



FUTURE OF TALENT



GOOD MORNING



THANK YOU



ORLANDO
ECONOMIC
PARTNERSHIP



UNIVERSITY OF
CENTRAL FLORIDA

Heli^os[®]
Education Foundation



FLORIDA
CONSORTIUM
OF METROPOLITAN
RESEARCH UNIVERSITIES

SPEAKERS



Dale Brill Ph. D.
Senior Vice President,
Foundation for Orlando's Future



Mr. Paul J. Luna
President, CEO
Helios Education Foundation



Thad Seymour, Ph. D.
Interim President
University of Central Florida



Michael Preston Ed. D.
Executive Director
Florida Consortium of Metropolitan Research Universities



Mr. Doug Heckman
University Data Solutions
EMSI



Welcome

Dale Brill, Ph.D.

Senior Vice President, Foundation for Orlando's Future



Opening Remarks

Michael Preston, Ed.D.

Executive Director, Florida Consortium





Partnership and the Value of Education

Mr. Paul Luna

President/CEO, Helios Education Foundation





University of Central Florida Fueling the Talent Pipeline

Thad Seymour, Ph.D.

Interim President, University of Central Florida





Central Florida Talent Outlook

Mr. Doug Heckman

University Data Solutions, EMSI

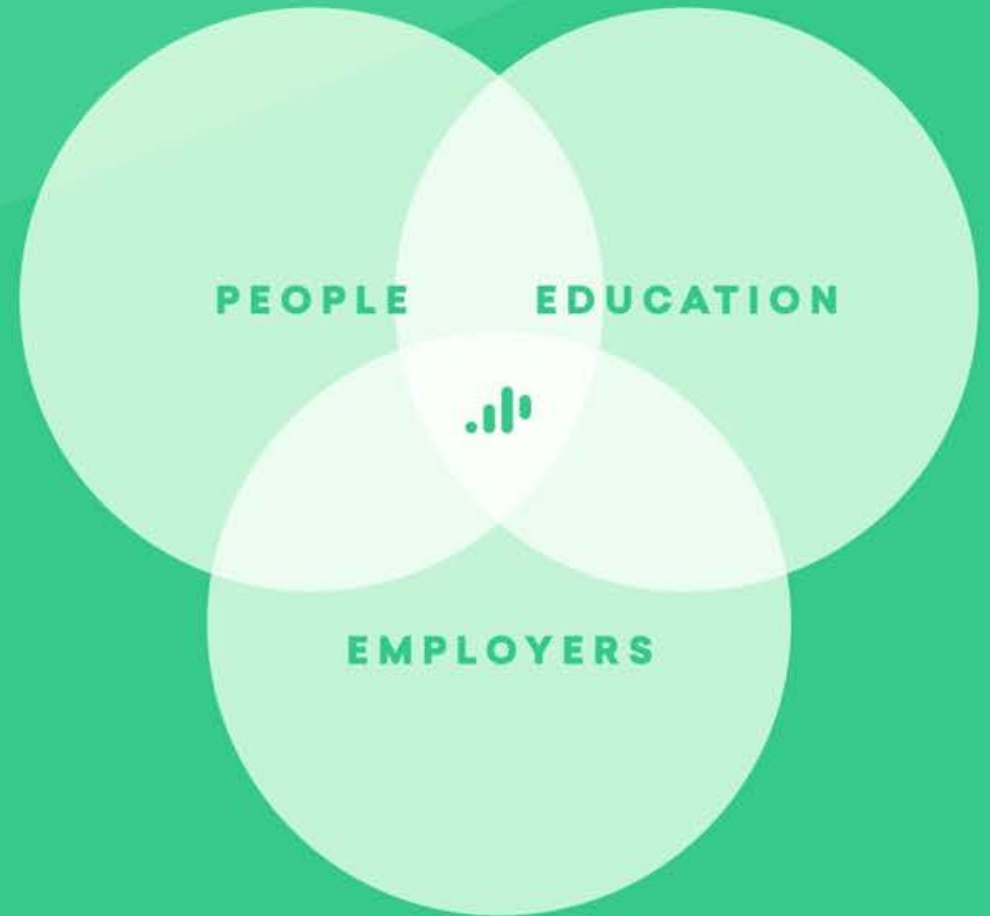




The Past and Future of Talent Development

Doug Heckman
University Data Solutions
Emsi

Emsi's mission is to use
labor market data
to inform and connect
people, education,
and employers.



Emsi Data



Labor market data

Data from government sources like US Census Bureau and the Department of Labor



Job postings

Data from job advertisements made by employers (aka real-time labor market data)



Résumés and profiles

Data from online profiles and résumés created by students and jobseekers

Delivery



Software

Access labor market data online and customize any variable at any point.

Accessible anywhere.



Consulting

Our team of economists will tailor our data to address your needs in a customized study.



API

Pipe our data onto your own webpage for custom design and display.

Our Teams



Higher Education

Helping colleges meet the needs of their regional economy and drive student success.



Community Insights

Providing labor market & economic insights to help your community prosper.



Enterprise

Supplying key insight to help employers drive talent strategy and align recruiting efforts.

