



# LARC FACULTY INNOVATION HUB LAUNCH

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*Fall Summit*



# Agenda

01

## Opening, Welcome & Hub Summit Result

9:00 AM – 9:10 AM

06

## New CAN Update: Cosmetology

10:30 AM – 10:40 AM

02

## Setting the Stage for the Innovation Hub

9:10 AM – 9:30 AM

07

## After the Storm: The Jobs & Skills That Will Drive the Post-Pandemic Recovery

10:40 AM – 11:00 AM

03

## Keynote: The Importance of the Faculty Innovation Hub for the CCLA19 Region

*Dr. Scroggins, CEO, Mt. SAC*

9:30 AM – 9:50 AM

08

## Break

11:00 AM – 11:15 AM

04

## Announcement: LARC Chancellor's Regional Request

*Salvatrice Cummo, Executive Director, Economic and Workforce Development, PCC*

9:50 AM – 10:00 AM

09

## Faculty Small Group Discussions

11:15 AM – 12:35 PM

05

## HUB Updates: Steering Committee & Allied Health

10:00 AM – 10:30AM

10

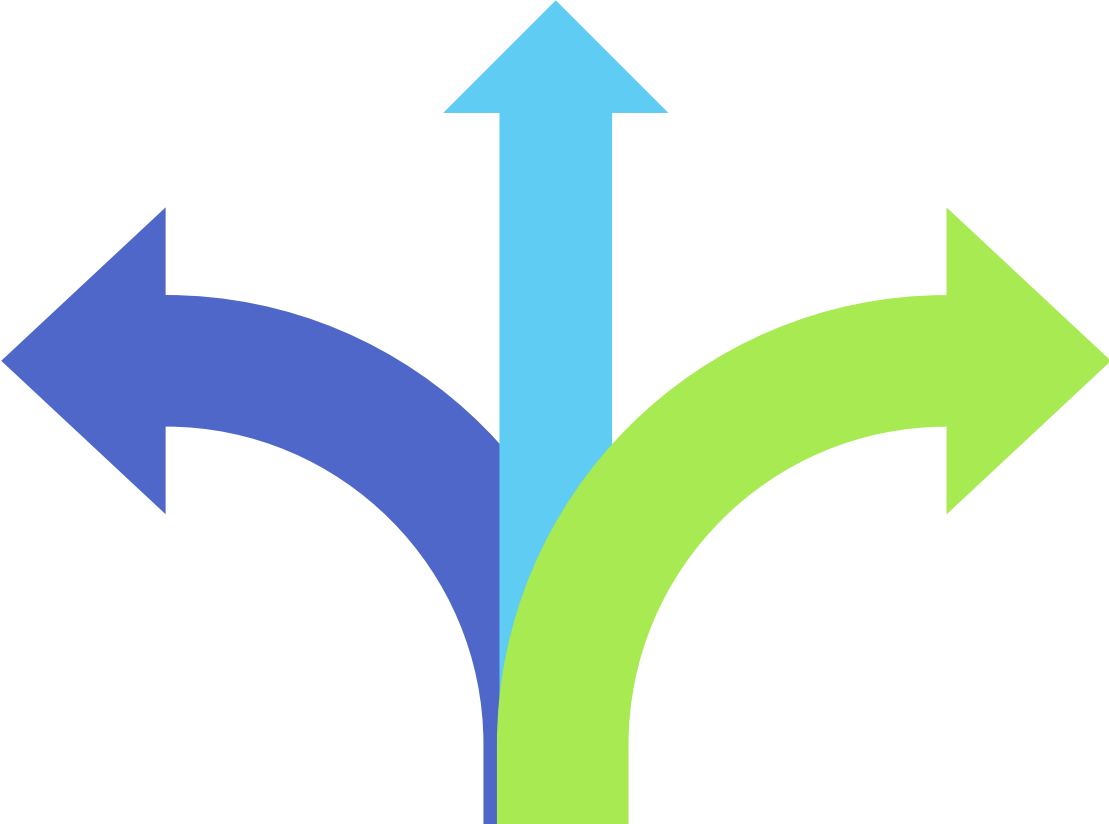
## Outro

12:35 PM – 12:45 PM

# Today's Summit Results

Introduce new data and thinking: *"The jobs and skills that will drive the post-pandemic recovery."*

Learn about the 5 New Economies (Remote, Logistics, Automated, Readiness, and Green) and brainstorm with other faculty the implications for your disciplines, and how this can inform and prioritize regional Innovation Hub curriculum projects.



Inform attendees of the strategic role of the Faculty Innovation HUB within the new LARC, and what the results have been to date.

Initial conversation and strategic thinking to inform potential curriculum projects 2022-2023  
Potentially driven by 5 New Economies.



# SETTING THE STAGE


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Mike Murphy  
BrandIQ

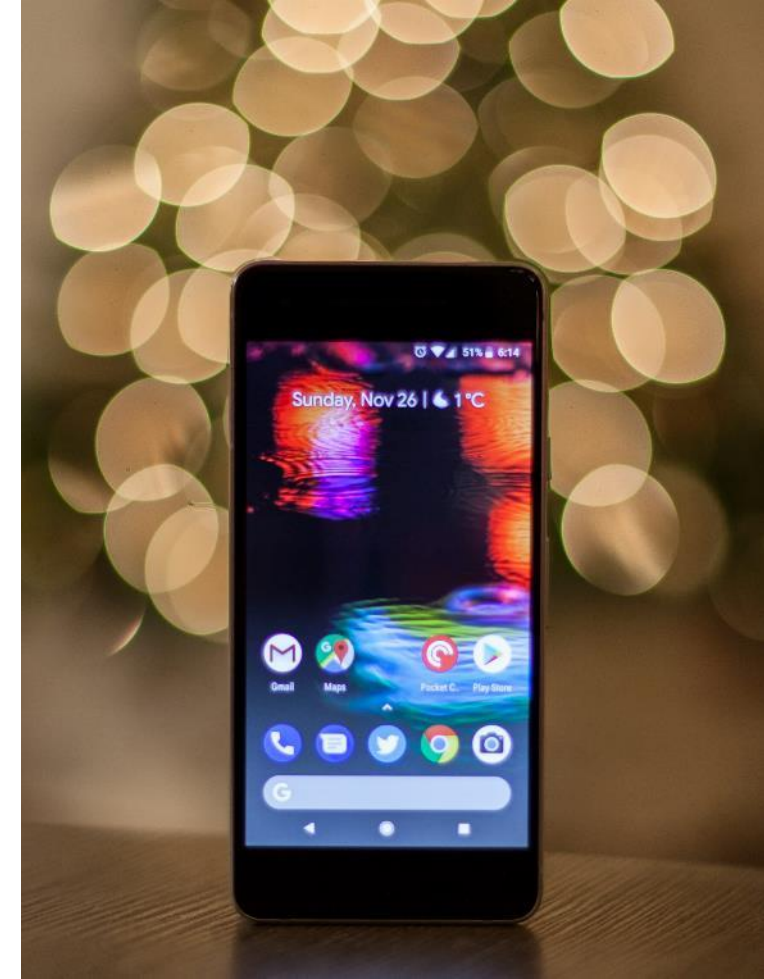
Convener, Facilitator, Innovation Partner



