

# LMC Flex Day

# So what does the data say?

August 9, 2017
Gregory M Stoup
Interim Associate Vice Chancellor of Educational Service



### What we will tackle over the 30 minutes

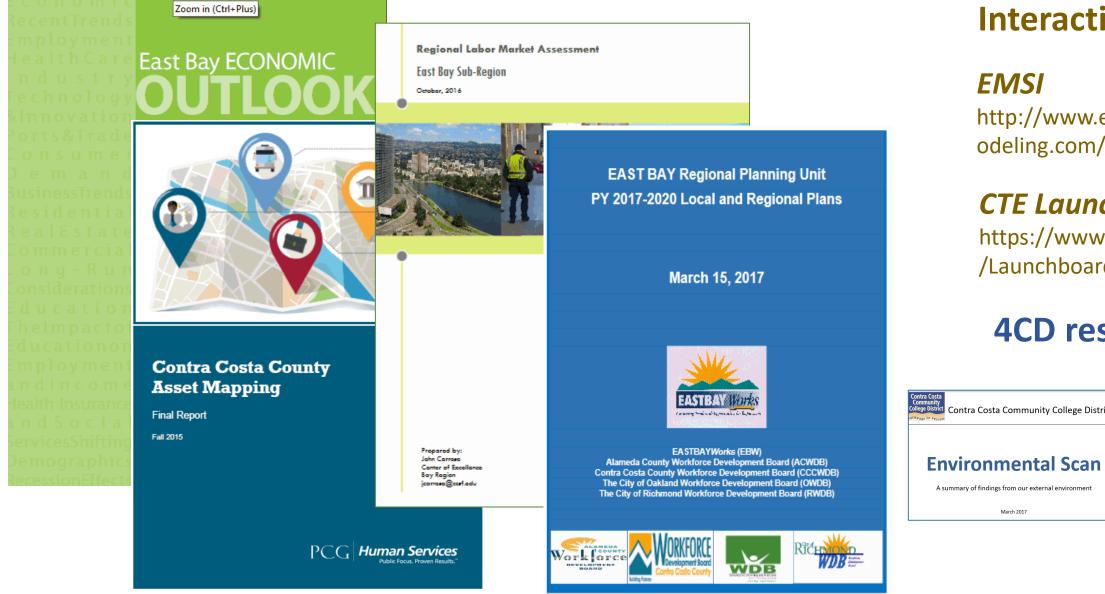
- Demographic, workforce and enrollment trends
- Perspectives from the public, policy makers, employers and students
- New statewide initiatives pointing to change
- The infrastructure we've built in the East Bay
- Condensed summary

# Chapter 1

- Demographic, workforce and enrollment trends
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# A very brief summary from a wealth of resources and tools



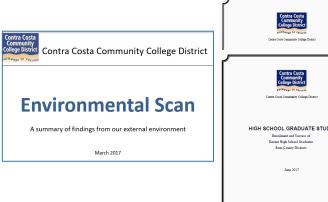
#### Interactive tools

http://www.economicm odeling.com/

#### CTE LaunchBoard

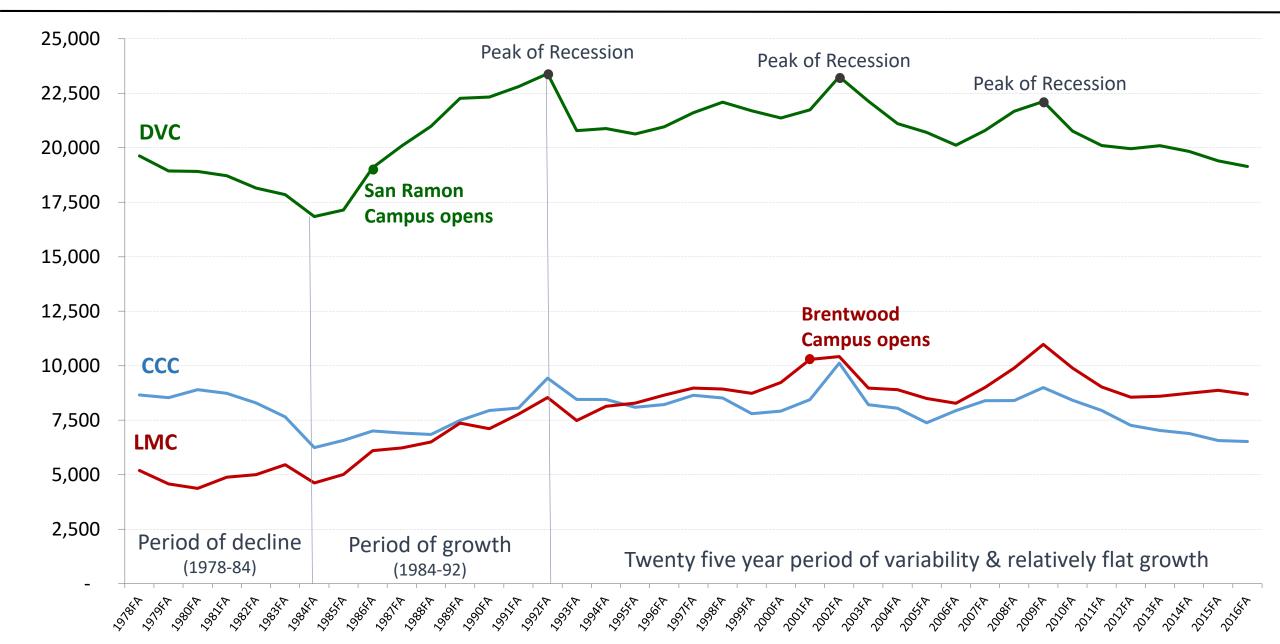
https://www.calpassplus.org /Launchboard/Home.aspx

