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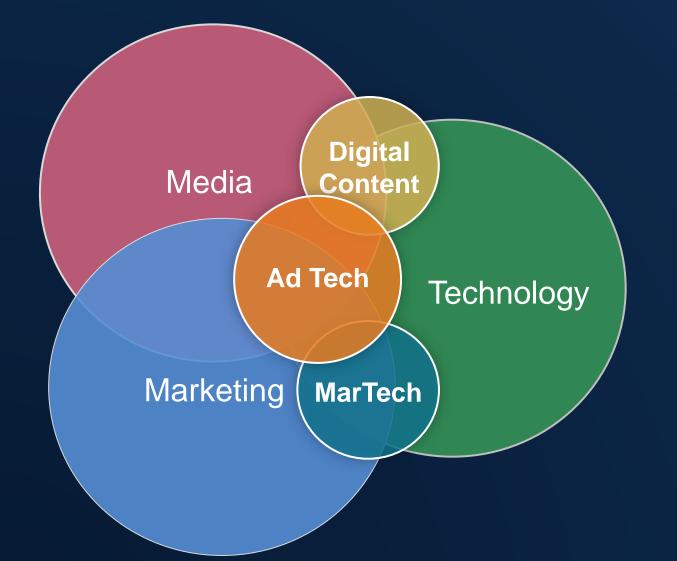
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# LUMA's Focus on Digital Media & Marketing



- LUMA's expertise is at the intersection of Media, Marketing and Technology.
- At this intersection exists:
  - Ad Tech

  - Digital Content
- These companies employ a variety of business models including services, media, data, commerce and software.





## **LUMA's Recent Deals**









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## **Executive Summary**

### **Overview**

- The Digital Media & Marketing ecosystem has experienced ~12 months of a muted M&A environment with lower volumes and fewer scaled deals compared to the highs that followed the pandemic and lasted through 3Q 2022.
- Even as public markets have generally bounced back YTD in 2023 and valuations continue to stabilize in the broader technology industry, buyers and sellers continue to seek value alignment in the wake of pandemic market highs and subsequent historic interest rate hikes, which drove a gap between perspectives of normalized performance.
  - Buyers: Market turbulence has created opportunities for buyers with access to capital, but an increased focus on discipline and tighter capital markets has slowed volume
  - Sellers: Underlying business results remain strong and are well positioned for capital efficient growth, leading to strong optionality in evaluating inbound interest
- Both sides remain eager to do deals as market clarity materializes Q3 was the sixth straight guarter of stabilized valuations in the LUMA.A & LUMA.M cohorts.
- The first three technology IPOs occurred in Q3 since the IPO slowdown 18+ months ago, with launches of ARM, Instacart and Klaviyo (the newest member of the LUMA.M cohort) entering the public markets and testing the waters in what has been an uncertain equity market in the sector.

### **M&A Activity**

- Deal volume in Q3 2023 was slightly down (3%) from Q2; despite the drop in volume there was a +75% increase in scaled deal activity across the ecosystem, driven predominantly by digital-content related acquisitions.
- By sub-sector, Ad Tech Q3 M&A activity was in line with Q2 and was highlighted by two scaled (>\$100mm) transactions; MarTech M&A volume remained robust, up +2% from a strong Q2 and +21% on a YoY basis despite scaled transactions staying relatively muted for a second straight guarter: Digital Content M&A volume declined (10%) seguentially but saw an uptick in scaled transactions (8 vs 4 in Q2).

### **Public Markets Activity**

- In line with the broader market, the LUMA.A and LUMA.M cohorts were challenged from a trading perspective in Q3, falling (4%) and (11%), respectively, as a surge in bond yields in September led to a market-wide slowdown.
- From an earnings perspective, Q2 2023 saw most Ad Tech and MarTech names beat revenue and EBITDA consensus estimates; although trading performance following earnings appeared to be heavily influenced by upwards or downwards revisions for full year guidance.

### **Private Financing Activity**

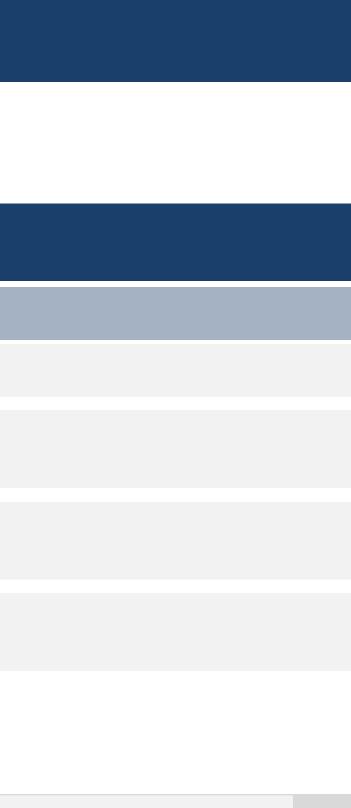
The slowdown in private financing activity persisted in Q3, driven by a confluence of on-going changes: (1) Decrease in non-traditional investor capital (down 50% YoY through the first half of 2023) as a stagnant exit environment has reduced attractiveness (2) VC investors are facing less competition, allowing them to focus on the highest guality assets (3) VCbacked businesses have largely shifted to efficient growth, in turn reducing their need for capital and willingness to raise at lower valuations.