# The world has changed, but have we?

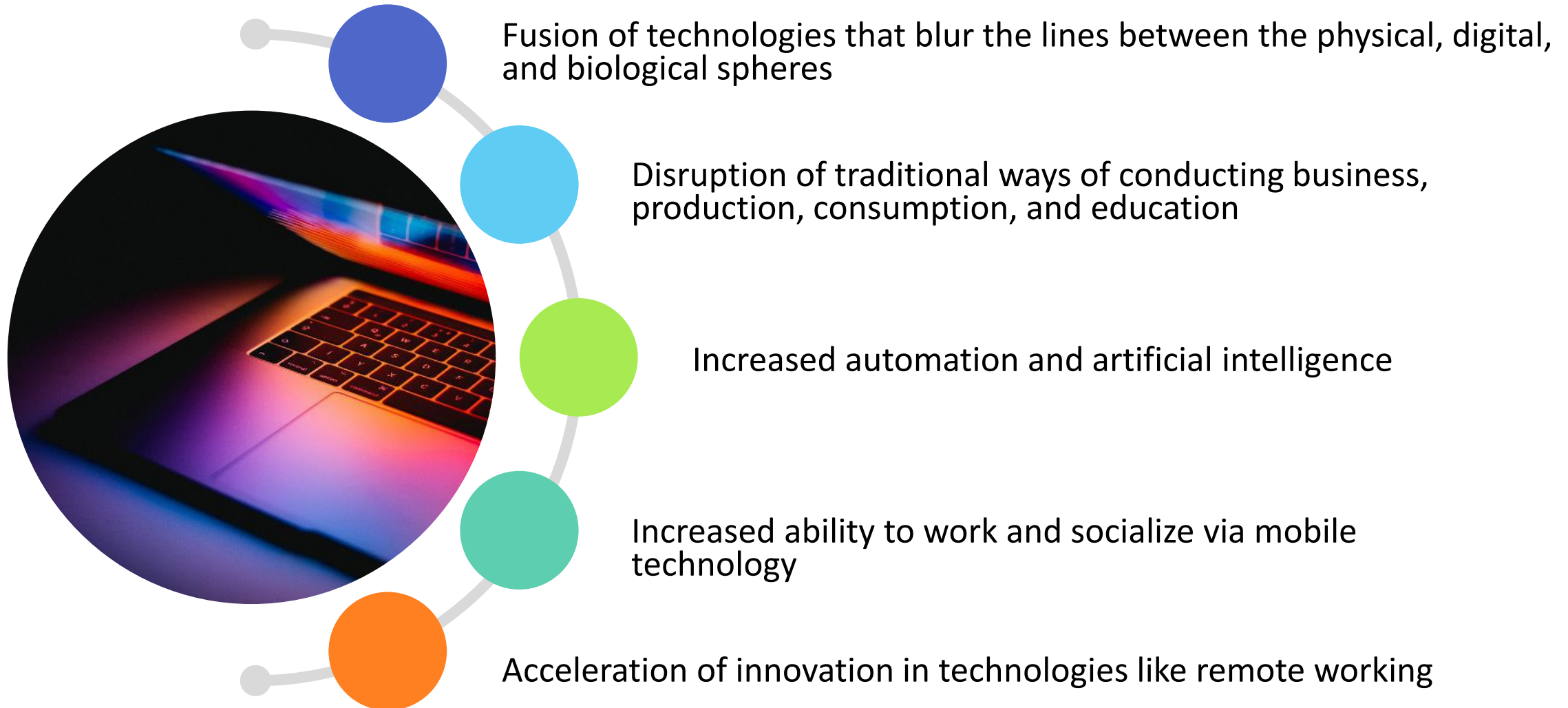


As technological leaps revolutionize the job market and communication,  
**the educational system should keep up with these changes to teach the relevant skills the labor market requires**



# We have entered the 4th Industrial Revolution, which has disrupted industry and education

*The 4th industrial revolution is characterized by:*



There is a need to up-skill/re-skill workers to keep up with evolving technologies, even all of us!



Inequality represents the greatest societal concern associated with the 4th Industrial Revolution



There is a rising gap in wealth between those dependent on capital, versus dependent on labor



There is a need for highly skilled workers for “new collar jobs”



This requires us to work differently with industry  
We must co-create with employers to design curriculum and bring changing, real-world experiences to students



01

Technology continues to disrupt,  
and no industry is safe

02

Employees and employers face an  
urgent need to be proactive about  
skilling for the future

03

Go beyond employer advisory council roles:  
partner with employers for curriculum co-  
creation and work-based learning

04

Students will have access to "up-  
to-date" tools, making them more  
competitive in the labor market

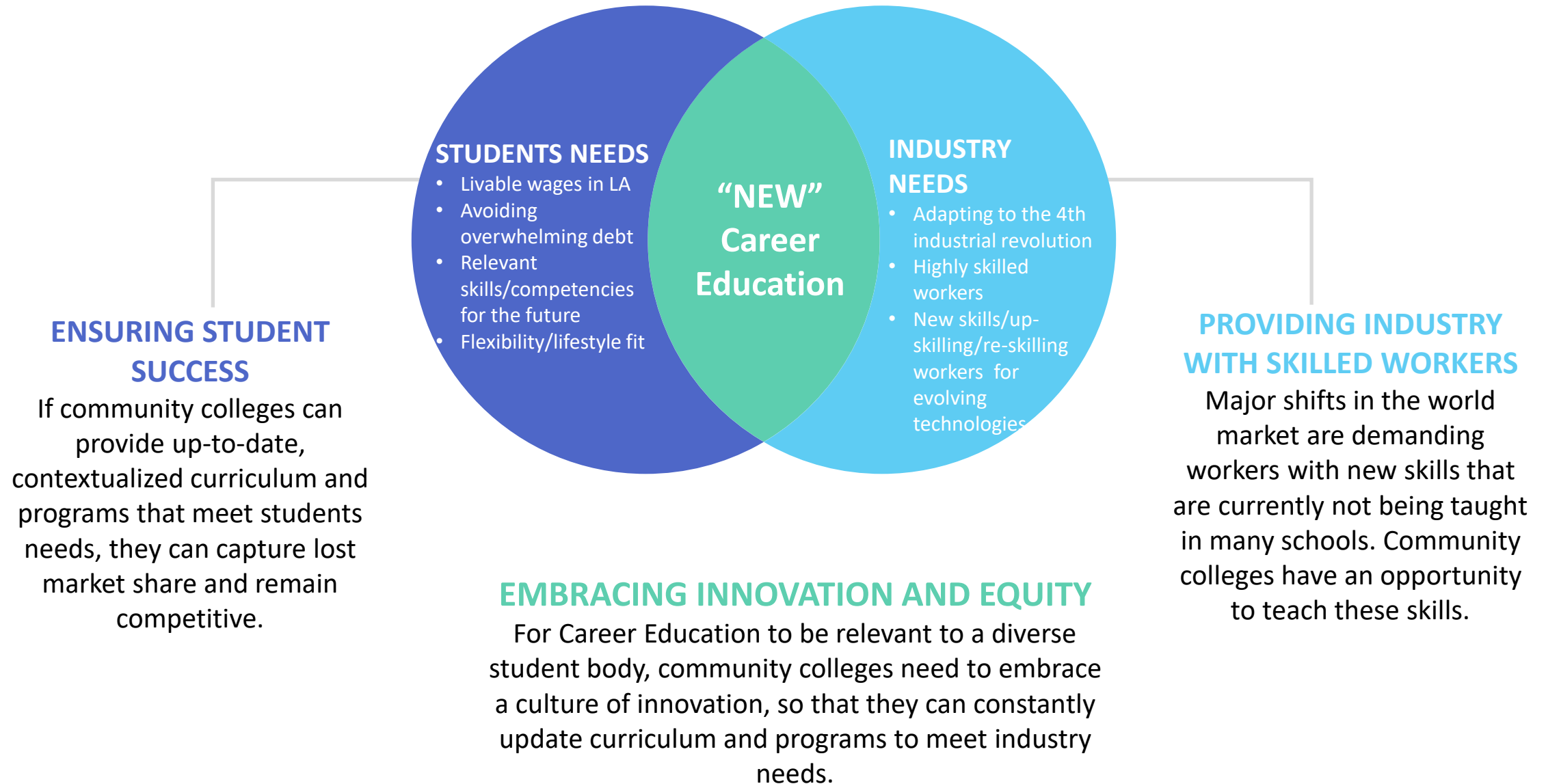
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Many CE programs do this to varying  
degrees, but these practices need to  
be improved and accelerated