#### **4CD** resources

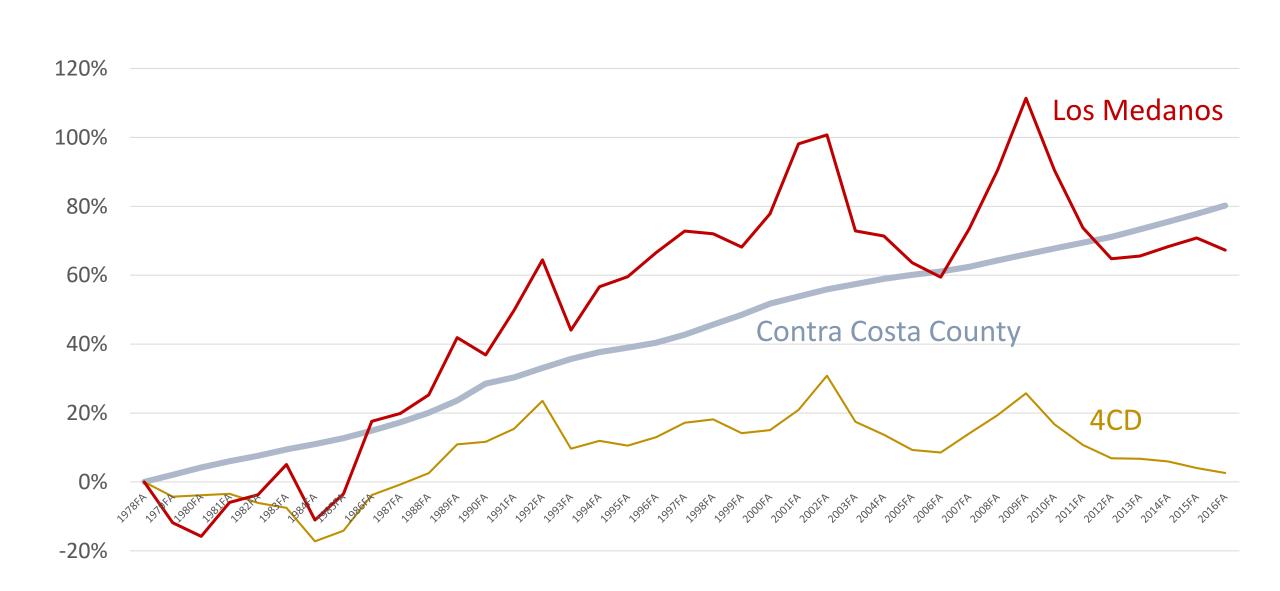




#### First let's take a historical look at enrollment trends (1978 – 2016)



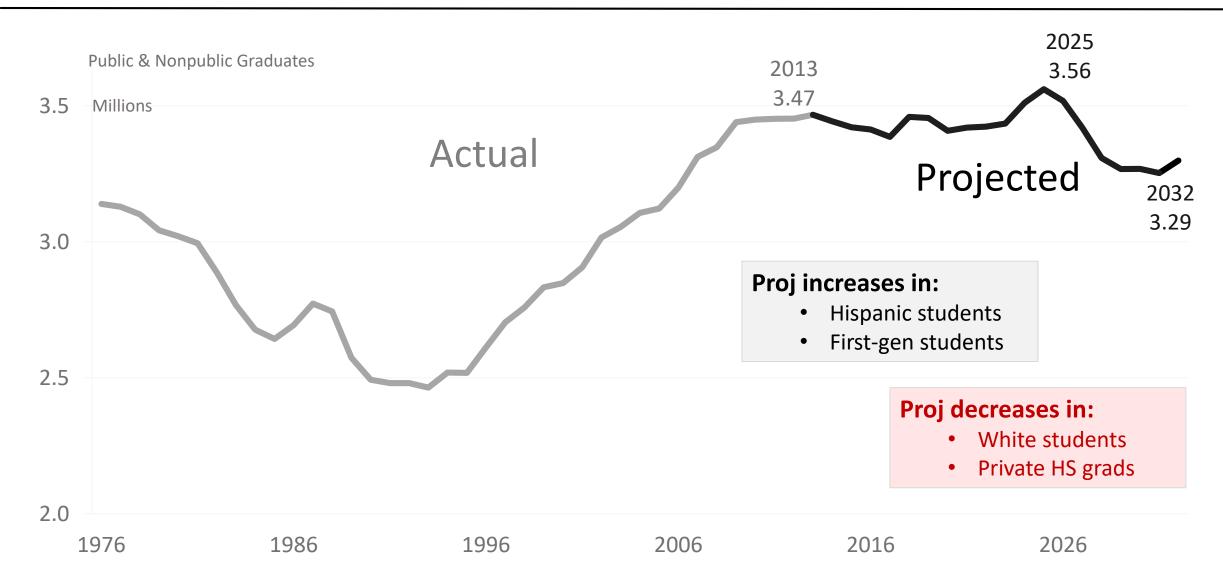
#### Percentage growth in county population and student enrollment (1978 – 2016)



	East County
Overall population	Second largest region; fastest growing
Age Distribution	Youngest age pool; U-shaped growth
Ethnicity	Bimodal ethnicity; rapid minority growth
Origin of Birth	Moderate growth in foreign born residents
Language Spoken	Fastest growth among non-English speakers
Education Attainment	Least educated; strong growth in AA degrees
HS Graduate Market	Rapid growth; rising capture rates
Feeder HS ACT Profile	Lowest performance
Labor Market	slower job growth; growing poverty
Income & Housing Market	Lower income & declining housing market