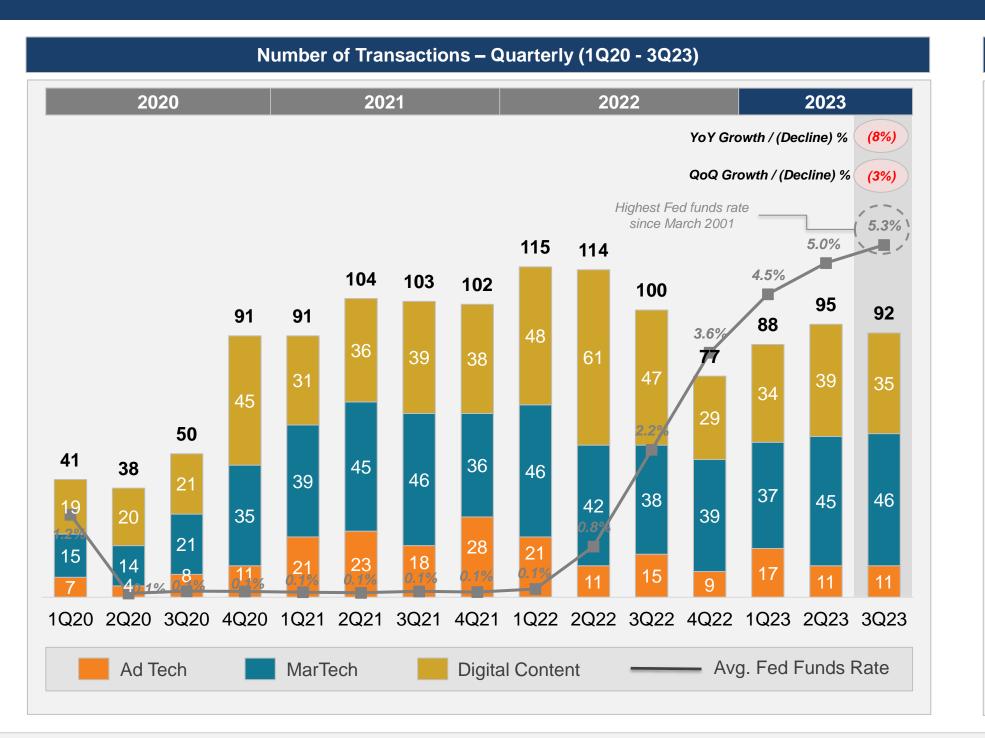
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# Digital Media & Marketing M&A Activity by Sector – Quarterly View



- 11. acquisition of Cadent.



### Commentary

While the dealmaking environment continues to feel the effects of the highest fed funds rates since 2001, Q3 2023 volume was slightly down (3%) sequentially as the market has now experienced a full 12 months of muted deal activity relative to the highs from 2021-1H 2022; despite the muted volume, there was a pickup in scaled M&A activity +75% across the ecosystem, driven largely by digital content related acquisitions.

Ad Tech M&A activity was in line with last guarter and was highlighted by two scaled deals - DoubleVerify's \$125mm acquisition of Scibids and Novacap's \$600mm

MarTech M&A remained robust, up +2% from a strong Q2 and +21% on a YoY-basis; as 2023 year-to-date deal volume is now roughly in line with 2022.

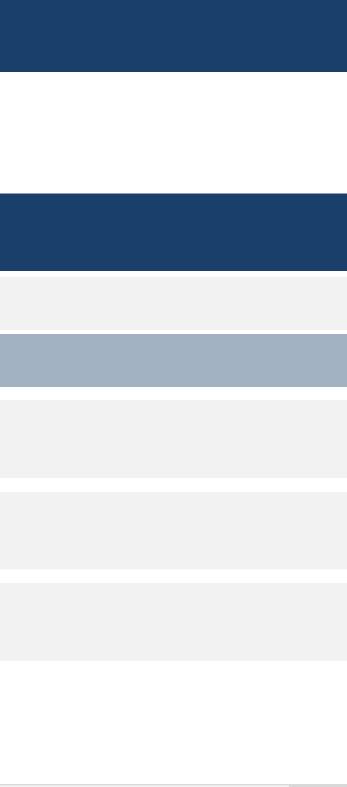
Digital Content M&A volume fell (10%) from Q2; however, scaled activity in the sector doubled (8 vs 4 in Q2), driven primarily by strategic gaming buyers.

We anticipate that buyers and sellers will continue to seek value alignment, as strategics who have normalized costs and driven capital efficient growth look for new capabilities (catalysts such as AI) and financial buyers in the sector see opportunities for portfolio add-ons and take-private investments.

