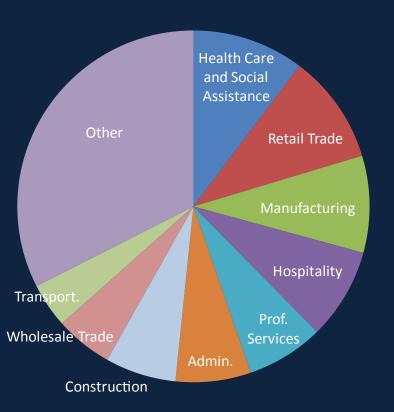
## B | Metropolitan Policy Program at BROOKINGS

# Baseline: Building a 21<sup>st</sup> Century Workforce for the Houston Region

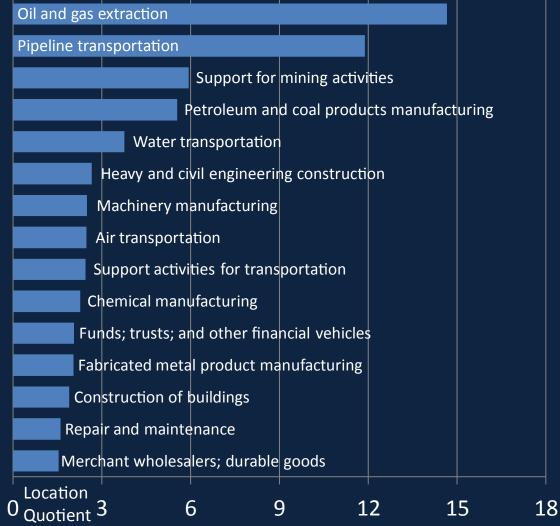
Marek Gootman Global Cities Initiative - Houston May 14, 2013

#### Manufacturing, energy, healthcare, transportation are critical components of the Houston economy

Share of Total Employment by Industry Sector, 2012 n=2,734,392



Most Specialized Sub-Sectors by Employment, 2012



Source: Brookings analysis of Moody's Analytics data.

Manufacturing, energy, and healthcare account for 675,000+ jobs, one quarter of Houston's employment base – two in tradable sectors

Manufacturing

190,507

Energy

244,484

**Health Care** 

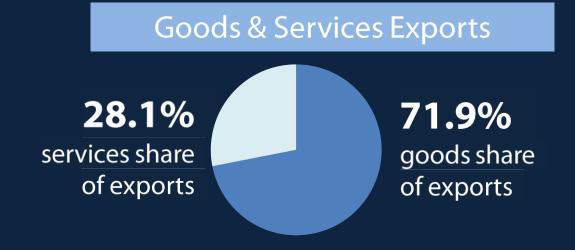
243,559 8.9% Houston is a major exporter – tradable sectors of petrochemicals and machinery manufacturing drive performance

**Export Volume** 

\$47.9 B

**Export Jobs** 

307,000

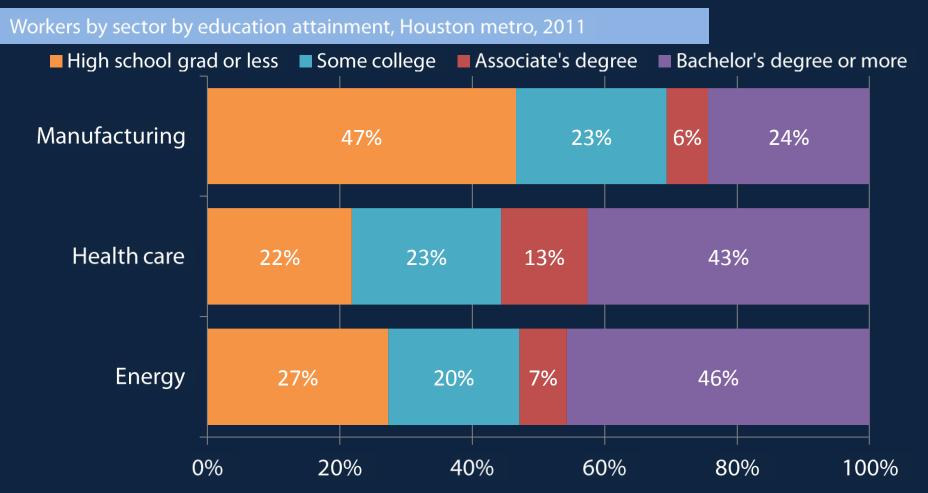




Top Services Sectors		Top Goods Sectors	
Travel and Tourism	8.9%	Chemicals	20.3%
Business Services	6.9%	Machinery Manufacturing	15.1%
Royalties	5.6%	Petroleum and Coal Products	14.9%