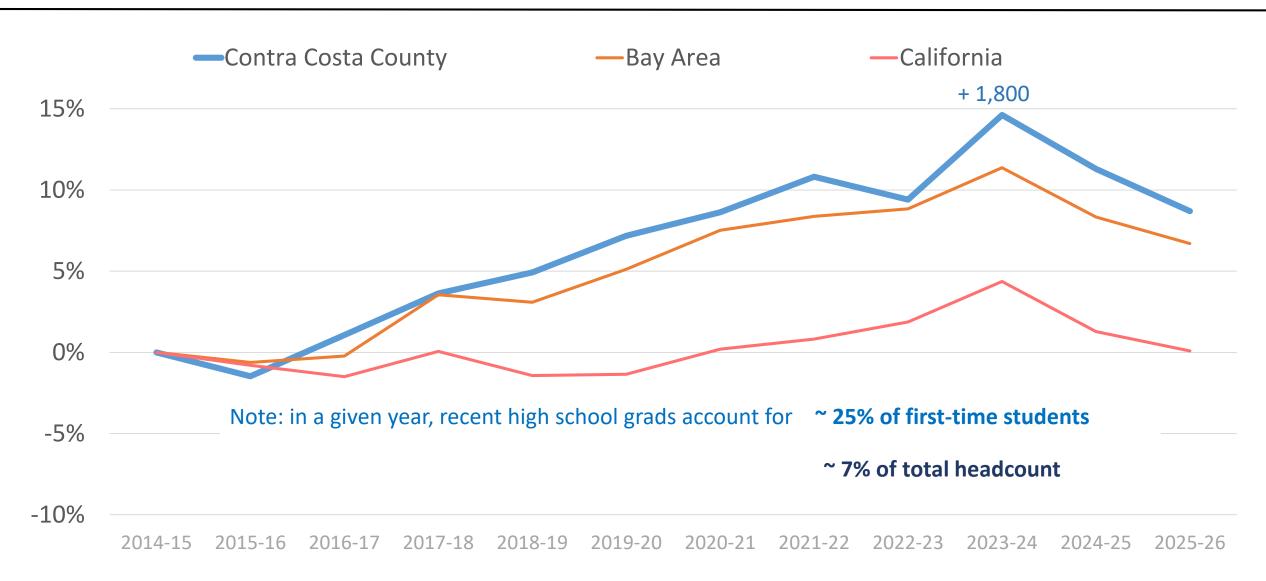


#### **Projections**: U.S. High School Graduates (1976 – 2026)





#### **Projections:** California High School Graduate (2014/15 – 2025/26)



Source: California Department of Finance, Demographic Research Unit, (2016).



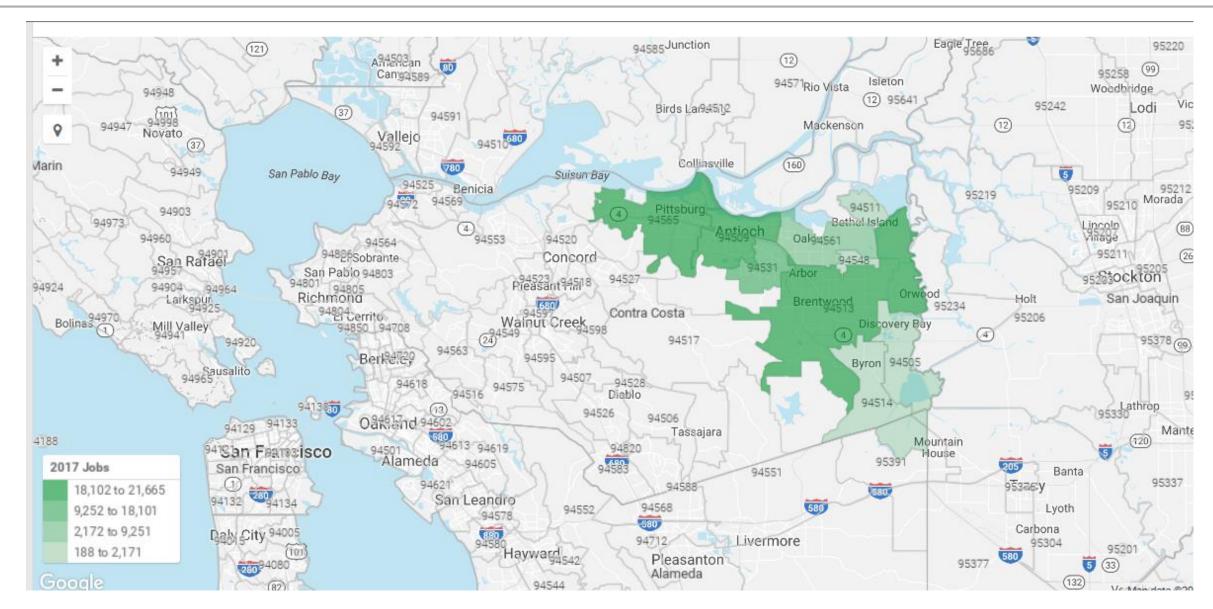
#### Broad labor market trends in our county

A bedroom community that is evolving into an employment cluster

- Highest concentrations in "inward facing" industries: retail, healthcare, government and construction
- Strong economic growth driven, to a large degree, by small businesses (more so than broader Bay Area)
- Growing stronger in renewable energy; logistics; manufacturing; information technology



# A glimpse of labor market trends in the LMC service area





# Largest occupations in LMC's service area

Nursing Assistants		Δ	405	16%	\$15.60
	<ul> <li>Registered Nurses, LPNs, Nursing</li> </ul>	Assista	ant	3%	\$20.31
Hairdressers, Hairs				12%	\$12.30
Preschool Teachers	<ul> <li>Telecommunications Equip and H</li> </ul>	VAC In:	stallers	3%	\$15.96
Dental Assistants Medical Assistants	• •			9% 17%	\$19.41 \$21.40
Licensed Practical • First-line Supervisors and Operating Workers			16%		
First-Line Superviso	inst inte supervisors and operati		ricis	6%	
Heating, Air Conditi	<ul> <li>Radiological and Surgical Technol</li> </ul>	ogist		17%	\$22.44
Manicurists and Pe	Radiological and Surgical Technol	Ogist		9%	\$10.79
			3%		
Massage Therapist	<ul> <li>Truck drivers and logistics special</li> </ul>	ISTS		12%	\$19.16
Dental Hygienists			12%		
Veterinary Technolo	<ul> <li>Hairdressers, Cosmetologist, Mar</li> </ul>	nicurist	S	7%	\$19.26
Telecommunication	Equipment instancis and Repaircis, Except Line instancis	99		22%	
			1	2%	\$19.35
				10%	\$15.20