*.....and should include  
"applied" General Education  
disciplines/curriculum*

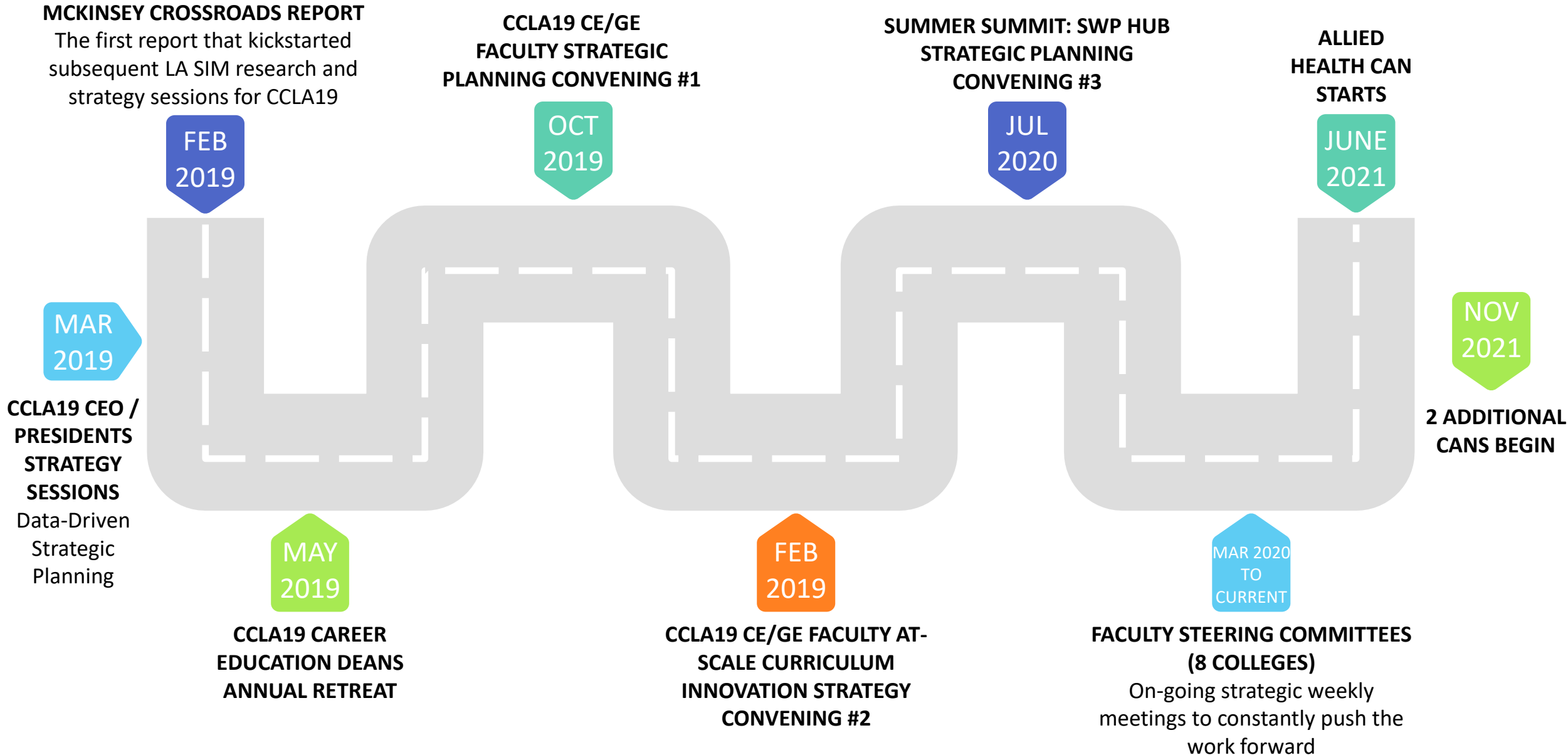


# Faculty Curriculum Innovation Hub Can Lead!



# How did this SWP project come about?

*15 LA colleges  
created it!*



# The CCLA19 Academic Resource and Professional Development Innovation Hub

*Provide a 'space' for:*



Regional acceleration of the delivery of career education programs and faculty professional development



CE/GE cross-college/cross-discipline collaboration, sharing best practices and innovations for “at-scale” curriculum projects in “co-creation” with Los Angeles regional employers



COMMUNITY COLLEGES  
OF LOS ANGELES

Cerritos College

Los Angeles Pierce College

Citrus College

Los Angeles Southwest College

Compton College

Los Angeles Trade Tech College

East Los Angeles College

Los Angeles Valley College

El Camino College

Mount San Antonio College

Glendale Community College

Pasadena City College

Long Beach City College

Rio Hondo College

Los Angeles City College

Santa Monica College

Los Angeles Harbor College

West Los Angeles College

Los Angeles Mission College



***Keynote:***

The Importance of the Faculty  
Innovation Hub in helping the  
Los Angeles region achieve its  
goals

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**Dr. William (Bill)  
T. Scroggins**  
*Mt. SAC President and CEO*

*Announcement:*

LARC  
Chancellor's  
Regional Request

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**Salvatrice Cummo**

*Executive Director, Economic and Workforce  
Development, PCC*

# INNOVATION HUB STEERING COMMITTEE UPDATE

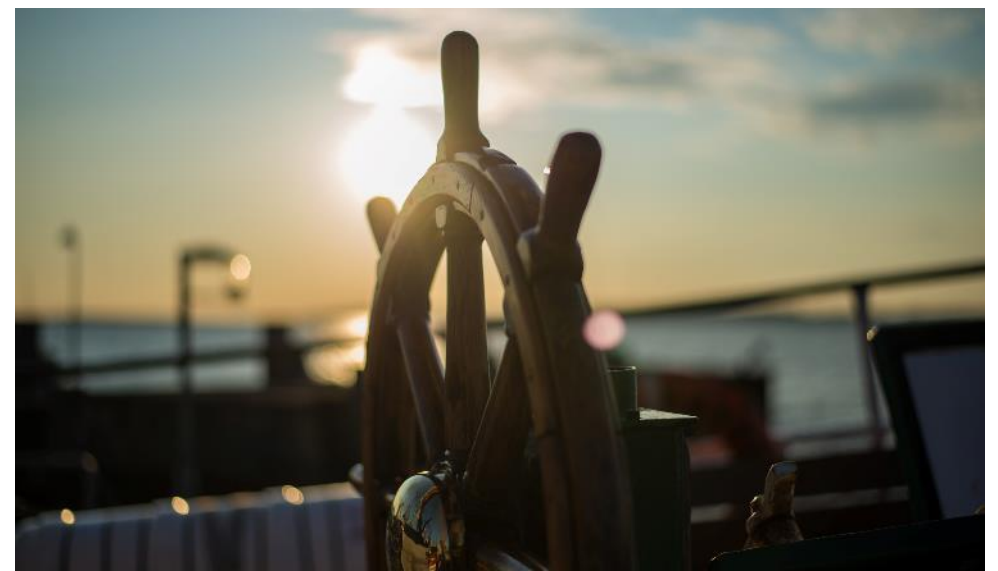
**Sal Veas**

SMC Business Chair

**Lance Heard**

Mt SAC Administration of Justice Professor, Department Co-  
Chair, Public Safety Programs

At-Large Representative, Academic Senate for California Community  
Colleges (ASCCC)



# Faculty Top 3 Goals/Priorities



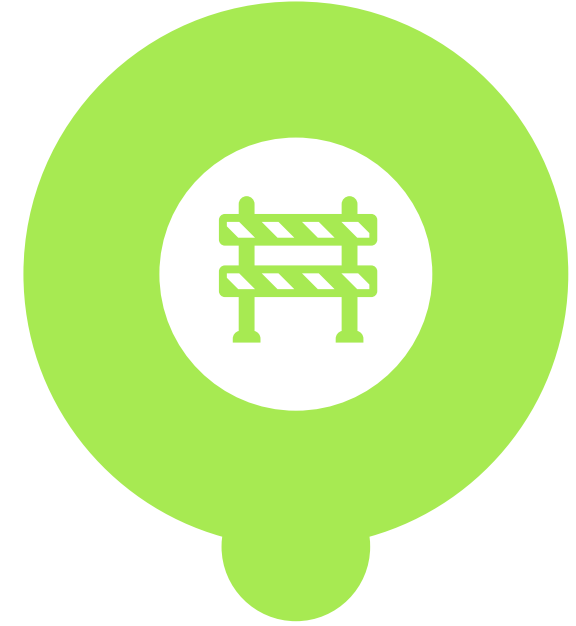
## **Invest & support faculty that want to innovate**

Create Time, Space and Framework For Collaborative regional 'At-Scale' Innovation To Happen in high growth, middle-skill occupations



## **Effective teaching practice coursework**

Professional Development beyond local flex time, to Improve Teaching Practices



## **Solving innovation barriers**

Employer Engagement Co-Creation to meet their needs  
*Enrollment, completion, stackable skills, work-based learning, pathways into middle-skill level jobs*

**Systems change with respect to workforce development refers to efforts and initiatives that go beyond providing direct services to individual jobseekers and aim to transform how organizations effectively support employers and the workforce, especially in high growth, high demand, higher wage jobs.**

## GOVERNANCE & ROLES

Created Steering Committee Guiding Principles, Roles & Governance Structure.

## COMMUNICATION STRATEGY

Co-created Communication Strategy for CAN creation.

## ASCCC

Acquired ASCCC Support Resolution 21.01 (Lance Heard, MT SAC, ASCCC Exec. Council).

## EMPLOYER ENGAGEMENT

Brainstormed ideas for employer engagement for LARC consortium RFA response (increasing student employment outcomes & work-based learning).

## ORANGE COUNTY

Gained commitment in Orange County from four colleges (Goldenwest, Saddleback, Coastline, NOCE) to plan an OC Faculty Retreat.

## HUB OPERATING GUIDELINES

Co-created Hub Operating Guidelines.

## NEW FUNDING SOURCES

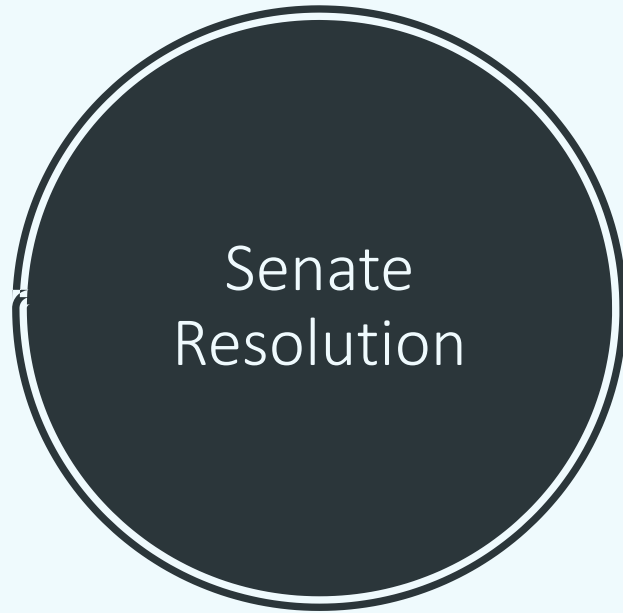
Conducted funding sources analysis of 125 California foundations & determined top 12 foundations for potential Innovation Hub financial partnerships.

**Innovation Hub  
Steering  
Committee  
Results**

## HUB FALL SUMMIT

Planned Fall 2021 Summit content.





