

SPUR SPUR

What are the Good Jobs in Tech #TechDoneRight





Lili Gangas
Chief Tech Community Officer, Kapor Center



CAKLAND

Kirsten Lundgren

Director, TechHire Oakland

TECH/HIRE>

Tessa Forshaw Lecturer Stanford d.school, Founder of PeopleMap



Why are we having this discussion?

Who's in the room?

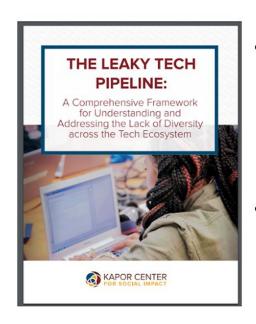
What skills matter most to you?



The Leaky Tech Pipeline

Understanding and Addressing the Lack of Diversity across the Tech Ecosystem

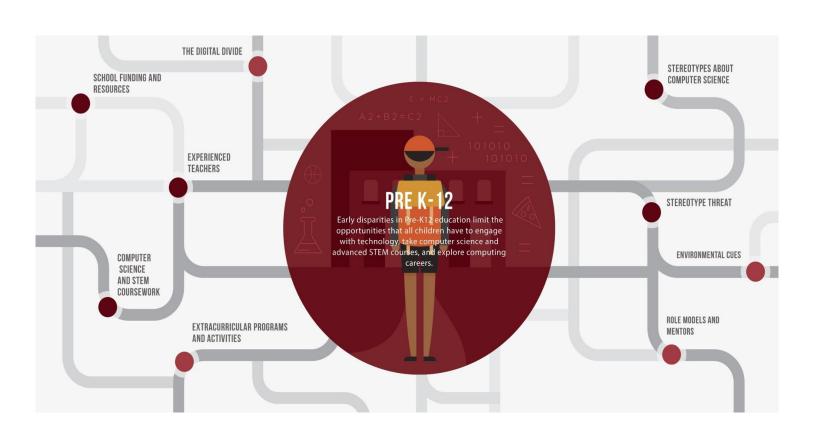
Framing the Problem



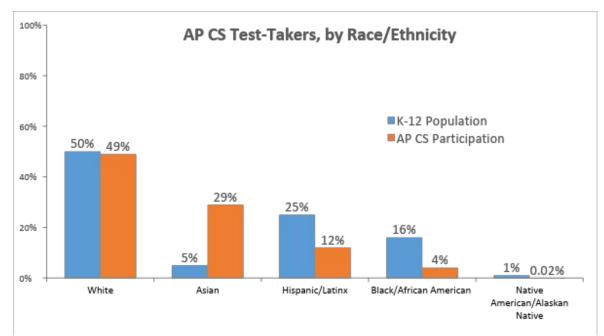
- The Leaky Tech Pipeline framework is situated within the broader societal context of economic, educational, and social policies, practices, and systems which have led to disproportionate access to quality education, employment, wealth, healthcare, and physical environments, especially among communities of color.
- The framework draws upon social science research to describe the lack of diversity in the technology sector as the result of a complex set of interrelated (and often cumulative) structural and social/psychological barriers.

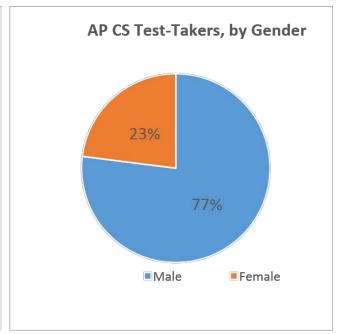
PRE K-12 EDUCATION





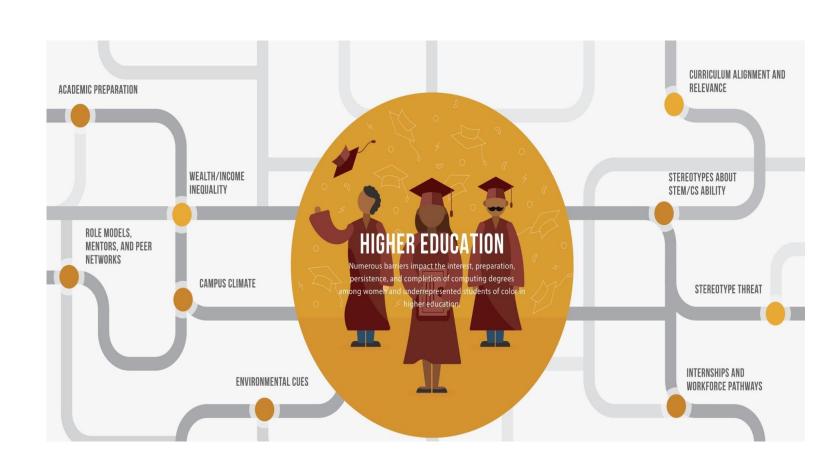
Too few students are taking CS by the end of high school, especially girls and students of color