### LMC's highest volume credentials

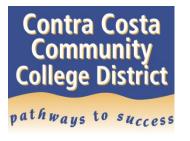
Degree Type	Associate Degree Title
AA	Liberal Arts: Math & Science
AA	Liberal Arts: Behavioral Science & Social Science
AA	Liberal Arts: Arts & Humanities
AAT	Psychology for Transfer
AS	Biological Science
AS	Registered Nursing
AST	Business Administration for Transfer
AST	Administration of Justice for Transfer
AAT	Sociology for Transfer
AAT	Kinesiology for Transfer

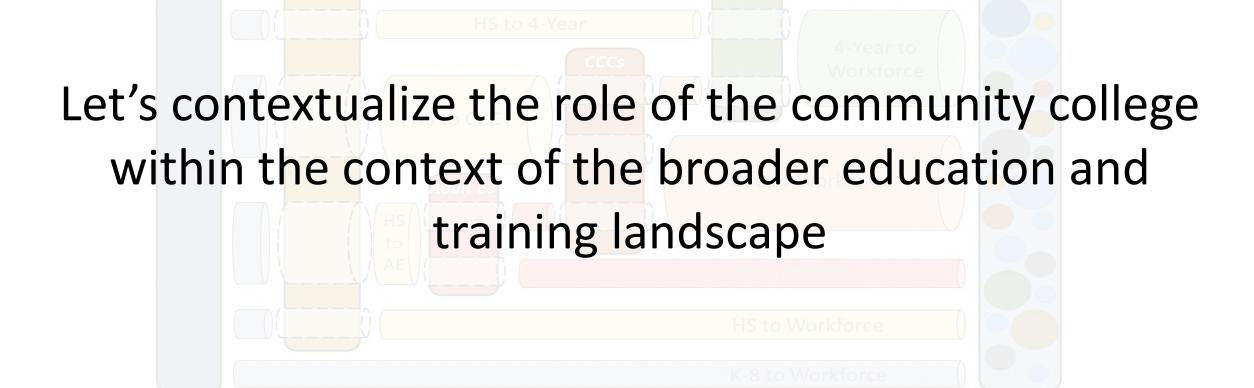
Account for 85% of degree's awarded at LMC

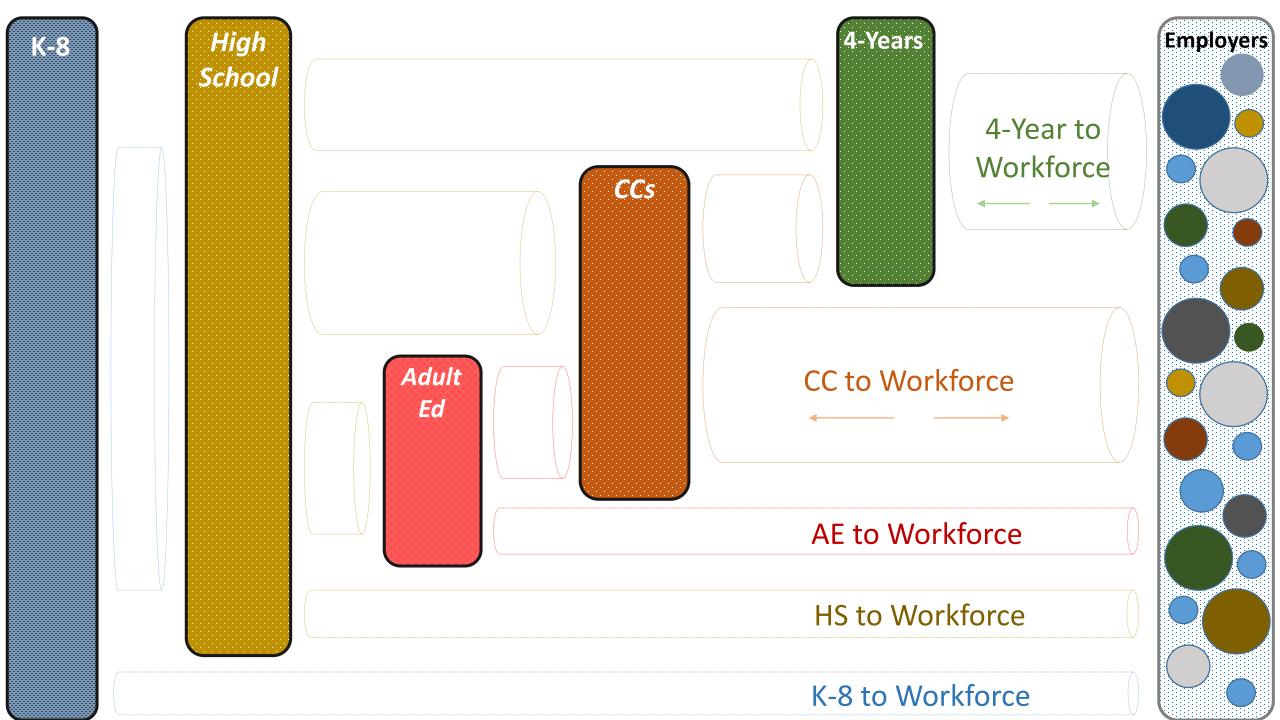
#### Account for 80% of certificate's awarded at LMC

