



California
Community
Colleges

2018 Future of Work MeetUps

Lynn Shaw, Ph.D.
California Community Colleges

“The economy is unforgiving to those without skills.”

- California Community Colleges Chancellor Eloy Ortiz Oakley



65%



80%

65% of jobs will require college credential by 2020¹

80% of middle-skill jobs require digital skills, 4% increase since 2014²

¹ Georgetown Center on Education and the Workforce. Recovery: Job Growth and Education Requirements through 2020. 26 June 2013

² Burning Glass. The Digital Edge: Middle-Skill Workers and Careers, Sept. 2017

The Rise of Automation. The Fall of Workers?

47%

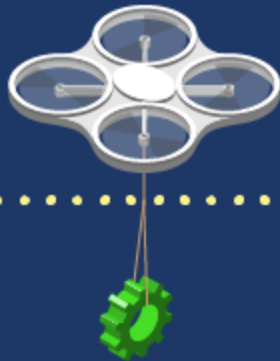


47% of U.S. jobs could be replaced by robots and automated technology within 20 years¹

45%



45% of activities individuals are paid to perform can be automated by adapting currently demonstrated technologies², representing about \$2 trillion in annual wages in the U.S.³



60%



60% of all occupations could see 30% or more of activities automated with technologies available today²



¹ Frey, Carl Benedikt and Michael A. Osborne. The Future of Employment: How Susceptible are Jobs to Computerisation? 17 Sept. 2013

² Chui, Michael. James Manyika, Mehdi Miremadi. McKinsey & Co. Where machines could replace humans—and where they can't (yet) July 2016

³ Chui, Michael. James Manyika, Mehdi Miremadi. McKinsey & Co. Four fundamentals of workplace automation November 2015



"Stranded" Working Adults

Working adults who, because of an inability to access job skills, feel displaced in today's workforce and have difficulty envisioning personal prosperity in the technology-driven workforce to come, specifically:

49%

49% from Spanish-speaking households cannot access traditional higher education

(US Census)



2.5 million

2.5 million CA adults ages of 25 to 34 years old who have only a HS diploma or some college but no degree (US Census)



6.2 million

Another 6.2 million CA adults ages of 35 to 65 years old have a high school diploma but no college degree (US Census)