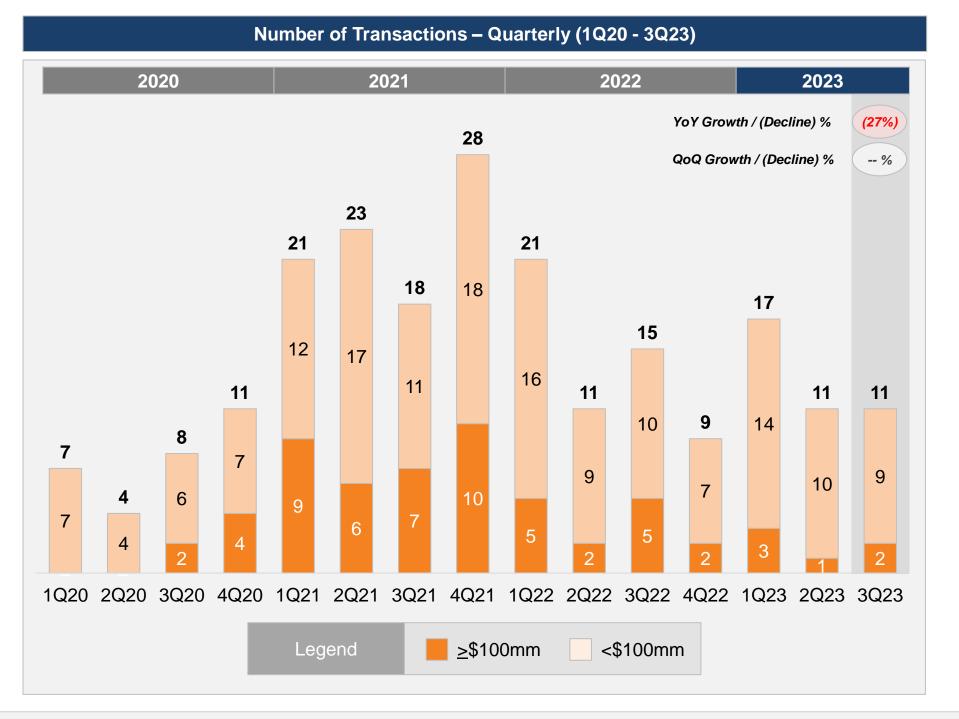
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# Ad Tech M&A Activity



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- 11. early 2024.

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н. Media, and 1st party data landscape.



### Ad Tech

MarTech

### **Digital Content**

### Commentary

Ad Tech deal volumes were in line with Q2, highlighted by two scaled deals - DoubleVerify acquired Alpowered Scibids for \$125mm and Lee Equity Partners exited Cadent for \$600mm in a sale to Novacap.

Strategic acquisitions in the sector were focused on increasing capabilities across multiple categories: CTV (Cadent, Brid.TV, Vidgyor), DOOH (Nickelytics), Measurement (605) Programmatic (MediaMath, Scibids) and Retail Media (Adrenalads).

In the programmatic ecosystem, Infillion acquired MediaMath's DMP & DSP assets out of bankruptcy for ~\$22mm, adding to its portfolio of products for media buyers - MediaMath is expected to be relaunched in

### **Looking Ahead**

We anticipate continued focus by advertisers on efficacy and optimization (with AI as a catalyst). Further, the evolving data landscape necessitates horizontal strategies & contributes to the rise of retail media & 1st party data networks, pushing the ecosystem to connect supply & demand.

Strong operational performance in a tepid deal environment presents value opportunities for wellcapitalized buyers looking to enter the CTV, Commerce