# Collaborate with Regional Consortia

Spring  
2021

**Resolution Number:**

21.01

**Contact:**

[Christy Coobatis](#)

**Category:**

Career Technical Education

Resolved, That the Academic Senate for California Community Colleges collaborate with the regional consortia and the state and regional directors to empower and engage regional faculty leaders by working with the faculty leaders on regional boards, providing professional learning for career technical education faculty, sharing and developing new and emerging curriculum, and discussing how to streamline curriculum processes to move at the speed of industry and business so that students can be prepared for the jobs of tomorrow.

# Timing and Making it All Work



# Guiding Principles/Values: Steering Committee

**The whole is greater than the sum of its parts.**

1

The steering committee unites CE/GE faculty in a structured, collaborative framework that inspires other faculty.

2

The steering committee should be recognized as a direct connection (liaison) to local Senates about academic and professional matters (10+1) to improve primacy in curriculum.

- How will the Deans use what is created?
  - Managing the interaction between Deans and faculty to ensure and inspire primacy



# Role of Steering Committee

1

## REGIONAL PRIORITY RESULTS

Established as the only organized LARC CE/GE cross-discipline, cross college faculty group representing all 19 colleges, that meet regularly to support regional strategic priority results

2

## HUB-SUPPORTED PROJECTS

This body performs the function of assessing Hub supported curriculum projects. Once assessed, the projects are recommended for development in cooperation with the steering committee and sustained by ongoing steering committee coordination.

3

## ADVOCATES FOR HUB

Committee members individually and collectively serve as advocates for the Hub and share new LARC Innovation Hub curriculum development frameworks and other important Hub resources/outcomes locally at colleges in the region

4

## GUIDANCE ON GRANTS

The committee provides guidance on assigned grants to ensure results are achieved

5

## DESIGN INPUT

Provide design input into faculty retreats and regional faculty summits which serve as professional development for local faculty cohorts

6

## SECURE FUNDING

The committee helps secure financial support from multiple funding sources

7

## MAINTAINING WORKFLOW

The committee fills essential roles and functions, as a standing regional faculty committee, to maintain effective work-flow by serving as Co-creators of operating plan for CANS, communication strategies for CAN Recruitment, retreats, convenings and other ad-hoc meetings and workshops

8

## ENSURING LEGACY

The committee serves to fulfill one vision of the Hub by establishing a framework so that it may Collaborate with SWP projects to ensure legacy of projects get leveraged across the region.



# ALLIED HEALTH UPDATE

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**Monica Thurston**

ELAC Allied Health Chair

Program Director, Health Information Technology, Health Occupations  
Medical Assistant, Pharmacy Technology and Non-credit Allied Health  
Programs

**Dr. Dorothy Hendrix**

ELAC Allied Health Department  
Health Information Technology Program



# Allied Health CAN Member Colleges



Dr. Linda Thierry  
Dr. Shirley Thomas



Cheri Allmond



Monica Thurston  
Dr. Dorothy Hendrix



Aracely Molina



Venus Soriano



Representing county  
employer



Health Services  
LOS ANGELES COUNTY

24 facilities

Rafael Nava  
Joel Morgan



Reyna Hernandez  
Liselda Fabian

52 facilities

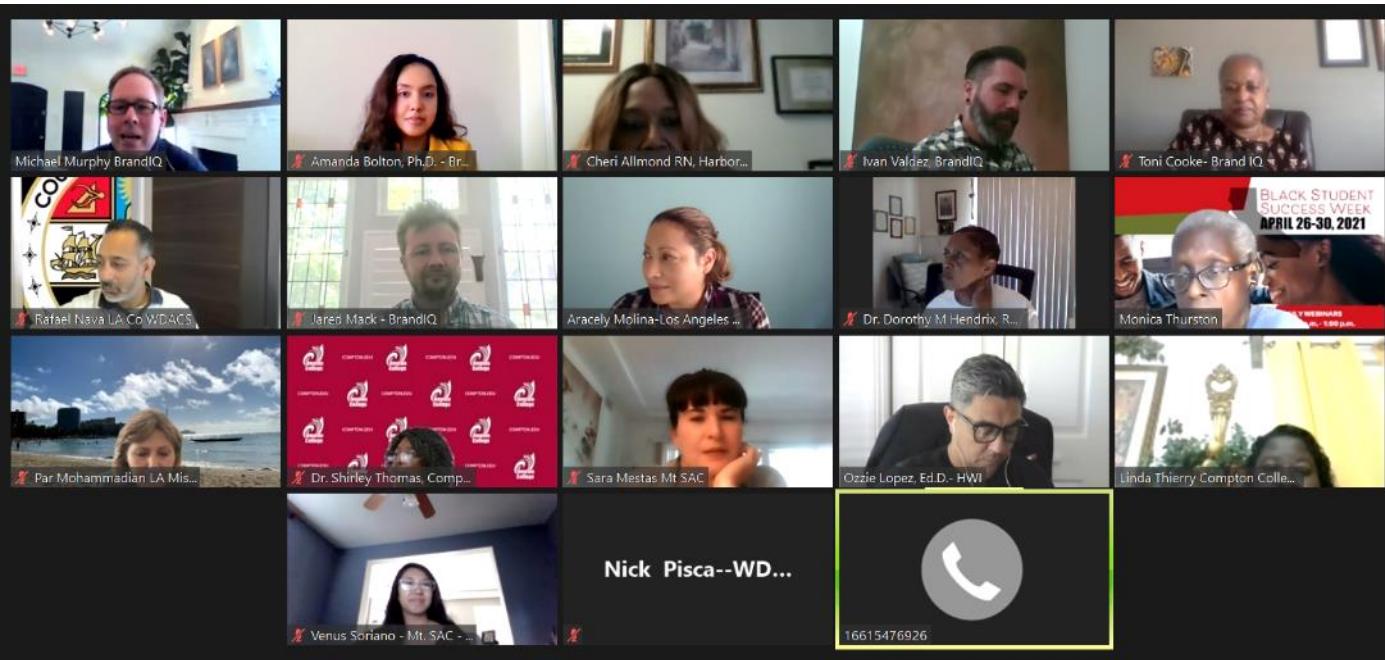


Cory Benz  
Gabriel Newman



Cristiany Villasenor  
Joel Moreno  
Simi Sihota

# Value of Allied Health CAN



The Non-Credit CNA/Allied Health Career Ladders Reimagination Working Group was a **direct response to the shortage of first-line healthcare workers in the Los Angeles area.**

This is particularly crucial in addressing **the negative impacts of COVID-19** on California regional populations.

The Certificate of Completion Program will help to build a **healthcare-centric regional workforce** and demonstrate the value of hands-on skill development/in-person instruction.

# Initial Results for Allied Health CAN (June-Sept)

1

Gained members from 5 colleges: ELAC, Mission, LAHC, Compton, and Mt SAC.

5

Formulated a sub-committee to carry out short-term curriculum results to be completed in 90 days.

2

**Secured large employer partners:** LA County DHS (24 facilities incl. 3 hospitals), AltaMed (52 facilities), Arosa, Maxim Healthcare (could be 500+ jobs).

6

Created a results statement of what the CAN plans to accomplish.

3

Completed 7th CAN meeting on September 29th (2x/month cadence) with employer partners at each one.

7

Developed plan to get to RESULT. Identified tasks, urgent priority areas, and resources needed to achieve result.

4

CNA Non-Credit Phase 1; Allied Health Career Ladders Reimagination Phase 2

8

New potential partner for solving Insurance barrier for dual enrollment students (minors)



# Allied Health Results Statement



Develop and implement a CNA program as an entry point to a successful career and educational pathway in healthcare.

***Curriculum begins  
Fall 2022***



The program will be recognized and expand beyond the career model throughout the state of California, nationally and globally.



The program will accomplish this by working together collaboratively to promote effective outcomes (*complete program, certificate, employment, and a livable wage*) and mastering transferable skills.

