

Market Challenges

The confluence of macro, financial and market forces are creating a growth “log-jam” in the sector.



Supply/demand imbalance in the labor markets triggered by automation and general labor shortages in every sector of the economy



Education system struggling to adapt to meet the talent and skills needs



Global Acceleration in edtech innovation and vast canvas of emerging technology enabled solutions



Exorbitant valuations making it difficult to generate meaningful returns within typical hold periods through M&A activity



A fragmented, unorganized market of new, high growth, start-up and unicorns with high potential but lacking dimension and scale



Practice Focus

Education market sub-sectors where we believe lies highest potential for transformative impact and returns of the emerging *New Landscape*

Strategic partnerships


- Private Equity and Venture Capital portfolio companies
- Market making businesses
- Academic program providers
- Job Tech businesses
- Workforce analytics
- Alternative Credentialing

Workforce solutions

- Education as a benefit management
- Workforce partnerships enablements
- HCM talent platforms
- Early career, mid-career and life-long learning in the future of work
- Emerging business models in HCM, enrollment and talent pipelines and upskilling

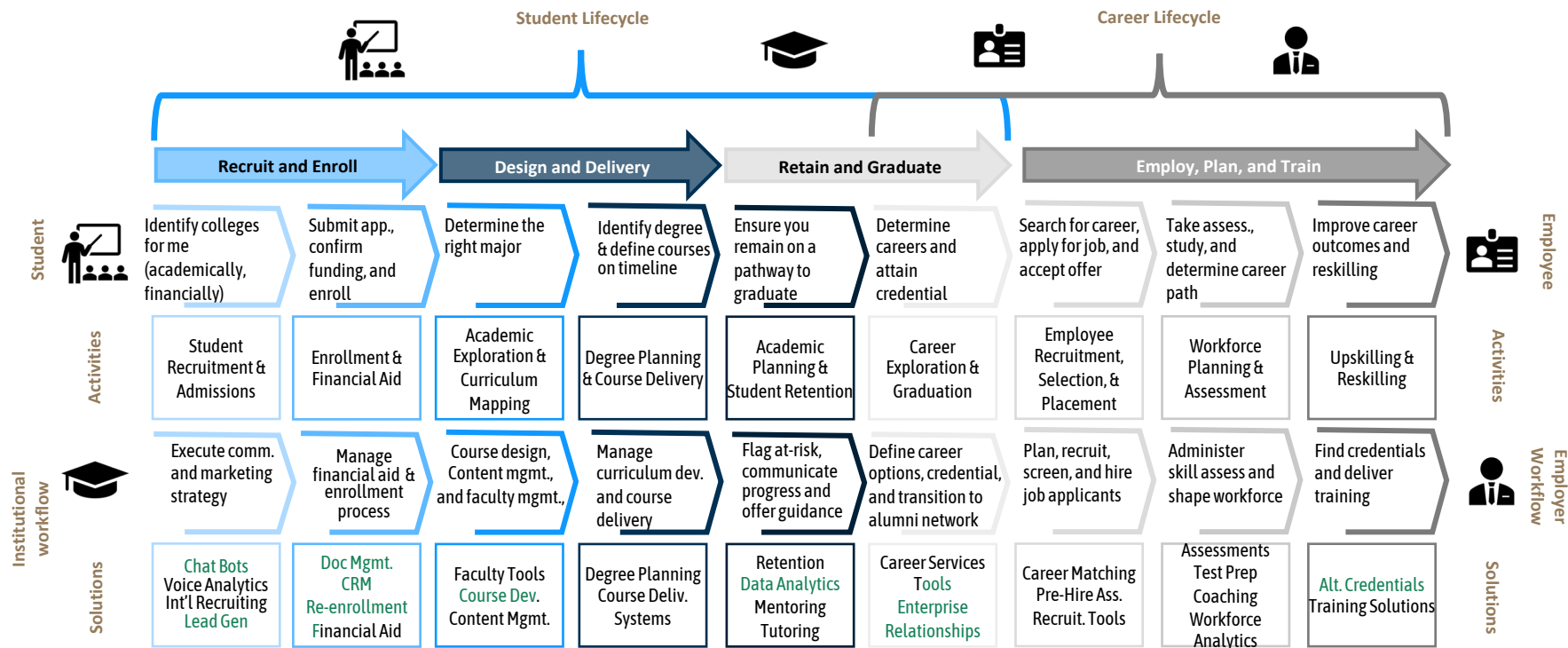
Post-secondary

- Alternative credentials/bootcamps
- Career pathways, degree completion
- Workforce education program management
- Higher ed workforce optimization



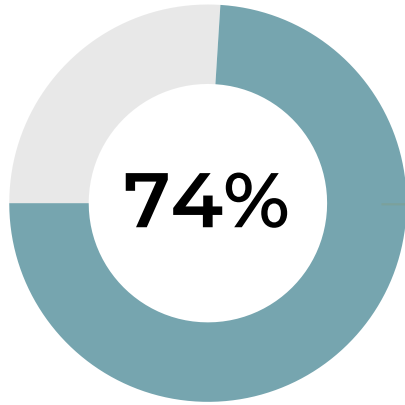
Focusing purely on these sub-sectors while leveraging our “practitioner” expertise, we partner with PE/VC funds to refine pre-deal thesis, implement and execute the post-deal value creation plan and develop follow-on M&A strategies.