## Ad Tech – Q3 2023 Notable Deals

Announcement Date	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
 9/28/2023	SUPER AWESOME	Management Team Buyout	\$76	ND	<ul> <li>SuperAwesome, an in-game brand safety platform is being spun out of B Company headed by current CEO Kate O'Loughlin.</li> <li>Epic Games announced the spinout in parallel with reducing its workford</li> </ul>
9/26/2023	🤝 Swapstack	青 beehiiv	< \$1	ND	<ul> <li>Beehiiv, a tool suite for digital newsletters, acquired Swapstack, a newsl</li> <li>Beehiiv launched an ad network earlier this month and Swapstack has factorial structures and the structure of the structure of</li></ul>
9/13/2023	61X ØERO 51VE,	iSpot.tv	ND	ND	<ul> <li>iSpot.tv, a TV measurement currency contender, acquired 605, a measu</li> <li>This is reportedly iSpot's largest acquisition and expands its TV measurement</li> </ul>
9/1/2023	adrenalads	Heam Internet Ideas. Change. Markets.	ND	\$2	<ul> <li>Team Internet (f.k.a CentralNic), a software HoldCo, acquired Adrenalad</li> <li>Adrenalads will be integrated with Zeropark, Team Internet's commerce</li> </ul>
8/23/2023	MediaMath		\$448	\$22	<ul> <li>Infillion acquired MediaMath's DMP &amp; DSP assets in a bankruptcy-relate</li> <li>Infillion intends to restore technology and recruit back former MediaMath</li> </ul>
8/9/2023	<b>CO</b> NICKELYTICS	t72	NA	ND	<ul> <li>T72 Club, a software investment fund, acquired Nickelytics, a digital attr</li> <li>Nickelytics joins the T72 portfolio and will leverage T72's expertise as it</li> </ul>
8/9/2023	🂋 CADENT	NOVACAP	NA	\$600	<ul> <li>Novacap acquired Cadent, a provider of platform-based CTV ad solutior</li> <li>Cadent has seen revenue growth between 15-20%, and will continue to</li> </ul>
7/31/2023	🖷 Sci <b>bids</b>	DoubleVerify	\$7	\$125	<ul> <li>DoubleVerify, a media measurement company, acquired Scibids, an AI-</li> <li>The acquisition allows DV to maximize business outcomes and ROI level algorithms as well as ensure continuous optimization and reduce manual environment.</li> </ul>
7/23/2023	OPINARY.	affinity	\$5	ND	<ul> <li>Affinity, a branding and performance advertising company, acquired Opi</li> <li>The acquisition expands Affinity's global presence into Europe and gives</li> </ul>
7/18/2023	BRID.	targetvideo	ND	ND	<ul> <li>TargetVideo, a video content monetization company, acquired Brid.TV, i</li> <li>The acquisition gives TargetVideo a more holistic suite and expands its</li> </ul>
 7/11/2023	vidgyor	silverpush 🔅	\$1	ND	<ul> <li>Silverpush, a contextual advertising company, acquired Vidgyor, a CTV</li> <li>The acquisition strengthens Silverpush's tech offerings for publishers an CTV for brands.</li> </ul>



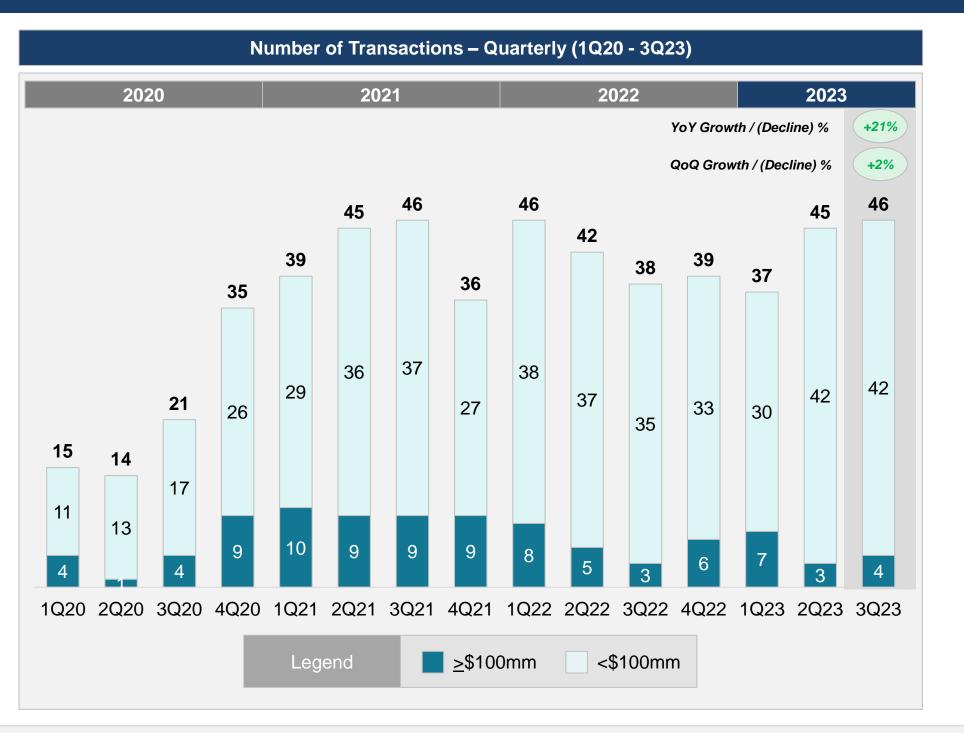
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MarTech

Digital Content

t of Epic Games and will operate as a standalone <pre> sforce by 16%. </pre>
ewsletter monetization platform. as facilitated \$2mm+ through its ad network.
easurement & attribution competitor. asurement market share.
nalads, a navigation network for advertisers. erce media offering.
elated deal for ~\$22mm. Math clients.
attribution platform for OOH ads on vehicles. as it continues to grow.
utions, from Lee Equity Partners for \$600mm. e to invest in future growth and M&A.
AI-powered campaign optimization company. leveraging Scibids proprietary AI bidding ual efforts.
Opinary, a user engagement company. gives Opinary access to Asia and the U.S.
TV, its commercial partner. s its international presence.
CTV advertising platform. s and expands its contextual capabilities into