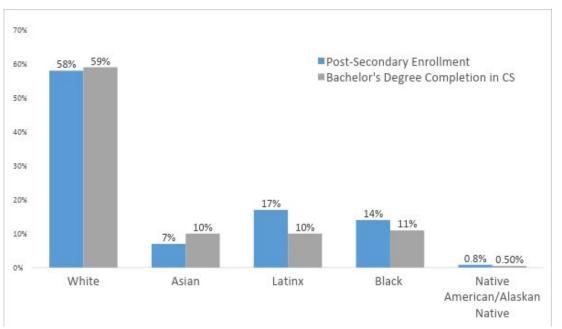


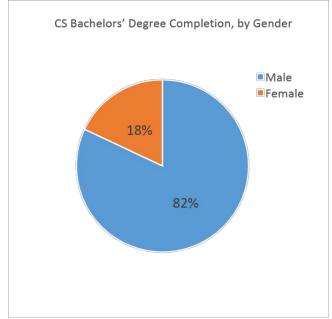
HIGHER EDUCATION





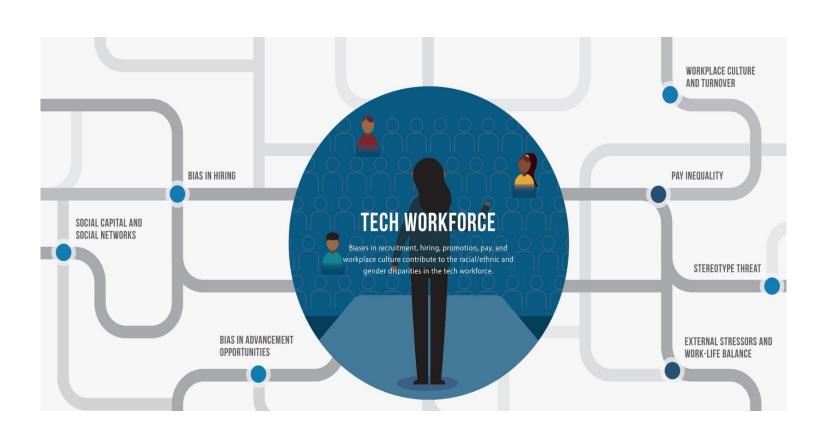
Just a fraction of women and students of color are completing computing degrees each year



