



Higher Ed – Market Update

Q4 2023

End-User Market Canvas

The higher education technology landscape can be defined by outcomes of the product's end-user:

Back Office



Administrative

- Provide ERPs to facilitate administrative obligations
- Streamline management of financial processes and general workflows

Recruiting / Student Lifecycle Mgmt.

- Identify and engage with students to cultivate genuine interest in applicants who are the right fit for the institution
- Provide predictive analytics and forecasting to assist in reaching enrollment goals
- Provide CRMs to amplify and automate outreach and marketing
- Analyze factors leading to student churn and success to increase student retention and graduation rate

Student Information Systems

- Collect and analyze data from students to provide insights to the institution faculty
- Integration and interoperability with the learning management system and administrative tasks

Classroom



Digital Content / Resources

- Enable institutions to create class recordings, collect and organize curriculum content, and use tools to distribute content to students
- Provide entire online courses, certifications, and degrees

Engagement / Productivity

- Improve student engagement during online learning with techniques such as gamification and periodic assessments
- Provide engaging channels for peer-to-peer collaboration
- Provide support and tools to increase student productivity and solve the pain points of an analogue classroom

Online Program Mgmt. / LMS

- Enable instructors to plan, deliver, and assess the student learning process through the cloud
- Provide scalability to the learning environment by allowing students and faculty to be location-independent and asynchronous
- Authenticate test-taker identity and enable institutions to securely administer exams

Student Success



Career Planning

- Provide marketplaces for students to research their interests and identify the best fitting internships and post-grad full-time opportunities
- Enable institutions to provide students with connections and career advice
- Strengthen and facilitate relationships with university alumni

Student Support Systems

- Provide students with problem-solving and tutoring solutions
- Facilitate student test preparation & provide study tools
- Enable more fluid communication and interaction between students and faculty
- Provide a myriad of online resources such as e-textbooks, study resources for students, and instructional tools for professors to augment the learning experience
- Provide financial aid and help with the enrollment process

Recent Notable Transactions

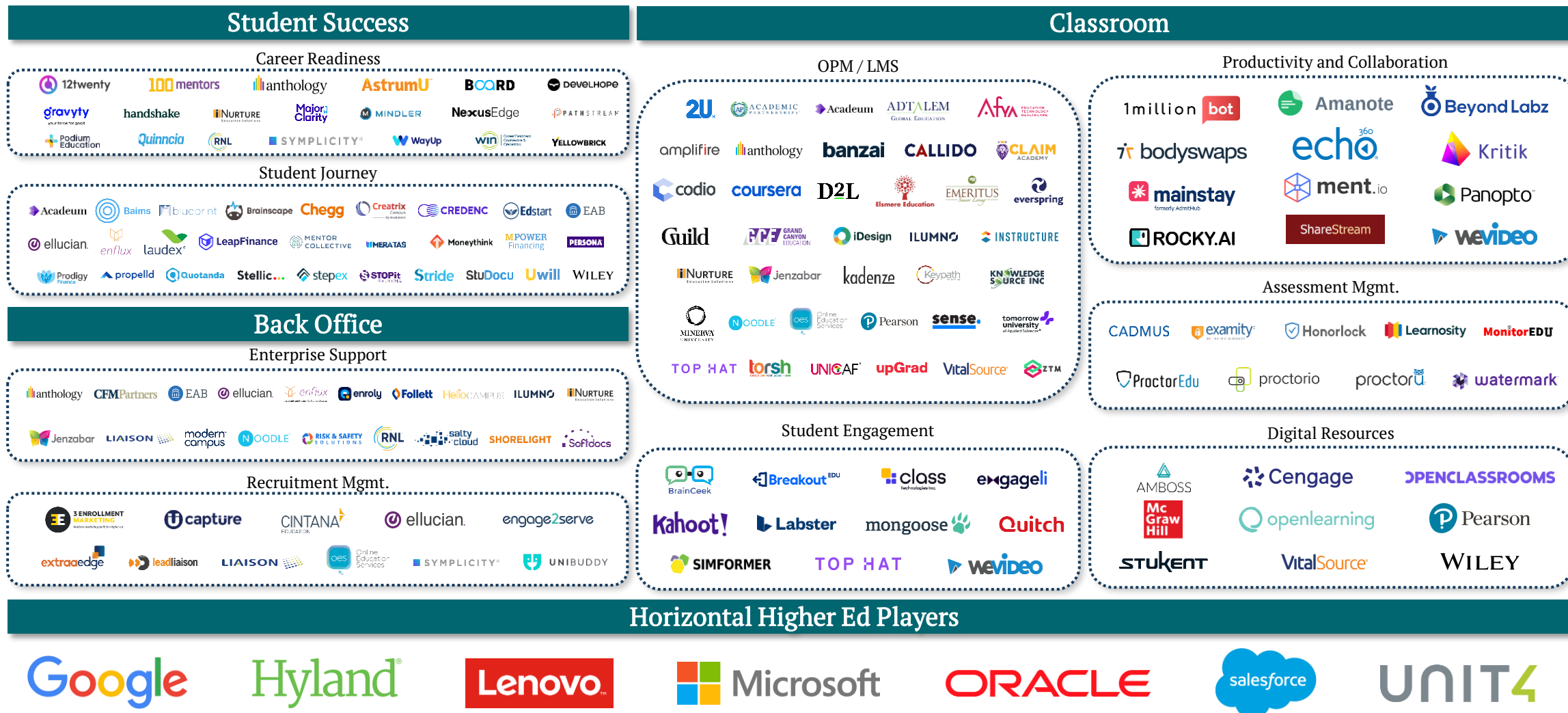
Higher ed technology businesses are often differentiated by platform completeness. While some of the largest players add products by internal development, many opt to add products via M&A bolt-on