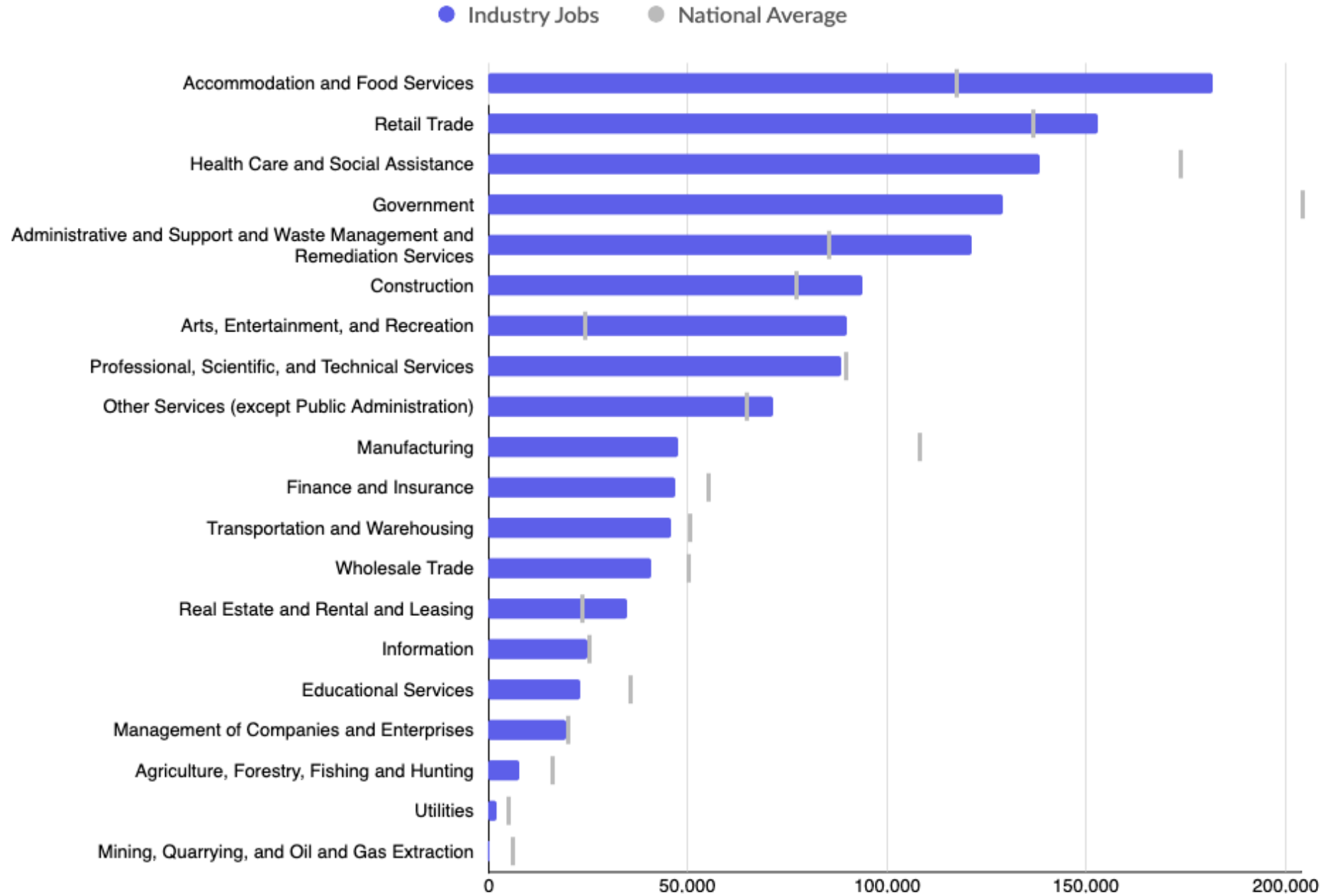




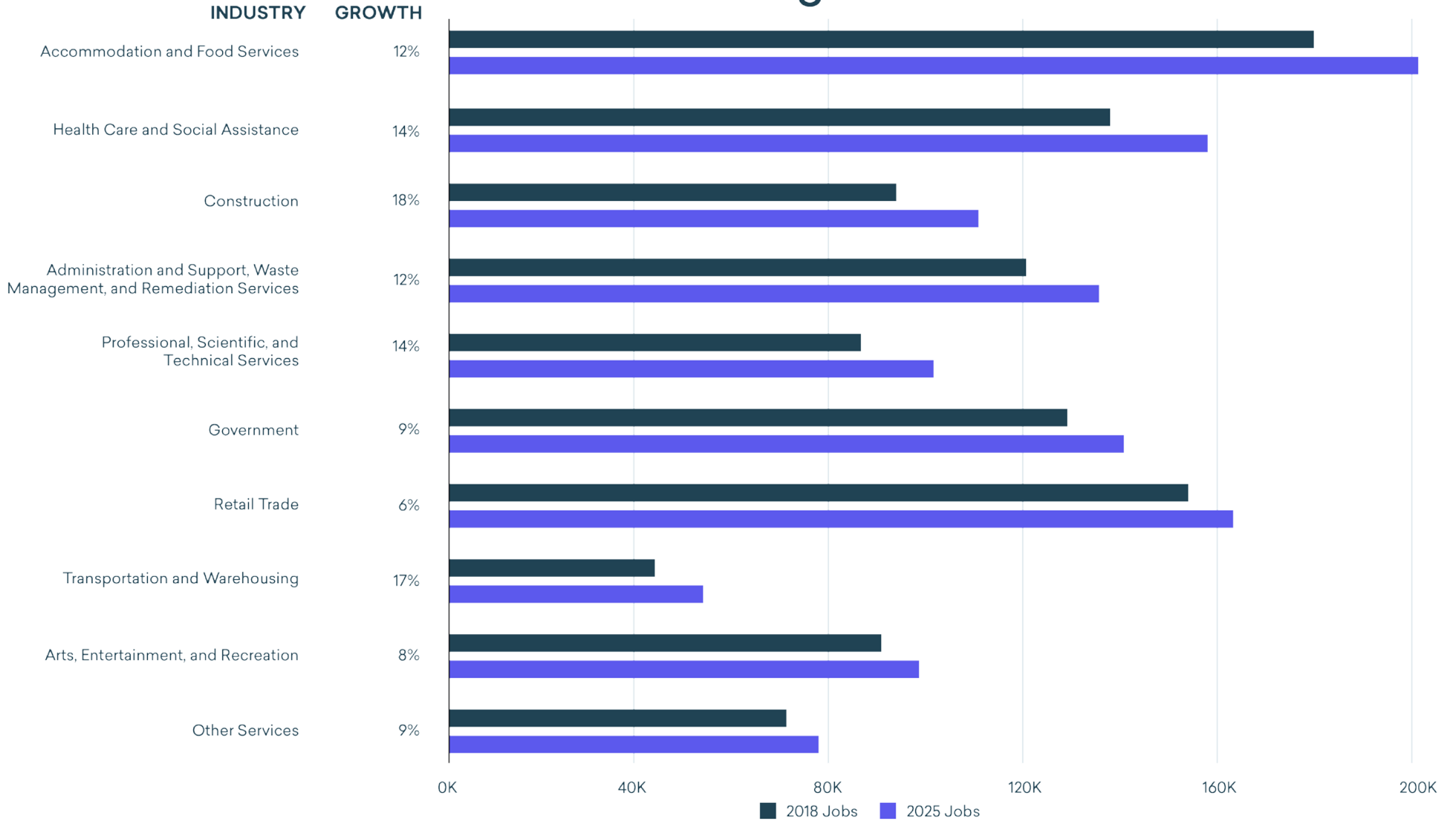
Orlando

By the Numbers

Largest Industries



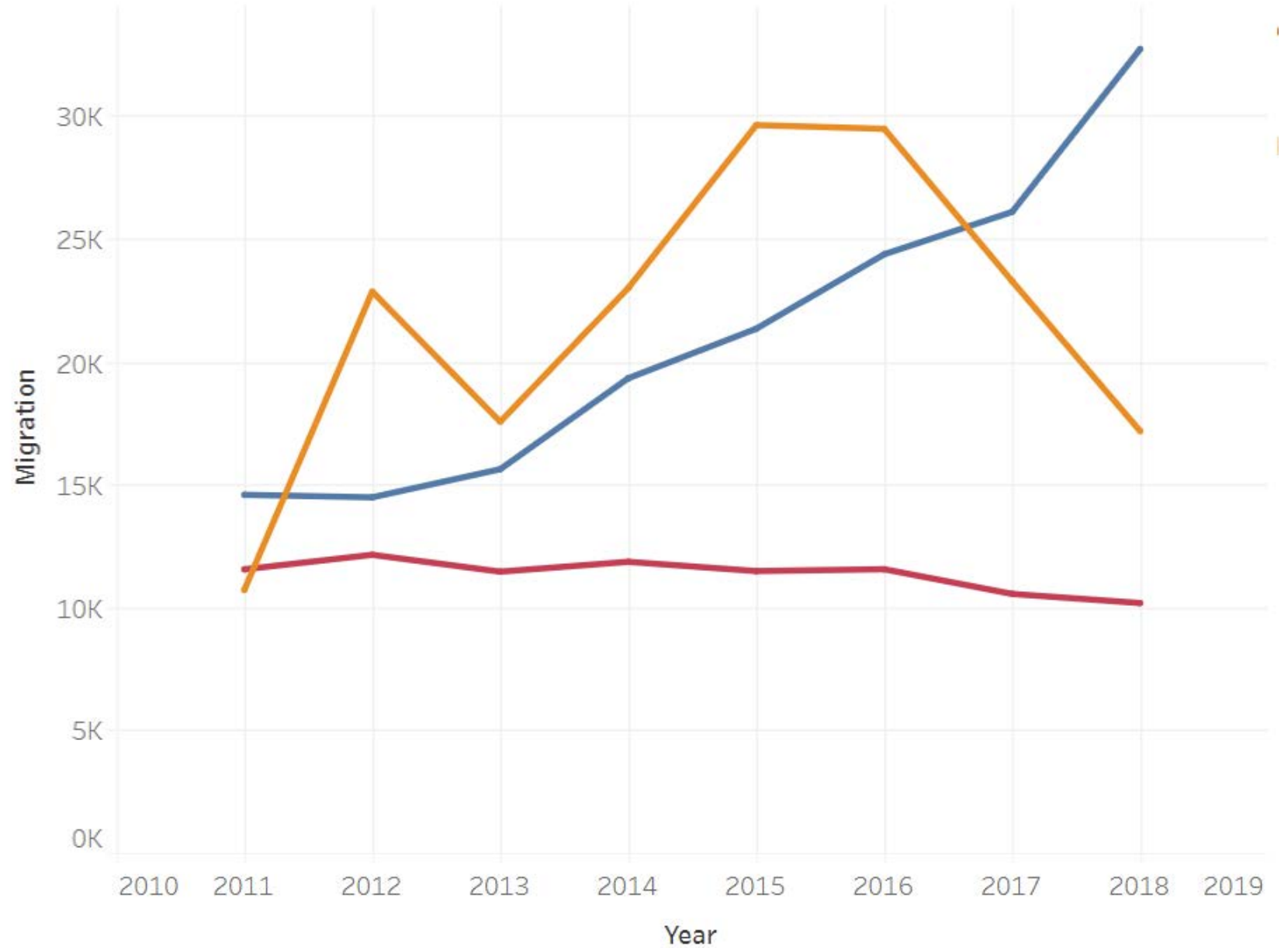
Fastest Growing Industries



ORLANDO MSA

Measure Names

- Domestic Migration
- Int'l Migration
- Natural Increase



Source: Tableau Public, Dakota Mellish, Census Pop. Estimates Migration Data

Orlando Overview

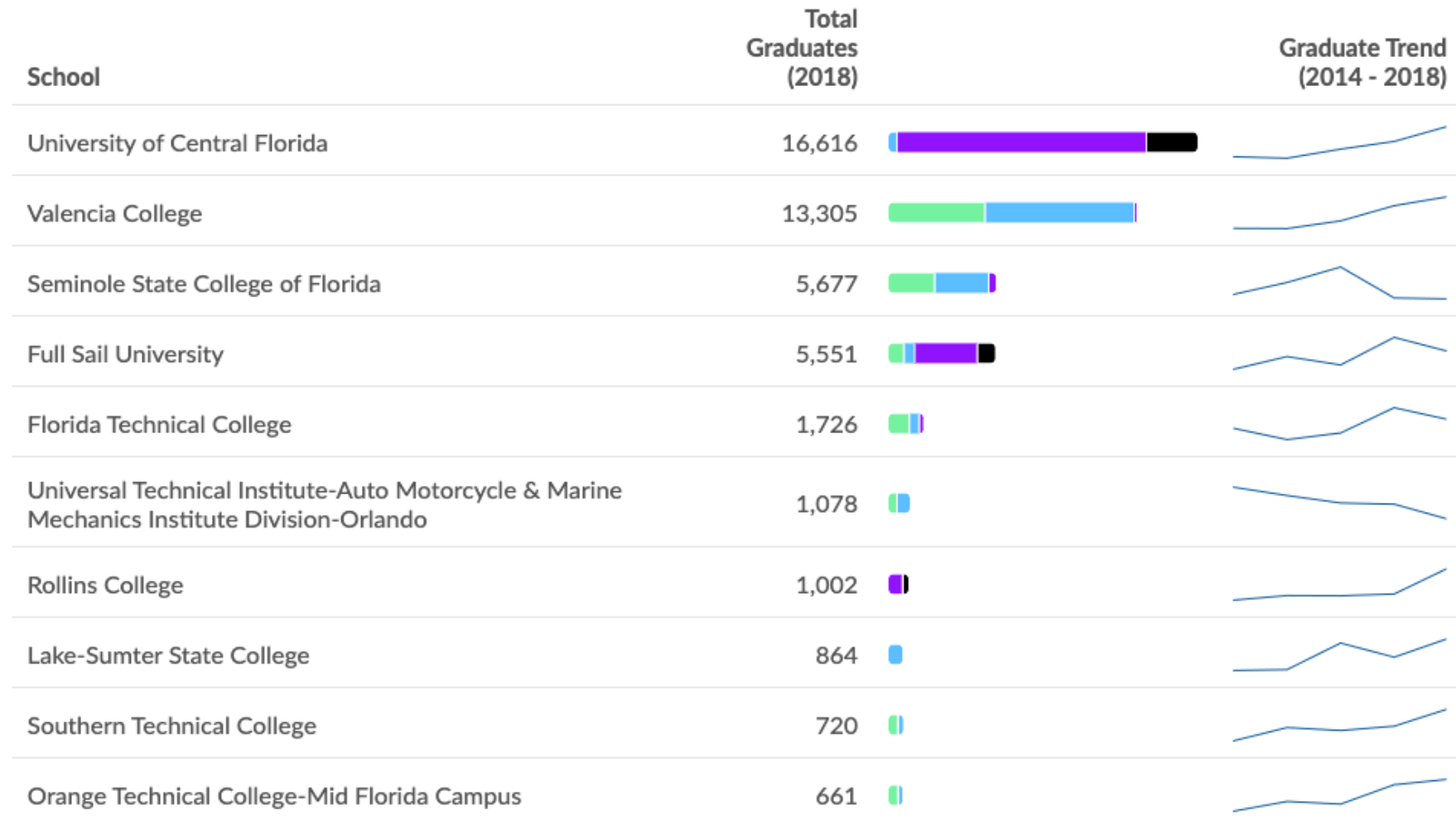
Educational Attainment

Concerning educational attainment, **19.5%** of Orlando-Kissimmee-Sanford, FL residents possess a **Bachelor's Degree** (0.6% above the national average), and **11.4%** hold an **Associate's Degree** (3.4% above the national average).



