CENTER FOR HOUSTON'S FUTURE The Region's Think Tank

The Center works to solve our region's toughest problems by engaging diverse leaders, providing impactful research, and defining actionable strategies.









LEADERSHIP FORUMS



LeadershipNEXT

Reaching The New Millennials



2012 Community Indicator Report

Human Capital Development & Education





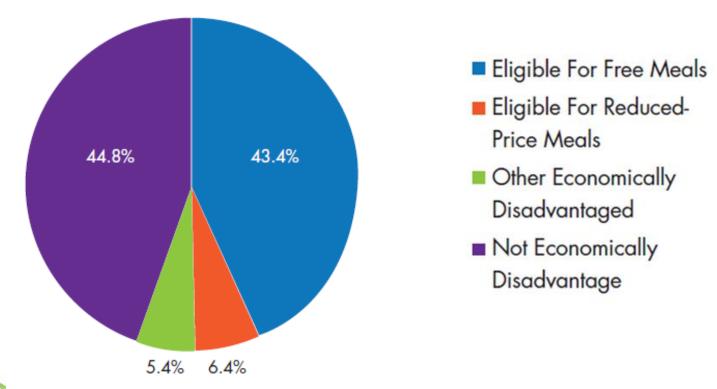
2011 Community Indicator Report

Introductory Video



ECONOMIC DISADVANTAGE OF GREATER HOUSTON STUDENTS

2010-2011



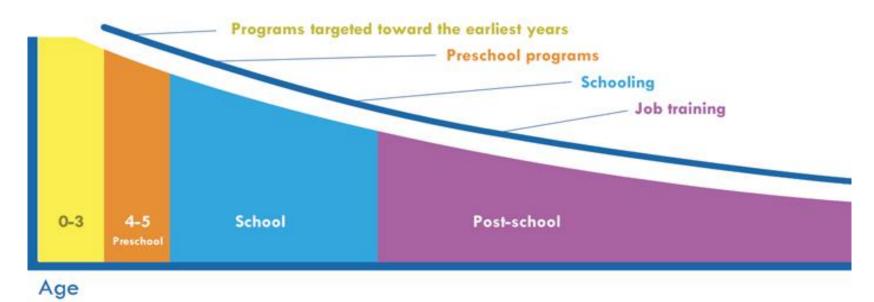


Source: Texas Education Agency, PEIMS Standard Reports (2011)

EARLY CHILDHOOD

Higher ROI for Early Investments

Return to an Extra \$ Invested at Various Ages



Source: James J. Heckman, Ph.D., Nobel Laureate in Economics, University of Chicago, 2008

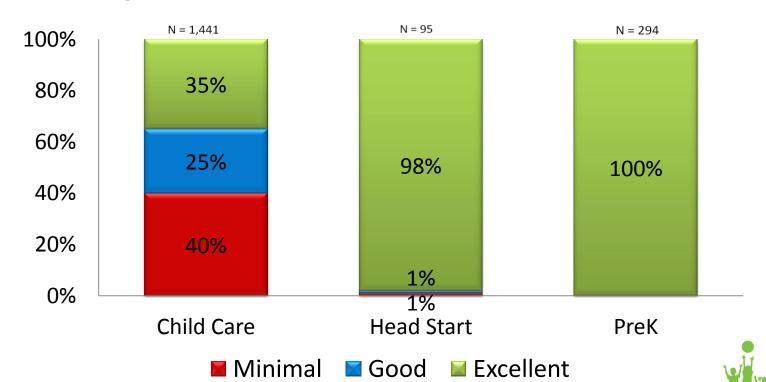




EARLY CHILDHOOD

Teacher Quality, an important metric in the report card

QualiFind Ratings on Teacher Education, All Gulf Coast Counties







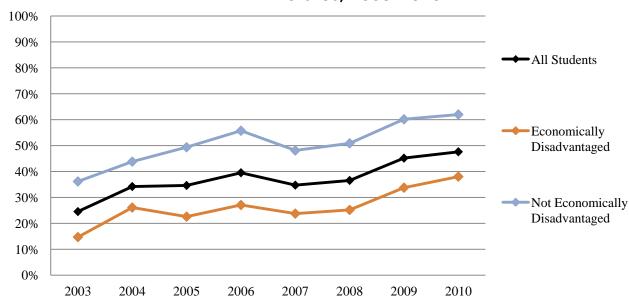
Collaborative for

CHILDREN

K-12

Third Grade Reading – A Critical Metric

Percent of Region's Third Graders Reading at Commended Level on TAKS by Economic Disadvantage Status, 2003-2010