| | | |
|------------------------------|--|--|
| Growth/ Private Equity | Kahoot! <ul style="list-style-type: none"> Q4 2023 (Pending) Engagement SaaS | Goldman Sachs <ul style="list-style-type: none"> EV: TBD Implied Revenue Multiple: TBD |
| | VitalSource <ul style="list-style-type: none"> 6/1/21 Digital content creation | FP FINANCIAL PARTNERS <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | wevideo <ul style="list-style-type: none"> 12/14/20 Video editing | THOMPSON STREET CAPITAL PARTNERS <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| Strategic M&A | TRIBAL <ul style="list-style-type: none"> Q4 2023 (Pending) SIS & Assessment mgmt | ellucian. <ul style="list-style-type: none"> EV: TBD Implied Revenue Multiple: TBD |
| | Concourse <ul style="list-style-type: none"> 9/21/22 University program database | EAB <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | campuslogic <ul style="list-style-type: none"> 4/19/22 Student financial success | ellucian. <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | amplifire <ul style="list-style-type: none"> 7/21/22 eLearning platform | polarispartners <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | UNIT4 <ul style="list-style-type: none"> 5/21/21 ERP / back-office support | TA ASSOCIATES Partners Group <ul style="list-style-type: none"> EV: \$2.2B Implied Revenue Multiple: N/A |
| | anthology <ul style="list-style-type: none"> 2/26/20 SIS, CRM, ERP | VERITAS <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | Follett <ul style="list-style-type: none"> 2/2/22 Digital content provider | Jefferson River Capital <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | EAB <ul style="list-style-type: none"> 5/10/21 Resource and research provider | BC PARTNERS <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | HelioCAMPUS <ul style="list-style-type: none"> 12/1/19 ERP / back-office support | PAMLICO CAPITAL <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | watermark <ul style="list-style-type: none"> 4/17/18 Assessments and e-portfolios | TCV <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | jobzology <ul style="list-style-type: none"> 8/9/23 Career analytics | PeopleGrove <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | playposit <ul style="list-style-type: none"> 8/16/22 Interactive LMS | wevideo <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | gratavid <ul style="list-style-type: none"> 5/31/22 Video and testimonial editing | Graduway <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | talentspace <ul style="list-style-type: none"> 3/31/22 Job recruiting | handshake <ul style="list-style-type: none"> EV: \$22M Implied Revenue Multiple: N/A |
| | CONCENTRIC SKY <ul style="list-style-type: none"> 4/13/22 Credential verification | INSTRUCTURE <ul style="list-style-type: none"> EV: \$21M Implied Revenue Multiple: N/A |
| | aktiv Learning <ul style="list-style-type: none"> 12/5/22 LMS for STEM coursework | TOP HAT <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |
| | mondlly <ul style="list-style-type: none"> 4/29/22 VR language LMS | Pearson <ul style="list-style-type: none"> EV: \$217M Implied Revenue Multiple: 15.9x |
| | CLUTCH <ul style="list-style-type: none"> 3/2/22 Tutoring & educational resources | Pearson <ul style="list-style-type: none"> EV: N/A Implied Revenue Multiple: N/A |

Target | Investor

Evolving Landscape

The COVID-19 pandemic made higher ed institutions more inclined to adopt infrastructure-providing technology, and this has created greater opportunities for new and incumbent players



Expectations for Higher Ed Technology

The higher ed software industry is poised for rapid development in key areas, with massive M&A potential on the horizon

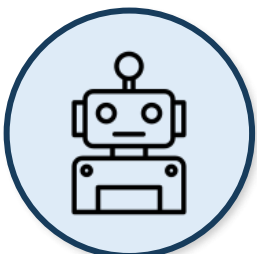
Immediate



Innovation at Scale

- Digital content is more convenient and lower cost to generate than its printed counterpart
- Online program management providers are developing platforms capable of delivering quality education courses with a focus on career progression in rapidly growing audiences
- Lower-cost simulators and VR offerings are making their way into higher ed curriculums as gamification / engagement solutions for life sciences and engineering fields

1 – 5 Years



AI transforms classrooms and administrative tasks

- Chatbots will be integrated into dorm rooms to provide personalized information and into classrooms as teaching assistants
- Professors will use AI algorithms to help grade assessments and provide individualized feedback to students
- Admissions committees can use AI to quickly comb through numerous prospective students' applications and categorize them based on certain qualities

5 – 10+ Years



Expanding digital education ecosystem

- Innovation and cost-optimization will drive a shift from analogue to online and hybrid education programs and it will be critical to improve the technology's accessibility in order to avoid exacerbating the digital divide
- Demand for higher education will increase from developing markets and internationally. Campuses cannot be built fast enough for all the new students, so the solution will be scalable, quality online education
- Education platforms add micro credentialling and career readiness to enable further specialization and upskilling of the workforce

Top Acquirers

The top strategic buyers in the industry are scouring the market for synergistic point-solutions to add to their platforms. Acquisitions of smaller solutions consistently trade at high multiples with significant liquidity for shareholders



EV: \$2.6B
Public: CNGO

EBITDA: \$383M
FTEs: ~4,500

Focus Areas: Digital coursework & resources, e-learning



Provide quality digital products and services to students, equipping them with competencies needed to advance their careers



EV: \$1.4B
Public: CHGG

EBITDA: \$248M
FTEs: ~2,100

Focus Areas: Digital coursework, mentorship & training



Provides homework help, digital and physical textbooks, online tutoring, and other student services



