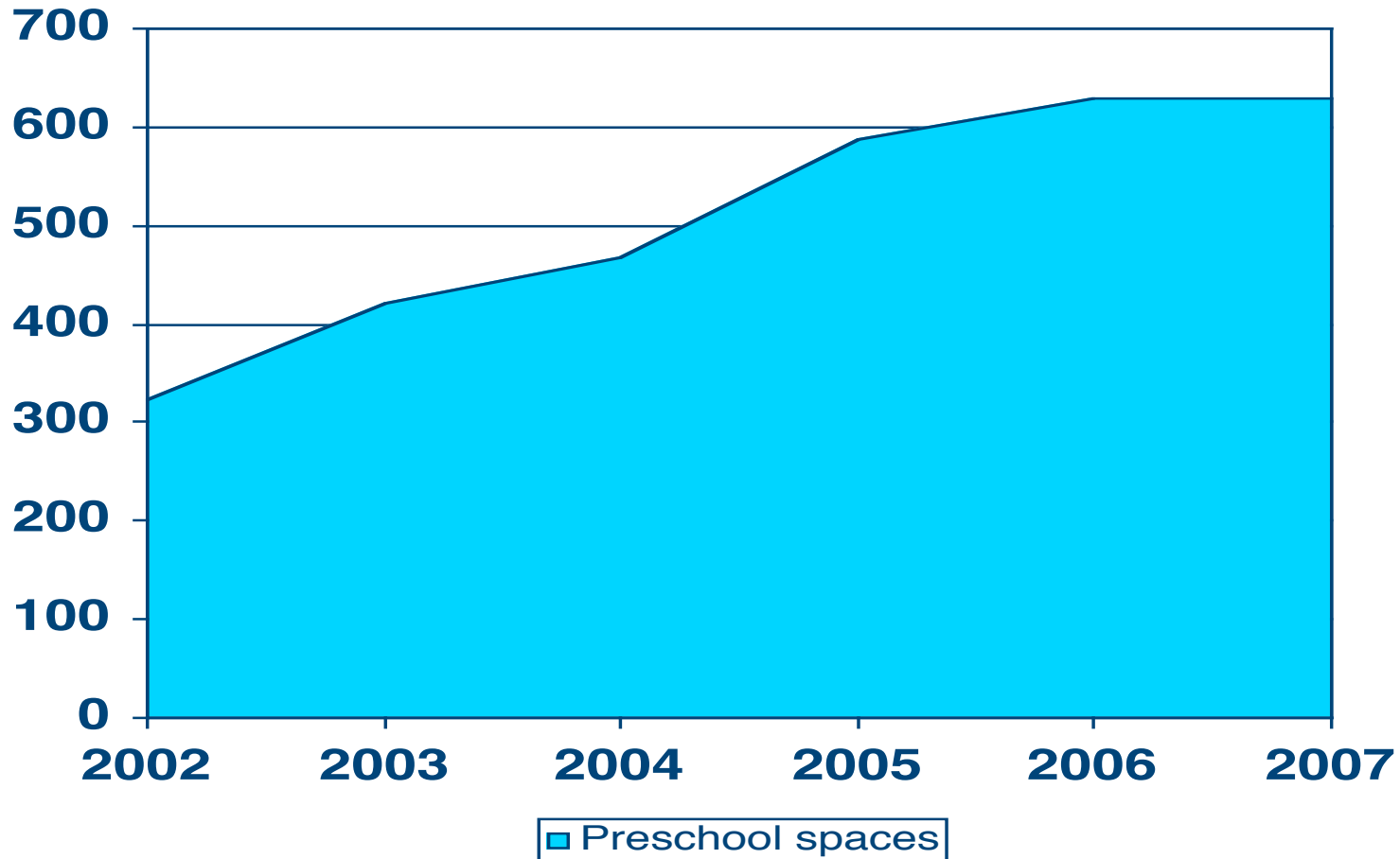
- Placed over 60 bookcase collections of high quality books in preschools and early education classrooms through partnership with **Bring Me a Book Foundation**, which also includes training for parents and teachers to increase literacy
- Initiated a new Reading is Fundamental **Family of Readers** program in downtown San Jose, providing 6,078 books for ownership and 2,727 books for school lending libraries along with early literacy parent education (Grant leveraged \$10 federal dollars for each \$1 invested)
- Participated in the Santa Clara County **Partnership for School Readiness** Study Circles to examine best practices in development language and self-regulation skills in young children, as a follow up to county-wide assessment of school readiness
- Invested in new and upgraded early education facilities in order to increase access to high quality school readiness opportunities in collaboration with San Jose Unified School District





## Early Education Results:

The number of children accommodated in new or upgraded preschool spaces in downtown San Jose has increased by 94%.