# Mapped Plan Phase 1

Result  
Timing

Now

Soon (Within 7 months)

Later (9 months out or later)

Sept

Oct

Nov

Dec

Jan '22

Feb '22

Mar '22

Apr '22

May '22

June '22

High

Labor market data to determine projected jobs

Short-term curriculum requirements (sub-committee)

Create a bridge from CNA to Home Health Aid

Professional liability insurance requirements

Finding business/facility partners/advisory committee

Satellite locations to increase accessibility

Faculty must be hired for this & meets a certain level of quality and professionalism

Outreach to students & community

Area competition

Success rate measurements

Examine faculty to student ratios at each college

Medium

Low



# COSMETOLOGY CAN UPDATE

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**Charlene Brewer Smith**  
ECC, Cosmetology Professor

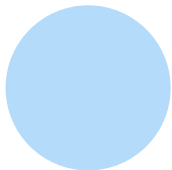
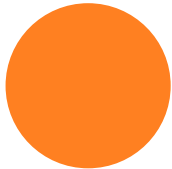

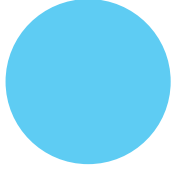
**Debbie Perret**  
SMC Cosmetology Chair

**Maria Morrish**  
Citrus Cosmetology Professor

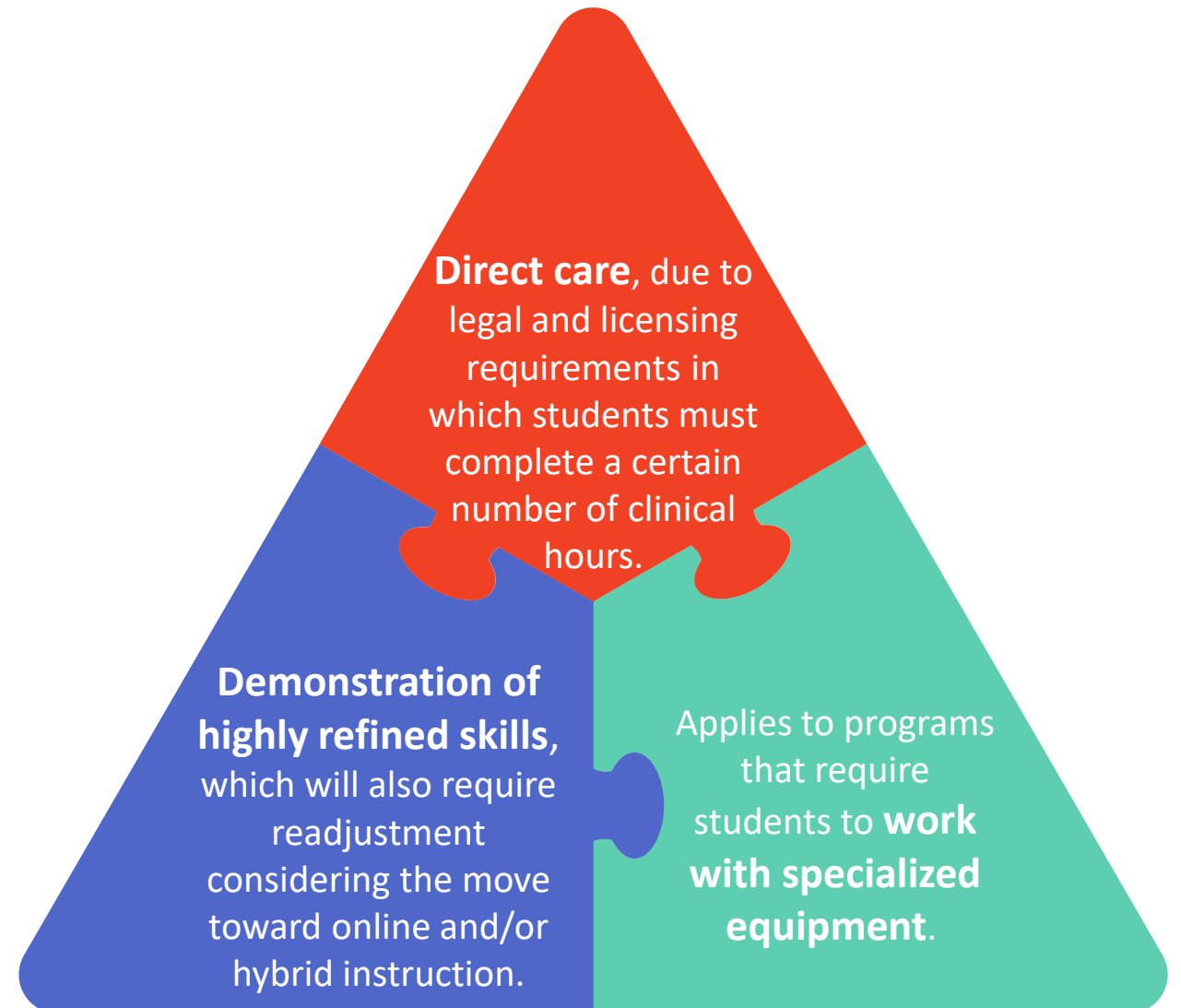


# Cosmetology CAN (working group)

**Recent global events have changed the way career education (CE) is delivered**

-  This presents an opportunity to better meet the needs of employers
-  To infuse technology into programs that may not otherwise be clear candidates for innovation
-  To ensure the decisions that community colleges in LA Region are student centric
-  To assist the Los Angeles/Orange County community colleges in adjusting to new health and safety requirements prompted by the pandemic

## 3 Focuses



# Cosmetology CAN Core Participating Colleges



Debbie Perret



Scott Botma



Maria Fischer



Richard Allen



Rossi Petrova



Charlene Smith



Sean Moore

# What Will The Cosmetology CAN Be Doing?

**SPEARHEAD**

**1**

Spearhead the creation of solutions to the six regional CTE hard-to-convert recommendations.

**CREATE**

**2**

Create an informal space for faculty to collaborate and agree on the adoption of software and simulation technologies.

**PLAN**

**3**

Plan for curriculum portability, shared course content access, access to appropriate WBL Professional Development.

**CULL**

**4**

Cull customized kits to meet all or part of the hands-on lab experience for students.

**EXAMINE**

**5**

Examine possibilities for a formal feedback loop among faculty, students, and employers.

# AFTER THE STORM

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*The Jobs and Skills That Will Drive  
The Post-Pandemic Recovery*

**Dr. Amanda Bolton**  
Senior Strategist, BrandIQ



# Five Distinct Fields Will Shape The Post-Pandemic Recovery

## THE LOGISTICS ECONOMY

Supply chains failed under sudden new demands of pandemic.

Will be growth in **advanced logistic skills, advanced manufacturing, and Internet of Things** will become more critical to creating efficient & resilient chains.

## THE READINESS ECONOMY

Pandemic has shown weaknesses in health care, cybersecurity, insurance & other fields that provide social resilience.

Roles like **cybersecurity experts, software engineers, patient care, project managers and other organizers of work** will be in demand.

## THE AUTOMATED ECONOMY

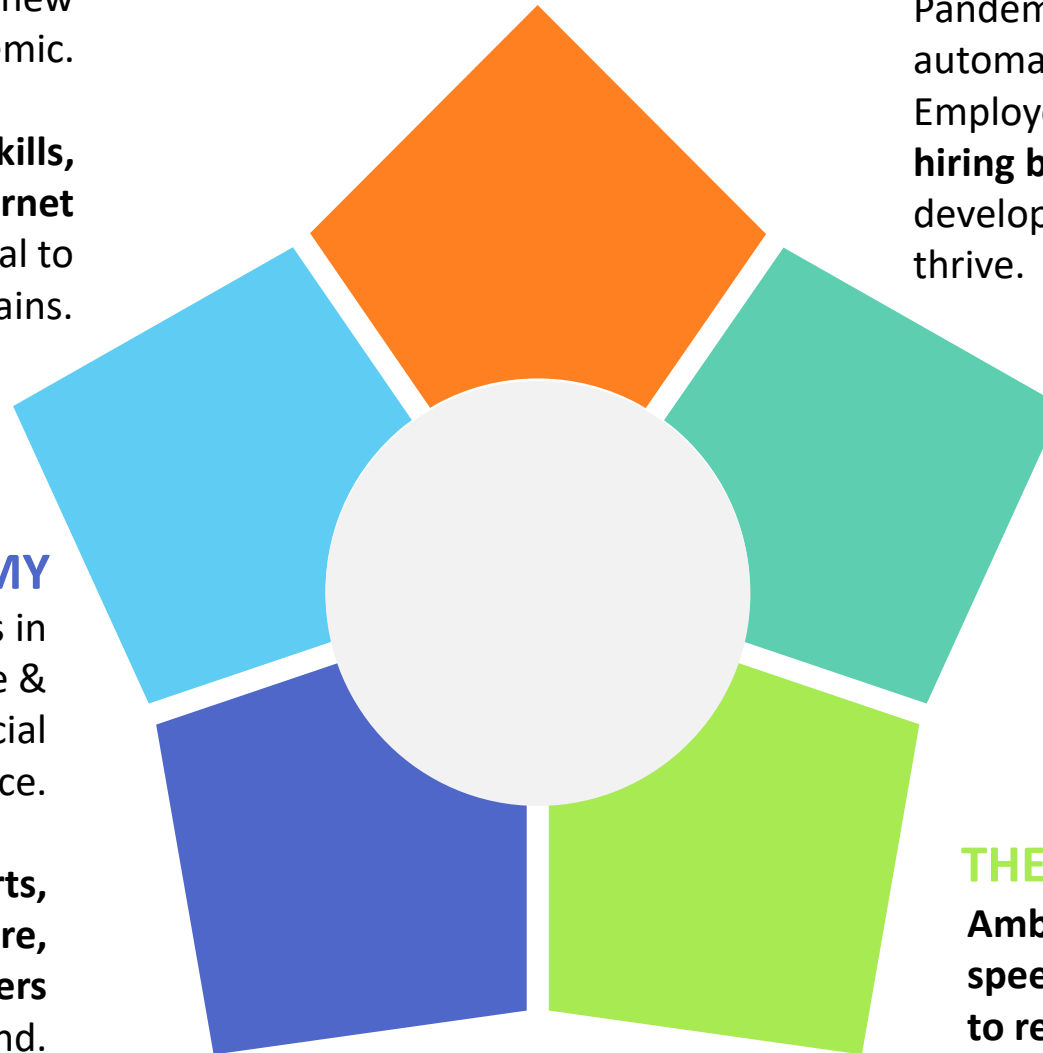
Pandemic will likely accelerate adoption of automation & artificial intelligence. Employers will prioritize **automation over hiring back low-value workers**. Jobs developing—and driving—automation will thrive.