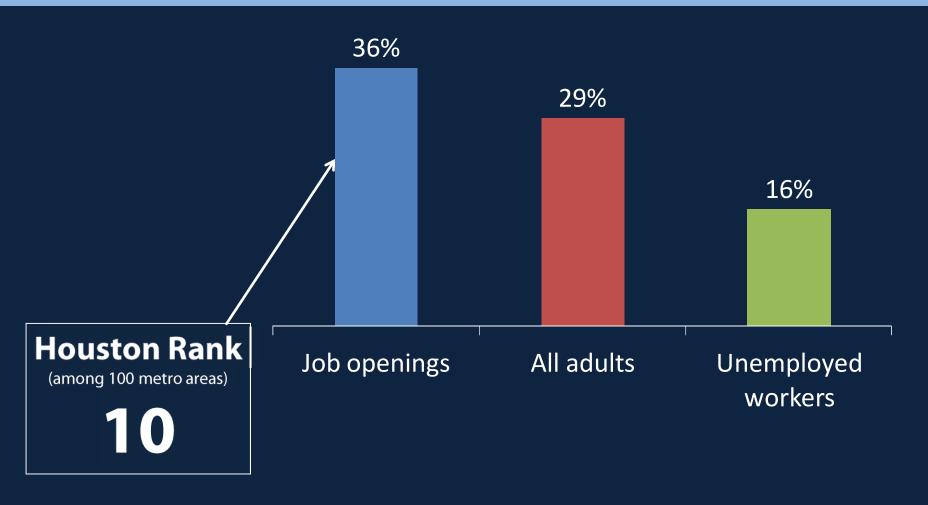
Source: Brookings, ExportNation 2012

Energy and Health Care workers have high levels of education. Manufacturing skill demands hidden by long-time incumbent workers, and will need more educated replacements.



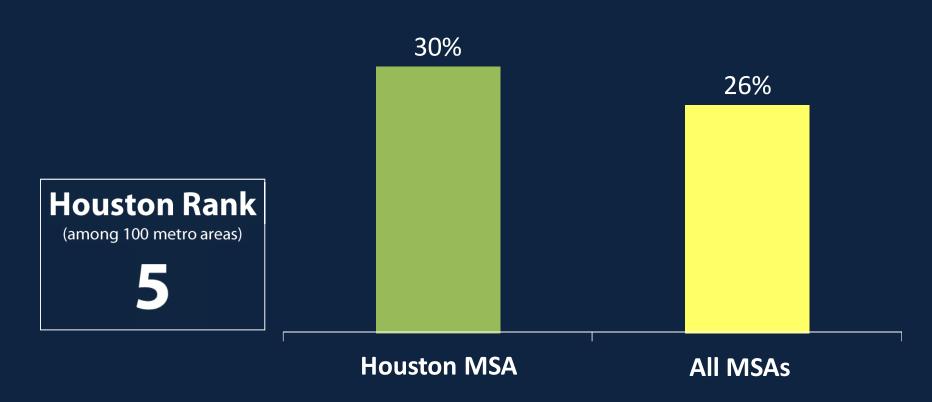
# The Houston region's job openings demand high levels of educational attainment

Share of job openings requiring, and adults possessing, bachelor's degree, Houston metro, 2011