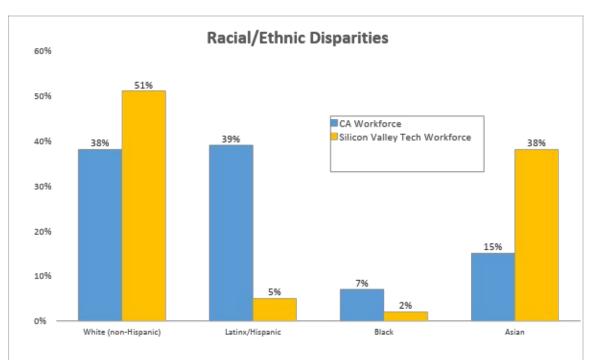


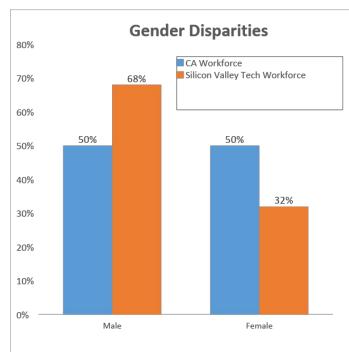
TECH WORKFORCE





California's Tech Sector ≠ California's Demographics

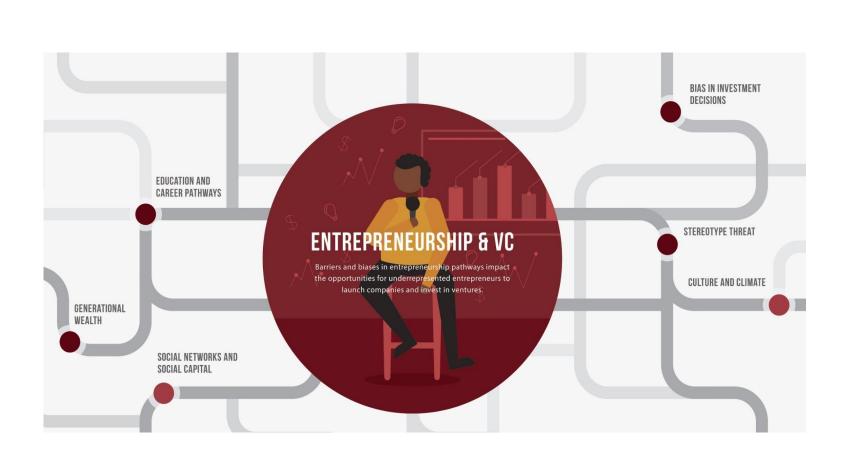




Source: Rangarajan (2018); Median demographics of professionals in 177 Silicon Valley tech companies); Nat. American/Alaskan Native/Native Hawaiian not reported; U.S. Census Bureau (2016); EEOC (2016). Diversity in High Tech

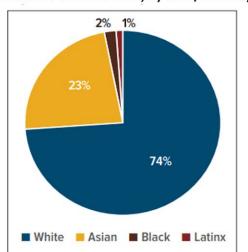
ENTREPRENEURSHIP/VC



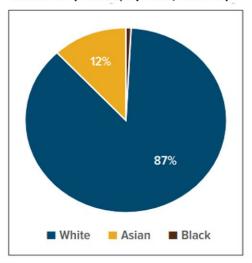


Very little racial or gender diversity exists in tech creation or investment

Venture-Backed Tech Founders, by Race/Ethnicity



Venture Capitalists, by Race/Ethnicity



Without the participation of women and people of color in the creation of new technology enterprises and solutions and the investment in wealth-creating ventures, tech will replicate and exacerbate trends of wealth inequality and neglect to solve critical challenges facing diverse communities.

National Perspective - Future of Work Trends

% of occupations in which at least 1/3 of activities will be automated



McKinsey Global Institute Report, 2017

LINKEDIN'S 2017 U.S. EMERGING JOBS REPORT in

- Machine Learning
- Data Science
- Software Engineering
- Cloud Computing
- App Development
- Cyber Security

- System Design
- Sales Development
- Customer Success
- Marketing Content Management
- Design/User Experience