## THE REMOTE ECONOMY

Shift to remote work forced by pandemic likely to be permanent. **Dependence on data, software, and networks will drive change**, while eventually artificial and virtual reality will play a larger role.

## THE GREEN ECONOMY

**Ambitious climate goals & incentives speeding up Nation's energy system to renewables.**





# Burning Glass - Key Takeaways

1

## NEW JOBS CREATED

These roles are projected to account for 15.5 million to **18 million new jobs** created over the next five years.

4

## PROPORTION OF ALL JOBS

These five growth economies will come to comprise **one in six jobs** by 2026 (16%).

2

## FRACTIONS OF LABOR MARKET

These jobs represent **significant fractions of the labor market**: currently 13% of demand and 10% of employment.

5

## PAY

These jobs pay well, with the **median salary** for all five economies at roughly \$59,000 per year, **34% above the national median**.

3

## GROWTH

Jobs in these new “economies” are projected to **grow at almost double the rate** of the job market overall (15% vs. 8%).

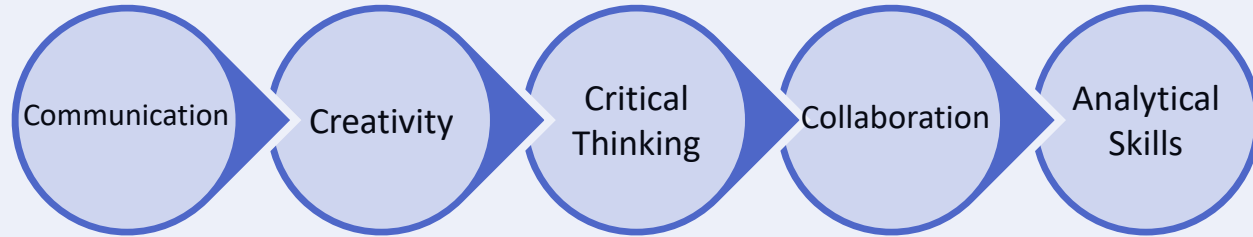
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## VERSUS OVERALL ECONOMY

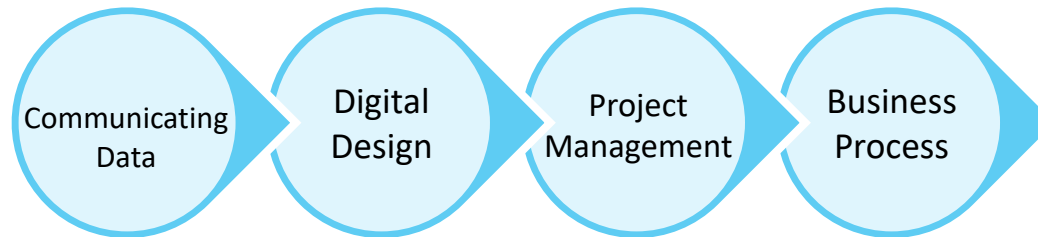
**Growth in these economies outperformed the overall economy** at the height of COVID-19. Between March and September 2020, job postings in these economies were up 11% even as the overall market fell -12%.

# 14 Foundational Skills Key for All Graduates

## HUMAN SKILLS



## BUSINESS ENABLERS



## DIGITAL BUILDING BLOCKS



# Implications



Government financial aid can be structured to **encourage working learners to pick up individual skills as needed**, rather than drop out of the workforce to gain a degree.

By leveraging the skills likely to drive the recovery, policy can encourage faster, more equitable growth.

Shortages of key skills can create bottlenecks that can slow a recovery.

If employers see these skill demands on the horizon, they can both create more effective talent pipeline externally and internally, preparing their workforces to switch to new and promising technologies.

We have a higher education system that is still primarily focused on providing degrees to traditional students.

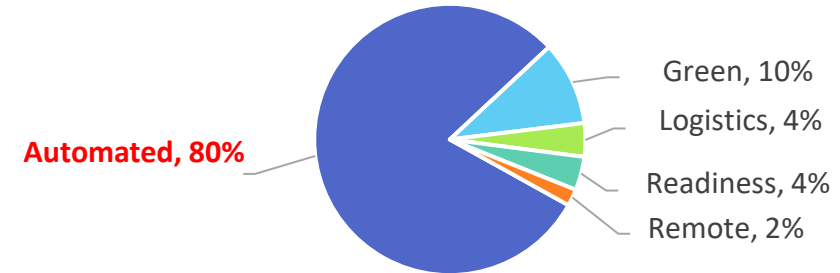
**A more flexible, bite-sized approach could give community colleges the chance to broaden its base and meet the needs of these new economies.**

## 25%

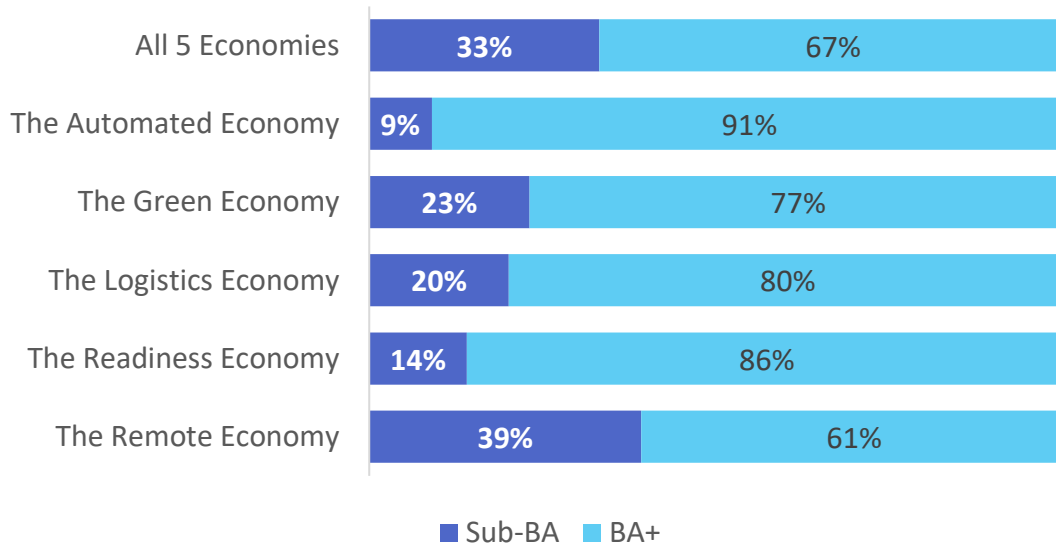
of online job postings in LA County were within one of the five Recovery Economies

(260,628 of 1,037,378 online job postings in 2020)

% of postings by Economy



**156,914 (60%) of these postings required a *minimum education level***



## Top Skills Shared by ALL Recovery Economies

- ✓ Customer service (57,672 postings)
- ✓ Sales (51,077 postings)
- ✓ Scheduling (41,079 postings)
- ✓ Budgeting (28,880)

# OUTRO

Dr. Amanda Bolton

## Next Steps

- The slides from today will be emailed to each of you next week
- If you are interested in playing a more active role in the Innovation Hub, please reach out to BrandIQ, [abolton@brandiq.biz](mailto:abolton@brandiq.biz)
- Advocate for the Faculty Innovation Hub at your college
- CAN working groups – Allied Health and Cosmetology will be receiving communication from BrandIQ next week.
- Next Retreat – Winter 2022, Desert





# LARC Faculty Innovation Hub: Summary

11/18/2021

# *The Jobs and Skills That Will Drive The Post-Pandemic Recovery*



## **Green Economy**

Sustainability  
Architecture &  
Interior Design



## **Readiness Economy**

Public Health (e.g.,  
contact tracing)



## **Logistics Economy**

Programming



## **Remote Economy**

Work-from-Home  
Flexibility



## **Automated Economy**

A.I.  
Predictive/Big Data  
Programming  
Robotics

# Implications for Center of Education

- Nationally recognized **industry-specific certifications** or badges to help in career progression
- Position students for **career readiness**, not just transfer; demonstrate value to employers even without B.A./B.S.
  - Industry-relevant technical skills AND soft skills (e.g., communication, language studies, etc.)
  - CC can meet the increasing demand of residents who wish to upskill
  - Work with **Employer Partners** to discern specific skill sets
  - What does **Stackability** look like?
  - Data Literacy across all pathways
- Increase understanding of CE's role
- Flexibility
  - Leveraging Guided Pathway Clusters
  - **Break down Credit -vs- Non-Credit barriers**
- Bridge connection between High-Touch & Automation



# Faculty Questions for the COE

How do we tie curriculum to 5 New Economies?  
What are the Foundational Skills?