	% of Population	Population
● Less Than 9th Grade	5.1%	93,262
● 9th Grade to 12th Grade	6.5%	116,891
● High School Diploma	26.8%	484,878
● Some College	20.9%	377,955
● Associate's Degree	11.4%	207,424
● Bachelor's Degree	19.5%	352,806
● Graduate Degree and Higher	9.9%	178,793

In 2018, there were 53,041 graduates in Orlando-Kissimmee-Sanford, FL. This pipeline has shrunk by 4% over the last 5 years. The highest share of these graduates come from Liberal Arts and Sciences/Liberal Studies, "Business Administration and Management, General", and "Psychology, General".

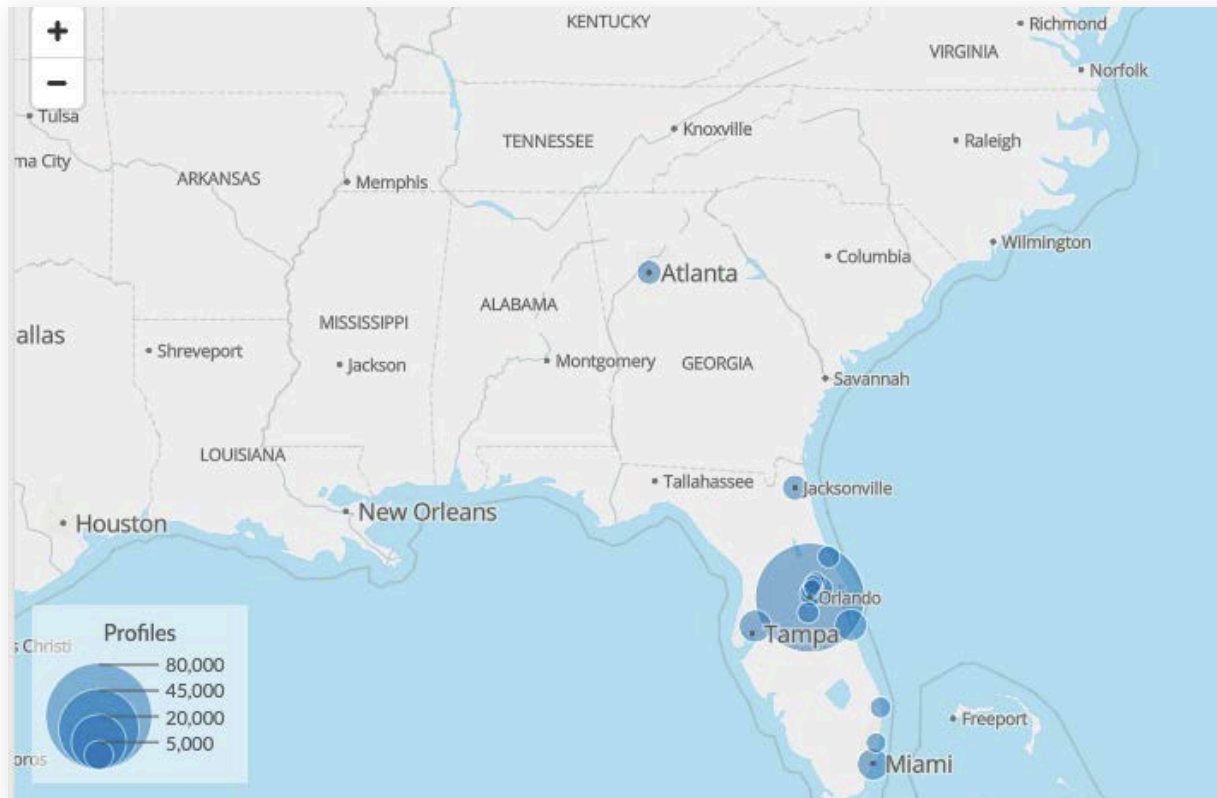


● Certificate
 ● Associate's
 ● Bachelor's
 ● Master's or Higher

Colleges/ Universities Providing Talent

Top Schools

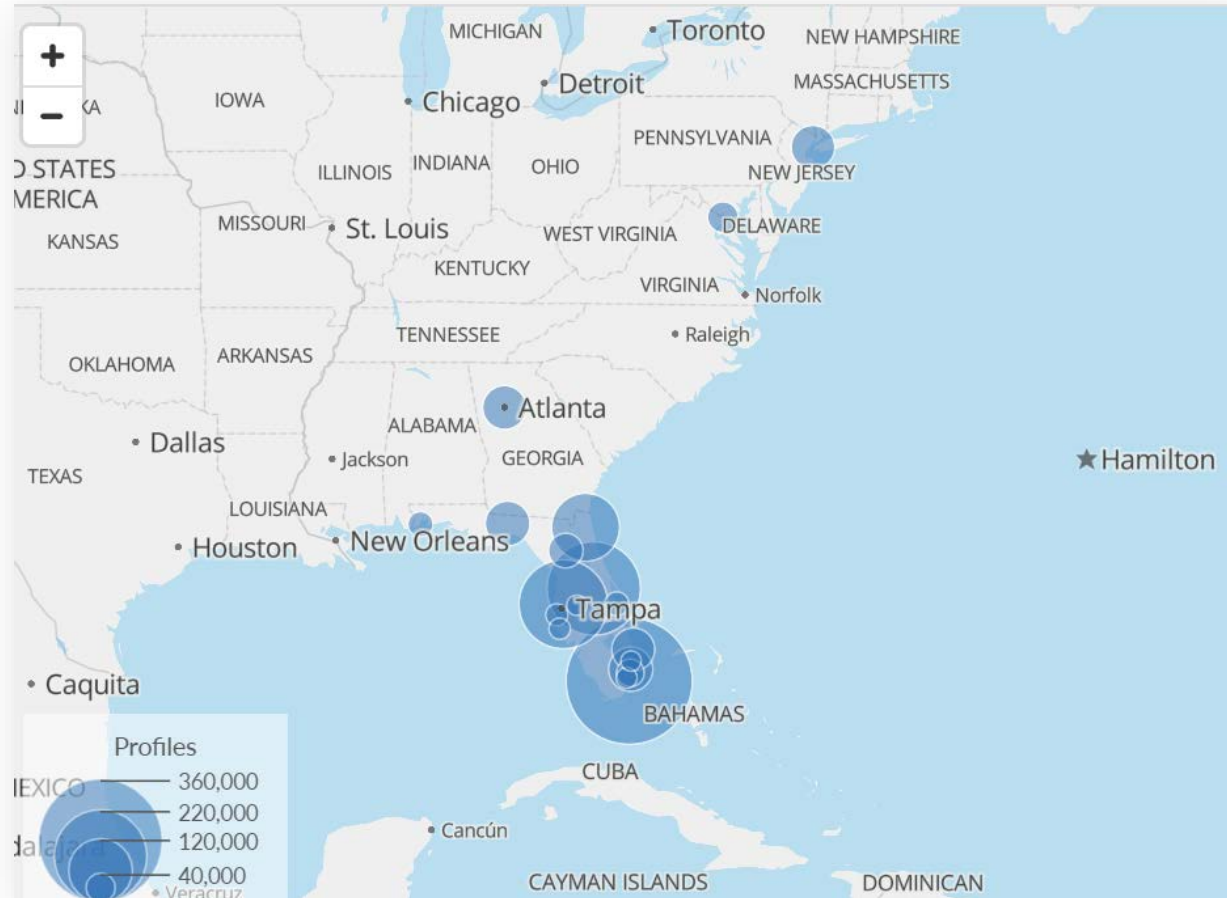
School	Profiles	Percent
University of Central Florida	114,919	8.72%
Valencia College	77,806	5.90%
Seminole State College of Florida	34,591	2.63%
University of Florida	22,506	1.71%
Florida State University	15,978	1.21%
University of Phoenix	13,914	1.06%
Full Sail University	13,779	1.05%
Rollins College	12,311	0.93%
University of South Florida	8,865	0.67%
University of Puerto Rico	6,170	0.47%



Top Cities

- Orlando, FL: 35%
- Tampa, FL: 3%
- Miami, FL: 3%
- Melbourne, FL: 3%
- Oviedo, FL: 2%
- Jacksonville, FL: 2%
- New York, NY: 2%
- Winter Park, FL: 1%
- Atlanta, GA: 1%
- Daytona Beach, FL: 1%

Migration of UCF Alumni



Top States

FL: 61%

GA: 4%

CA: 3.6%

NY: 3.3%











TX: 3.3%

NC: 2.1%

VA: 1.6%

Migration of Florida Graduates (2- and 4-year)

260,593 Companies Employ Your Workers

Top Companies	Profiles
The Walt Disney Company	25,753 
Florida Hospital	10,073 
Orange County Public Schools	9,548 
Universal Studios, Inc.	7,241 
University of Central Florida	7,077 
Orlando Health, Inc.	6,612 
Lockheed Martin Corporation	5,791 
Wal-Mart Stores, Inc.	5,500 
Publix Super Markets, Inc.	3,907 
Siemens AG	3,493 

Top Companies Posting	Unique Postings
Lockheed Martin Corporation	8,393 
Orlando Health, Inc.	5,791 
The Walt Disney Company	3,913 
Adventist Health System	3,799 
Oracle Corporation	3,687 
Assurance	3,037 
CRST International, Inc.	2,750 
Marriott International, Inc.	2,745 
HealthCare Employment Network	2,573 
Anthem, Inc.	2,563 

Largest Occupations in Healthcare

Orlando

Occupation	Employed in Industry (2019)	Employed in Industry (2025)	% Change (2019-2025)	% of Total Jobs in Industry (2019)
Registered Nurses	17,405	19,606	13%	12.6%
Nursing, Psychiatric, and Home Health Aides	12,896	14,295	11%	9.3%
Miscellaneous Healthcare Support Occupations	11,911	13,997	18%	8.6%
Physicians and Surgeons	6,338	7,280	15%	4.6%
Receptionists and Information Clerks	4,910	5,650	15%	3.5%
Personal Care Aides	4,845	6,204	28%	3.5%
Secretaries and Administrative Assistants	4,750	5,450	15%	3.4%
Licensed Practical and Licensed Vocational Nurses	4,479	4,900	9%	3.2%
Childcare Workers	3,772	4,112	9%	2.7%