# MarTech M&A Activity



### LUMA

- quarter.
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### **Looking Ahead**

### Ad Tech

### MarTech

### **Digital Content**

### Commentary

MarTech M&A volume remained robust, up +2% from a strong Q2 and +21% YoY. There was one more scaled deal in Q3 vs prior quarter; however, scaled activity remained relatively muted for the second straight

Private consolidation of MarTech companies that previously raised significant funding rounds played a large role in Q3 dealmaking, highlighted by Heap's (~\$231mm raised) acquisition by Contentsquare, Signpost's (~\$110mm raised) acquisition by H.I.G. Capital-backed Hibu, Groove's (\$61mm raised) acquisition by Clari and PowerReviews (\$64mm raised) acquisition by Battery Ventures-backed 1WorldSync.

Private Equity and sponsor-backed strategic acquisitions continued in Q3, as evidenced by Gainsight's acquisition of Northpass (Vista), Canto's acquisition of MerlinOne (JMI, Atrium), Commentsold's acquisition of Popshop Live (Dragoneer, Permira) and AppHub's acquisition of Boost (PSG), among others.

We expect increased investment in data / analytics capabilities that arm marketers with superior tools surrounding ID resolution, data management / activation, and measurement / attribution.

# MarTech – Q3 2023 Notable Deals (1/2)

Announcement Date	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
 9/28/2023	I <mark>I</mark> I Heap	Contentsquare	\$231	ND	<ul> <li>Contentsquare, a digital experience analytics company, will acquire pro</li> <li>The acquisition is Contentsquare's largest and will accelerate its produ</li> <li>analytics platform.</li> </ul>
9/22/2023	airkit.ai	salesforce	\$69	ND	<ul> <li>Salesforce will acquire Airkit, a low-code platform for building AI-power</li> <li>Airkit will be merged into Salesforce's customer service platform, Servior</li> </ul>
9/11/2023	resignpost	hibü	\$110	ND	<ul> <li>Hibu, a provider of digital marketing solutions to SMBs, acquired Signp</li> <li>Signpost raised ~\$110mm to date following its Series D round in July 2</li> </ul>
9/6/2023	候 fresh <b>relevance</b>	Ø dotdigital	\$3	\$32	<ul> <li>Dotdigital, an "all-in-one marketing platform", acquired Fresh relevance</li> <li>The acquisition was noted as part of Dotdigital's mission to strengthen</li> </ul>
8/30/2023	denimsocial	capacity <sup>®</sup>	\$11	ND	<ul> <li>Capacity, an AI-powered support automation platform, acquired both D</li> <li>Denim Social is a social media management platform and Lumen Vox</li> </ul>
8/24/2023	aivo	Engage ware	\$0	ND	<ul> <li>Engageware, a customer engagement software company, acquired Aiv</li> <li>Aivo operates in the Americas &amp; Europe serving 200+ clients and lever</li> </ul>
8/23/2023	Patron Point	spr <b>i</b> ng <b>share</b>	ND	ND	<ul> <li>Springshare, a library-centric SaaS vendor, acquired Patron Point, a m</li> <li>Springshare will invest in enhancing the Patron Point platform and heat</li> </ul>
8/22/2023	POPSHOPŹLIVE	comment sold	\$25	ND	<ul> <li>CommentSold, a livestreaming social shopping platform acquired its co</li> <li>Popshop Live's FTEs will be rolled into CommentSold's team and will s</li> </ul>
 8/22/2023	R POWER REVIEWS	WORLD SYNC	\$64	ND	<ul> <li>1WorldSync, a product content orchestration company, acquired Powe</li> <li>PowerReviews services 1,000+ global brands and now expands its real</li> </ul>
 8/16/2023	Quantcast (Consent Management Assets)	INMOBI	NA	ND	<ul> <li>Inmobi, a mobile app monetization platform, carved out Quantcast's co</li> <li>Quantcast Choice customers will transition to Inmobi and will see a new</li> </ul>
 8/14/2023	groove	< Clari	\$61	ND	<ul> <li>Clari, an AI-powered revenue enablement platform, acquired Groove, a</li> <li>The combined platform will provide increased visibility, predictability and</li> </ul>
 8/14/2023	PHONE READY LEADS*		ND	ND	<ul> <li>Apex Revenue, a RevOps solutions provider, acquired PRL, a sales int</li> <li>The strategic fit and combined expertise in the B2B sales space were of</li> </ul>



### Ad Tech

### MarTech

Digital Content

roduct analytics platform Heap. uct vision, enabling the delivery of an all-in-one
ered customer service agents. vice Cloud.
post, a customer communication platform. 2019.
ce, a cross-channel personalization company. n its all-in-one CXDP.
Denim Social and Lumen Vox. ( is an AI-powered speech recognition platform.
ivo, a GenAI-powered conversational platform. eraging 150mm+ user conversations.
marketing automation solution for libraries. adcount.
competior Popshop Live. still operate under the Popshop brand.
erReviews, a review management platform. each to 1WorldSync's 17,000+ customers.
onsent management business. ew publisher offering in early Fall.
a sales engagement platform. and control across the revenue process.
ntelligence and data scoring platform. cited as key to the acquisition thesis.