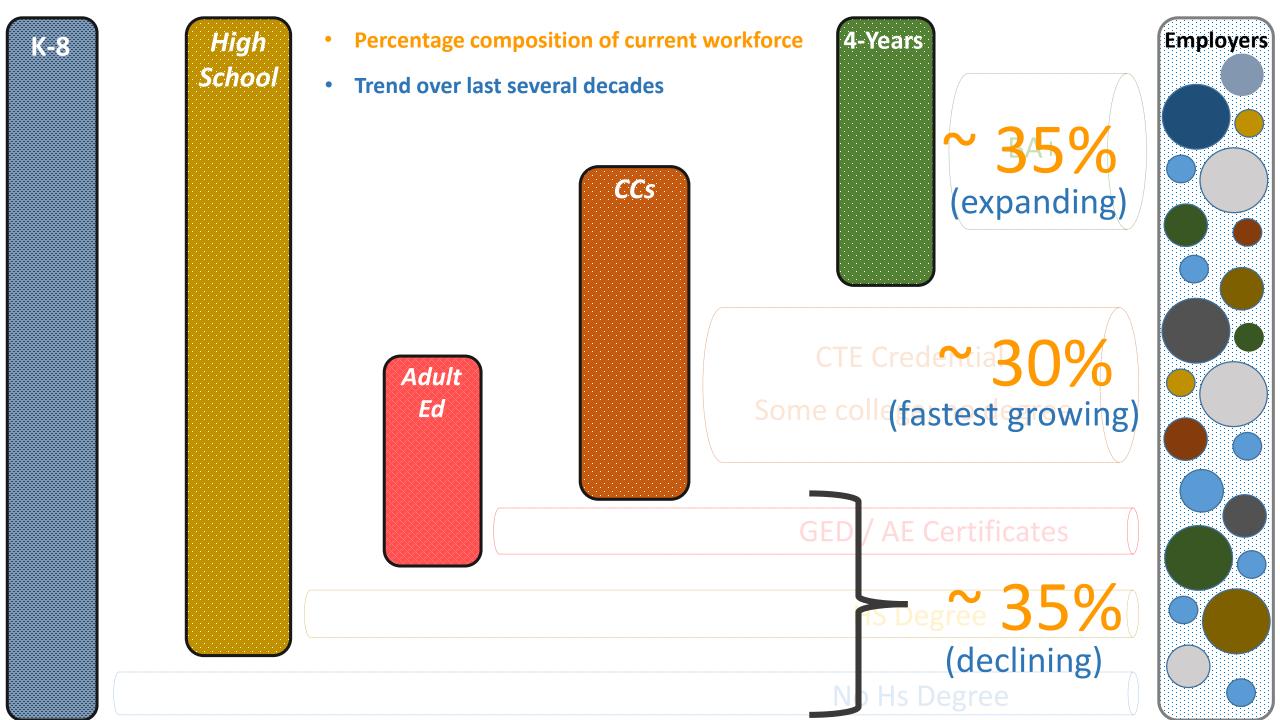
# Chapter 2

- Demographic, workforce and enrollment trends
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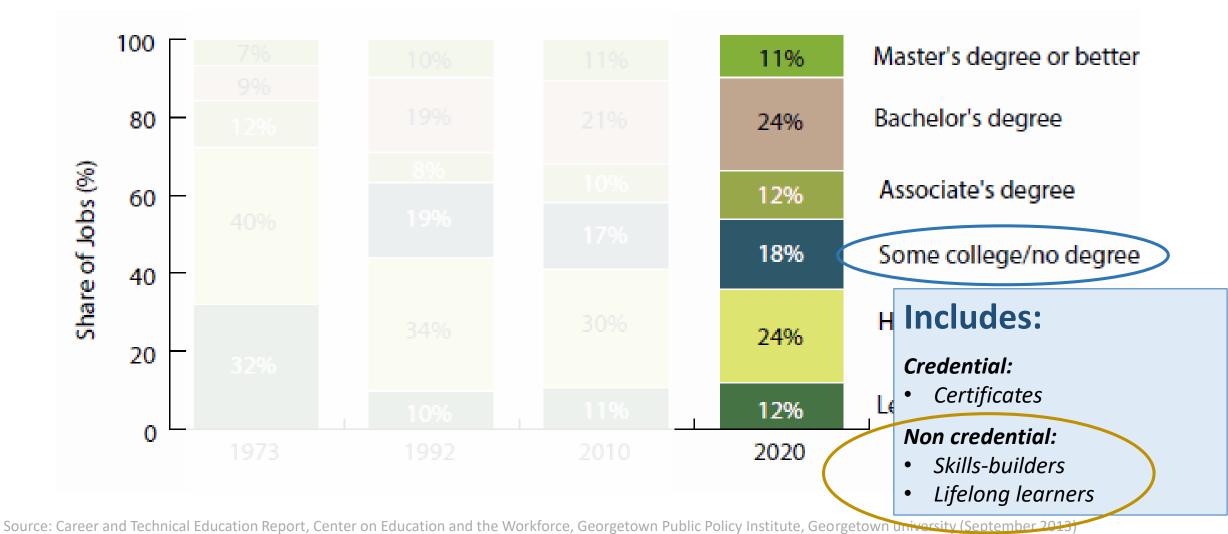








# The evolving needs of employers



# Key take away #1

 The community college pipeline is becoming more important to employers (both the credentialed and non-credentialed)



# That's the landscape. Let's move to a discussion on emerging trends



# Workforce Education and Career Pathways Trends

**Trend #1**: Workforce development taking on a higher priority; ever larger investments

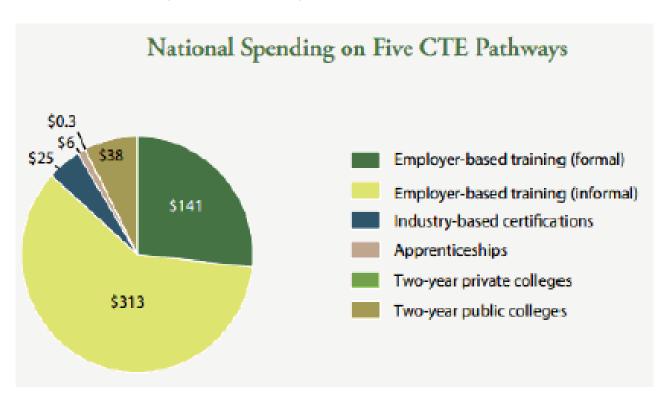
**Trend #2**: Jobs are becoming increasingly specialized and requiring ongoing training