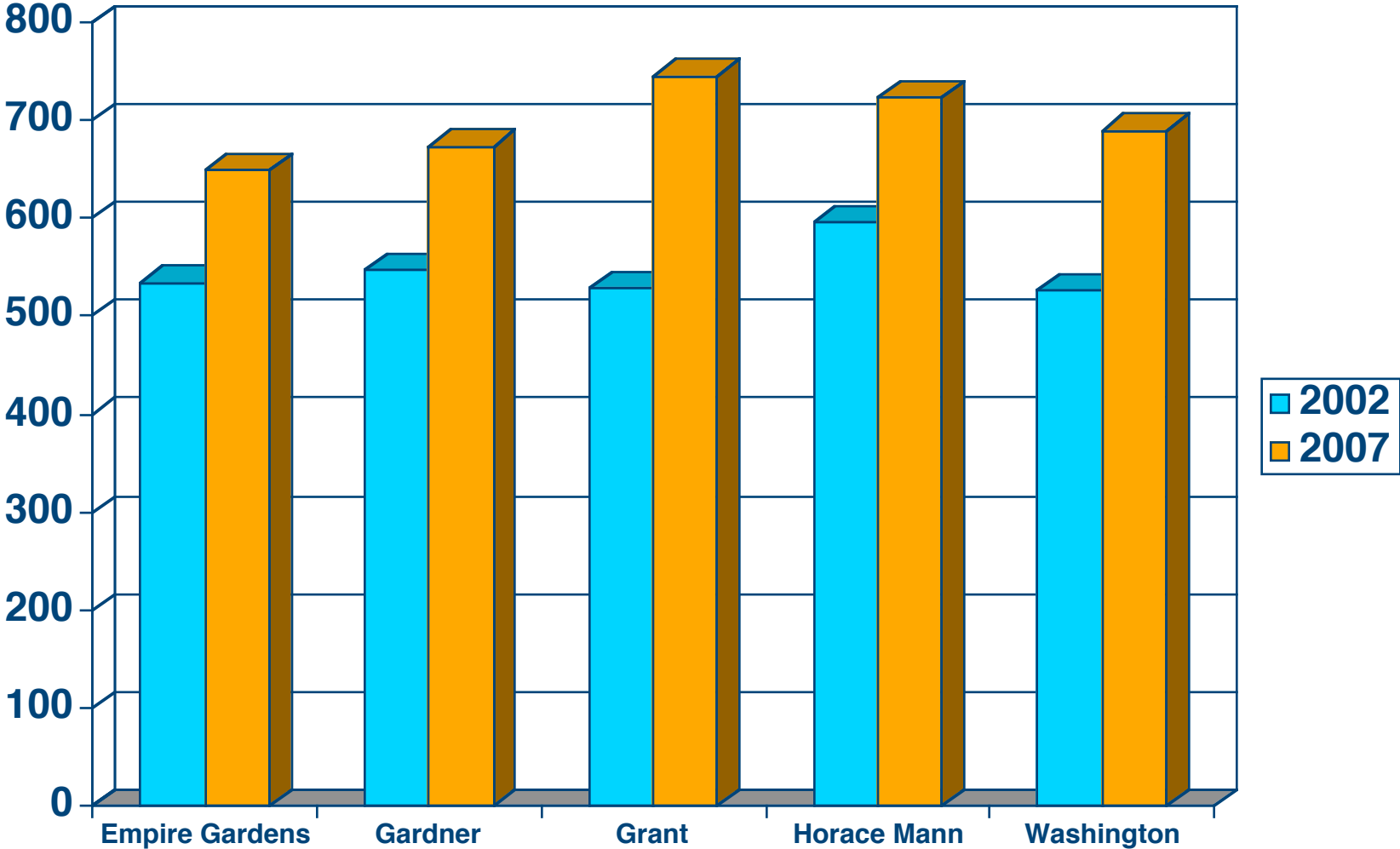


## Downtown elementary school investments:

- Supported Partners in School Innovation to collaborate with downtown schools - **Empire Gardens, Gardner, Grant, and Washington** - to accelerate learning and improve student achievement
- Supported ongoing teacher training and leadership development at **Horace Mann** School to set and achieve ambitious student achievement goals
- Supported the **Professional Development School** at Gardner Academy to support the improvement of teaching and learning in the downtown area
- Supported a dedicated English language development coach at **Grant** School to accelerate language acquisition and increase learning