# MarTech – Q3 2023 Notable Deals (2 / 2)

Announcement Date	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
8/8/2023	MerlinOne	C Canto	ND	ND	<ul> <li>Canto, a Digital Asset Management (DAM) software provider, acquired MerlinOne, another DAM software provider.</li> <li>MerlinOne's AI features with Canto's DAM platform enable advanced AI and visual search capabilities.</li> </ul>
8/8/2023	⊗aceyus	Five?	ND	\$82	<ul> <li>Five9, a CX platform provider, acquired Aceyus, a CX reporting and analytics platform.</li> <li>Five9 gains access to contextual data to optimize, predict and deliver personalized customer journeys.</li> </ul>
8/3/2023	T tagger	<b>sprout</b> social	\$24	\$140	<ul> <li>Sprout Social acquired Tagger Media, an influencer marketing and social intelligence platform for \$140mm.</li> <li>Tagger was founded in 2015 and maintains a global presence across the Americas, EMEA, and APAC.</li> </ul>
8/3/2023	byside SMARKIO		ND	ND	<ul> <li>Core Media, a DXP and CMS platform and PortCo of OpenGate Capital, acquired BySide and Smarkio.</li> <li>BySide is a customer journey and personalization platform and Smarkio is a SaaS chatbot for B2C brands.</li> </ul>
8/2/2023	(Select Assets)	RingCentral	NA	\$50	<ul> <li>RingCentral, an AI-powered cloud communication company, acquired select assets from Hopin.</li> <li>Hopin's event management platform and personalized engagement solution join RingCentral's suite.</li> </ul>
8/2/2023	BONZO!		ND	ND	<ul> <li>MMI, a data intelligence and market insight tool provider for the real estate sector, acquired Bonzo, a CRM platform.</li> <li>Bonzo will continue to operate as an independent relationship management and mortgage marketing platform.</li> </ul>
7/27/2023	indaHash	ArabyAds	ND	ND	<ul> <li>ArabyAds a diversified Ad Tech platform, acquired IndaHash, an influencer marketing platform.</li> <li>ArabyAds expands its global footprint and accelerates its product roadmap.</li> </ul>
7/25/2023	😮 boost	AppHub	ND	ND	<ul> <li>AppHub, an eCommerce enablement platform, acquired Boost, an AI-powered product search and discovery tool.</li> <li>Boost is the 9th founder-led eCommerce application to join the AppHub suite since its founding in 2021.</li> </ul>
7/21/2023	<b>@ seva</b>	<b>Hoomfire</b>	\$3	ND	<ul> <li>Bloomfire, a knowledge management platform, acquired Seva, a GenAI-powered customer support SaaS company.</li> <li>The combination brings together Bloomfire's expertise in knowledge management, and Seva's conversational AI.</li> </ul>
7/13/2023	Full Circle	scaleworks.	\$14	ND	<ul> <li>Scaleworks acquired Full Circle Insights, a marketing attribution and campaign measurement platform.</li> <li>Scalework's investment will accelerate FCI's strategic roadmap, enable product innovation and enhance its GtM.</li> </ul>
7/13/2023		🍀 leadGenius	\$6	ND	<ul> <li>LeadGenius, a B2B sales lead-gen platform, acquired WhoKnows, a predictive analytics platform,</li> <li>The acquisition builds out a more holistic AI-powered omni-channel B2B lead-gen suite.</li> </ul>
7/11/2023	northpass	Gainsight	\$11	ND	<ul> <li>Gainsight, a customer success platform backed by Vista, acquired Northpass, a customer education platform.</li> <li>The acquisition strengthens Gainsight's customer success and retention capabilities.</li> </ul>