Highest Growth Occupations in Healthcare

Orlando

Occupation	Employed in Industry (2019)	Employed in Industry (2025)	% Change (2019-2025)
Physician Assistants	622	836	34%
Emergency Medical Technicians and Paramedics	256	340	33%
Nurse Practitioners	1,022	1,351	32%
Personal Care Aides	4,845	6,204	28%
Nurse Anesthetists	243	294	21%
Miscellaneous Health Practitioners and Technical Workers	163	196	20%
Medical Scientists	104	125	20%
Physical Therapist Assistants and Aides	627	746	19%
Massage Therapists	576	682	18%
Psychologists	458	540	18%

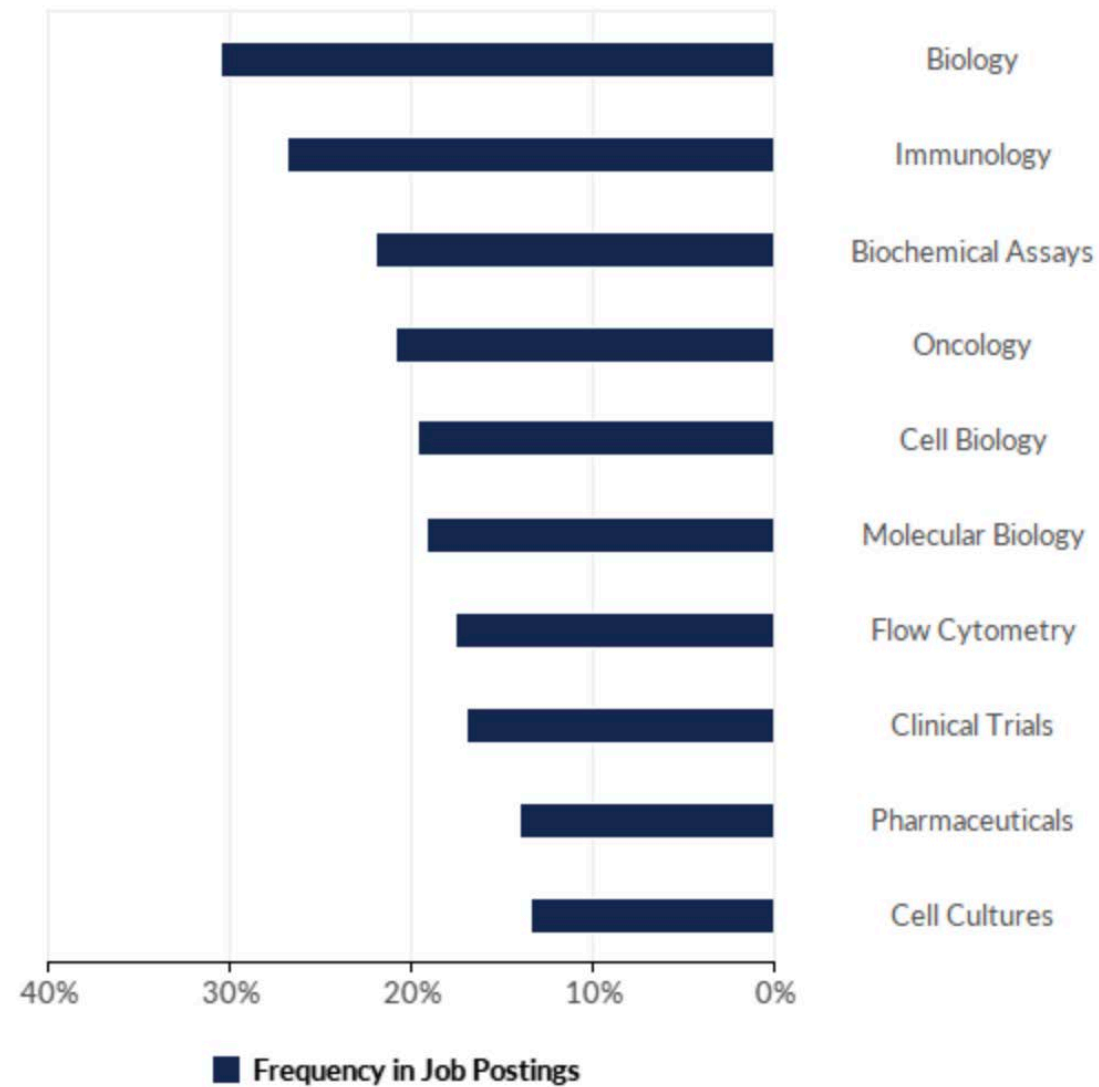
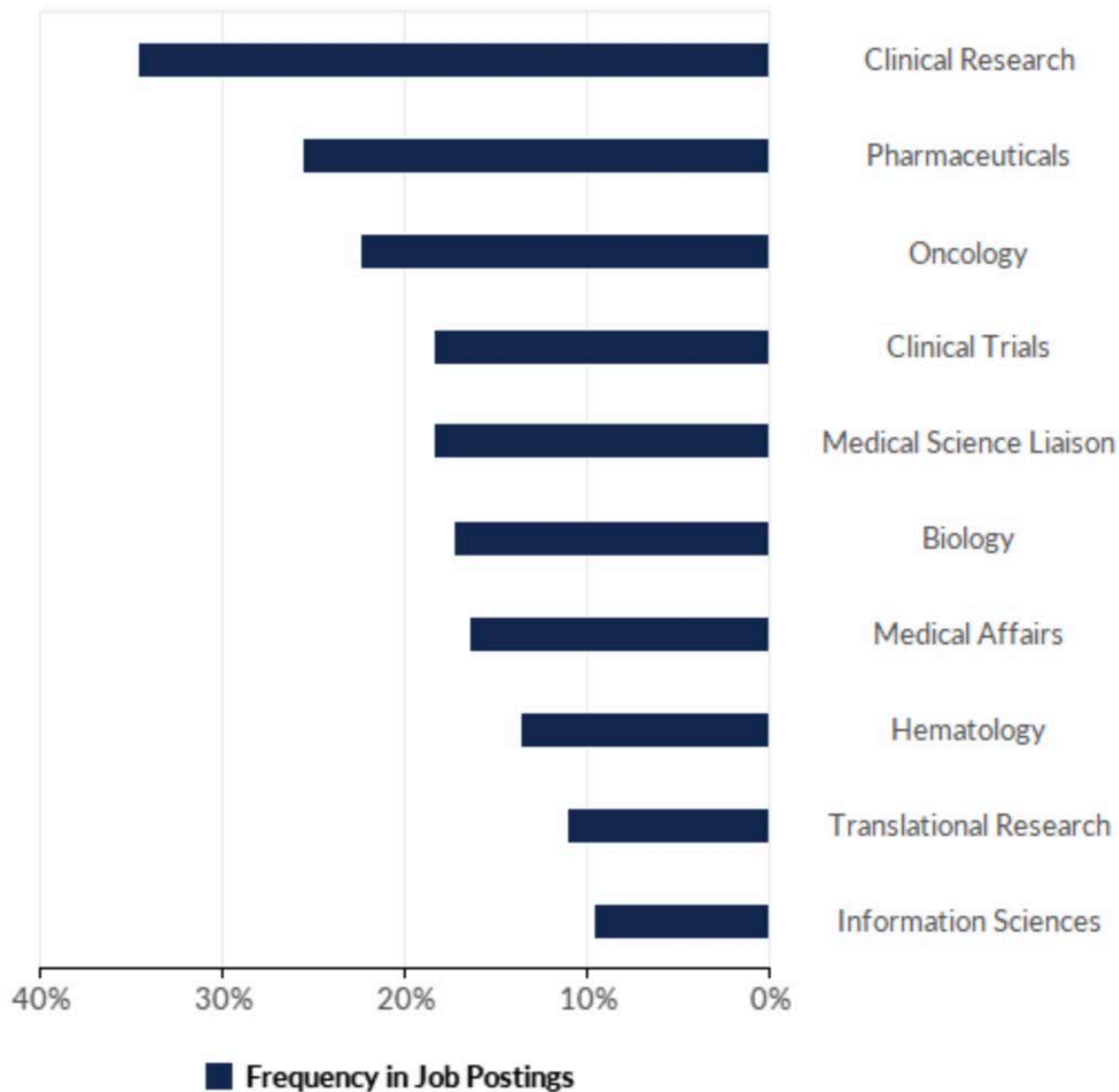