EV: ND
Private

EBITDA: ND
FTEs: ~2,100

Focus Areas: Analytics, student success, educational services



Drive change through data-driven insights in five major areas: enrollment, student success, data & analytics, institutional strategy, and inclusion



EV: ND
Private

Raised: \$909M
FTEs: ~3,900

Focus Areas: SIS, enrollment, financial aid



Provides universities with solutions that result in organizational growth and student success



EV: \$4.2B
Public: INST

EBITDA: \$195M
FTEs: ~1,200

Focus Areas: Productivity, enterprise support, SIS



Provider of LMS and digital education support and communication solutions



EV: \$9.2B
Public: PSON

EBITDA: \$1.4B
FTEs: ~20,200

Focus Areas: LMS, OPM, education data analytics



Provides digital content, assessments, qualifications, and data



EV: ND
Private

Raised: ND
FTEs: ~5,700

Focus Areas: Recruiting, student engagement, fundraising



Enables higher education institutions to scale, optimize, and diversify enrollment and fundraising



EV: \$2.7B
Public: WLY

EBITDA: \$419M
FTEs: ~8,800

Focus Areas: Digital educational content, recruitment management

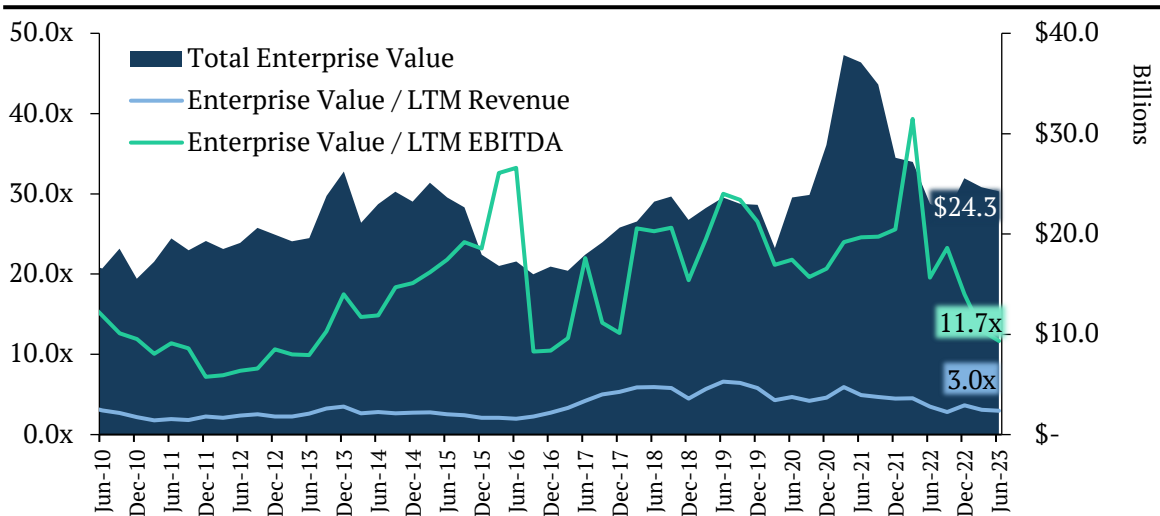


Develops and provides digital education, learning, assessment, and certification solutions

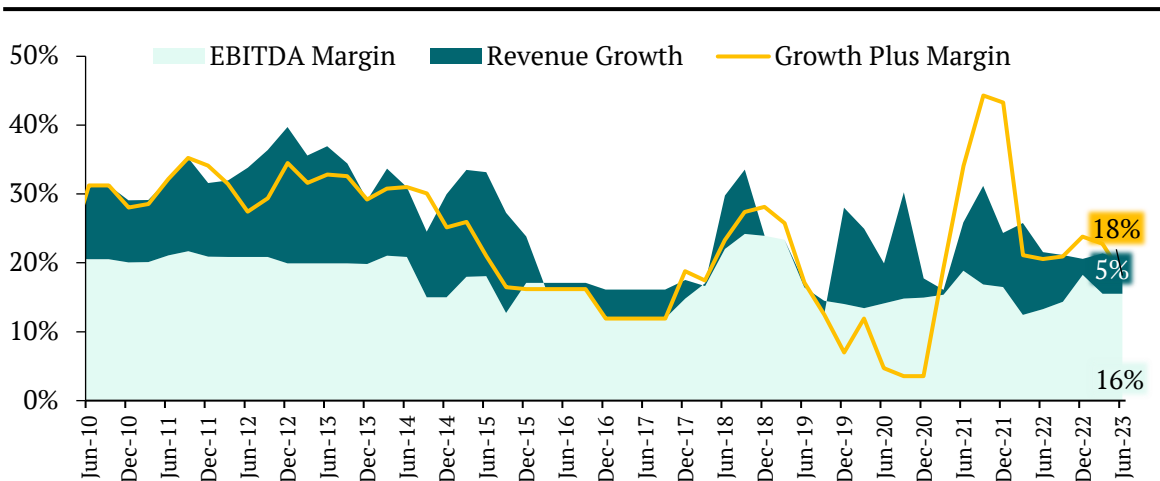
Appendix I – Higher Ed Tech Trading Comps