Source: TEA, Children at Risk analysis

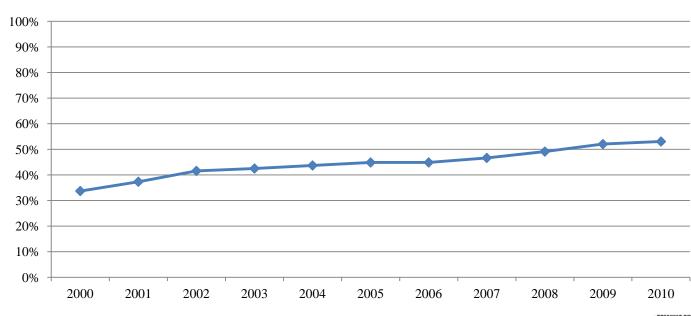




K-12

Algebra I – gateway to higher education

Regions' Ninth Graders Passing Algebra I 2000-2010



Source: TEA



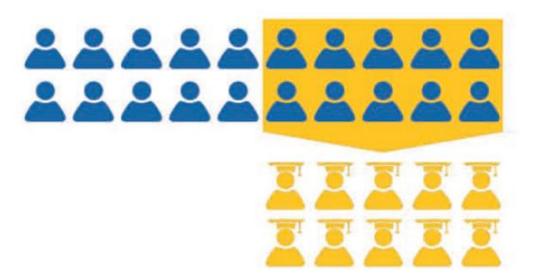


HIGH SCHOOL ATTAINMENT RATES

The Cost...

Texas' drop outs = \$9.6 billion loss/year

What if...half of Texas's 135,100 dropouts from the Class of 2010 had stayed in school and earned a high school diploma?





The results would be...



\$593 million in increased earnings



\$786 million in increased home sales



\$715 million in gross state product



\$470 million in increased spending



3,950 new jobs

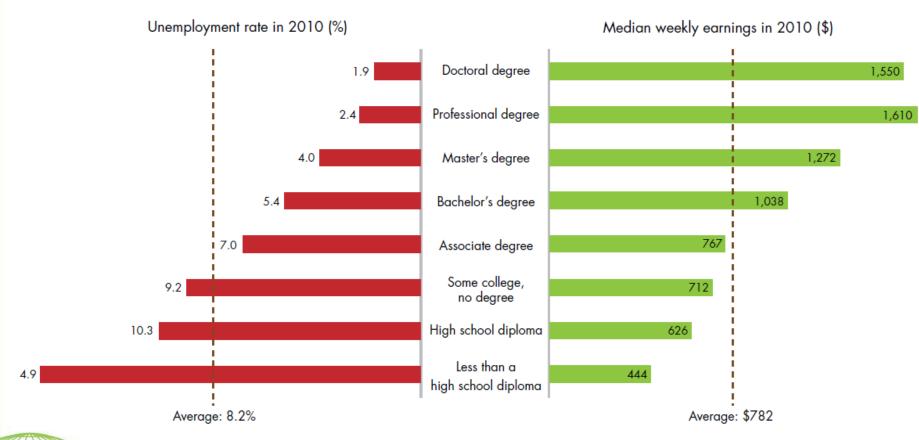


\$43 million in increased state tax revenue



HIGHER EDUCATION PAYS...