Our approach is based on mapping the Post-Secondary Credential and Career Lifecycle to seek out pockets of growth



TAM | Global Relevance | Capacity for Tech Enablement | Funding Sources | Regulatory Risk

Demographic shifts have redefined the purpose of higher education



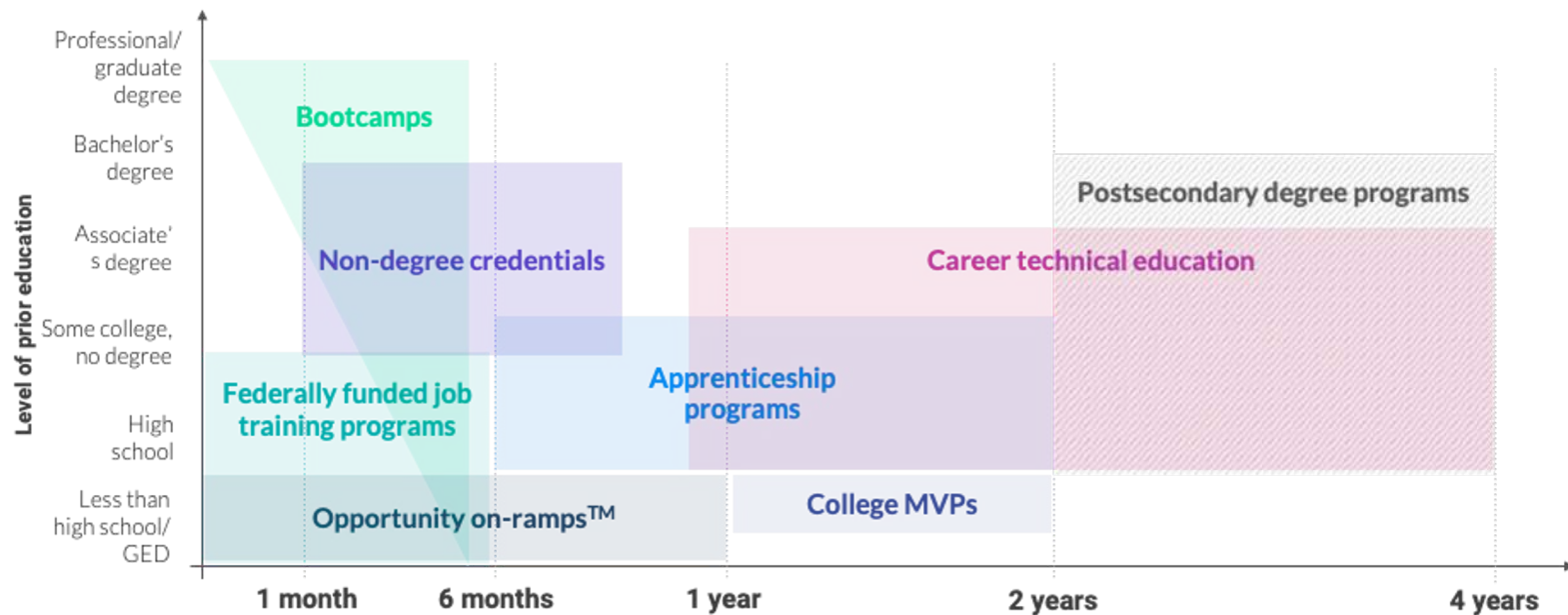
Of higher ed students are **NONTRADITIONAL** and need flexible learning options



CHARACTERISTICS INCLUDE:

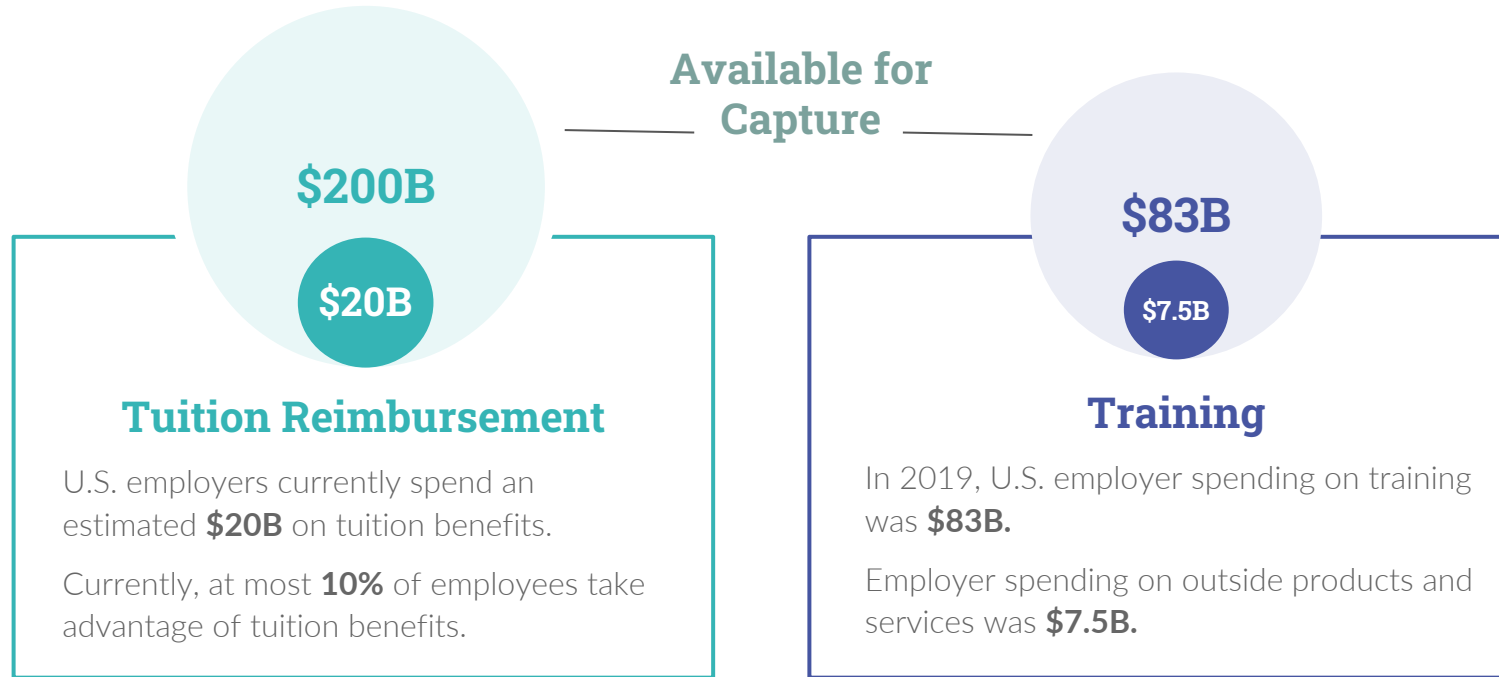
- Independent of parents for financial aid reasons
- One or more dependents
- Single caregiver
- Non-traditional high school diploma
- Delayed postsecondary enrollment
- Part- or full- time enrollment