Trading Comps: Vertical Players

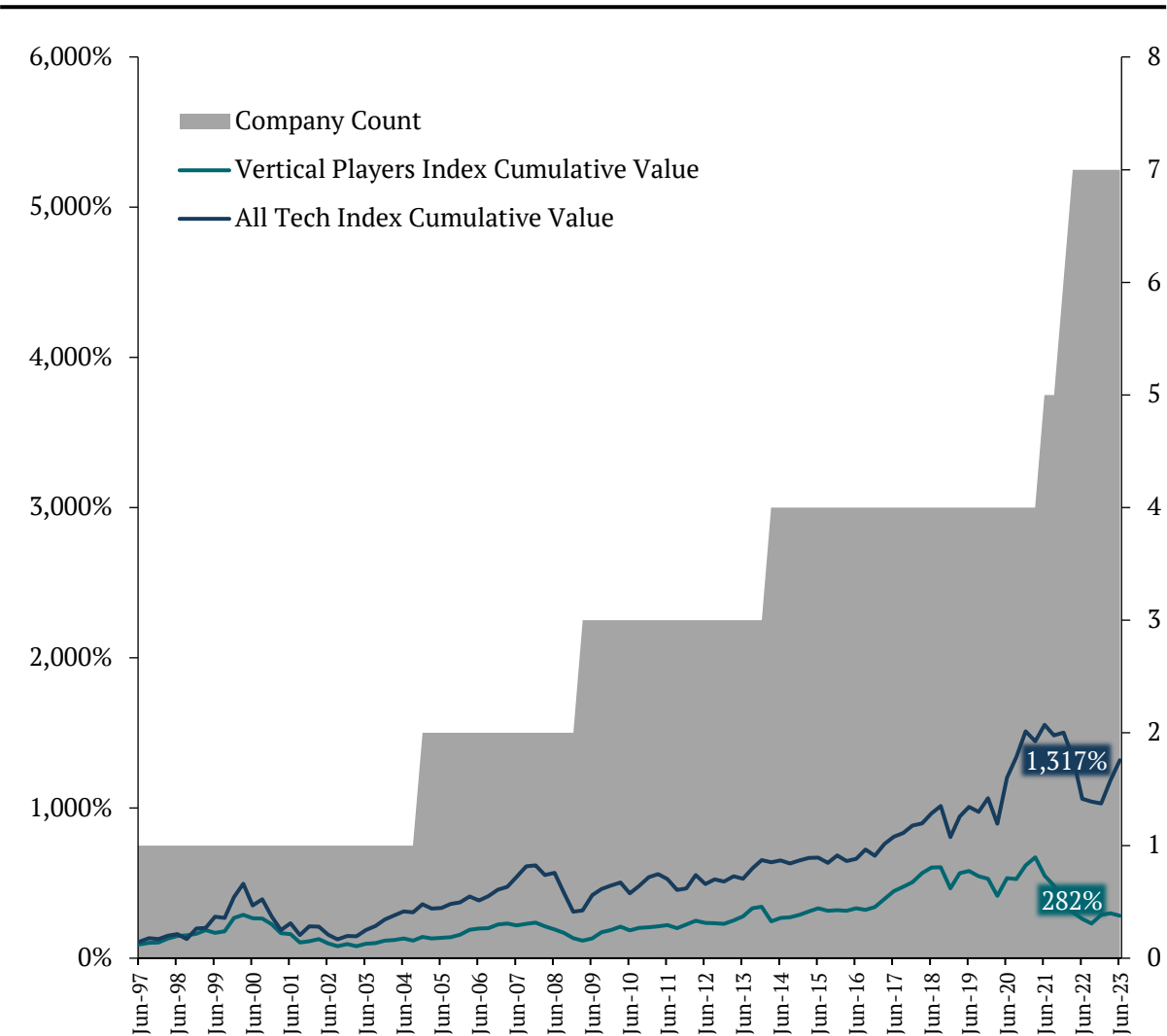
Median Subsector Trading Multiples



Subsector Growth + Margin

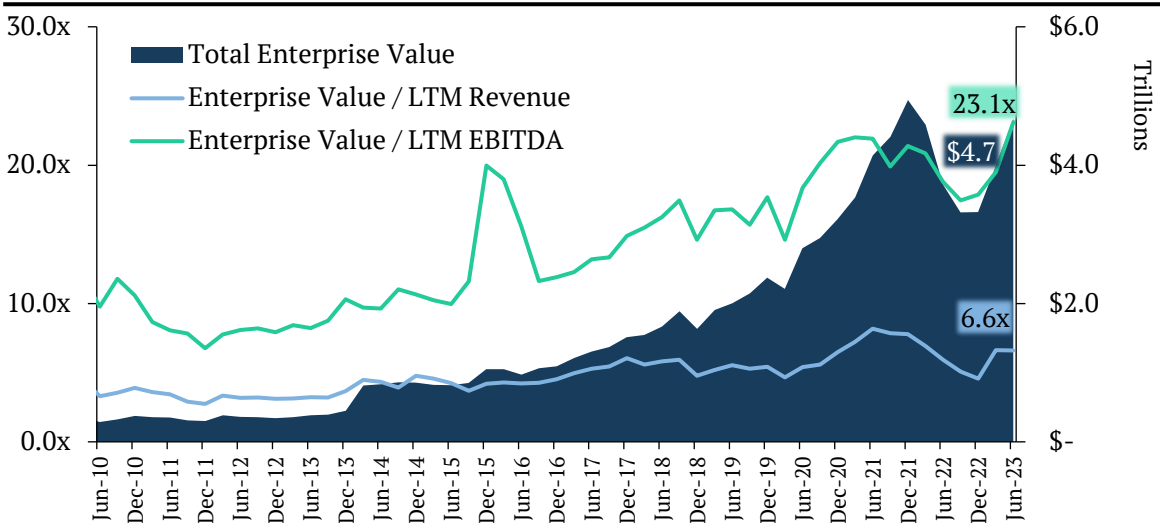


Company Count and Subsector Index vs. All Tech Index

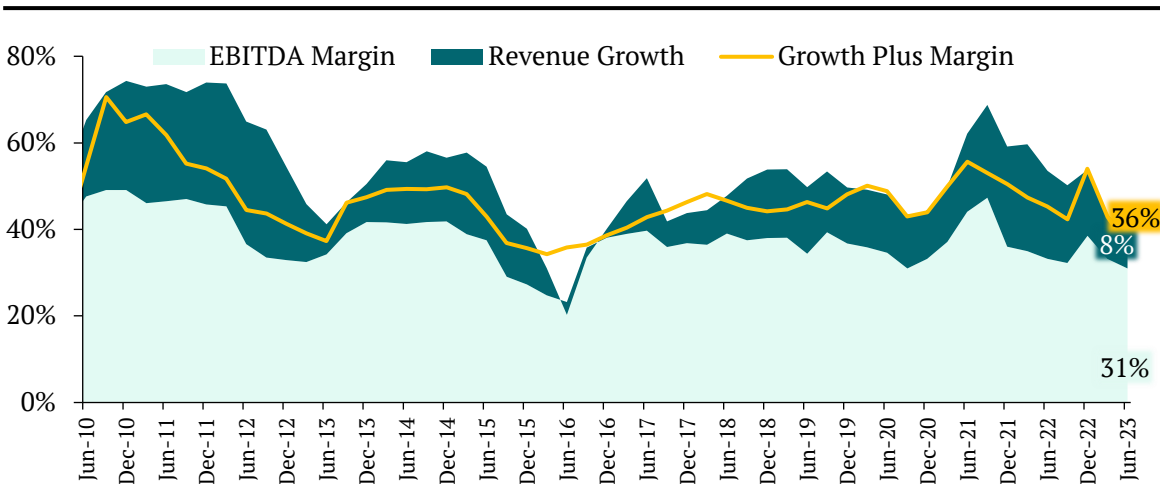


Trading Comps: Horizontal Players

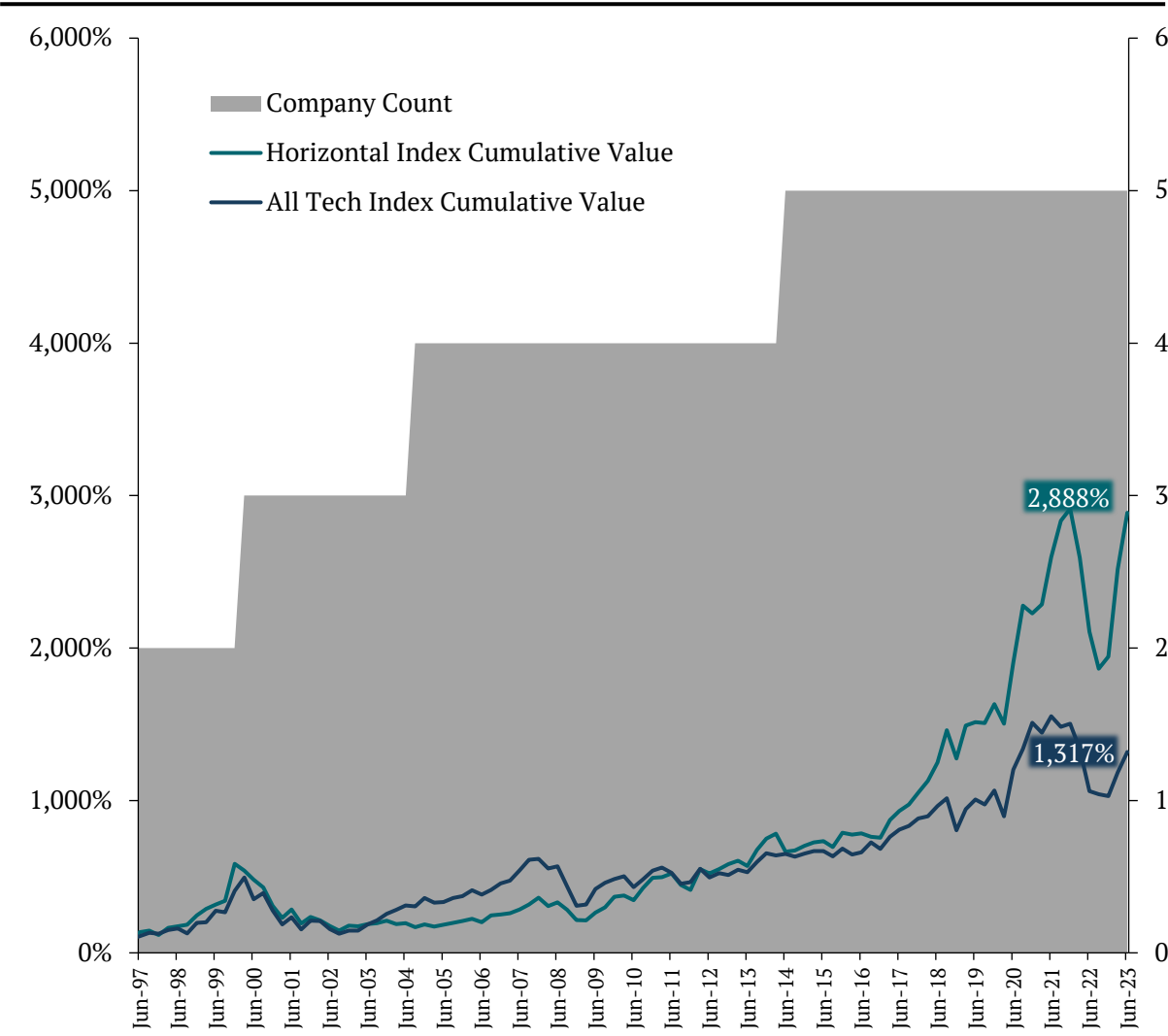
Median Subsector Trading Multiples



Subsector Growth + Margin

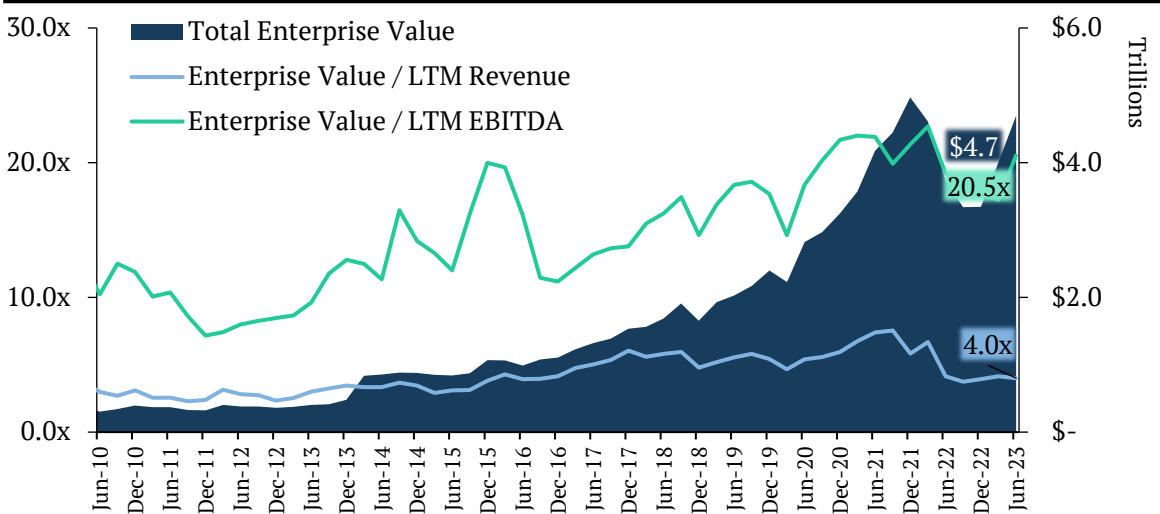


Company Count and Subsector Index vs. All Tech Index

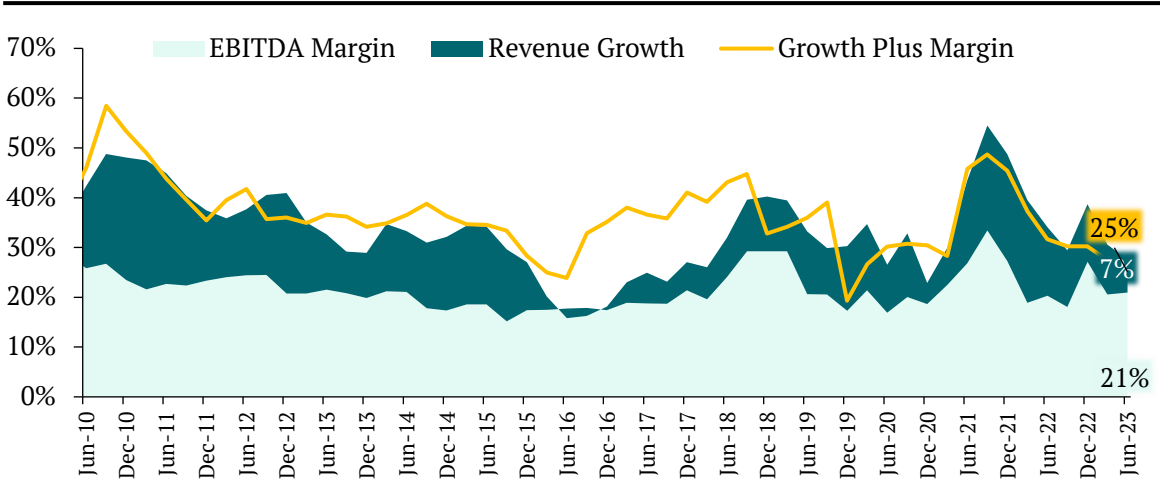


Trading Comps: All Higher Ed Tech

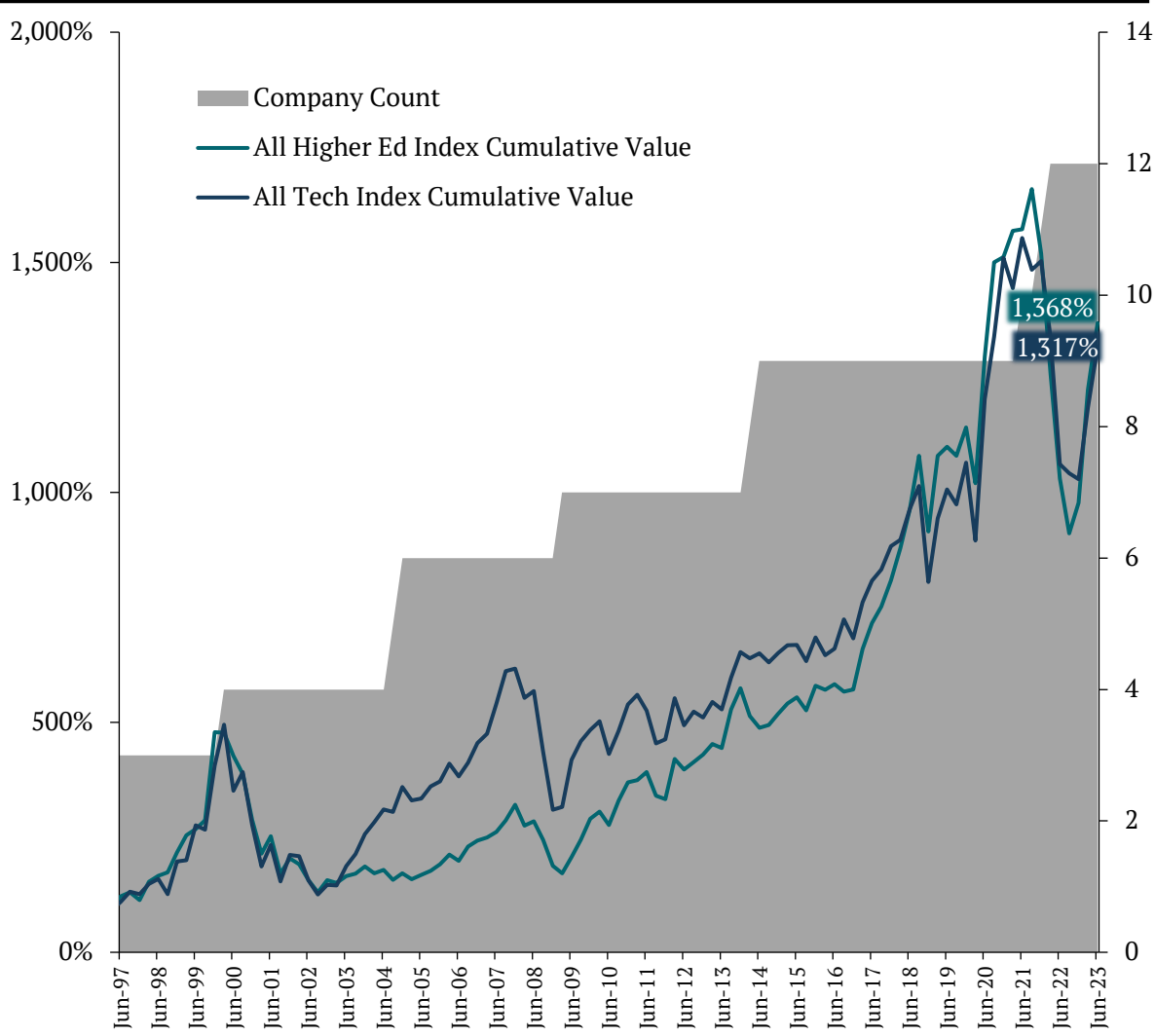
Median Subsector Trading Multiples



Subsector Growth + Margin



Company Count and Subsector Index vs. All Tech Index



Higher Ed Tech Trading Details

Comparable Public Companies

| (USD, in millions, except stock price) Company | Stock Price 10/12/2023 | Market Cap | Cash | Enterprise Value | Revenue | | | EBITDA | | | Enterprise Value / Revenue | | | Enterprise Value / EBITDA | | | Revenue Growth | EBITDA Margin | Growth + Margin | Gross Margin | | | | |
|---|---------------------------|---------------|--------------|---------------------|--------------|------------|------------|------------|------------|------------|----------------------------|-----------------|---------|---------------------------|-------|---------|----------------|---------------|-----------------|--------------|-------|-------|-------|-------|