2010 US Full-Time Wage & Salary Worker Annual Averages (Ages 25+)

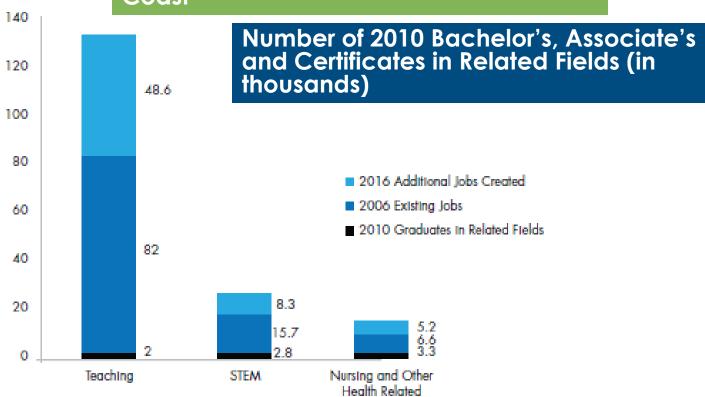




Bureau of Labor Statistics, Current Population Survey

HIGHER EDUCATION AND HIGH-DEMAND JOBS

Occupations Adding the Most New Jobs or Growing the Fastest 2006-2016, Gulf Coast





Source: FSG Social Impact Consultants

Necessity of post-secondary education

In the 2013 Houston Growth and Staffing Outlook Survey,

66%

Of respondents said finding qualified workers was their main concern



By 2018, 63% of jobs will require some postsecondary education

1973 workforce
composition:
72% high school graduates
28% college or above

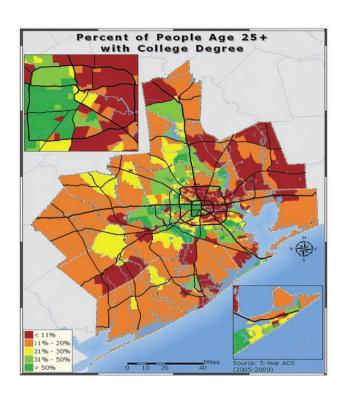
2018 workforce
composition:
38% high school graduates
62% college or above

THIS MEANS 20 MILLION NEW AND REPLACEMENT JOBS WILL REQUIRE SOME COLLEGE OR ABOVE



Necessity of post-secondary education

In 2009, only 28.9% of people 25+ had a college degree





FUTURE

The Region's Think Tank

SCENARIOS 2040

Major Media Launch of Scenarios 2040



The Region's Think Tank

REGIONAL ROUNDTABLES

Outreach to 3,000 plus Across Region

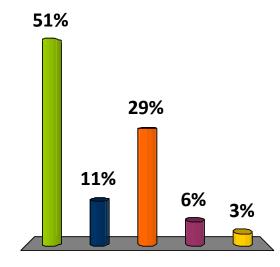


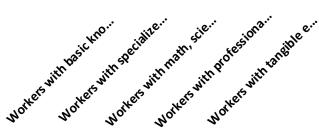
WORKFORCE SUMMIT

Live Audience Poll

From your perspective, where is the skills deficit most significant?

- a) Workers with basic knowledge and skills provided by traditional K-12 education
- b) Workers with specialized knowledge and skills provided by vocational schools
- Workers with math, science and engineering skills provided by community colleges and universities
- d) Workers with professional degrees from universities
- e) Workers with tangible experience garnered through internships and apprenticeships





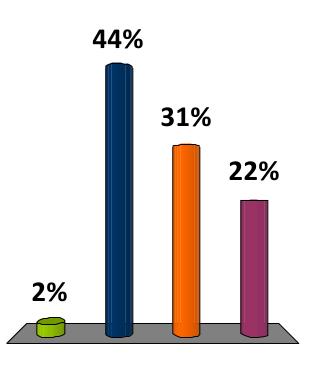


WORKFORCE SUMMIT

Live Audience Poll

What role should business play in closing the skills deficit?