#### About one third of Houston's jobs are in STEM-focused fields

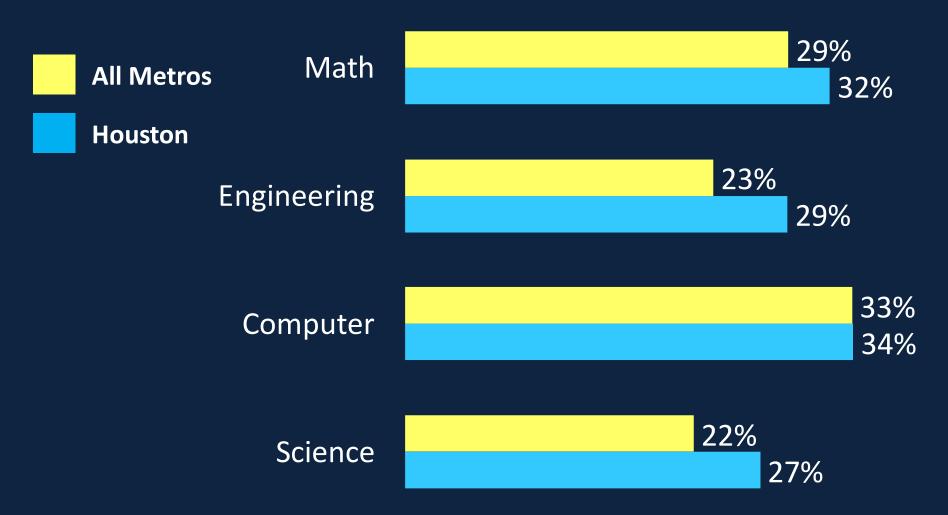
Share of jobs with above-average STEM content, Houston metro, 2011



Average STEM content score for all jobs

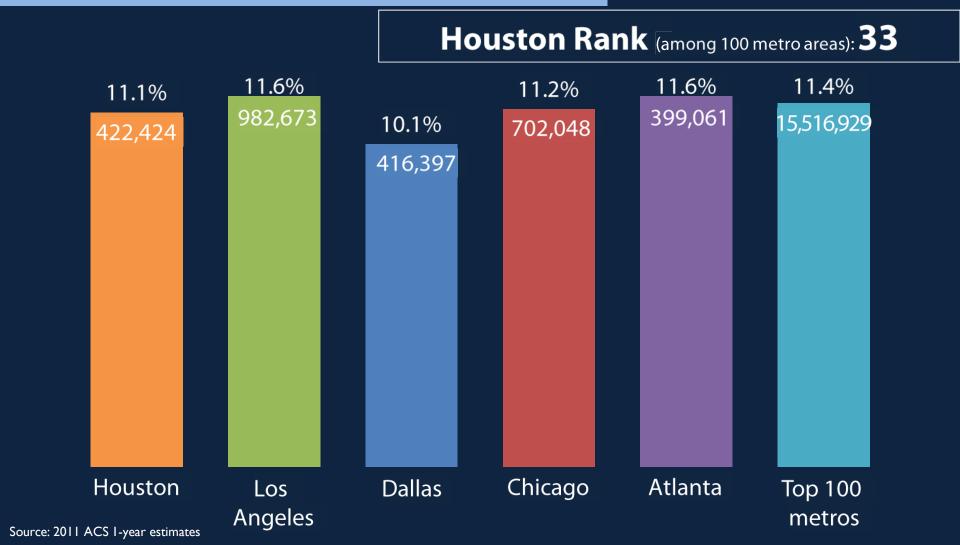
# Houston's jobs are above-average in every aspect of STEM content

Share of jobs with high science, computer, engineering, or math content, Houston metro, 2011



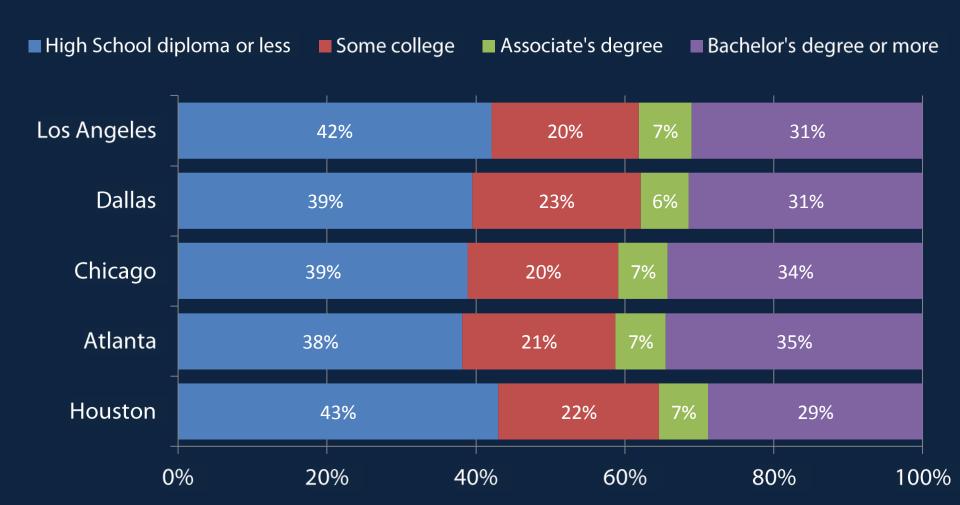
#### Houston MSA ranks 5<sup>th</sup> in population, but 33<sup>rd</sup> in share of STEM degrees among the top 100 metros