Orlando

Seattle

Top Hard Skills

Top Hard Skills

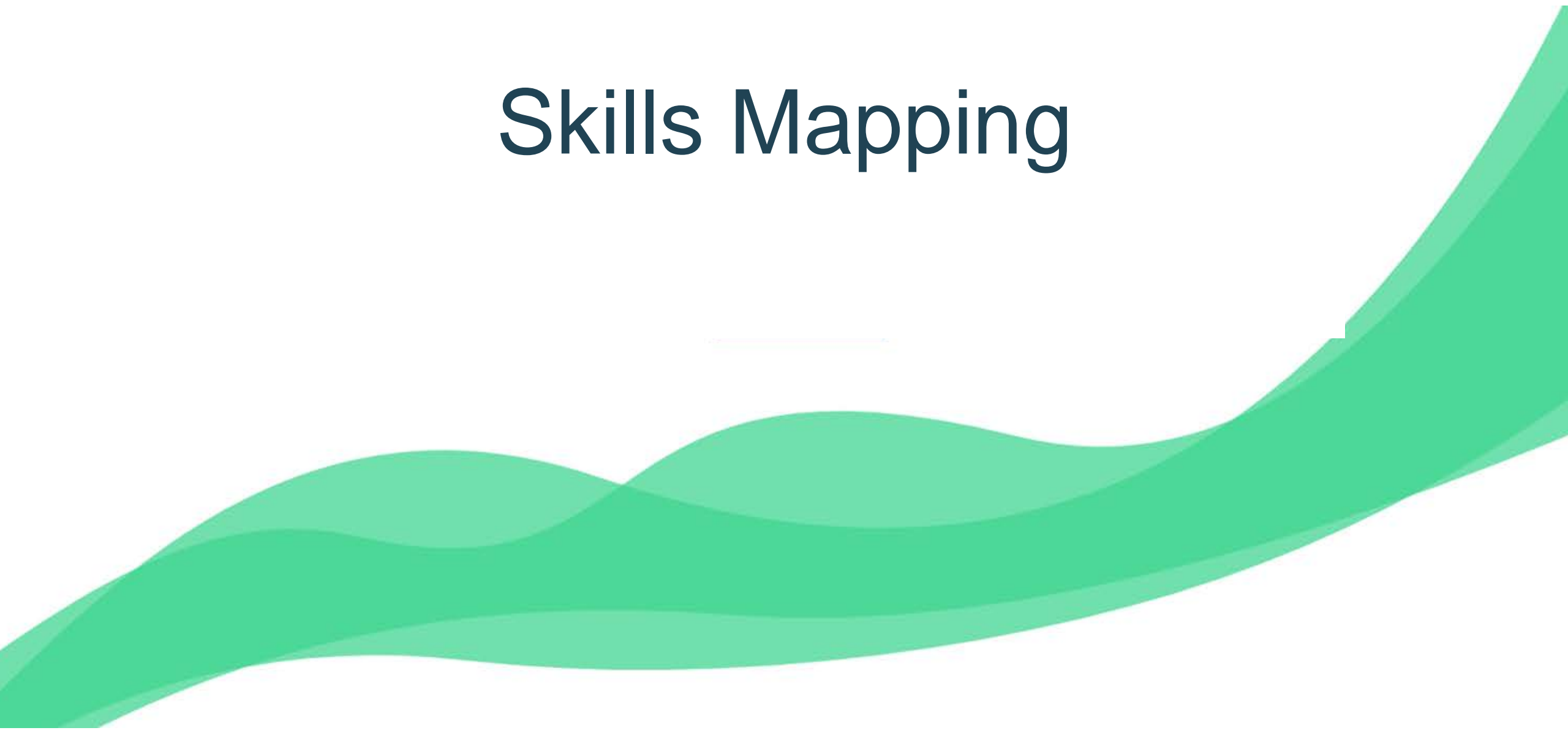


The Challenge

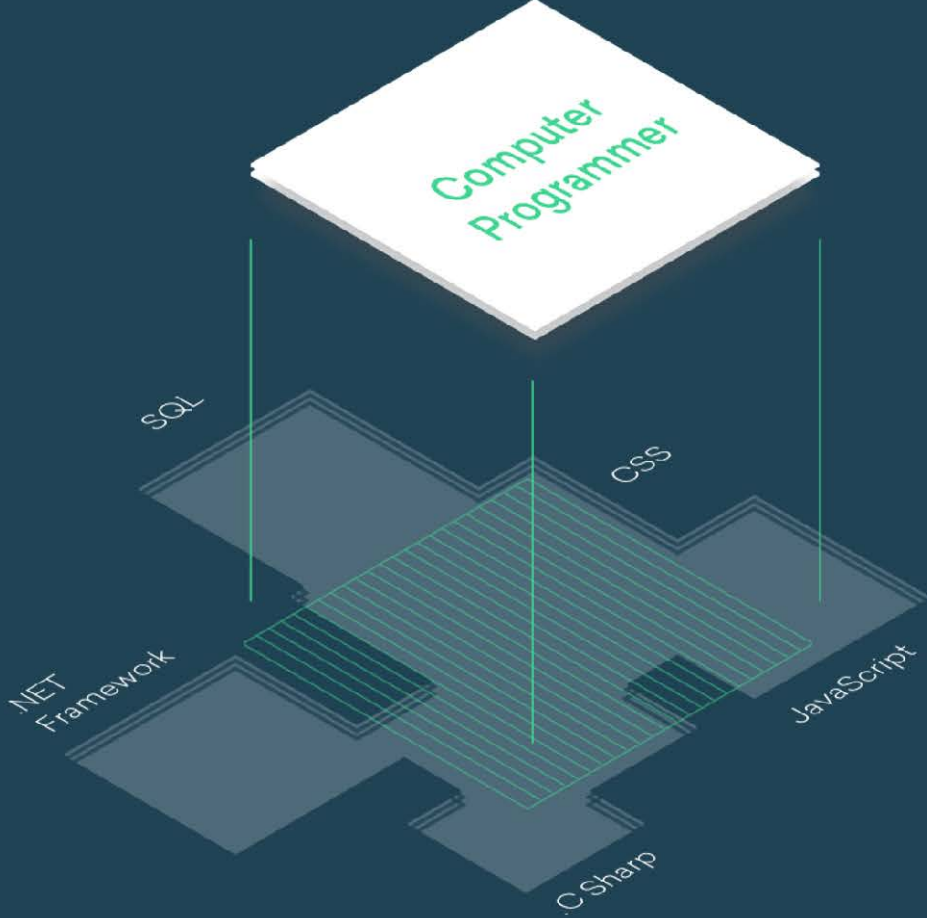
- Employers struggle to articulate and communicate the skills they value most
- Higher ed reads the wrong information or old information
- States, regions, and organizations don't know the capabilities, aspirations, and potential of incumbent workers
- Learners are unable to demonstrate what they know and what they can do