- a) Provide information relative to workforce needs
- b) Work collaboratively with educational institutions in the development of curriculum and best practices
- Develop and fund educational programs designed to address specific skill deficits
- d) Provide internships and apprenticeships in key areas of skill deficit





Provide information relative Develop and fund educative internships and



McKinsey conducted a global survey across 9 countries and launched an extensive investigation of over 100 case studies



~4,500 youth **~3,000**

employers

~1,000 post-

These countries account for

∼40% of global GDP and

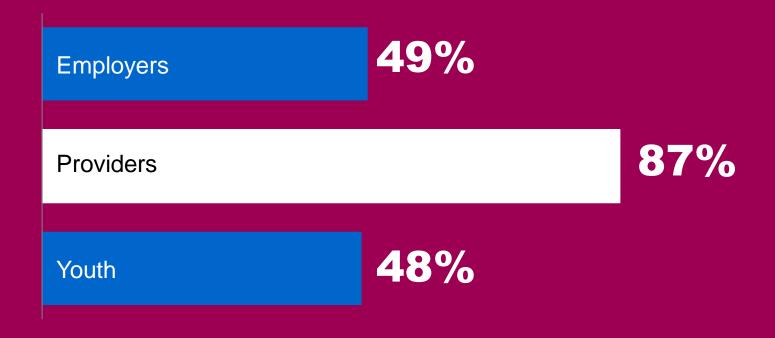
~30% of the population

100 case studies covering

25 countries

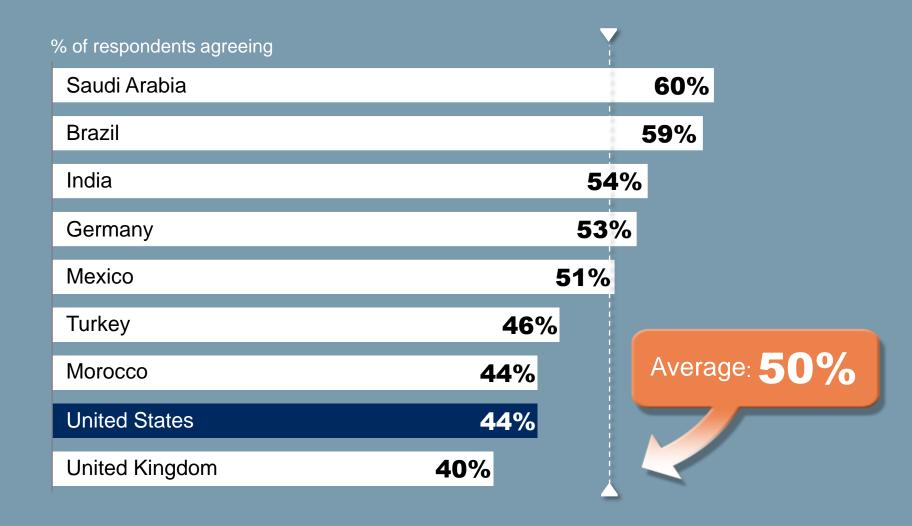


Preparation of new graduates for the US workforce



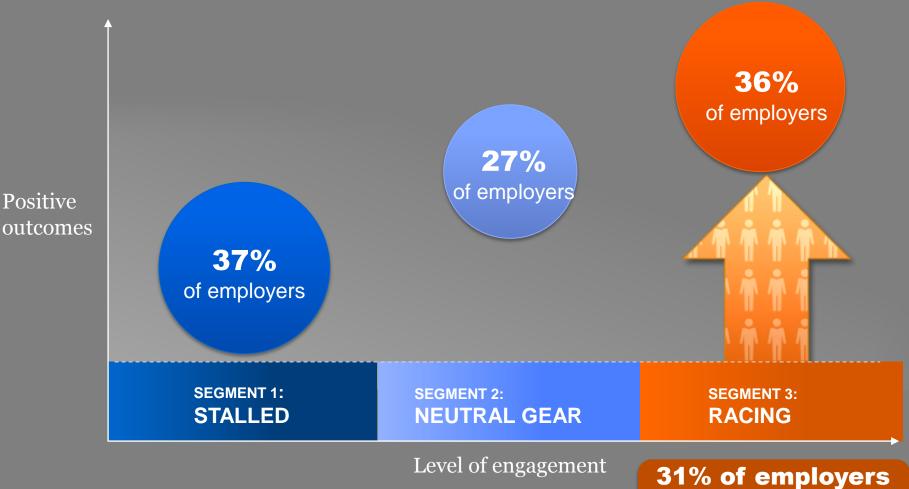
% who agree youth are adequately prepared