Alt Degree- Unbundling of Traditional Higher Ed



The size of each box is not indicative of the number of students each program serves.

Education-to-business is at least a **\$27.5 billion** market today, with a potential of close to **\$300 billion...but**

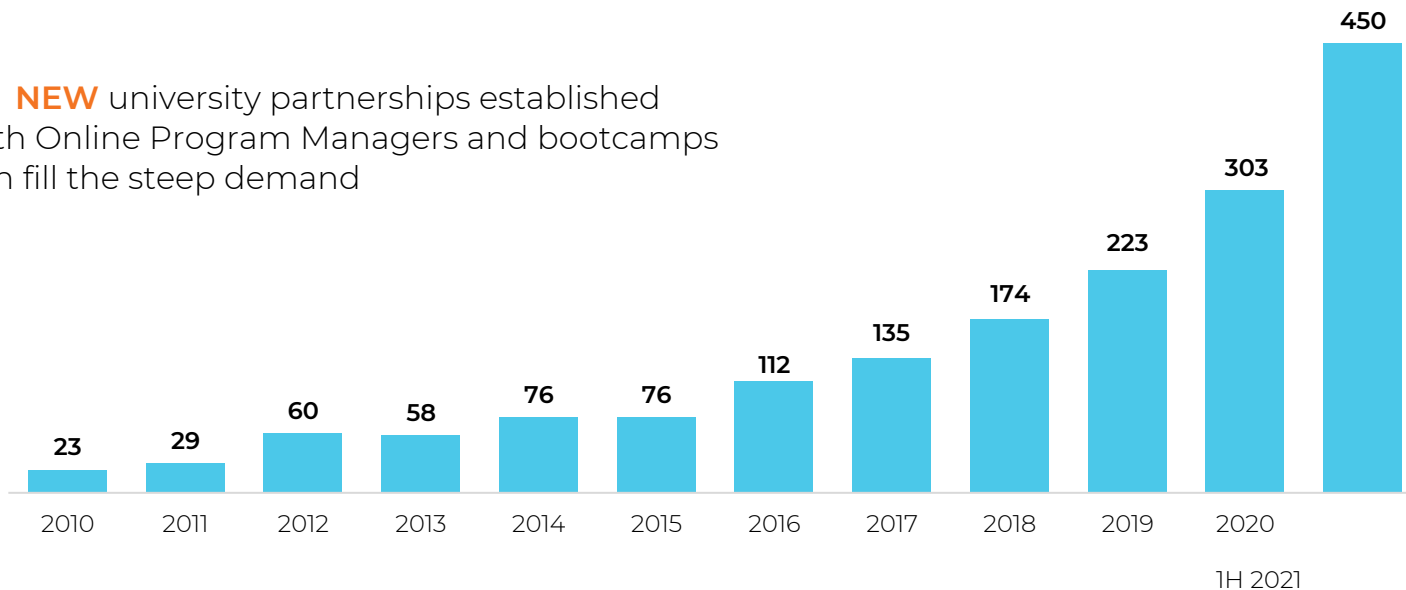


Source: Wall Street Journal, InsideHigherEd and Training Mag

Note: Figures for training spend may or may not include spend outside Learning and Development departments. Some respondents to Training Mag's survey report only the L&D department budget and others report all training budgets.

— **...Colleges are ill equipped to reshape and build capacity to meet this growth, and...**

NEW university partnerships established with Online Program Managers and bootcamps can fill the steep demand