Can CC support the advanced training the 5 New Economies require?

How do we train soft skills?

How do we produce novel solutions around accounting, team teaching, and internal competition for resources?

How many jobs and age groups are needed?

# Faculty Questions for the COE



Given the Great Resignation, where are people going? What do they wish to learn?



What jobs are there for community college students? Are they appealing?



Who is getting hired? Can funding be better secured if we can track employment?



Could Automation apply to any industry?

# Necessary KSAOs

- Emotional Intelligence
- Active Listening
- Empathy & Compassion
- Plain Language & Relatability
- Customer Service & Retention
- Basic Coding Skills
- Financial Skills
- Resume-creation
- Maintenance of Psychological & Physical Well-Being



# The role of LARC WEDD & Faculty Innovation Hub

- Lead projects
- Bringing people together with **Purpose**
- Giving Faculty Members a voice
- Space for **Collaboration**
  - Integrating empathy into collaborative efforts & translating that into classrooms
  - Pool together all the colleges
  - Showcase work, faculty and employer discussions
- Grants for seed money. (i.e., **Good Jobs Challenge**)
- Secure **large regional employers**
  - Changing employers' minds of what a community college student can do for them
- **Internship Clearing House**

# Initial Curriculum Project Ideas

## Creating Pre-designed Modules on Specific Topics/Soft Skills (e.g., empathy)

- Applicable to all industries
- All colleges could use them
- Faculty & Students could collaborate
- Pull in GE faculty to integrate into soft skills modules

## Partner with Industry already in the space

- No need to reinvent the wheel
- Define it more on what we are doing
- Assess needs & suggestions for improvement
- How to use industry products for specific needs

Appendix -

5 New economies Discussion Deep Dives

What 5 New Economy Areas and sub-occupational areas are most relevant to the 19 LA community colleges?

- **Green Economy: Architecture & Interior Design, Sustainability**
- **Readiness Economy: Public Health – Contact Tracing**

## Exercise 1

### GROUP: AMANDA

What are some implications for CE?

- Least prepared in Automated Economy
- **Have not bridged connection b/t high touch & automated**; need to figure out how high touch plays into automation
- **Could help in readiness economy to help students be more prepared to launch, engage with companies & get jobs**
- **Need for nationally recognized industry specific certifications** and/or badges that can help get jobs or further career
- Students will need to be positioned for careers (as opposed to be positioned for transferred) because that's what is done in CE
- **Reposition students as of value to employers, even if job doesn't require BA**
- **CE programs need to create technical skills that employers are looking for**
- **Concerned that there will not be support/funding for other industries not included in the 5 New Economy Areas.** There are legacy technologies that programs are built on.
- Lack of understanding of CE. CE at the heart of the diversity initiative.

What are the questions you have as faculty for the COE as they continue to analyze the data?

- **Who is getting hired and how can we track those students?** Can we get a better way to track employment? How can we track entrepreneurship across trades since they don't get tracked with EDD data?
  - Can secure more funding if students are tracked better
- **What jobs are there for community college students?** Recovery areas are so broad, hard to determine where their students can fit in. **Difficult to translate the economies into something the student would want/appealing to student.**
- **Automation could apply to any industry.** Need to be more specific.

## Exercise 2-GROUP: AMANDA

What could the role of the LARC WEDD & Faculty Innovation Hub be? What might be good places to focus?

BA+ and Sub BA-what are the skills needed?

- CE students at community colleges will not just be technical experts but will have broader appreciation/understanding of context (creation of a more well-rounded student)
- **Communication:** Being able to articulate yourself, sell your ideas, communicate what you are doing especially if we are working remotely
- **Customer service:** Have to be able to land & keep customer, learning how to evaluate customer/client, assessing their needs, how will you move forward with providing service of what they will need
  - **Emotional intelligence, listening skills, empathy/compassion, plain language** when relating to people
- **Basic coding skills**
- **Financial skills:** When you make money, what do you do with it? Understand what to charge, what overhead is. Knowing how to make money
- **Legalities/OSHA** of different industries/quality control
- **Maintaining physical & mental health**

- **To lead projects**
- **Giving faculty members a voice**
- **Space for collaboration integrating empathy into collaborative efforts & translating that into classrooms**

Any ideas for initial curriculum projects? (opportunity areas)

- **Creating pre-designed modules on specific topics/soft skills** (e.g., empathy). Could be applicable to all industries. All colleges could use them.
  - Faculty & students could collaborate
  - Can pull in GE faculty to integrate into soft skills modules
- **Partner with industry that is already in the space.** Don't need to reinvent the wheel. Define it more on what we are doing, assess needs, suggestions for improvement. How to use industry products for specific needs.



## Exercise 1 - GROUP: IVAN

What 5 New Economy Areas and sub-occupational areas are most relevant to the 19 LA community colleges?

- **Logistics and Remote:** already offered at C.C. so can be low hanging fruit
- **Anything with A.I.** – predictive data; recognize trends with a lot of data
- **Green** – will continue to grow; to sustain as a business you need to be more green

What are some implications for CE?

- Some people don't know the foundation of learning; CC can teach them the foundation
- We need to steer away from transfer and get them into the workforce
- People are coming back to CC to upskill but also to fill in the gaps/fill in the blanks
- For language studies, people come back to CC to brush up in a language or make themselves more marketable
- Students and teachers don't know what the jobs of tomorrow are; but we do need to teach soft skill; soft skills are embedded in language classes
- A lot of students don't have communication skills: rude, on phone all the time, etc
- Online courses create accessibility to education/upskilling
- CTE course do teach soft skills in classes
- Adding the human element in courses teaches important soft skills

What are the questions you have as faculty for the COE as they continue to analyze the data?

- How many jobs, and age groups, are needed: **age data will help us**
- “The Great Resignation” – people like working remotely now; people don't want to commute to work/go to school now that they can from home – people are quitting jobs because they don't want to go back to a place of employment: **Where are they going to go? What do they want to learn?**
- The 5 economies seem like advanced training; more than Community College training

## Exercise 2-GROUP: IVAN

BA+ and Sub BA-what are the skills needed?

- **Soft Skills!** – C.C. can teach soft skills before transferring. C.C. can teach soft skills
- -Going the traditional path doesn't teach you how to write a resume
- C.C. has the ability to tell student there are different options for them

What could the role of the LARC WEDD & Faculty Innovation Hub be? What might be good places to focus?

[INSERT TEXT HERE]

Any ideas for initial curriculum projects?  
(opportunity areas)

[INSERT TEXT HERE]

## Exercise 1 - GROUP: MIKE

What 5 New Economy Areas and sub-occupational areas are most relevant to the 19 LA community colleges?

[INSERT TEXT HERE]

Logistics – Amazon buying property near Mt SAC

Infrastructure - the development of the Alameda corridor, rail, road along the 710

Programming, Robotics, Common Degree – “Automation” – Everything Connected to Logistics.

New BA's in New economies if not present at CSU's. New Pathways and partnerships with employers.

8-14 Colleges have Engineering

What are some implications for CE?

[INSERT TEXT HERE]

Flexibility – to move seamlessly designing core skill sets to move more NIMBLY into other pathways (leverage Guided Pathways clusters)

Work with Employer partners to know what those skill sets are

Leverage and Lean into Non-Credit for this and transition to credit when appropriate. Break down the barriers between credit and non-credit faculty and have collaborative conversations (think ESL)

Data across ALL industries - What is stackability? ---Data literacy in EVERY PATHWAY – Future Soft Skill; Microsoft Office Suite too!

## Exercise 1 - GROUP: MIKE

What are the questions you have as faculty for the COE as they continue to analyze the data?

COE data often does not connect directly to the disciplines. Then how do you tie the curriculum to these 5 Economies.

Desire to Train Soft skills, and have depts that COULD do it. **However, usually mapping disciplines does match well with the bundles.**

Clean the disciplines first!! Align the disciplines to the New Economy. (but they are designed today for the old economies.  
Challenge: this is not how people and disciplines are reqrded today.

We need Novel solutions around accounting, team teaching. Solve internal competition for resources. This is for the chancellors office.

CCCCO Industry Sector Crosswalk-  
Go down to Learning Module Level

COE/BrandIQ sits at the center of all this. (think Rosetta Stone) We don't have GREEN economy people at colleges to even talk to. The support organizations are better placed to have these conversations.

*What are the foundational skills that make a person competent with skills in a New Economy.? Mapping programs to new Economies. Many programs and disciplines need to come together for the ONE student. MANY to ONE.*

## Exercise 2 - GROUP: MIKE

BA+ and Sub BA-what are the skills needed?

[INSERT TEXT HERE]

What could the role of the LARC WEDD & Faculty Innovation Hub be? What might be good places to focus?