# Downtown Elementary School Results: Academic Performance Index Comparison



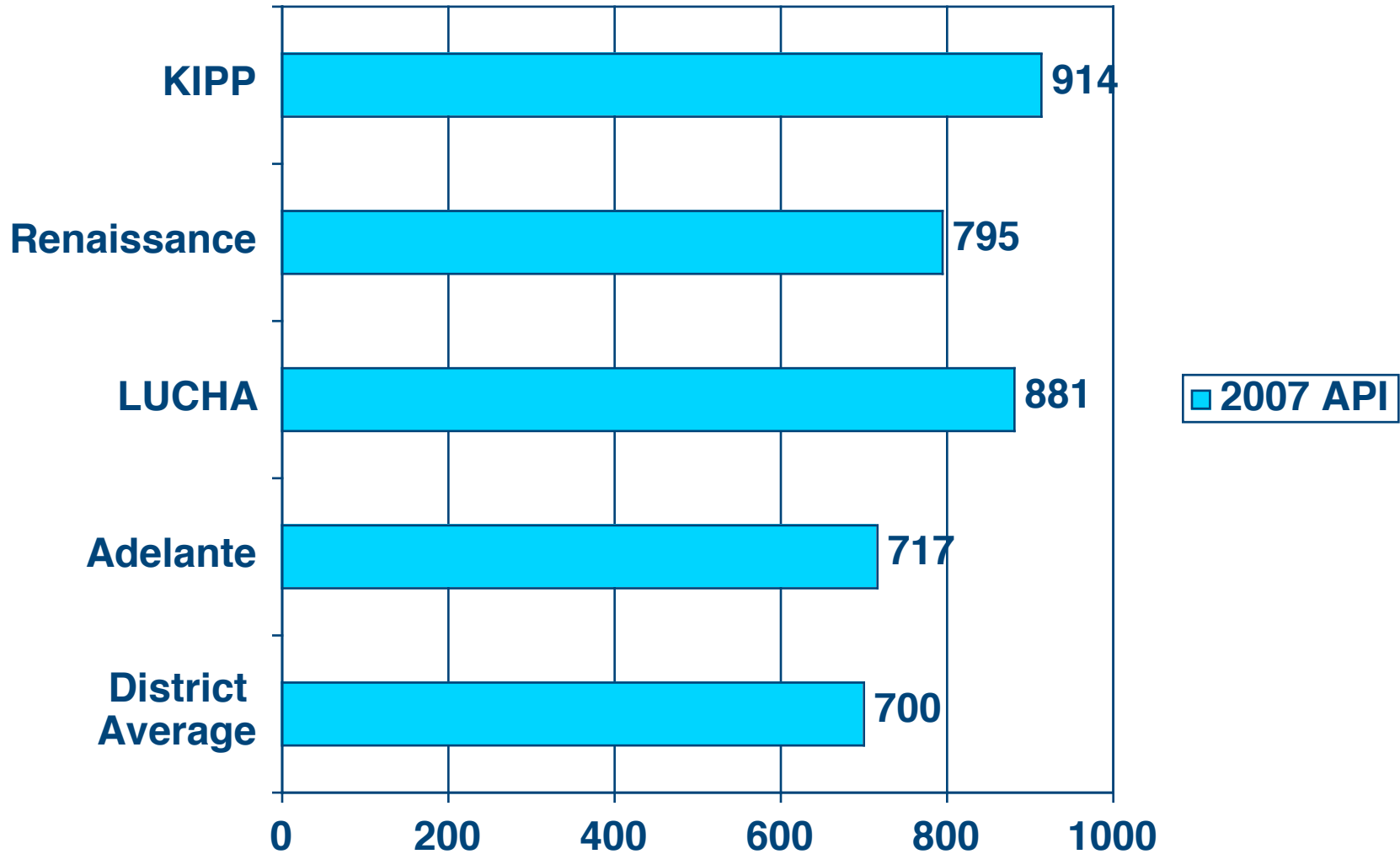


## East side schools investments:

- Supported ACE small schools in the Alum Rock Union School District - **LUCHA**, **Adelante**, and **Renaissance**
- Provided support to **KIPP Heartwood** Academy to improve the teaching of reading
- Supported **Teach for America** in Alum Rock



# East Side Schools Results:





## Middle school investments:

- In 2002, Applied Materials initiated the nationally acclaimed **Breakthrough** program in downtown San Jose
- The program has grown from serving 24 students in 2002 to 100 middle school students from two middle schools and 71 high school students in 2007
- Breakthrough provides a tuition-free, six-week, intensive summer program for talented, low income middle school students with the ultimate goal of college completion
- *Students teaching students* is the hallmark of Breakthrough as each summer talented college students from some of the best universities teach the young students with the expert guidance of professional mentor teachers



# Breakthrough results:



<b>Preparation for high school</b>	60% of Breakthrough San Jose students take Algebra or a higher level math class by the 8th grade compared to the national average of 27%
<b>Preparation for college</b>	83% of Breakthrough San Jose students enroll in and complete college readiness courses at their high schools
<b>College attendance</b>	Nationwide 87% of Breakthrough students attend college
<b>Teacher workforce development</b>	Nationwide 72% of Breakthrough young teachers enter the field of education and 57% are students of color, providing role models of academic success





## High school investments:

- To counteract the unacceptable 50% of Latino students who drop out of high school in the US or graduate without the requirements for a four-year college, the Applied Materials Education Initiative supported small schools that provide students with additional options and opportunities for success