— ...and students are turning to third-party alternatives



4K+
COLLEGES

coursera

are using Coursera for Campus to
deliver ready-made online courses

77M

LEARNERS SERVED

+65%

YOY GROWTH

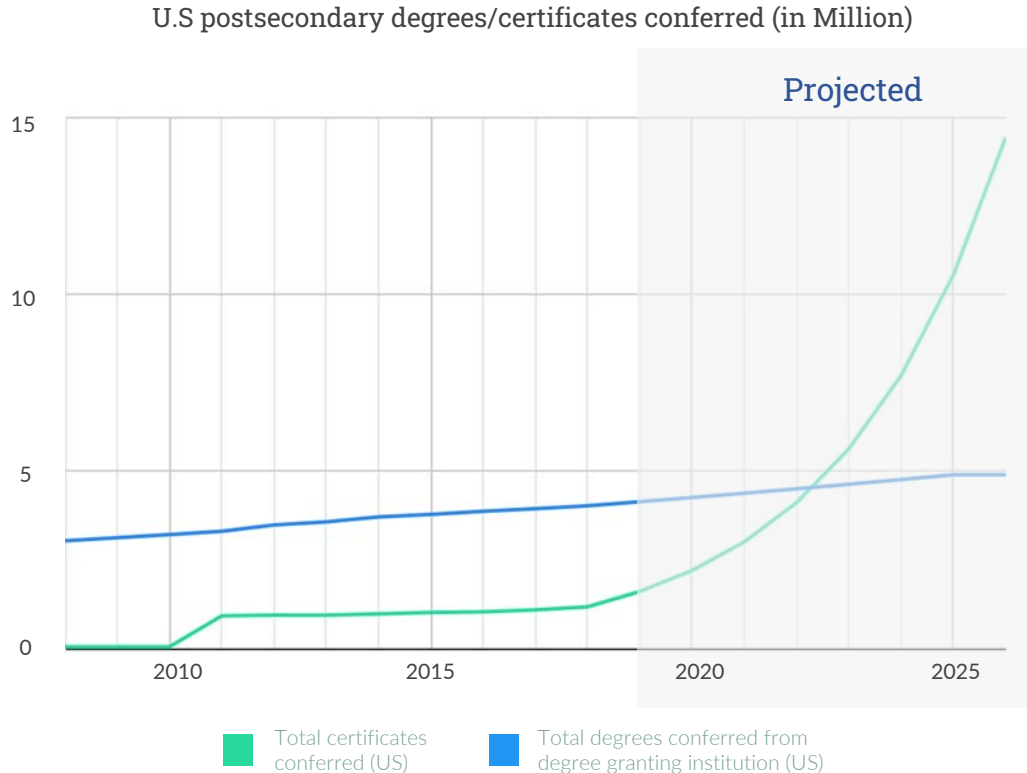
59M

ENROLLMENTS

+248%

YOY GROWTH

...as the certificate landscape grows rapidly with projections to surpass degree granting conferrals in 2022




Total certificates conferred has **grown by a staggering 37 percent** between 2008 - 2018.

Certificate conferrals is **projected to surpass degree conferrals in 2022.**


Source: IPEDS, Doleta, Udacity, Course report

Talent Supply-Demand Gap

Higher Ed...

- 
- Inflexible time based degree
 - Pressure to serve a new 60 Year Degree mission
 - Degree vs. Non Degree
 - Limited technology support structure for CBL, assessment, skill mapping, credentialing and personalized learning planning
 - Lack of student support structures for student success coaching and management

Employers...

- 
- HCM is in nascent stages in employee skill development
 - Lack of upskilling experience & internal structure
 - Inability address employee skill gaps/competencies to job role
 - Lack of persistent/ongoing measurement of employee learner competency linked to increased worker productivity
 - Cannot centrally or departmentally design, develop and manage upskilling programs

Labor Market Trends



Boomer bust adds to worker shortage

The pandemic pushed more than 3 million baby boomers into early retirement,

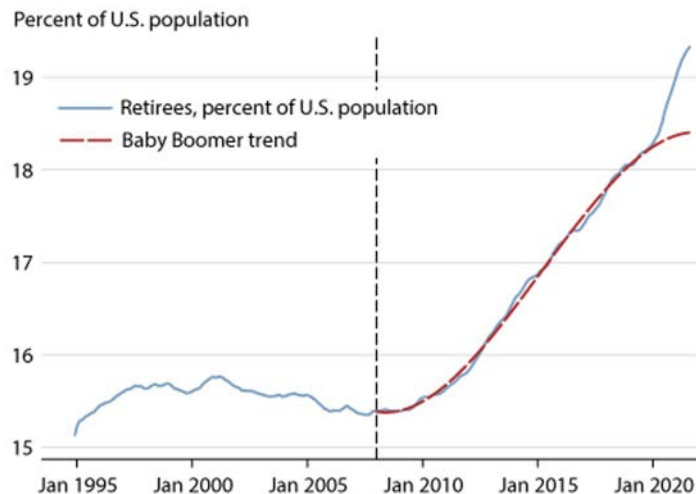
Why it matters: The wave of early retirements is contributing to the labor shortage roiling the U.S. economy.

What happened: Many older workers faced layoffs. Others left the workforce to protect themselves from the risk of infection.

- It's much harder for workers in their 50s and 60s — or older — to re-enter the workforce after a period of unemployment,
- It's likely that many of those who left jobs got discouraged and chose to retire instead.
- That includes working mothers who left jobs to care for kids and immunocompromised people who stayed home. Many could return

The big picture: The total number of people who left the workforce during the pandemic — including the 3 million early retirees — is around 5.25 million

Percentage of Retirees in the U.S. Population and the Baby Boomer Retirement Trend



NOTE: The percentage of retirees is a 12-month moving average, and the Baby Boomer trend is a cubic trend estimated between January 2008 and February 2020.

SOURCE: Current Population Survey and author's calculations.

...Where there is a mismatch between education, employment and career opportunities...

DESPITE
10.1M
JOB OPENINGS

in June 2021,

8.7M
people were
UNEMPLOYED in July

47%

Almost **HALF** of recent college grads are underemployed or unemployed (as of June 2021)