Share of population 25+ with a degree in a STEM field, 2011



### Educational attainment in Houston mirrors national trends but is a bit lower than peer metros

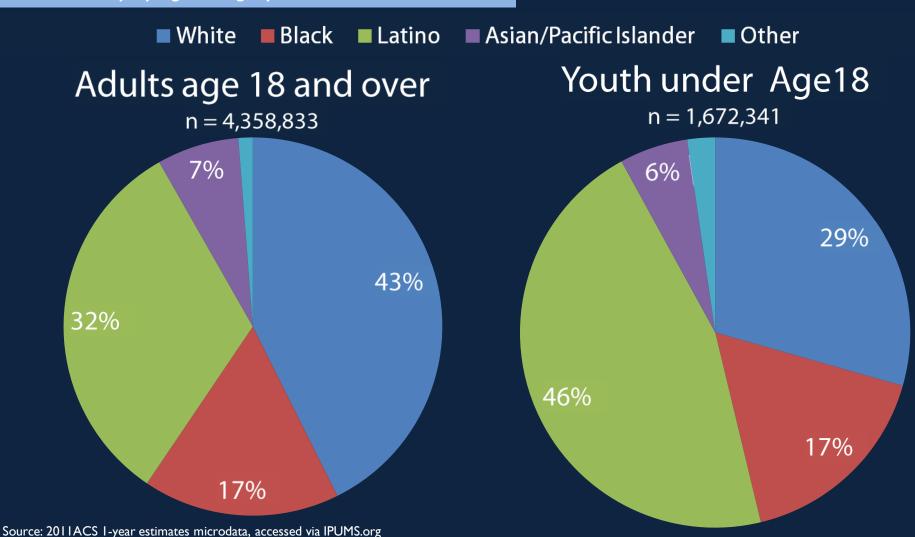
Educational attainment for the population 25 and over, 2011



Source: 2011 ACS 1-year estimates

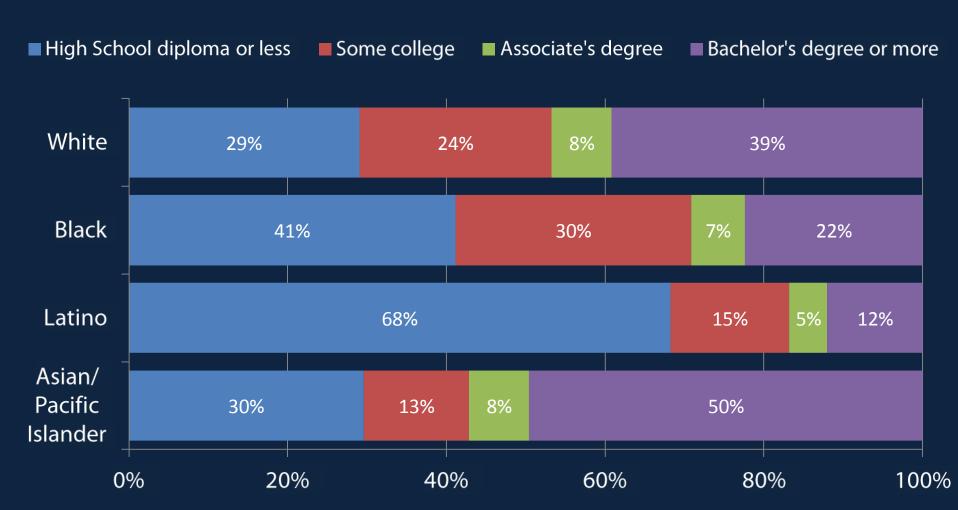
#### Latinos make up almost 50 percent of youth, compared to 1/3 of adults, indicating a growing presence in the region