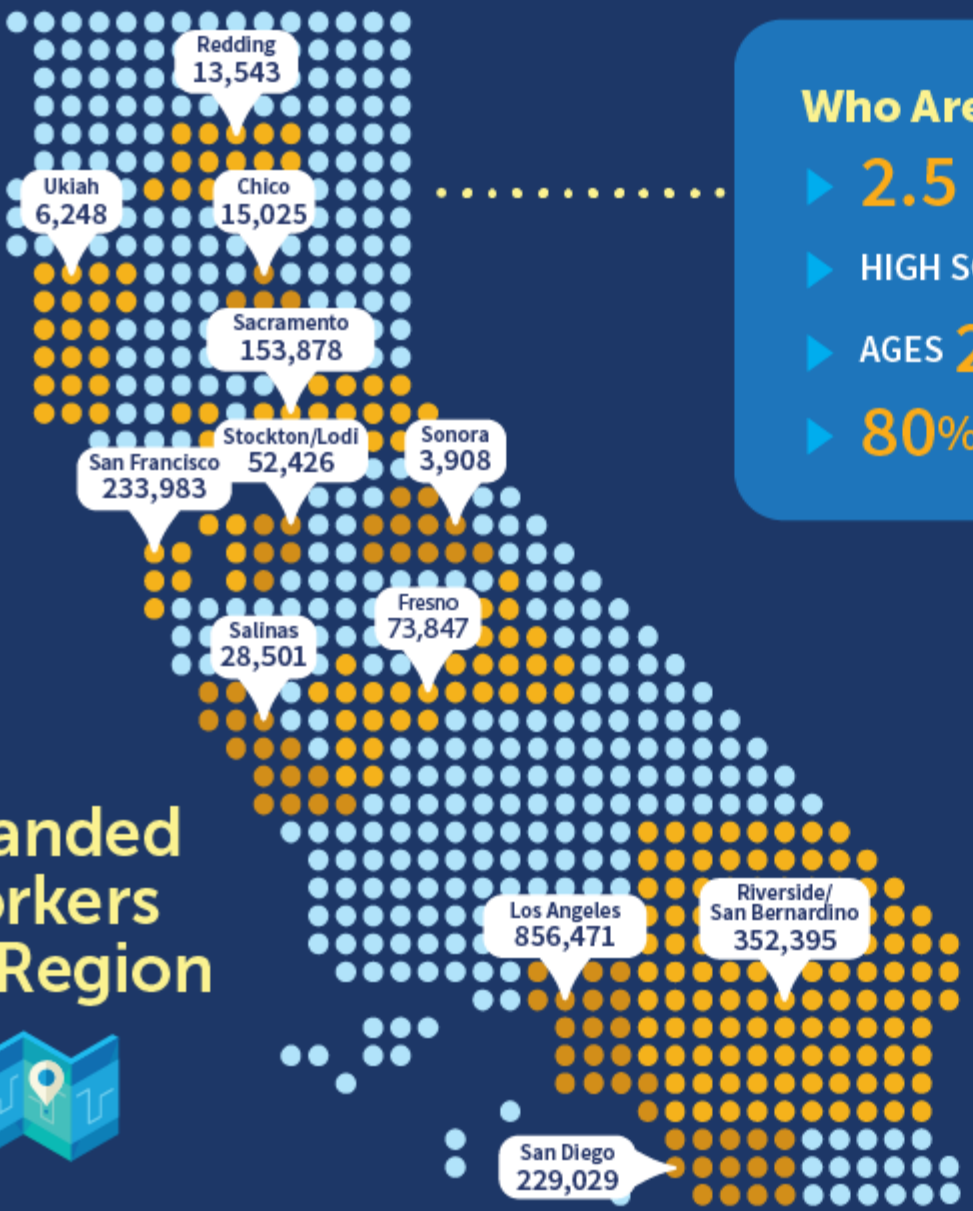


Who Are California's Stranded Workers?

- ▶ **2.5 MILLION** MEN AND WOMEN
- ▶ HIGH SCHOOL GRADUATES, NO COLLEGE DEGREE
- ▶ AGES **25-34**
- ▶ **80%** ARE CURRENTLY WORKING



Stranded Workers by Region



Stranded Workers by Ethnicity





Governor's proposal: *Fully online community college*

A more accessible, affordable alternative for adult working learners

- Targets the 2.5 million adult who otherwise could be stranded
- Industry valued credentials
- Affordable alternative to expensive for-profit options
- Self paced – *competency-based education*
- Flexible start times – *uncoupled from academic calendar*
- R&D Unit – *data science and learning science*

Appetite for online education is growing:

- 1/3 of students in the California Community Colleges system now take at least one class online
- Other states already have one: AZ, CO, KY
 - Arizona State University Online offers six different start dates per year and ample student support programs; enrolled nearly 75,000 students in just seven years since launching
 - Rio Salado College (AZ) has 40 Monday starts per year



Quality of a fully supported online education is improving:

- No gap when comparing campus and online for “completion” and “mastery;” small for “passing” (less than 2 pts)
- **At-risk students fare no worse – and in some cases substantially better** – in online than in on-campus environments

Source: [ASU Online Performance Gap Analysis, 2018](#)

1.3M student course observations; 280,000 unique students; includes 21,000 California students



Quality of a fully supported online education is improving:

- Students in the RioAchieve cohort (5k first time, Pell-eligible students) have **7% higher term-to-term retention**, 4% higher year-to-year retention, and slightly higher course-level success and GPA over comparative cohort

Source: [Measuring What Matters: Quantifying Returns on Digital Learning](#), CHEA 2018 Annual Conference, Rio Salado College



Listening and Learning Forums

for stakeholder feedback

- Future of Work MeetUps
- Futures Design-Thinking Lab
- CTE Faculty Webinars (open to all faculty)
- Working Learner Listening Sessions
- Faculty Expert Engagement Session

Learn more at ccconlinecollege.org



On Your Mind...

- High-support student experience
 - * Culturally appropriate
 - * Faculty interaction
 - * Onboarding for non-digital natives
 - * Belonging to a tribe
- Enrollment impact
- Online Education Initiative (OEI)
- Bundling technology and equipment
- Rollout
 - * Three pathways
 - * Dual accreditation
- Benefitting the other 114 colleges
 - * Faculty professional development
 - * R&D sharing
 - * Student referral
 - * Revenue sharing?