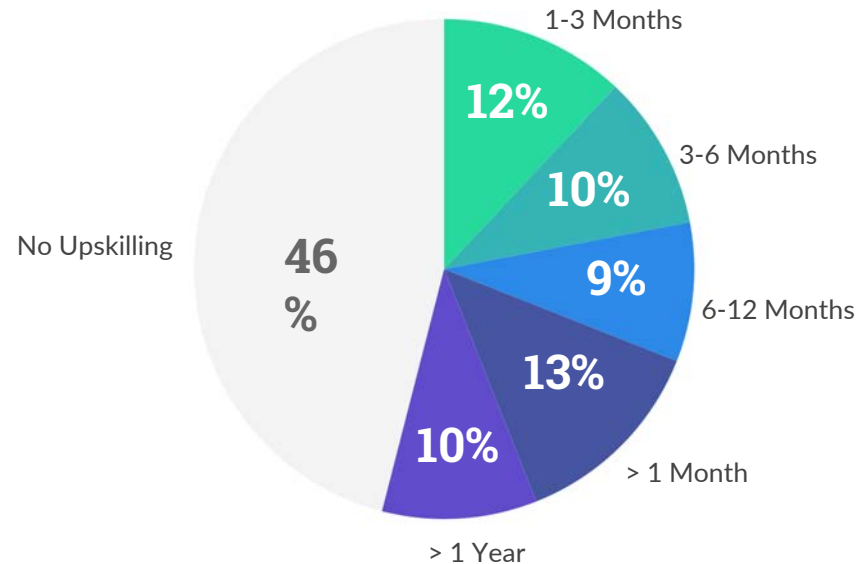
41%
UNDEREMPLOYED

6%
UNEMPLOYED

...And employers are seeking shorter time frames than a degree

54% of employees will need upskilling by 2022, and **25%** will need upskilling lasting less than six months.

Time Needed for Upskilling



The market is seeking ways to connect the Value Chain



Themes	College Entry	Post Secondary	Career Transition	Career	Career Lifecycle
	<ul style="list-style-type: none">• Program Planning• Major Mapping• Career Mapping	<ul style="list-style-type: none">• Job role skill mapping• Career “GPS”	<ul style="list-style-type: none">• Job search• Career Services gap	<ul style="list-style-type: none">• Career readiness• Upskilling	<ul style="list-style-type: none">• Inskilling• Upskilling• Competency Mgmt.
	<ul style="list-style-type: none">• Students• Advisors• Enrollment Mgmt.	<ul style="list-style-type: none">• Students• Advisors• Faculty• Academic Admin.	<ul style="list-style-type: none">• Students• Employers• Hiring Managers	<ul style="list-style-type: none">• Employee• Managers/directors• HCM/Talent development	<ul style="list-style-type: none">• Employee• Managers/directors• HCM• HR talent development
	Non-Degree Programs		Workforce Analytics		
	Intermediaries				
	Learning Exchange Platforms				
	Credentialing Platforms			Recruiting Platforms	
				HCM Talent Management	
				HCM-ATS	
				HR Management	

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Touchpoints Themes	College Entry	Post Secondary	Career Transition	Career	Career Lifecycle
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	Non-Degree Programs		Workforce Analytics		
	Intermediaries				
	Learning Exchange Platforms				
	Credentialing Platforms			Recruiting Platforms	
				HCM Talent Management	
				HCM-ATS	
				HR Management	



EMPLOYERS

- Assess and project talent demand & composition
- Access talent supply for talent pipeline
- Compare wage & other metrics relative to competitors



HIGHER EDUCATION

- Higher education reform & program quality
- Program alignment of to in-demand job roles
- Labor market job/skill identification feedback job ready students



STUDENTS

- Can benefit from talent marketplace for planning purposes



STATES & POLICYMAKERS

- Inform decisions on short/long range economic development
- Develop state economic incentive programs
- Identifying regional industry emerging skills needs
- State agency data interoperability facilitates state specific research for strategic planning



JOBSEEKERS & WORKFORCE AGENCIES

- State external talent marketplace
- Connect labor supply/demand
- Develop skills profiles & career paths
- Connect with real-time employer demand
- Use data/AI to inform Upskilling and placement

Disconnected Systems



***Data, AI & Job Tech
Well Positioned***

...and HR has New Clout

- HR departments are **gaining clout** as companies grapple with return-to-work plans and the war for talent
- Listings for HR jobs are spiking — **up 53%** from before the pandemic (Indeed)
- The rise C-suite **Chief People Officers**
- **Modern issues** that newly muscular HR departments must grapple with bridging talent gaps in high in-demand job roles.
Automation will play a key role





Employers want to see programs that integrate work and learning...

Top three **employer-recommended** priorities for colleges and universities:

1

INCORPORATE

real world projects and engagements with employers and the world of work

2

GIVE

academic credit for experience and on-the-job learning

3

INCLUDE

more industry and employer validation of curriculum

— ...but employers still struggle to hire

A disconnected environment

8.5
Million

Potential workers who are unemployed

10.9
Million

Record jobs open

The rate at which unemployed people are getting jobs is lower than it was pre-pandemic, and it's taking longer to hire people