- Supported **Downtown College Prep** in the downtown area
- Supported **MACSA Academia Calmecac**, **Latino College Preparatory Academy**, **Leadership San Jose**, and the **Electronics Academy at Overfelt High School** on the east side





## High school results:

<b>Latino high school graduates completing courses required for a four-year college</b>	<b>2006 Results % of graduates with UC/CSU required courses</b>
Downtown College Prep	73.5%
San Jose Unified School District	48.8%
Academia Calmecac	100%
Latino College Preparatory Academy	18% 98.9% of students graduated and enrolled in non UC/CSU colleges
East Side Union High School District	14.4%
Santa Clara County	22.8%
California	24.4%





## Investments made in downtown San Jose in 2006-07:

- Santa Clara County Partnership for School Readiness
- Preschool class at Horace Mann Elementary School
- Family of Readers federal Reading Is Fundamental program at Grant Academy and Horace Mann elementary schools
- Bring Me A Book Foundation - to provide book case libraries at downtown elementary schools
- Partners in School Innovation - to support teaching and learning at four downtown schools: Empire Gardens, Gardner, Grant, and Washington
- Professional Development School at Gardner Academy
- English language development coach at Grant Academy
- Teacher professional development at Horace Mann elementary school
- Breakthrough program for middle school students from Hoover and Burnett schools
- Downtown College Prep dissemination feasibility study





## Investments made in east San Jose in 2006-2007:

- ACE small, autonomous schools: Adelante and L.U.C.H.A. elementary schools and Renaissance Middle School
- Teach for America in the Alum Rock School District
- KIPP Heartwood Middle School
- MACSA Academia Calmecac charter high school
- Latino College Preparatory Academy charter high school
- Leadership Public Schools San Jose charter high school
- Overfelt High School Electronics Academy
- National Hispanic University college aspirations project - The Applied Materials Center for College Success