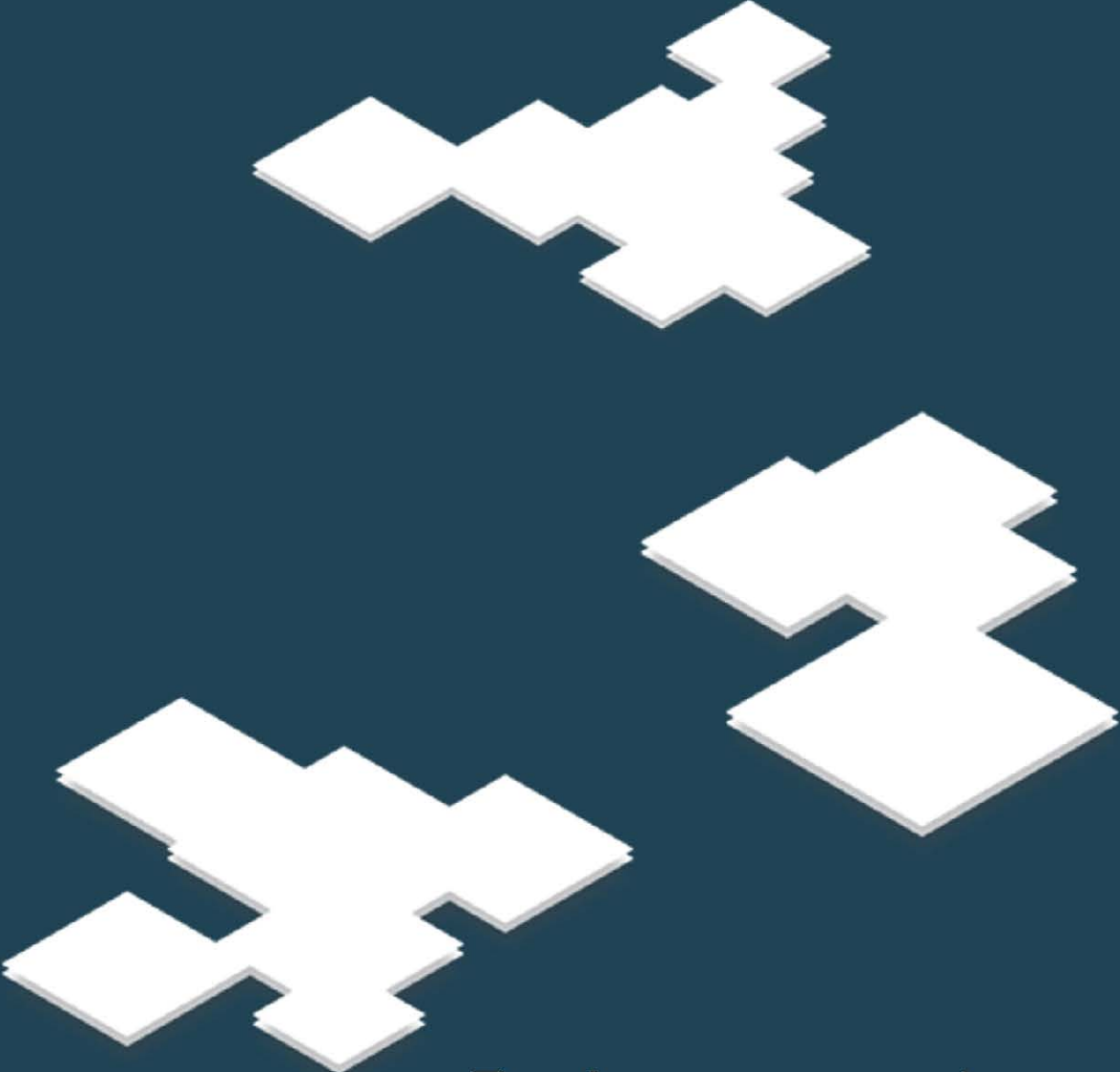
Skills Mapping



Traditional taxonomies are not detailed enough



People have unique skill sets



Regions are made up of those people

Taxonomic Approach

Related by category

19-0000 Life, Physical, and Social Science Occupations

19-1000 Life Scientists

19-1011 Animal Scientists

19-1012 Food Scientists and Technologists

19-1013 Soil and Plant Scientists

19-1021 Biochemists and Biophysicists

19-1022 Microbiologists

19-1023 Zoologists and Wildlife Biologists

19-1029 Biological Scientists, All Other

19-2000 Physical Scientists

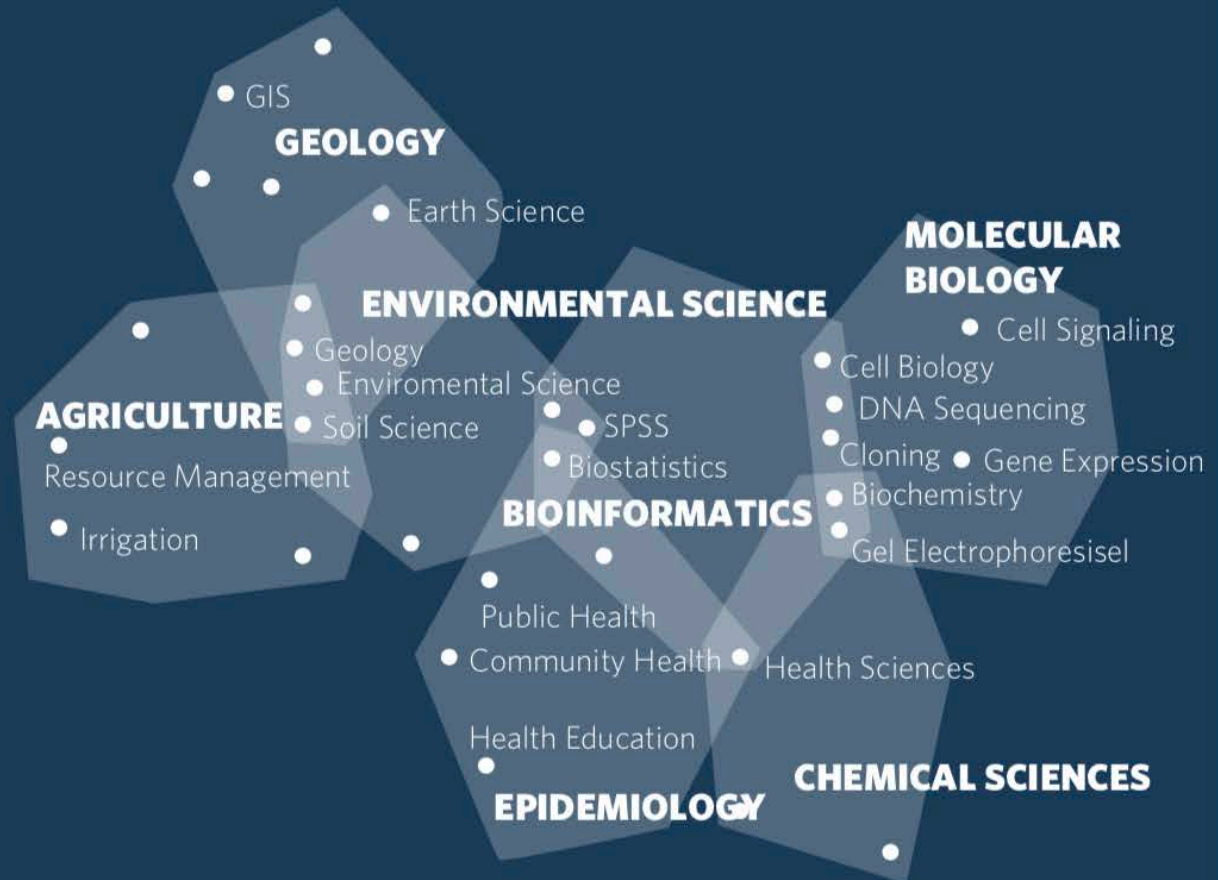
19-2011 Astronomers

19-2012 Physicists

19-2021 Atmospheric and Space Scientists

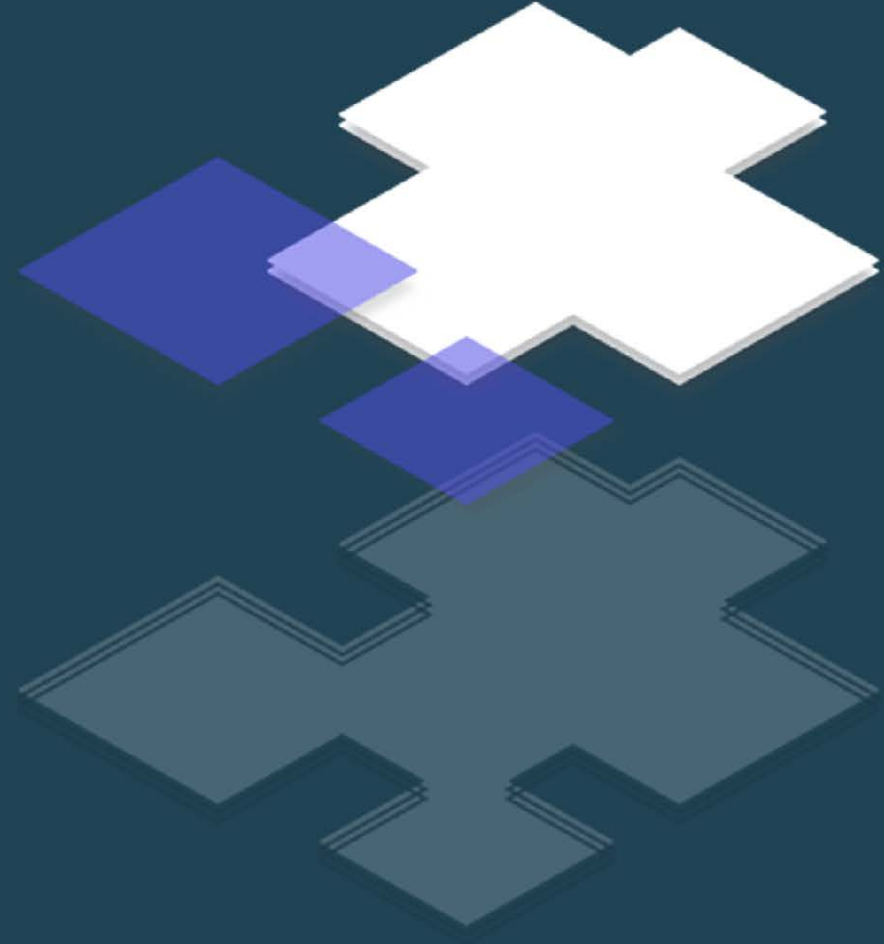
Skill Shape Approach

Categorized by relationship



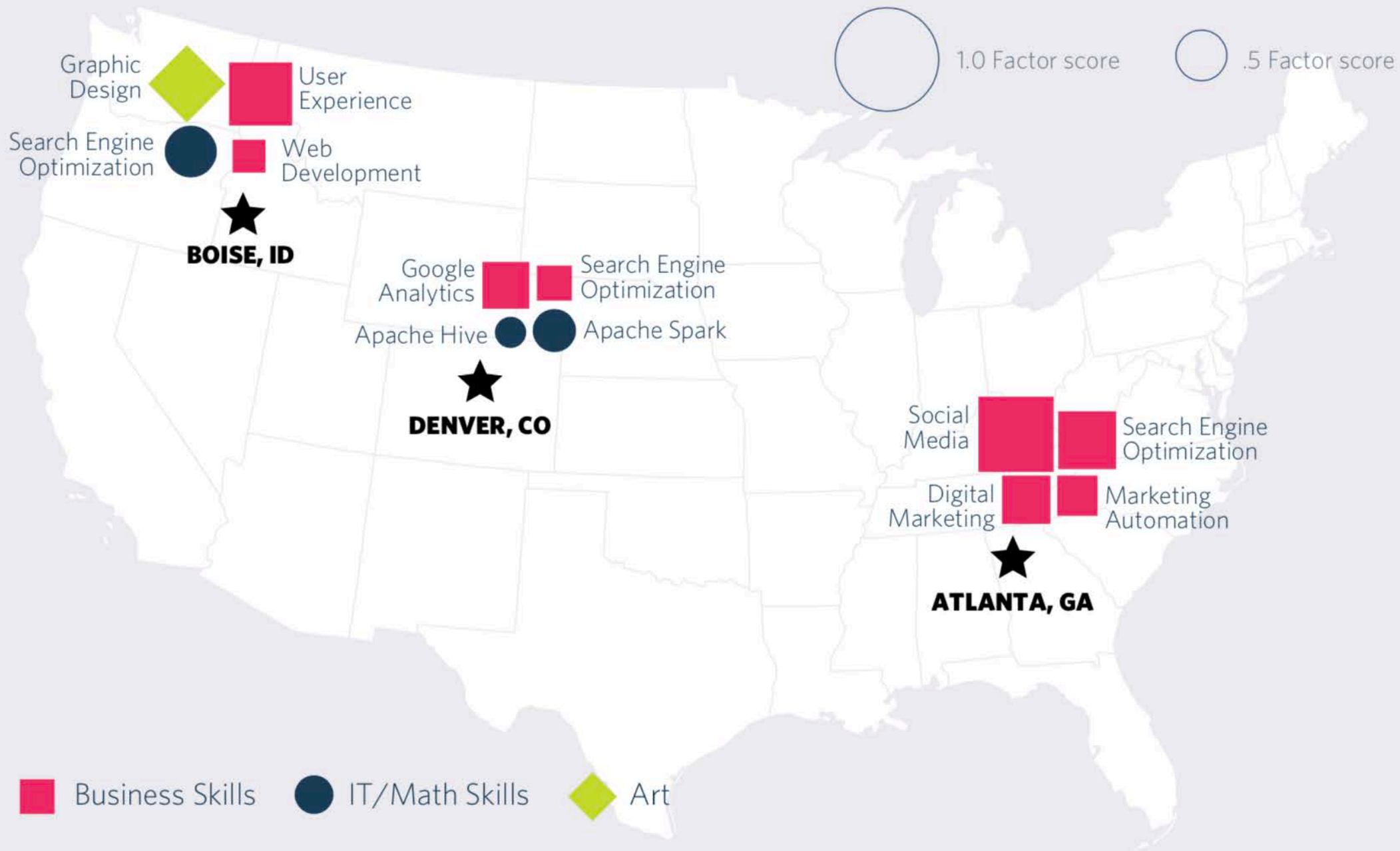
The Skills "Shape"

- Of a person
- Of a curriculum
- Of a job posting
- Of a region



Skill Shape

Unique skills associated with a given career field, region, or individual.



Source: Emsi Job Postings and Profile Analytics, 2019



Market Skillscape

Regionalized
skill clusters



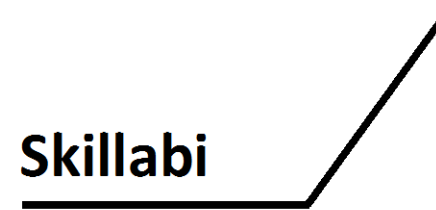
Market Skillscape

Regionalized
skill clusters



Skillabi

Skillify your
syllabi



Market Skillscape

Regionalized skill clusters



Skillabi

Skillify your syllabi

SkillSync

Sync your taught skills with sought skills



Market Skillscape

Regionalized skill clusters



SkillsForce

Optimize your talent

SkillSync

Sync your taught skills with sought skills

Skillabi

Skillify your syllabi



Refine your dreams
Find your means

Skills Match

**Market
Skillscape**

Regionalized
skill clusters



Skillabi

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Sync your taught skills
with sought skills