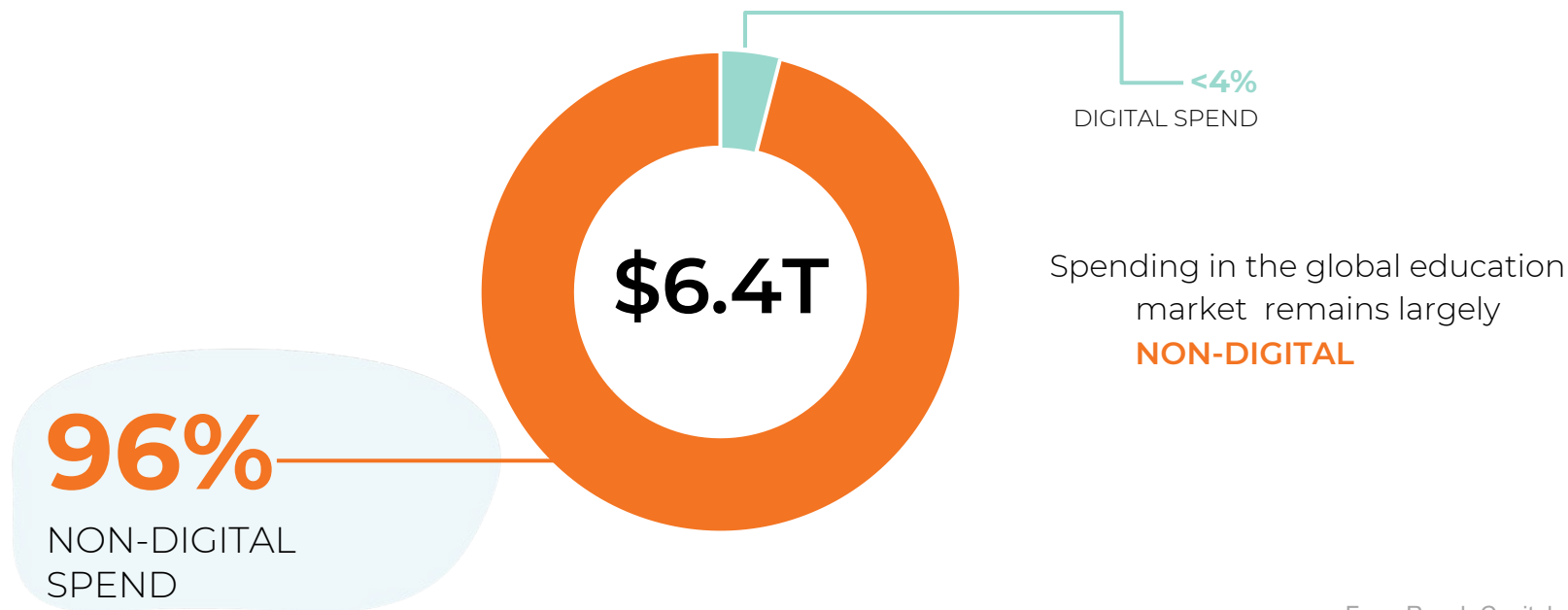


Capital Markets

Redesign Title Page



...and the education technology market opportunity remains massive



— ...amidst unprecedented funding for more edtech unicorns and highly valued startups



\$300M raise at \$3B
valuation



\$150M raise at \$3.8B



\$100M raise at \$1B



\$100M raise at
Undisclosed*



\$80M raise at \$1.5B



\$75M raise at \$1.3B

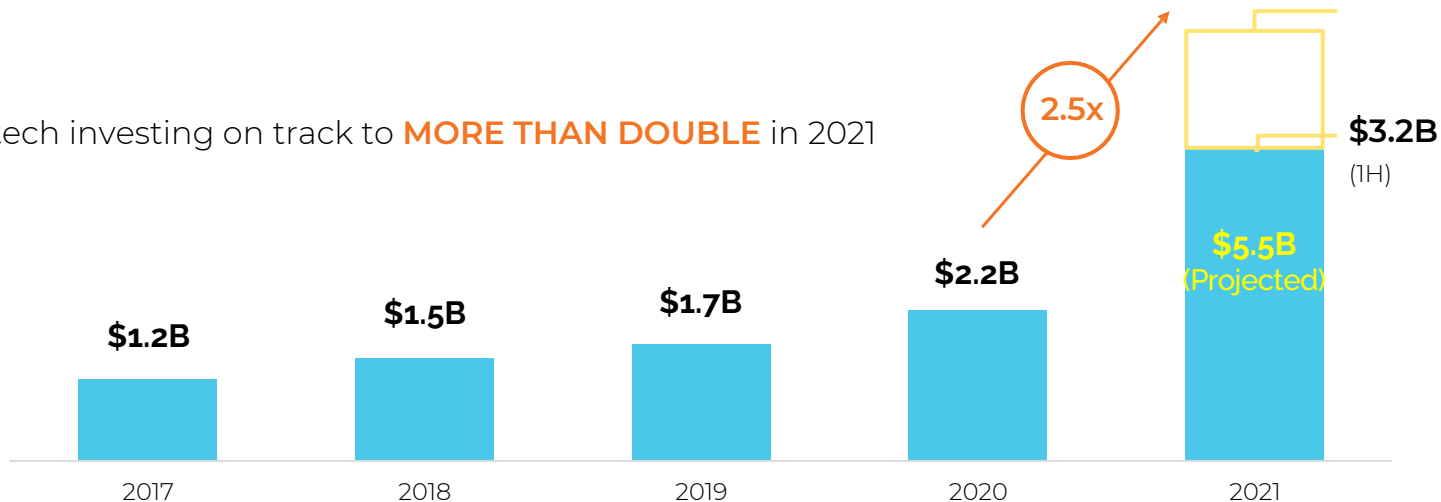


\$105M raise at \$804M

7 of the **LARGEST U.S. EDTECH INVESTMENTS** to date in 2021 went to K-12 and higher ed startups

Investments in the Ed Tech industry are at record highs...

U.S. edtech investing on track to **MORE THAN DOUBLE** in 2021



...as big exits via IPOs and M&A transactions accelerate

2021 IPOs

coursera

\$5.8B
valuation

 **PowerSchool**

\$3.5B

duolingo

\$3.7B


INSTRUCTURE

\$2.9B

2021 M&As

edX[®]

\$800M

transaction size

 **nearpod**

\$650M

Clever

\$500M

epic!

\$500M

Note: Nearpod and Epic! are exited companies from Reach Capital's portfolio

From Reach Capital.

Emergence of Job Tech





Job Tech Ecosystem

~\$375B Annually Bridging the
Education-to-Employment Gap

Job Seekers

Employers

~\$16b
Platforms for
Job Seekers

~\$4b Marketplaces (Job
boards, temp worker
platforms)

Platforms for Employers

~\$1b
Talent Discovery
(Based on Skill, Fit etc.)

~11b
Talent Engagement
(Career Coaching, Skill
Recognition etc.)






























~\$5b
Talent Selection
(Competency Skills
Assessment, Interview
Platforms etc.)