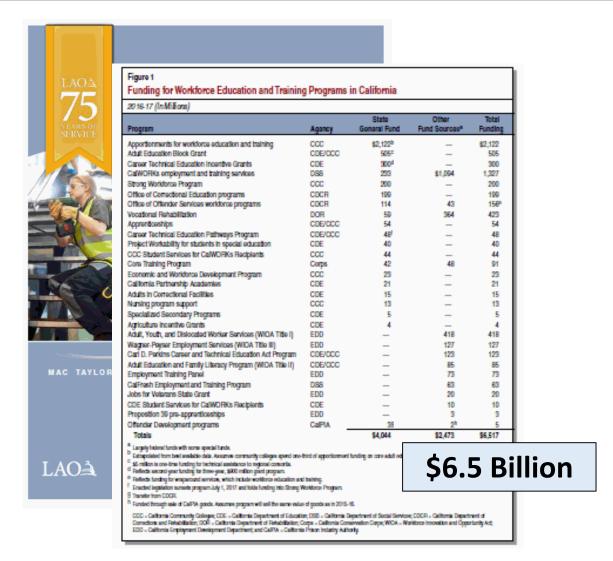
**Trend #3**: Employers and students asking for systemic change from higher education



# We make large annual investments in human capital

# \$ 524 billion annually on CTE pathways nationwide



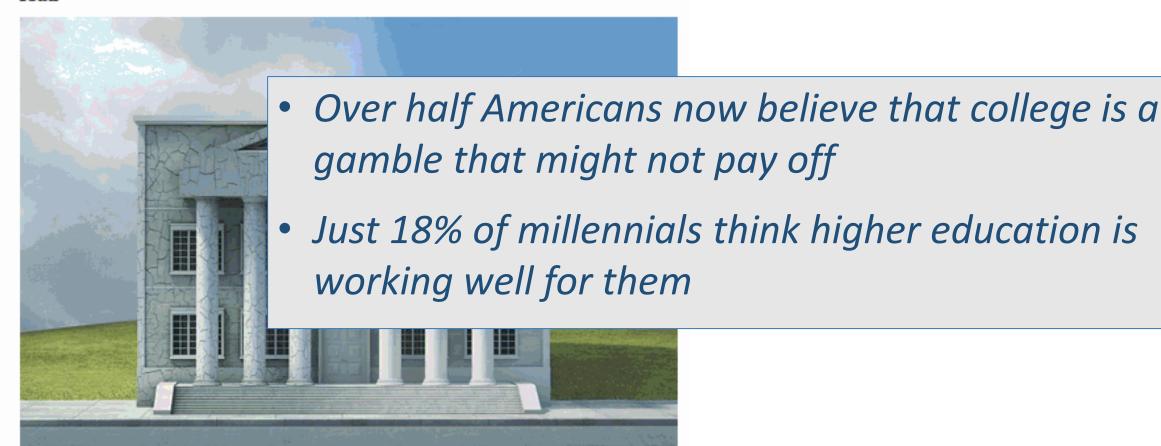




# Yet public satisfaction with higher education waning

#### **Crisis of Confidence Threatens Colleges**

Rising costs test families' faith, while 1 in 3 presidents see academe on wrong road



Randy Lyhus for The Chronicle



# Community college reputation better for now

#### THE CHRONICLE OF HIGHER EDUCATION

#### People Esteem Community Colleges but Question How Well Higher Ed Serves Students

By Eric Kelderman | MAY 1

he American pub students, accord nonpartisan thin to be successful

is "fine just the way it is."

"80% of those surveyed agree that community colleges contribute to a strong workforce, are worth their cost and prepare people to succeed"

RELATED CONTENT

Higher Education in America: a Crisis of Confidence

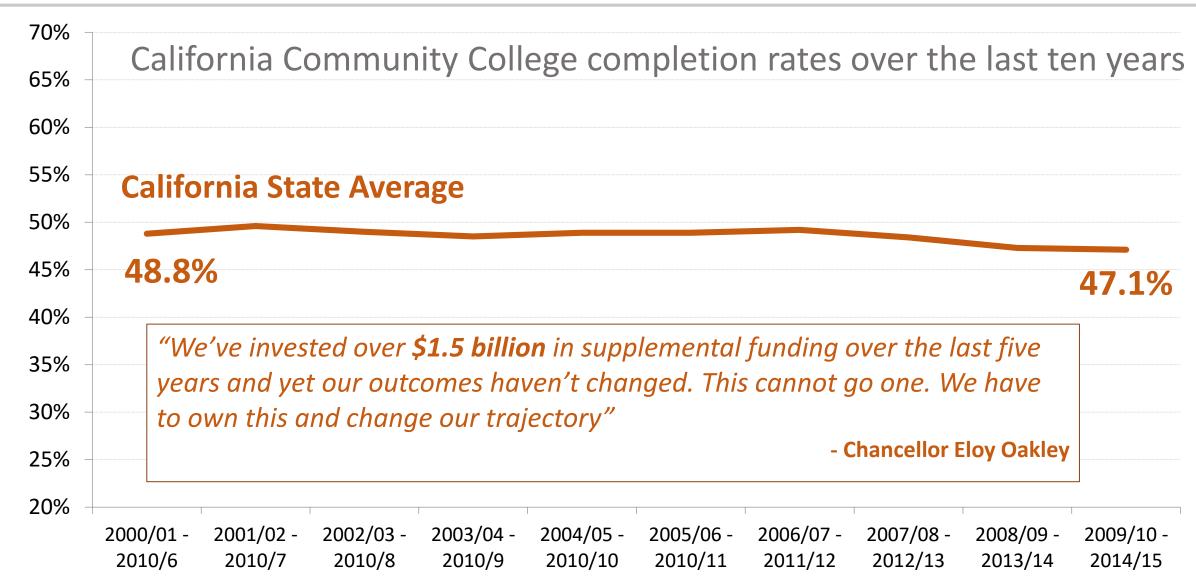
What Americans Think About Higher Education

... - TT-1J D--:---- 17:---

But within the results are several positive signs for academe, including a relatively glowing picture of community colleges:
At least 80 percent of those who answered the poll said that community colleges contribute to a strong work force, are