Skill Shape Early-adopters

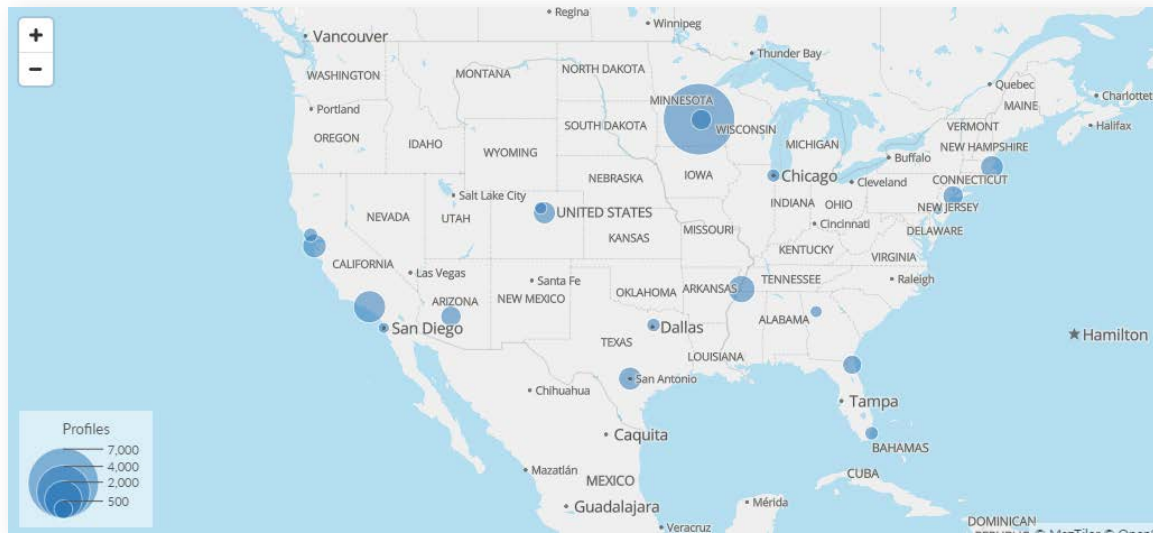
- The **Business Higher Education Forum** is utilizing skill shapes to build partnerships between regional employers, higher education institutions, and workforce and economic development agencies to close those gaps.
- **United Healthcare** is one of several companies using skill shapes to understand the talents of its employees to inform its business strategy and talent-development initiatives.
- **Western Governors University** and **Southern New Hampshire University** have started using skill shapes

Skill Shape Vision: Employers

- When employers understand the talent supply in their region, they can target recruitment efforts and engage in upskilling and reskilling their incumbent workforce, as well as better communicate their skills needs to workers, learners, and learning providers.

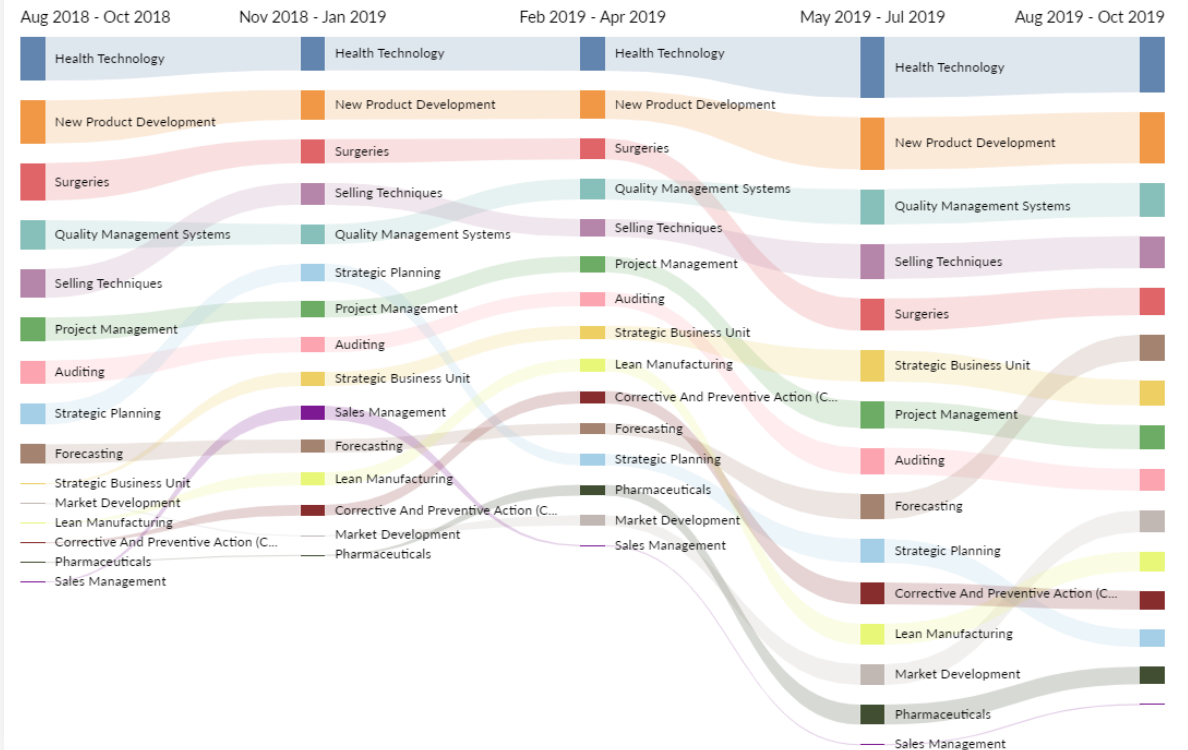
Case Study: Medtronic

- Medical device company
- MDT (NYSE) - \$107.15
- US headquarters: Fridley, MN



Top 15 Skills for All Job Types Sought by Medtronic, Inc. by Quarter

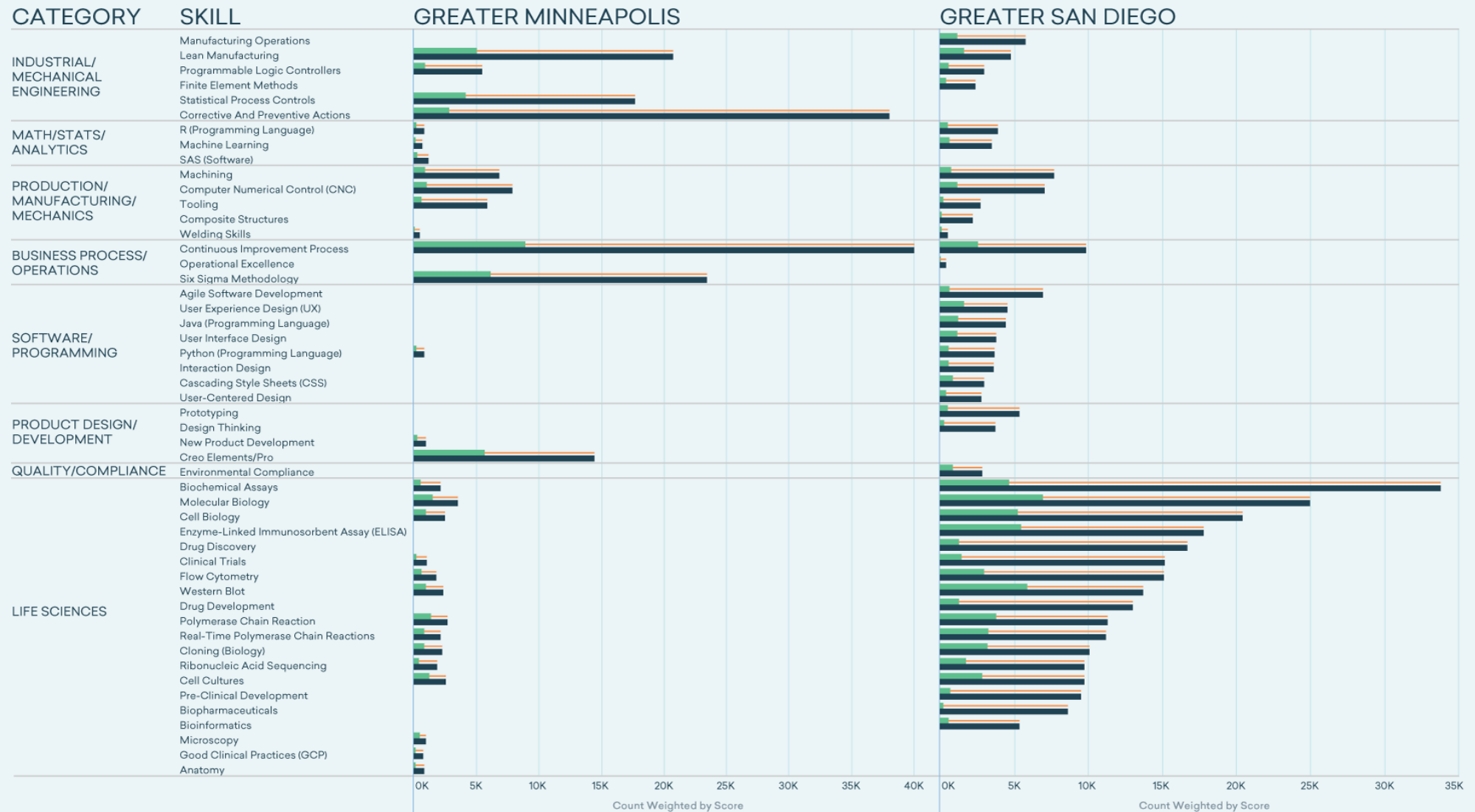
Skills help us understand not only where a company is trying to go, but how they intend to get there.



MEDICAL MANUFACTURING-RELATED SKILLS

for MINNEAPOLIS & SAN DIEGO

KEY: █ Gap █ Supply █ Demand



Skill Shape Vision: State and Regional Workforce

Enable policymakers, workforce investment boards, and economic developers to understand skill gaps and surpluses in specific regions and allocate scarce workforce development funds to the greatest labor market needs and opportunities for targeted workforce training.

HARD-TO-FIND SKILLS

FOR MINNEAPOLIS METROPOLITAN AREA

Category: Digital Skills

Occupation Types	Key, Hard-to-Find Skill Sets	Difficulty* of Finding Relevant Talent with These Skills
Accounting, Tax and Financial Services	Data Warehousing/Modeling	
Business and Financial Analysis	Data Warehousing/Modeling	
Data Management	Cloud / Information Security	
	Cloud Computing	
	Data Warehousing/Modeling	
Data Science/Analytics	Actuarial Science	
	Analytics & Data Science	
	Data Warehousing/Modeling	
Information Security	Cloud / Information Security	
	Cyber Security	
IT Networks and Systems	Cloud / Information Security	
	Cyber Security	
Logistics and Procurement	Data Warehousing/Modeling	
Software Development and Programming	Cloud Computing	
	Data Warehousing/Modeling	
<p>*Difficulty is calculated based on the degree of demand for a key skill to a given career (within a database of job listings) vs. the degree to which that skill appears in the resumés and professional profiles that are relevant to that career (within a database of professional profiles).</p>		<p>HARD HARDER HARDEST</p>

Skill Shape Vision: Higher Education

- Learning Providers: As employers' needs come into focus with the use of skill shapes, learning providers can align curriculum development to real-time workforce needs.
- Learners: Understanding not only the kinds of jobs but also the specific skills that are in demand in a region, learners can identify the learning experiences they need to compete for better jobs

Project Objective

WGU
Business
education

vs

In-demand,
marketable skills for
WGU grads

Taught Skills

Sought Skills



 **Emsi**

Thank You!