~\$2b Pathways to Employment (Avenica, TalentPath, WhiteHat)

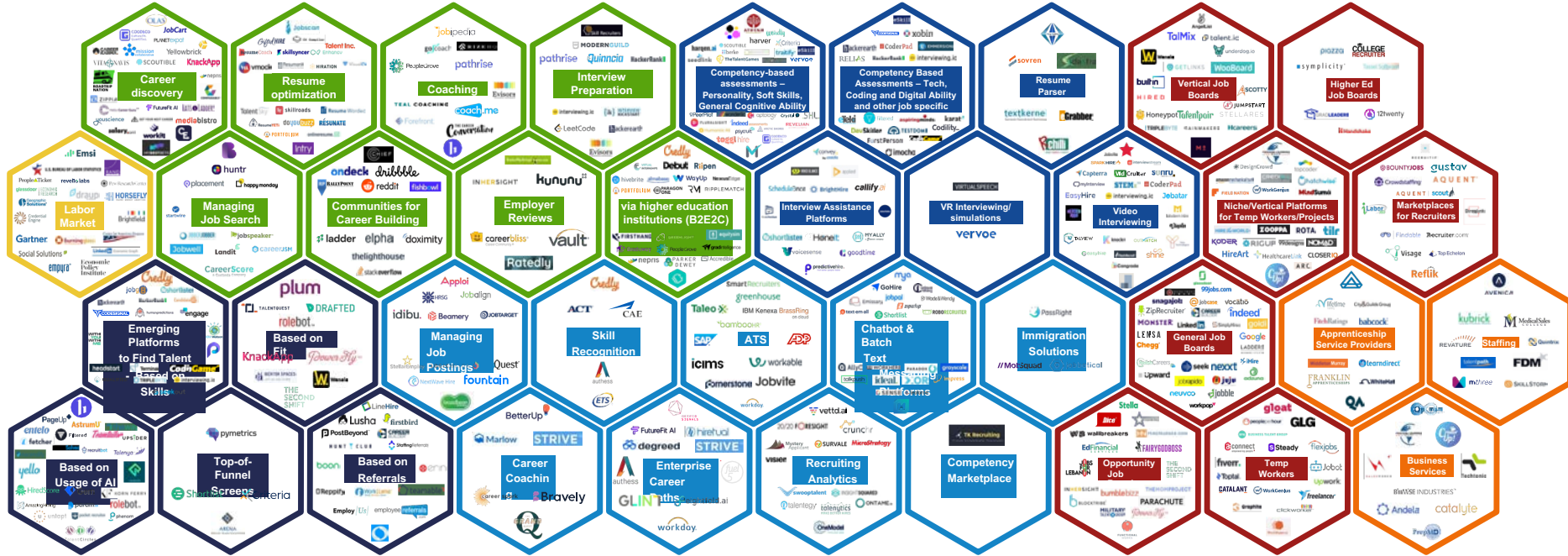
Labor Market Information

To date, most JobTech companies are tech-driven **point solutions solving select problems** like identifying or certifying talent. The next generation of JobTech companies **provide full-stack pathways to employment**, where employers identify high quality talent directly from sources (e.g., colleges), train them, and audit their capabilities before hiring talent full time