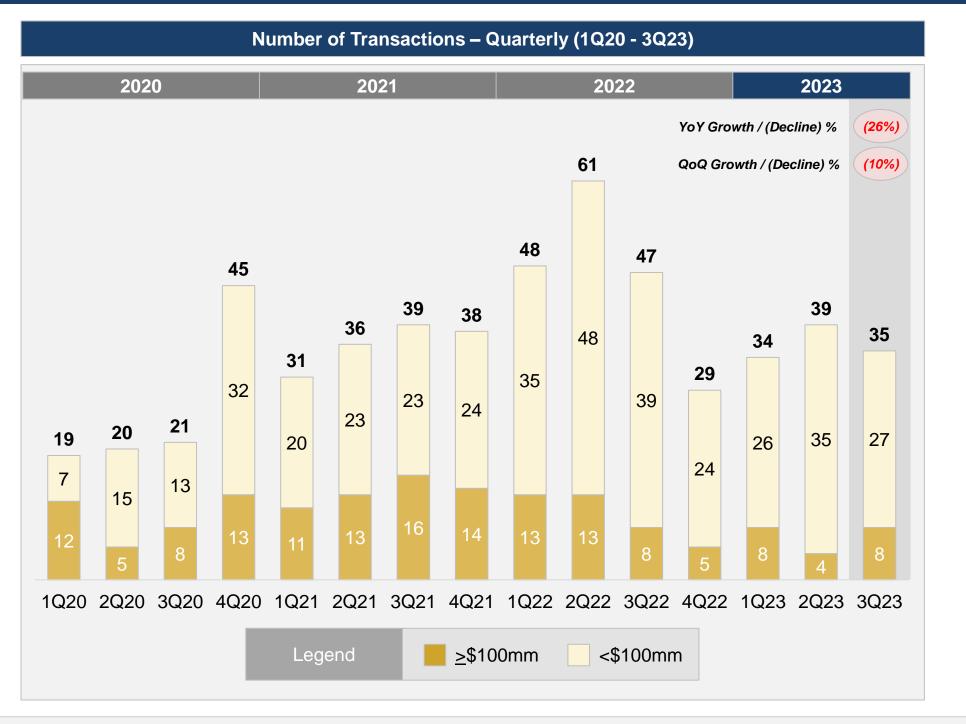


### Ad Tech

### MarTech

Digital Content

# **Digital Content M&A Activity**



- of the 8 scaled deals in the quarter.
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- 11. consumers and data.



### Ad Tech

MarTech

### **Digital Content**

### Commentary

While **Digital Content** M&A volume declined (10%) from a strong Q2 2023, scaled deal activity in the sector doubled, with strategic buyers accounting for 5

Private equity deals in the guarter were highlighted by STG's \$1.4bn acquisition of Avid and Francisco Partners' acquisition of The Weather Company.

Gaming transactions continue to drive activity in the sector, highlighted by Playtika's \$300mm<sup>(1)</sup> acquisition of Innplay Labs and \$165mm<sup>(1)</sup> acquisition of Youda Games, as well as Tencent's acquisition of Techland.

### **Looking Ahead**

Market dynamics such as effective UA will continue to be a top priority for mobile digital content names, along with increased focus on expanding audience through scaled M&A or individual game acquisitions.

The advent of advanced generative AI has captured the attention of the broader tech ecosystem and will play an important role in digital content creation.

Despite the challenging macro-environment, we expect to see continued consolidation in the content ecosystem as platforms look to expand their scale of

# **Digital Content – Q3 2023 Notable Deals**

Announcement Date	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
9/19/2023		+Babbel	\$29	ND	<ul> <li>Babbel, a language learning app, acquired Toucan, a language learning</li> <li>In Q3 2022 Toucan raised \$20mm in a Series A1 round at \$120mm post</li> </ul>
 9/15/2023	innplay labs	🕗 Playtika.	\$6	\$300 <sup>(1)</sup>	<ul> <li>Playtika acquired Innplay Labs, a mobile game studio for an upfront fee consideration based on performance metrics.</li> <li>The acquisition helps Playtika make inroads into the "luck battle" gamir</li> </ul>
8/22/2023	The Weather Company	FRANCISCO PARTNERS	NA	ND	<ul> <li>IBM will sell The Weather Company assets to Francisco Partners.</li> <li>The deal includes consumer facing apps and websites, the enterprise of</li> </ul>
8/22/2023	ΑΝΙΜΟΤΟ	REDBRICK	\$31	ND	<ul> <li>Redbrick, a portfolio of digital companies, acquired Animoto, a video cre</li> <li>The acquisition helps Redbrick expand to 200 global FTEs and \$100mr</li> </ul>
8/16/2023			\$14	ND	<ul> <li>OpenAI acquires Global Illumination, a developer of AI tools, infrastruct</li> <li>This is OpenAI's first acquisition in its 7-year history; the entire Global II</li> </ul>
8/10/2023	<b>Flovourworks</b> INTERACTIVE STUDIO	telltale	\$5	ND	<ul> <li>Telltale, a narrative game studio and publisher, acquired Flavourworks</li> <li>Both companies are backed by HIRO capital, which noted the two's strated by HIRO capital, which noted the two strated by HIRO capital by HI</li></ul>
8/9/2023		STG SYMPHONY TECHNOLOGY GROUP	NA	\$1,400	<ul> <li>Avid, a tech provider for the music and audio creators, will be taken priv</li> <li>Per its latest filing, the company generates subscription ARR of \$154mil</li> </ul>
7/31/2023	<b>youda</b> GAMES	Playtika.	NA	\$165 <sup>(1)</sup>	<ul> <li>Playtika acquired Azerion's Youda Games portfolio for an upfront fee of</li> <li>Playtika grows its card game portfolio and IP as part of its "strategic inc</li> </ul>
7/24/2023	STECHLAND	Tencent	ND	ND	<ul> <li>Tencent has taken a majority stake in Dying Light, a AAA game studio.</li> <li>Techland is known for its "Dying Light" franchise, which sold 30mm+ co</li> </ul>
7/11/2023	miro 🕅	🖧 greenfly	ND	ND	<ul> <li>Greenfly, a digital media orchestration software provider, acquired Miro</li> <li>Greenfly expands its solutions in streamlining, categorizing, organizing</li> </ul>
7/10/2023	easymovie	📕 cenareo	\$14	ND	<ul> <li>Cenareo, a CMS platform, acquired EasyMovie, an all-in-one video suit</li> <li>The combined entity has 75+ FTEs across North America and EMEA.</li> </ul>
7/3/2023	Playmalor	BC BETTER COLLECTIVE	ND	\$54	<ul> <li>Better Collective, a digital sports media group acquired Playmaker, a sp</li> <li>The acquisition comes with a \$15mm upfront fee and will add 20mm+ fee</li> </ul>