Only one in two youth believe their education improved their chances of finding a job





Only one out of the three US employer segments is engaging heavily – and seeing results



the Racing
segment
McKinsey&Company

globally fall under

RICE

Scenarios 2040 Summit: Investing in a Skilled Workforce

Op-ed in the Chronicle by our Chairman, James Calaway



Businesses, schools must do more to prep workers for success

ssi. By James Calaway | March 27, 2013 | Updated: March 27, 2013 8:20pm

A recent report on workforce and education from Center for Houston's Future highlights the lack of readiness in our region, including ranking Houston 34th out of the 50 largest metropolitan areas for college degrees and 60th out of 75 cities in literacy.

The McKinsey Global Institute points out that "too few Americans who attend college and vocational schools choose fields of study that will give them the specific skills that employers are seeking."

Research by the Center for Houston's Future shows that the fastest growing jobs in our region, including engineers, nurses, accountants and educators, will face a shortage of more than 600,000 in the next several years.

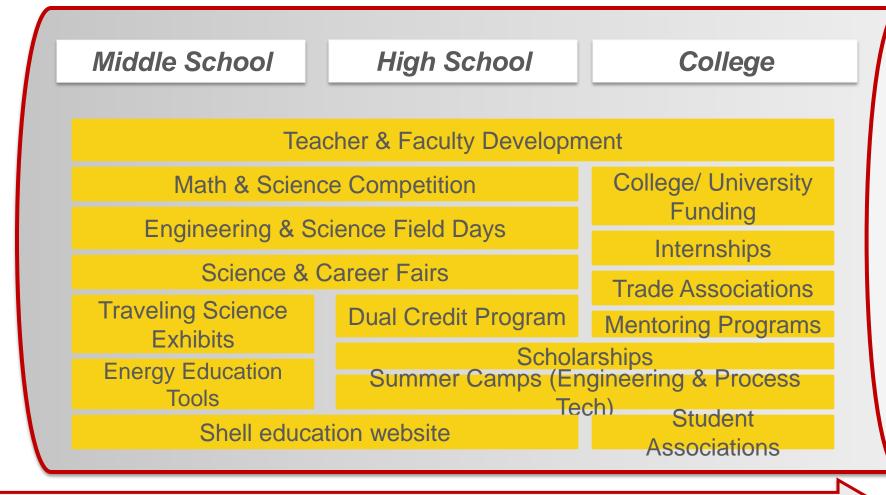
All of this puts enormous pressure on the overall cradle-to-career system of education and workforce readiness. This is a burden that must be shared by the business community.

Pre-K-12 institutions need to equip students with the basic skills required to successfully navigate postsecondary academic requirements, and seek innovative ways to include marketable skills training into their curriculum.



Shell Hires

Shell Workforce Development



Strengthen & Encourage STEM Attract to Technical Careers Support for Success Encourage PARTNERSHIPS

Exxon Mobil Baytown Expansion: Demand for Skilled Labor

- Announced June 2013, Houston Chronicle

- •ExxonMobil commits \$500,000 to workforce training program
- Houston-area community colleges to expand recruitment and training
- •Fifty-thousand students and educators to benefit over five years

-46,000 permanent chemical industry jobs
 -264,000 jobs with supporting companies
 and contractors

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Source: Texas Higher Education Coordinating Board, 2011

Sub-bachelor's STEM jobs overlooked by policy makers

"The Hidden Stem Economy"
-Brookings, 2013

- •Since 2011- 20% US jobs require a high level of knowledge in any one STEM field.
- •Half of all STEM jobs are available to workers without a four-year college degree. These jobs pay on average 10% higher than jobs with similar educational requirements.
- •STEM jobs that require at least a bachelor's degree are highly clustered in certain metropolitan areas, while subbachelor's STEM jobs are prevalent in every large metropolitan area.



http://www.centerforhoustonsfuture.org/