Doug Heckman – Data Solutions, University Team
doug.heckman@economicmodeling.com

Connecting the Talent Pipeline

Michael Preston, Ed.D.

Executive Director, Florida Consortium





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RESEARCH UNIVERSITIES

Transforming **Learning** into **Talent** for Florida.

Vision

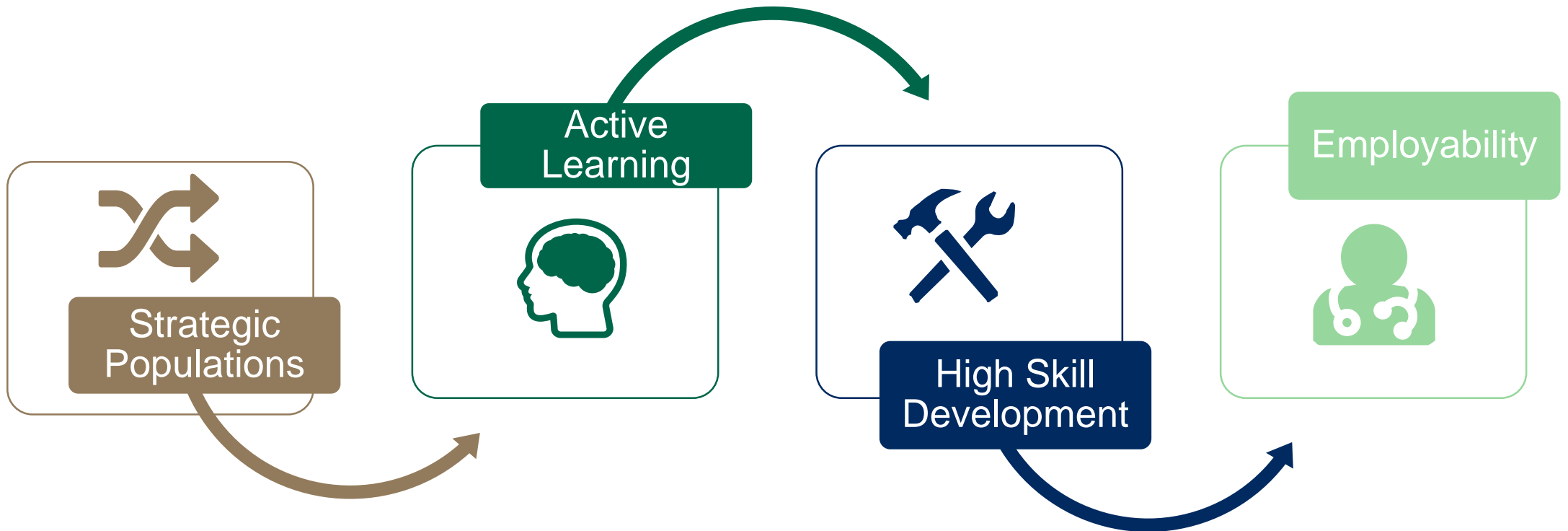
We leverage the unique assets of
Miami, Orlando, and Tampa Bay
to develop talent which enhances community well-being

Mission

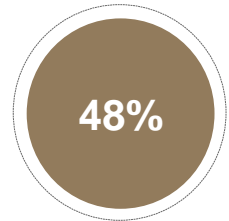
We strengthen Florida's talent pipeline through the of sharing ideas and
scalable solutions which accelerate learner achievement and access to
economic opportunity



2019-2023 Focus Areas



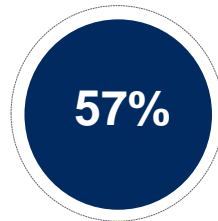
The Impact



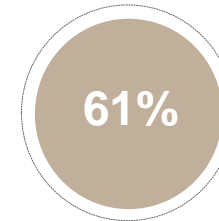
Total SUS Enrollment



Pell Eligible Students



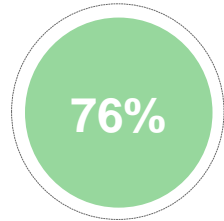
SUS Minority Enrollment



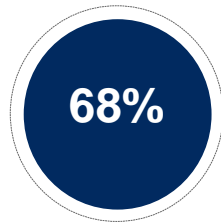
State College Transfers



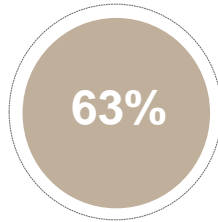
Degrees Earned By Minorities



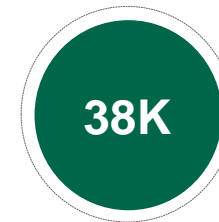
Stay in Florida to work



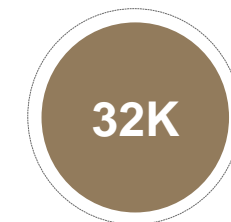
Employed within One Year



Six Year Minority Grad Rate



Average Starting Salary



Bachelors Degrees Awarded

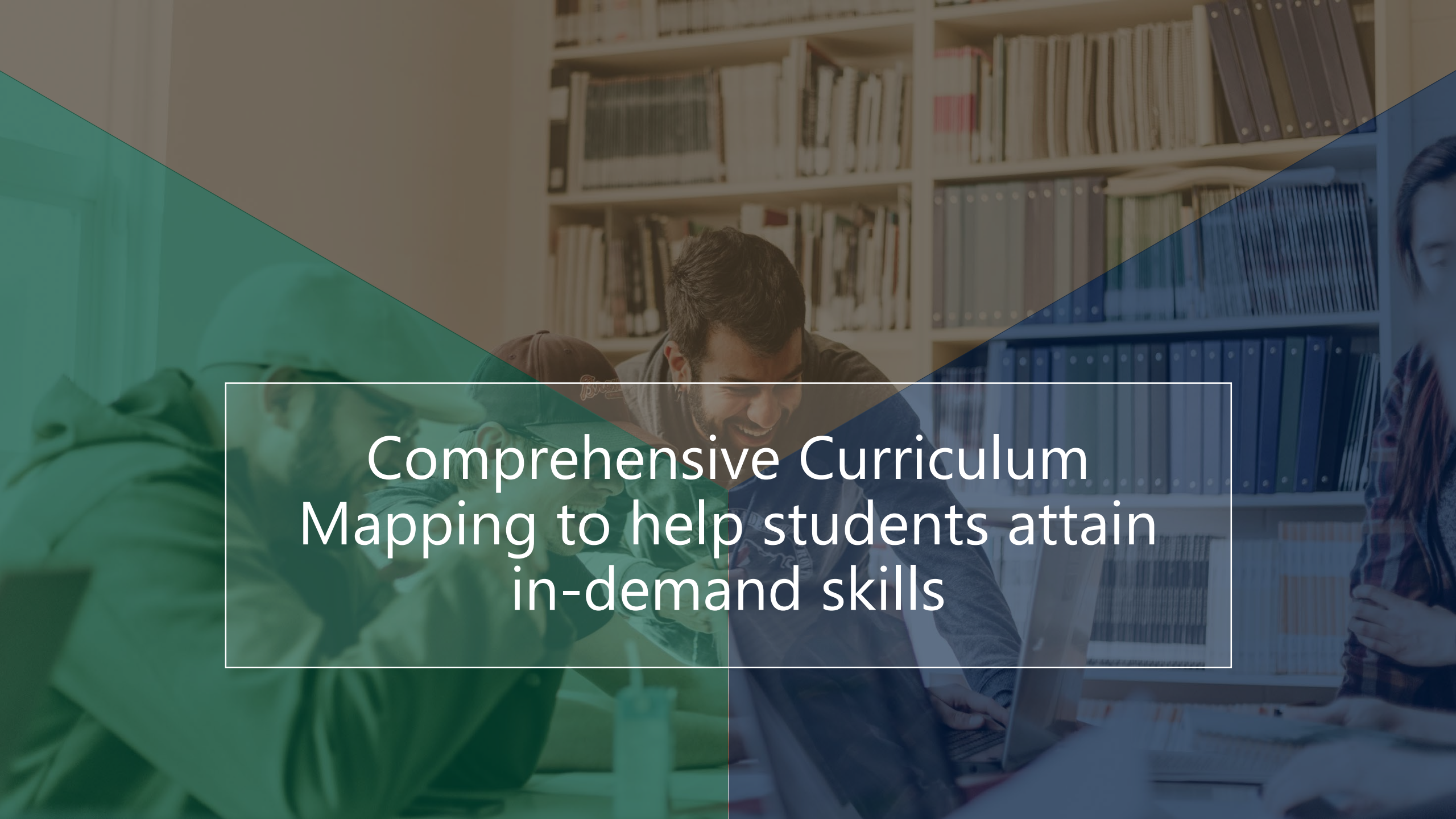
Source: 2018 SUS Accountability Report, 16-17 FETPIP Data, Payscale Report

A low-angle photograph of a graduation ceremony. Numerous black mortarboard caps with red tassels are suspended in the air, having just been thrown by graduates. The graduates' hands and arms, wearing blue gowns with red cuffs, are visible at the bottom of the frame, reaching upwards. The background is a large, light-colored building with many windows. The image is split into two color-tinted sections: a teal section on the left and a blue section on the right.

Here's what we're
working on

A low-angle photograph of a graduation ceremony. Numerous black mortarboard caps with red tassels are suspended in the air, having just been thrown by graduates. The graduates' hands and arms, wearing blue gowns with red cuffs, are visible at the bottom of the frame, reaching upwards. The background is a large, light-colored building with many windows. The image is split into two color-tinted sections: a teal section on the left and a blue section on the right.

Increase Talent Retention in
Florida from
76% to 80%

A photograph of three students in a library setting. A male student in a blue hoodie is pointing at a laptop screen, while a female student in a green hoodie and a male student in a brown cap look on. Bookshelves filled with books are in the background. The image is overlaid with a green triangle on the left and a blue triangle on the right.

Comprehensive Curriculum
Mapping to help students attain
in-demand skills

Q & A

SPECIAL THANKS



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