...but the market is fragmented and confusing

INTERMEDIARIES	DEGREE/NON-DEGREE PROGRAMS	LEARNING EXCHANGE PLATFORMS	COMPETENCY-SKILLS MAPPING
    	         	      	  
NEXT GEN LEARNING TECH	WORKFORCE ANALYTICS	SKILLS FRAMEWORKS	CREDENTIALING PLATFORMS
    	 	   	  

We've analyzed over 200 workforce education companies in over 10 categories



Seed Stage

PE backed

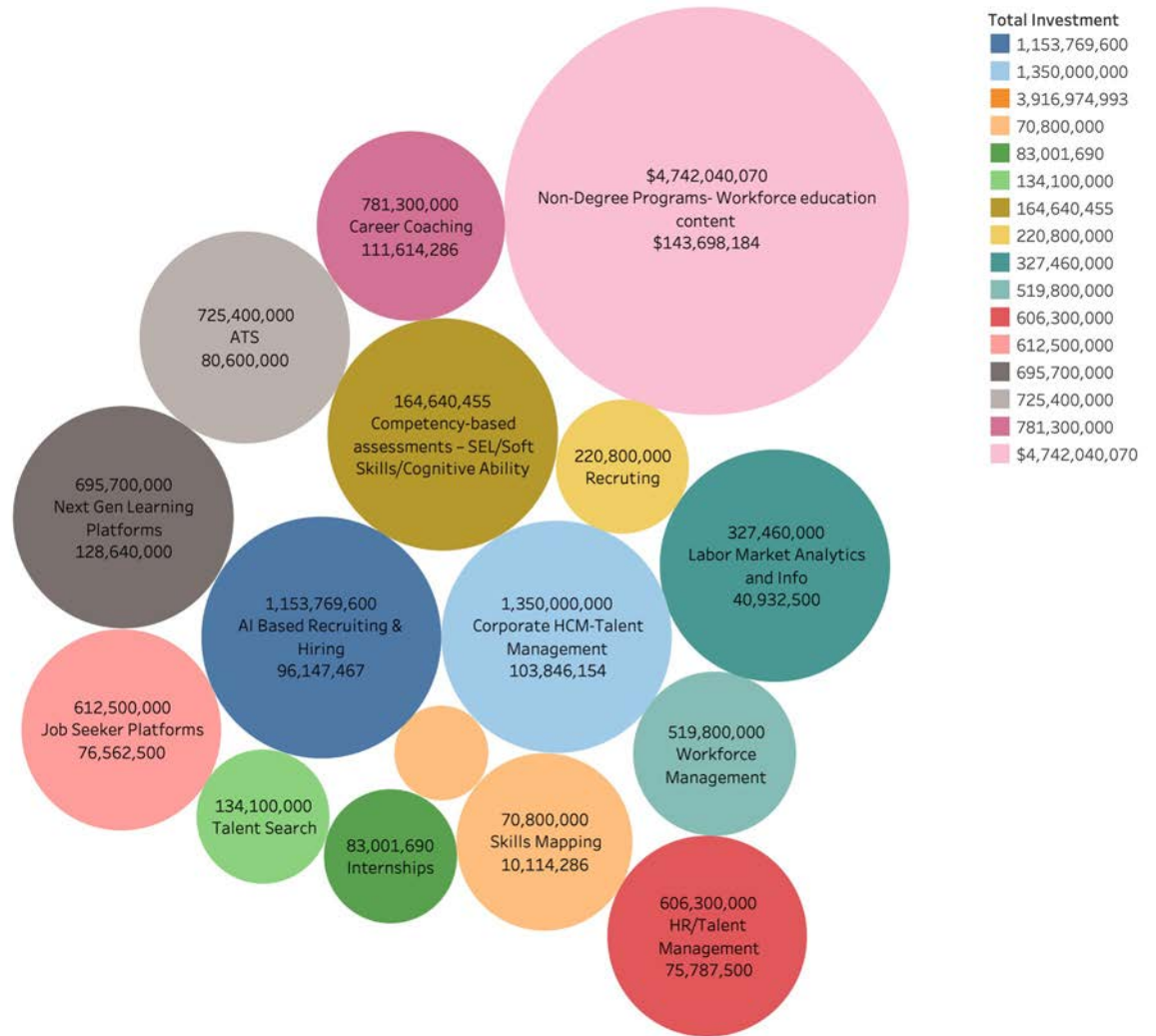
Workforce Market- Table

Total Investment	Workforce Category	# Companies	High	Low
	Capitalization by Category			
1,056,700,000	Learning Exchange Platforms	8	390,000,000	3,000,000
1,153,769,600	AI Based Recruiting & Hiring	13	638,000,000	7,100,000
1,350,000,000	Corporate HCM-Talent Management	12	396,800,000	3,000,000
3,916,974,993	Staffing Agencies		1,100,000,000	1,200,000
70,800,000	Skills Mapping	7	21,000,000	3,000,000
83,001,690	Internships	4	37,300,000	1,900,000
134,100,000	Talent Search (corporations)	4	87,500,000	3,000,000
164,640,455	Competency-based assessments – SEL/Soft Skills/Cognitive Abil..	12	83,300,000	3,100,000
220,800,000	Recruting Analytics	4	216,500,000	2,500,000
327,460,000	Labor Market Analytics and Info	12	180,000,000	650,000
519,800,000	Workforce Management Intermediaries	6	378,000,000	5,800,000
606,300,000	HR/Talent Management	9	3,600,000	283,300,000
612,500,000	Job Seeker Platforms	9	434,000,000	3,100,000
695,700,000	Next Gen Learning Platforms	11	550,000,000	4,000,000
725,400,000	ATS	10	255,500,000	1,900,000
781,300,000	Career Coaching	8	566,900,000	1,000,000
\$4,742,040,070	Non-Degree Programs- Workforce education content	37	1,000,000,000	4,200,000
Total Invested	Null			

Companies, High and Low broken down by Total Investment and Workforce Category. The view is filtered on Exclusions (Total Investment, Workforce Category), which keeps 20 members.

\$17.2 Billion invested in Workforce & Job Tech

- 170 Companies
- 18 Categories
- Mean Average Investment 1.6 billion





Thank you.

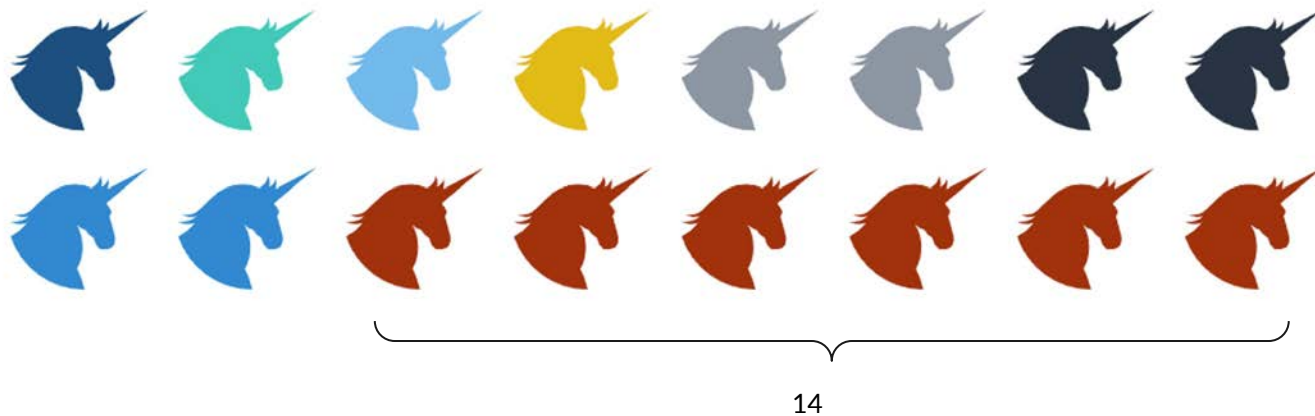




Graveyard

Growing enrollment

New edtech unicorn creations by year



2014 2015 2016 2017 2018 2019 2020 2021*

Unicorns defined as companies valued at \$1 billion or more

Jobtech Market Map