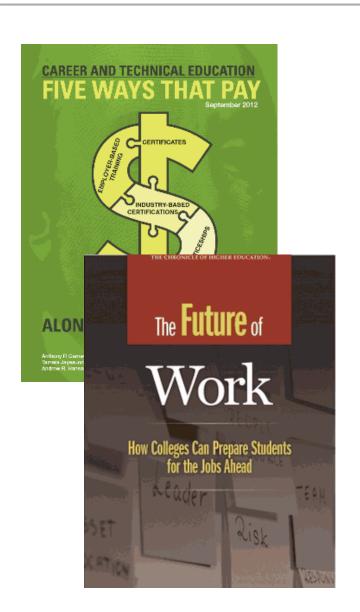
### Accountability challenge: Investments up; trends remain flat



# Key take away #2

 Investments in workforce education are large and growing while the public and policy makers are asking for results





We've examined the landscape and the public and policy demands placed on us, now let's turn our attention to what employers and students are asking of us



# More specialization. More programs of study.

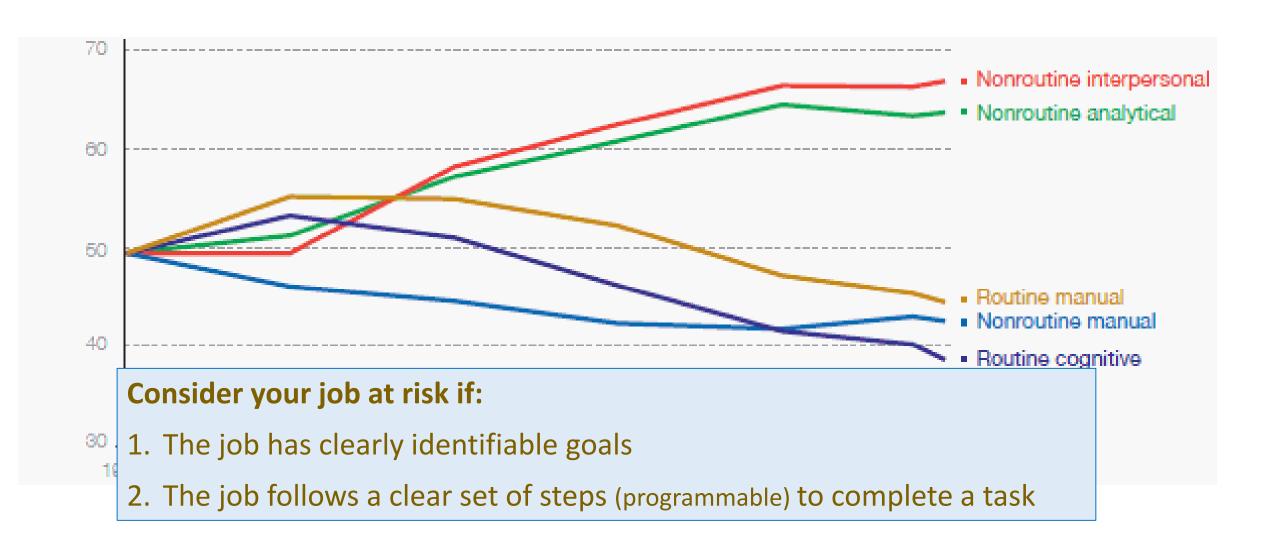
#### Between 1970 and 2010 the American economy saw:

- The number of occupations grew from 270 to 1,000+
- The number of colleges and universities more than doubled from 1,850 to 4,720
- The number of postsecondary programs of study grow from 410 to 2,260

 Between 2000 and 2017 the number of certificate and degree programs at 4CD grew from 189 to 402\*



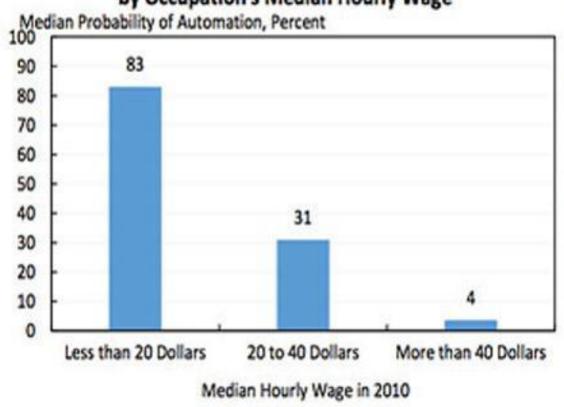
#### Industry is placing greater emphasis on higher order skills





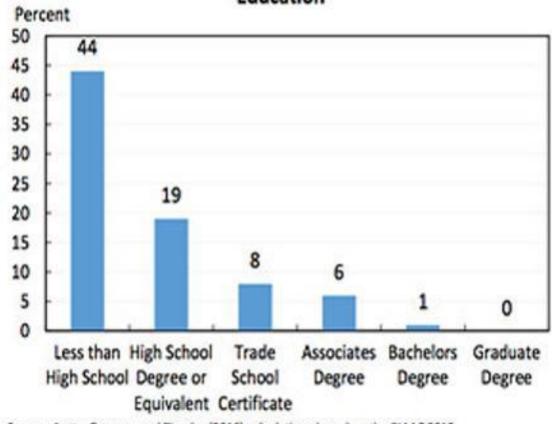
# The jobs most at risk: low skill, low pay

Figure 3a: Share of Jobs with High Probability of Automation, by Occupation's Median Hourly Wage



Source: Bureau of Labor Statistics; Frey and Osborne (2013); CEA calculations.

Figure 3b: Share of Jobs with Highly Automatable Skills, by Education



Source: Arntz, Gregory, and Zierahn (2016) calculations based on the PIAAC 2012.