| | | | | | NTM | LTM | Last FY | NTM | LTM | Last FY | NTM | LTM | Last FY | NTM | LTM | Last FY | NTM | LTM | Last FY | NTM | NTM | NTM | LTM | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Higher Education Technology | | | | | | | | | | | | | | | | | | | | | | | | |
| Microsoft | \$ | 331.16 | \$ 2,469,802 | \$ 111,256 | \$ 2,418,511 | \$ 241,193 | \$ 211,915 | \$ 211,915 | \$ 122,468 | \$ 101,785 | \$ 101,785 | 10.0x | 11.4x | 11.4x | 19.7x | 23.8x | 23.8x | 14% | 51% | 65% | 69% | | | |
| Alphabet | | 140.29 | 1,778,866 | 118,332 | 1,689,648 | 329,460 | 289,531 | 282,836 | 134,812 | 85,669 | 85,439 | 5.1x | 5.8x | 6.0x | 12.5x | 19.7x | 19.8x | 14% | 41% | 55% | 55% | | | |
| Oracle | | 109.11 | 300,345 | 12,083 | 377,674 | 54,695 | 50,962 | 49,954 | 27,647 | 19,171 | 18,454 | 6.9x | 7.4x | 7.6x | 13.7x | 19.7x | 20.5x | 7% | 51% | 58% | 72% | | | |
| Salesforce | | 205.68 | 201,265 | 12,397 | 201,668 | 36,593 | 33,071 | 31,352 | 14,284 | 6,662 | 4,446 | 5.5x | 6.1x | 6.4x | 14.1x | 30.3x | 45.4x | 11% | 39% | 50% | 75% | | | |
| Lenovo | | 22.19 | 13,214 | 4,423 | 13,610 | 60,666 | 57,891 | 61,947 | NM | 3,218 | 3,686 | 0.2x | 0.2x | 0.2x | NM | 4.2x | 3.7x | 5% | NM | 5% | 17% | | | |
| Pearson | | 10.75 | 7,839 | 448 | 9,152 | 4,581 | 4,729 | 4,734 | 1,018 | 1,211 | 732 | 2.0x | 1.9x | 1.9x | 9.0x | 7.6x | 12.5x | (3%) | 22% | 19% | 48% | | | |
| Blackbaud | | 69.16 | 3,766 | 29 | 4,634 | 1,176 | 1,069 | 1,058 | 384 | 77 | 81 | 3.9x | 4.3x | 4.4x | 12.1x | 60.4x | 57.3x | 10% | 33% | 43% | 53% | | | |