Race/Ethnicity by age category, Houston metro, 2011



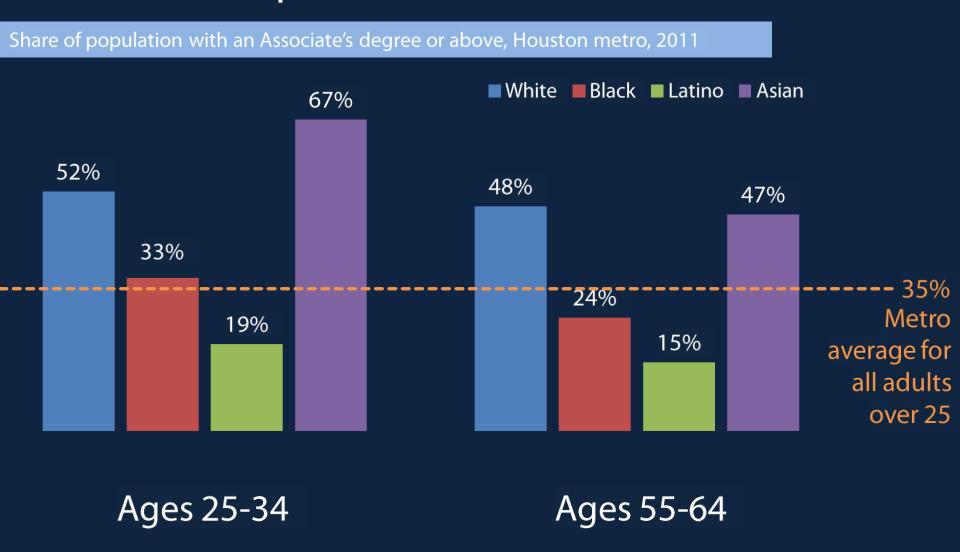
#### Latinos have the lowest educational levels

Educational attainment for the population 25 and over by race/ethnicity, Houston metro, 2011



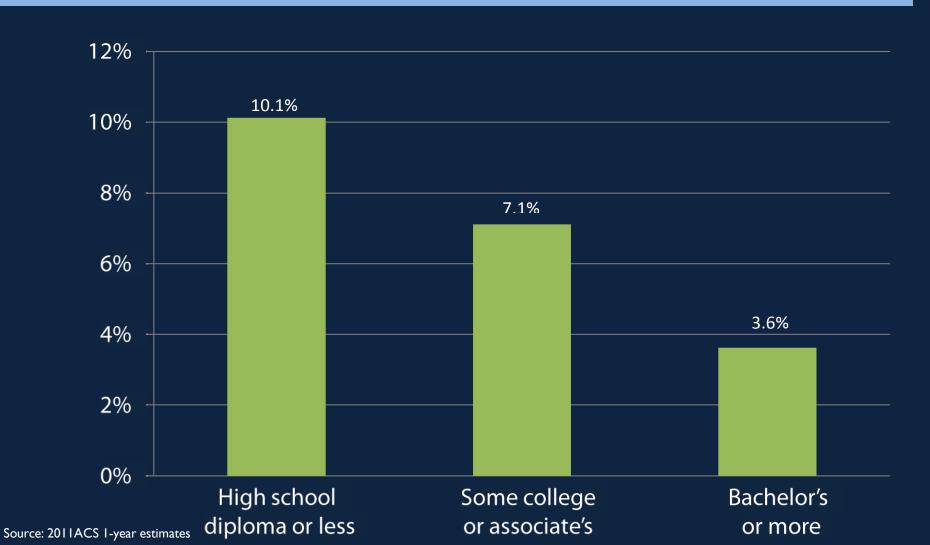
Source: 2011ACS 1-year estimates microdata, accessed via IPUMS.org

# Younger residents of all races/ethnicities have higher educational levels than older residents, but significant racial/ethnic disparities remain



#### Higher educated residents are much less likely to be unemployed

Share of civilian population 25-64 unemployed by education attainment, Houston metro, 2011



# Workforce Development Action: Considerations to Achieve Near-Term Impacts

Tailored – building on distinct regional industry profiles, demographics, labor markets.

Targeted – focusing to address needs by sectors, responsive to special populations, not all-encompassing.

Business-Led – consistently and methodically engaging the private sector for direction, feedback, and co-delivery.

Integrated / Collaborative – partner across multiple delivery systems, but with common objectives and measures.

#### www.brookings.edu/metro

Marek Gootman

Director of Strategic Partnerships

(202) 797-6294 mgootman@brookings.edu @MarekGootman

# B | Metropolitan Policy Program at BROOKINGS