# What are employers telling us?

In survey after survey employers are saying the technical skills aren't the problem. We *desperately* need our new recruits to:

- communicate better (verbally and in written form)
- think critically and collaboratively
- be creative in solving problems
- be resilient and push through setbacks



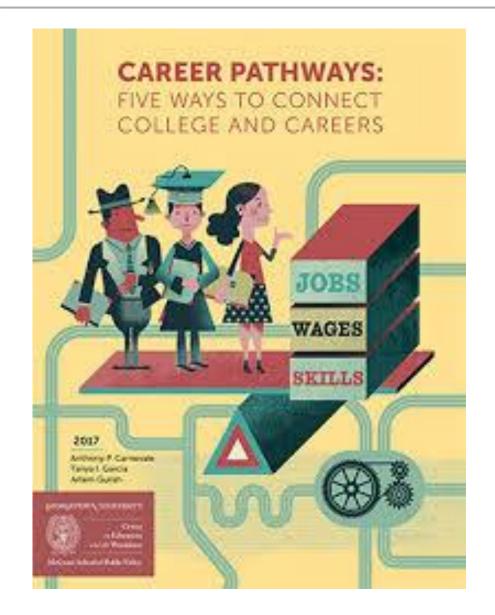
# The millennials are also asking for change

By 2025 millennials will comprise 75% of the workforce

- In a 2016 survey those most unsatisfied with higher education today: Millennials (78% somewhat or very unsatisfied)
- Asking for programs that are:
  - shorter in duration
  - more frequently offered
  - more focused in coverage
  - directly connecting them to employers



# Bringing students and employers together



"Today's ecosystem of post secondary credential is complex, fragmented and multilayered and presents significant challenges to learners, employers and policymakers"



# Key take away #3

Both employers and students are asking for change

**Employers**: more higher order skills

**Students**: more flexible/adaptive programs

Both: help us find each other

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Condensed summary

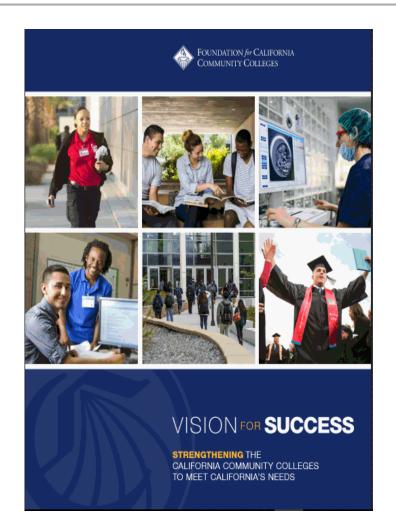


More investment is leading to more accountability while students and employers also want change.

Let's see how we are responding at the state level and here in the East Bay



# California policy makers are responding



Vision for Success: <a href="https://foundationccc.org/Vision-for-Success">https://foundationccc.org/Vision-for-Success</a>

Career Education: <a href="http://careered.ccco.edu/video-library/">http://careered.ccco.edu/video-library/</a>

# A New Vision for Success

Career Education

General Education

Pointing us toward a confluence of two previously separate strategies



# Guided Pathways (launched 2017)



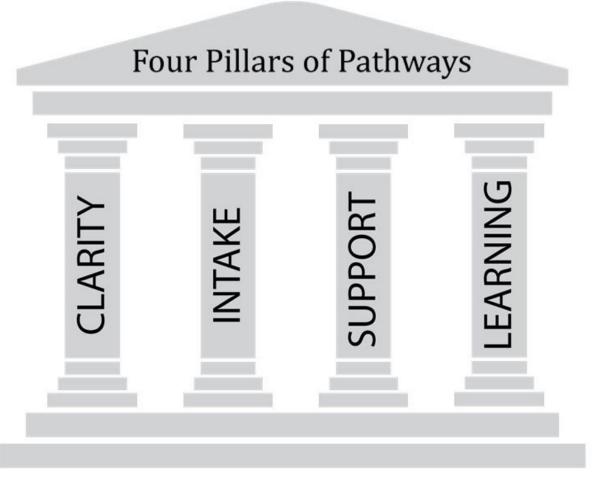
#### **Traditional approach:**

The cafeteria college offers and promotes courses

#### The Pathways approach:

Coherent pathways to employment or transfer for all students

#### **GUIDED PATHWAYS**



# Chapter 4

- Demographic, workforce and enrollment trends
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Condensed summary



### We've leveraged federal, state and local resources to:



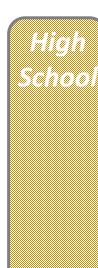
- Building a robust network of upstream and downstream partnerships
- Align our programs with labor market demand

- Establish curriculum alignment with workforce requirements
  - Improved counseling and services to help students start, persist in & complete programs
- Building data monitoring systems that track students from entry to labor market outcomes



# Example Workforce Strategies at 4CD Include:

- Strong Workforce Program Enhancing Career Education programs & partnerships to better meet the needs of students and employers in the region
- K-14 Pathways Building more systematic connections with K-12, to help more young students enter, persist and complete community college programs
- Adult Education Consortium Strengthening relationships with Adult Schools, to help more adults with barriers enter, persist and complete community college programs
- Earn & Learn East Bay Coordinating communications with employers among college, K-12 and workforce partners, to reduce employer fatigue and increase engagement



4CD-led workforce investments in the East Bay

High school pipeline to community colleges

~ \$2 Million

Adulti Ed

Adult Ed pipeline to community colleges

~ \$900K

Community Colleges

Community College pipeline to the workforce

~ \$4 Million

Brokering & skill needs assessment

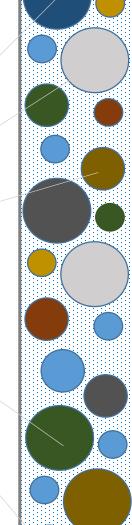
Earn & Learn East Bay

\$400K

CTE
Technical
Incentive
Grant

**Workforce Board** 

**WIOA Slingshot** 

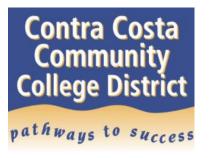


**Employers** 



# Condensed summary

- Demographic and economic trends provide some direction
- Employers and students asking for change/help
- The state is responding with new strategies
- 4CD has built a strong foundation in the East Bay and a statewide reputation for excellence
- And we're continuing to invest in programs that address the needs of both students and employers



# LMC Flex Day: Game of Plans

# Autumn is coming...

August 9, 2017
Gregory M Stoup
Interim Associate Vice Chancellor of Educational Service