| Instructure | | 26.64 | 3,850 | 126 | 4,233 | 563 | 507 | 475 | 222 | 131 | 122 | 7.5x | 8.3x | 8.9x | 19.1x | 32.2x | 34.8x | 11% | 39% | 50% | 65% | | | |
| Grand Canyon Education | | 115.32 | 3,502 | 233 | 3,350 | 990 | 928 | 911 | 302 | 267 | 269 | 3.4x | 3.6x | 3.7x | 11.1x | 12.6x | 12.5x | 7% | 31% | 37% | 53% | | | |
| Coursera | | 18.81 | 2,844 | 717 | 2,138 | 690 | 580 | 524 | 4 | (150) | (161) | 3.1x | 3.7x | 4.1x | NM | NM | NM | 19% | 1% | 20% | 57% | | | |
| Chegg | | 8.20 | 974 | 385 | 1,378 | 708 | 740 | 767 | 216 | 213 | 189 | 1.9x | 1.9x | 1.8x | 6.4x | 6.5x | 7.3x | (4%) | 31% | 26% | 74% | | | |
| D2L | | 5.20 | 274 | 118 | 177 | 191 | 167 | NM | 12 | (12) | NM | 0.9x | 1.1x | - | 14.5x | NM | NM | 14% | 6% | 20% | 64% | | | |
| LTM = Last Twelve Months NM = Not Material FY = Calendar Year | | | | | | | | | | | | 25th Percentile | | | 2.0x | 1.9x | 2.8x | 11.3x | 8.8x | 12.5x | 6.2% | 26.4% | 20.2% | 53.0% |
| Sources: PitchBook, Company Filings, and IP Estimates | | | | | | | | | | | | Median | | | 3.7x | 4.0x | 4.4x | 13.1x | 19.7x | 20.1x | 10.4% | 32.6% | 39.9% | 60.7% |
| Sorted by Enterprise Value | | | | | | | | | | | | 75th Percentile | | | 5.9x | 6.4x | 7.0x | 14.4x | 28.6x | 32.0x | 13.8% | 40.2% | 51.5% | 69.8% |
| | | | | | | | | | | | | Mean | | | 4.2x | 4.7x | 5.1x | 13.2x | 21.7x | 23.7x | 8.6% | 31.2% | 37.3% | 58.5% |