Grants for seed money. (ie Good Jobs Challenge)

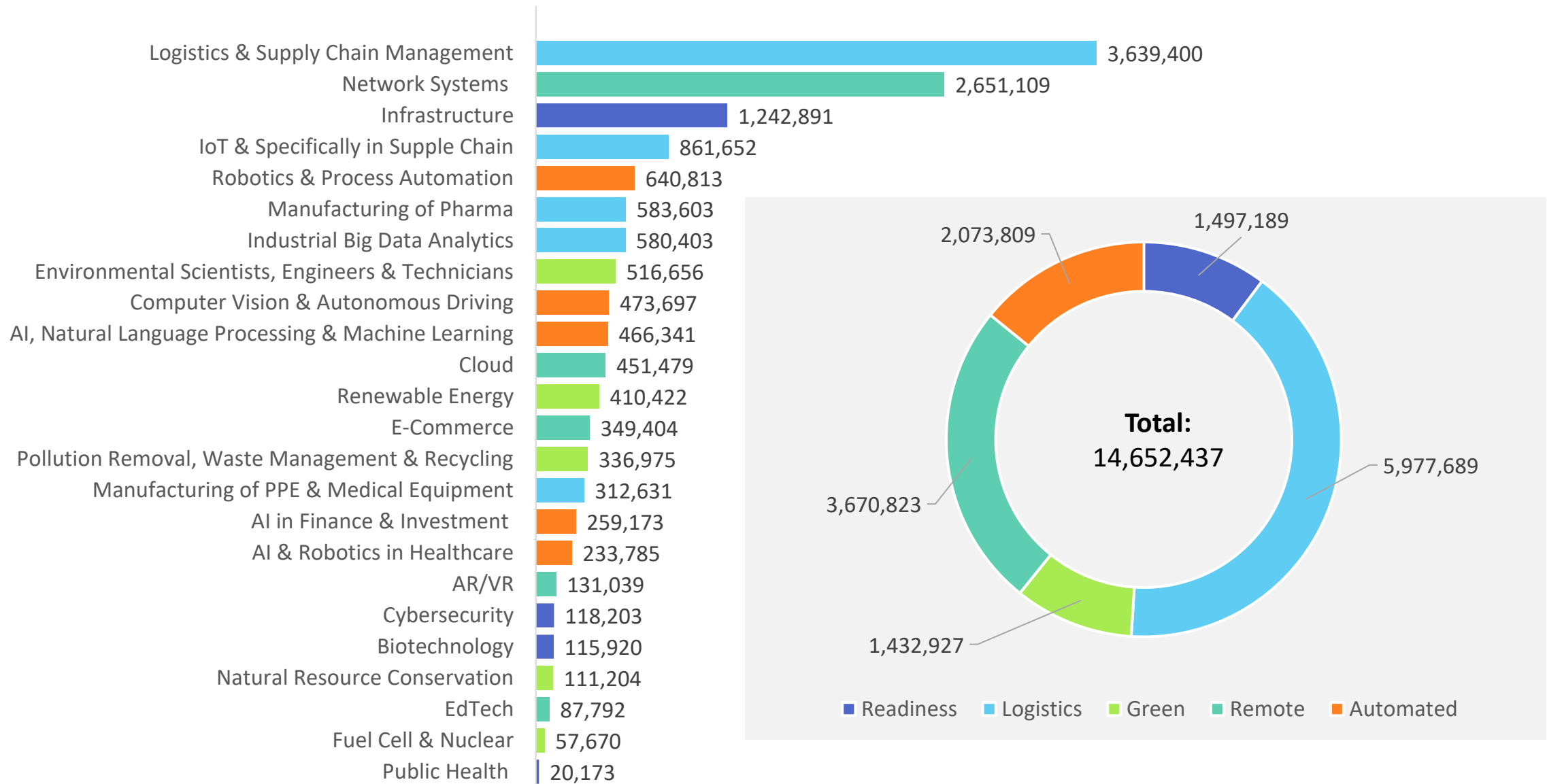
Also, Large regional employers.

**Bringing people together with purpose. What is the thing that is getting people together? Everyone agrees that internships WBL and other applied learning are super important. **INTERNSHIP CLEARING HOUSE.** Showcase work, faculty and employers discussing together. Pool together all the colleges. Changing employers' minds of what a community college student can do for them.**

Any ideas for initial curriculum projects? (opportunity areas)

[INSERT TEXT HERE]

# Specific Jobs That Will Drive The Recovery By Economy



# The Remote Economy: CE Jobs

## E-Commerce (365,504)

### Laborer / Warehouse Worker

\$25,181 (2020 JOBS: 217,871)

- Lifting Ability

### Inventory Associate

\$26,760 (2020 JOBS : 147,633)

- E-Commerce
- Lifting Ability

## Network Systems

### Computer Operator

\$41,066 (2020 JOBS: 3,273)

- ServiceNow
- Performance Management
- Software Maintenance

## Cloud

### Repair / Service Technician

\$88,526 (2020 JOBS : 649)

- ServiceNow
- IBM Cloud
- Microsoft Visio

## AR/VR

### Customer Service Representative

\$39,698 (2020 JOBS : 128)

- Virtual Reality (VR)
- Graphics Processing Units (GPU)
- Key Performance Indicators (KPIs)

## EdTech

### Bookkeeper / Accounting Clerk

\$38,096 (2020 JOBS : 36)

- Accounts Payable / Accounts Receivable
- Customer Checkout

# The Green Economy: CE Jobs

## Renewable Energy (19,433)

### Solar Sales Representative

\$41,097 (2020 JOBS: 12,089)

- Renewable Energy
- Energy Sales
- Energy Consulting

### Solar Installer

\$33,761 (2020 JOBS: 7,344)

- Roofing
- Solar Systems
- Electrical Work

## Environmental Scientists, Engineers, and Technicians

### Environmental Technician

\$34,387 (2020 JOBS: 10,244)

- Performance Analysis
- Process Control
- Emissions Monitoring

## Pollution Removal, Waste Management, and Recycling (10,975)

### Water Treatment Specialist / Waste Water Operator

\$39,464 (2020 JOBS: 6,783)

- Plant Safety
- Ion Exchange
- Analytical Testing

### Hazardous Materials Worker

\$35,042 (2020 JOBS: 4,192)

- Debris and Litter Control
- Equipment Maintenance

## Natural Resource Conservation Forest / Conservation Technician

\$35,855 (2020 JOBS: 5,013)

- Disaster Response
- Database Management
- Survey Instruments

## Fuel Cell and Nuclear

### Power Distributor / Plant Operator

\$53,128 (2020 JOBS: 928)

- SQL
- Data Warehousing
- Extraction
- Transformation and Loading (ETL)
- Schematic Diagrams



# The Logistics Economy: CE Jobs

## Logistics and Supply Chain Management

### Warehouse / Distribution Supervisor

\$39,293 (2020 JOBS: 7,009)

- Operations Management
- Process Improvement
- Key Performance Indicators (KPIs)
- Third-Party Logistics (3PL) Programs

## Manufacturing of Pharma

### Laboratory Technician

\$35,878 (2020 JOBS: 2,508)

- Inventory Management
- Inventory Control
- Informed Consent Procedures

## Industrial Big Data Analytics

### Customer Service Representative

\$33,543 (2020 JOBS: 2,342)

- Big Data Analytics
- Big Data
- Business-to-Business

## IoT and Specifically in Supply Chain

### Production Worker

\$32,407 (2020 JOBS: 1,437)

- Quality Assurance and Control
- Information Security
- Electromechanical Assemblies

## Manufacturing of PPE and Medical Equipment

### Production Worker

\$28,350 (2020 JOBS: 1,428)

- ISO 14001 Standards
- Quality Management
- Ergonomics

# The Automated Economy: CE Jobs

## Robotics and Process Automation

### Repair / Service Technician

\$46,762 (2020 JOBS: 3,284)

- Performance Analysis
- Conveyor Systems
- Electrical Diagrams / Schematics
- Technical Support
- Servo Drives / Motors

### Robotics Technician

\$46,316 (2020 JOBS: 3,168)

- Microsoft Operating Systems
- SQL
- Conveyor Systems
- Oscilloscopes
- Servo Drives / Motors

## Computer Vision and Autonomous Driving

### Automotive Service Technician / Mechanic

\$51,026 (2020 JOBS: 2,114)

- Business Development
- Vehicle Inspection
- Customer Contact
- Repair

## AI, Natural Language Processing, and Machine Learning

### Automotive Service Technician / Mechanic

\$73,962 (2020 JOBS: 283)

- Artificial Intelligence
- Python
- Machine Learning

### Medical Coder

\$52,528 (2020 JOBS: 8)

- Speech Recognition
- Coding Quality

# The Readiness Economy: CE Jobs

## Infrastructure

### General Engineering Technician / Technologist

\$52,868 (2020 JOBS: 2,626)

- Welding
- Masonry
- Nondestructive Testing (NDT)

### CAD Designer / Drafter

\$48,329 (2020 JOBS: 2,430)

- Geographic Information System (GIS)
- Information Systems
- Land Survey
- Computer-Aided Design (CAD) Software

## Public Health

### Registered Nurse

\$63,943 (2020 JOBS: 748)

- Influenza
- Anesthesiology
- Communicable Disease knowledge

## Biotechnology

### Production Worker

\$38,036 (2020 JOBS: 389)

- Cell Culturing
- Chemical Engineering
- Bioreactors