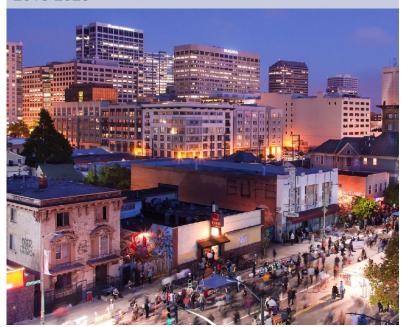




·LinkedIn Emerging Jobs Report, 2017

Local Perspective - Future of Work

Economic Development Strategy 2018-2020

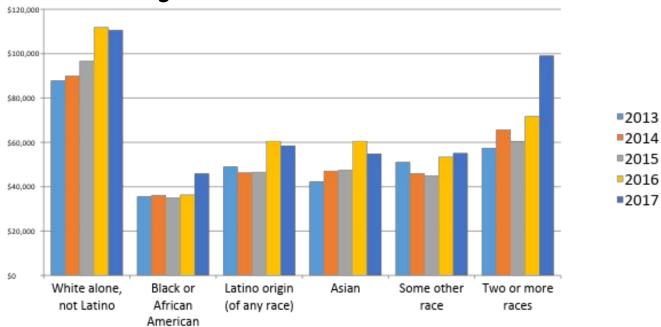


Goal

Increase Wealth and Assets for Households of Color in Oakland



Median HH Income in Oakland by Race/Ethnicity



Source: American Community Survey 1-yr, 2013-2017



OAKLAND'S BIGGEST SECTORS

RETAIL

MANUFACTURING

ARTS & CULTURE

TOURISM

AND BIGGEST TECH SECTORS

FINANCE

DIGITAL ARTS

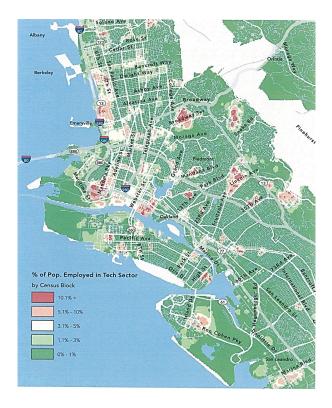
ENERGY

EDUCATION

HEALTH

HOUSING & CRIMINAL JUSTICE

The Tech Economy is Regional



- •~9,000 Tech jobs in Oakland
- 20,000+ residents who work in the Tech Sector

- Oakland tech workers earn 75%
 more than the average of all
 Oakland employees
- 18% of Oakland's tech workers are Black or Latinx and 34% of Oakland's tech workers are women.



Tech Strategy (2014-2018)

Vision: Oakland's Tech Sector Should Reflect Its Demographics

- Focus on startups and grow from within the city
- Create opportunities for startups to connect with each other and with resources to grow their business
- Make the City more business-friendly
- Connect to City's overall Economic Development Strategy
- Invest in the Talent Pipeline
- Support Oakland companies to increase diversity



THE LEAKY TECH PIPELINE

Linked Learning & CS Expansion at OUSD

OUSD has expanded its CS courses, with a recent \$8 million investment from Salesforce (\$15 million since 2014)

Computer Science & Technology Academies at three high schools

900 middle schools students in OUSD have taken a computer science class for the first time this year: **45%** female; **38%** Latino; **29%** African-American

Broader Economic Context

Cost of housing remains the biggest barrier

Oakland is the 7th most expensive U.S. city to live in

PRE K-12



POST SECONDARY

TECH WORKFORCE





ENTREPRENEURSHIP

Pre-K Disparities

17% of Latino children and 19% of African American Children enter OUSD schools ready for Kindergarten

Compared to 72% of White Children who enter school Kindergarten-ready

Tech Workforce

Oakland Workforce Development Board is looking to be more intentional on engaging Tech Employers

Engaging employers in public-private partnerships, and in particular, committing to diverse hiring





<TECH/HIRE> OAKLAND

Guiding underrepresented East Bay residents of color to rewarding careers in tech







DESIGNUI/UX DIGITAL MEDIA

MARKETING SALES CUSTOMER SUCCESS

SOFTWARE DEVELOPMENT

DEV OPS I.T. CYBER SECURITY

HARDWARE ADVANCED MANUFACTURING

STUDENT JOURNEY MAP (Abel, Age 16-19)

*Teacher tells him about Hidden Genius Project

*Hidden Genius Project refers him to Hack the Hood

Hack the Hood 6 week coding camp (design focused) hack the hood

Mission Bit after school coding classes (1 semester)

* Created coding club at school

mission**bit**

SUMMER 2016

Berkeley Biz Academy (2 wks)

Make School (4wks) IOS Dev'p

IDTech (2 weeks) IOS Dev'p. \$\$\$\$ but got assistance from benefactor

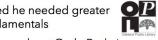




FALL 2016 (senior)

Ready Set Connect @ Oakland Library

*Realized he needed greater CS fundamentals



*Found out about Code Berkeley but did not enroll

SPRING/

* Gap - life was complicated

Peralta Comm College 1 semester via Oakland Promise





- Laney CS (not good class)
- College of Alameda, English Berkeley City, PreCalc (hard)

SPRING 2018 (now!)

Mission Bit Intensive Prep Course for Hack Reactor (13 wks) -free





Laney CS Class

*Teaching at Mission Bit on the side



SUMMER 2018

Hack Reactor Full Program (on 3 months. \$\$\$\$



FALL 2018 (?)

GOAL: JOB PLACEMENT



SELECTING EMPLOYER CHAMPIONS





Adobe



EllieMae

facebook.



Google





ıntuıt

Linked in

pandora®













APPRENTICESHIP WORKSHOPS WITH EMPLOYER CHAMPIONS



TECHHIRE OAKLAND TALENT LANDS MAJOR NATIONAL TECH APPRENTICESHIPS

DEBRENA MCEWEN



ALEX HARDING OMAR CONTRERAS

ABEL REGALADO











DESIGNUI/UX DIGITAL MEDIA























Lili Gangas
Chief Tech Community Officer, Kapor Center



CAKLAND

Kirsten Lundgren

Director, TechHire Oakland

TECH/HIRE>





Call to Action

\$1M to Change Tech

#TDRChallenge

techdoneright.kaporcenter.org





AdQ