Appendix II – IKONA Partners Overview

IKONA At-a-Glance and Key Statistics

At IKONA, we're transparent about our focus areas and excel at partnering with companies that fit our specialized parameters

Sector Expertise



Vertical Software

- K-12, Higher-Ed, and Corporate Learning
- Industrial and Manufacturing
- Legal, Tax, and Professional Services
- Real Estate and Hospitality
- Entertainment, Media, Sports
- Clean, Food, and ESG Tech
- Health IT & Life Sci



Application Software

- GRC & Cybersecurity
- Supply Chain & Logistics
- HCM & Workforce
- Asset Management
- Sales Enablement
- Marketing Tech



SMB, B2C, and Tech-Enabled Services

- Field Services & Payments
- Digital Marketing
- eLearning & EdTech
- Internet Marketplaces
- Mobile Apps
- Digital Commerce
- Data-as-a-Service
- Managed Services

Transaction Types



Mergers & Acquisitions



Recaps & Capital Raises



Secondaries

- Sell/Buy-Side Advisory
- Merger-of-Equals
- Divestitures and Spinoffs
- LBOs

- Minority, 50/50, Majority
- Bridge Financing
- Growth Capital
- MBOs

- Full and Partial Liquidity
- Tender Processes
- Direct VC Secondaries

Historical Client Profile

Prior Funding

- \$0M – \$180M

Revenue

- \$5M – \$150M

EBITDA

- >\$0M – \$50M

Enterprise Value

- \$30M – \$550M

IKONA Founders: Passionate Deal-Makers, Strong Track Record

We are **active shareholders** that own 100% of the firm. Every transaction matters to us, and every client is served by multiple experienced decision-makers. We are not a “volume shop,” but rather a true boutique, where we are **highly selective and dedicated to a few choice engagements**



David Cho
Managing Partner

IB Experience: 12 years
San Francisco, CA

VPA  



Chet Kristy
Partner & Vice President

IB Experience: 7 years
Charlotte, NC

VPA  



Charlie Penner
Partner & Vice President

IB Experience: 7 years
San Francisco, CA

VPA  



Disclaimer

The information contained in this presentation is for informational purposes and should not be regarded as an offer to sell any security in any jurisdiction where such an offer or solicitation would be in violation of any local laws. It does not constitute a recommendation or consider the particular investment objectives, financial conditions, or needs of specific investors. Past performance is not indicative or a guarantee of future performance. We do not provide tax, accounting, or legal advice to our clients, and all investors are advised to consult with their tax, accounting, or legal advisers regarding any potential investment. The information and any opinions contained in this email communication have been obtained from sources that we consider reliable, but we do not represent such information and opinions are accurate or complete, and thus should not be relied upon as such. Ikona Partners, LLC is a broker-dealer registered with the U.S. Securities and Exchange Commission, a member of FINRA and a member of SIPC.