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Source: LUMA, PitchBook, Company announcements. Note: All figures in USD millions unless noted otherwise. Deals shown reflect those announced during the quarter ending September 30, 2023. Note: (1) Represents total possible consideration, upfront amounts are ~\$80mm and ~\$89mm for Innplay Labs and Youda Games, respectively.

### Ad Tech

MarTech

**Digital Content** 

ng browser extension. ost-money valuation.
ee of \$80mm and up to \$300mm total
ing genre.
offering, ad tech, and data solutions.
creation software. nm in annualized revenue.
cture and digital experiences. Illumination team will join OpenAI.
s an interactive video technology company. trategic alignment as key to the deal thesis.
rivate by STG. mm and total ARR of \$248mm.
of \$89mm and up to \$165mm total. ncremental growth approach".
o. copies.
ro an AI-powered CaaS platform. g and deploying content at scale.
uite.
sports and entertainment media platform. followers across social media sites.

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# Despite a Tepid Q3, Equity Markets Have Rebounded in the Last 12M

### Last 12 Months Trading Performance: LUMA Indices (LUMA.A, LUMA.M) vs. Market Indices (S&P 500, NASDAQ 100)

In the last 12 months, key equity market indices such as the S&P500 and Nasdag 100 have performed well, while the LUMA.A and LUMA.M indices have lagged the broader market. That said, intra-cohort performance within LUMA.A and LUMA.M has widely varied, with companies like AppLovin, Taboola and Shopify trading up over 100% in the last 12 months. Q3 also marked the first public exits for VC-backed technology companies in the midst of an 18+ month liquidity event drought<sup>(1)</sup>. The performance of recent technology IPOs for Arm Holdings, Instacart and Klaviyo will be monitored as bellwethers for market appetite.

					Last 12 Mo	nths Tradir	ng Performan	се		
	Q4 2	022			2023			2 2023		
	<u>Q4 2022 P</u>	erformance		<u>Q12023</u>	Performance		<u>Q2 2023</u>	<u> 3 Performance</u>		
	S&P 500	+7%		S&P 500	+8%		S&P 500	+11%		
	NASDAQ 100	(1%)		NASDAQ 100	+18%		NASDAQ 100	+16%		
	LUMA.A	(3%)		LUMA.A	+12%		LUMA.A	+16%		
	LUMA.M	(1%)		LUMA.M	+18%		LUMA.M	(0%)		M
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0							1			
Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-2
				<u> </u>	S&P 500 —	NASDAQ 100 -	— LUMA.A —	LUMA.M		



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# An Inflection Point in the Technology IPO Window?

### **Factors Driving Recent Technology IPOs**

- **Profitability:** All three technology IPOs were operating profitably; this compares to only 22% of technology companies that went public in the  $\checkmark$ market peak of 2021.<sup>(1)</sup>
- **IPO Readiness:** 18+ months of adverse market conditions offered ample time for companies to prepare for the governance, reporting and  $\checkmark$ regulatory processes needed for a successful IPO launch.
- $\checkmark$ Stabilizing Valuations: Q3 2023 marks six straight quarters of stabilized valuations in the Ad Tech and MarTech sectors; as valuations continue to stabilize across the broader technology ecosystem, companies will expect more certainty in the equity markets.

At a Glance: Q3 2023 Technology IPOs												
		At IPO				Current	Valuation					
Company	Ticker	IPO Price	First Day Close	First Day Performance	Price	Market Cap (\$bn)	EV (\$bn)	EV / LTM Revenue	EV / LTM EBITDA			
arm	ARM	\$51.00	\$63.60	+25%	\$53.52	\$54.9	\$52.2	19.6x	61.6x <sup>(2)</sup>			
<b>±</b> instacart	CART	\$30.00	\$33.70	+12%	\$29.69	\$9.8	\$7.7	2.7x	15.9x			
klaviyo	KVYO	\$30.00	\$32.80	+9%	\$34.50	\$10.5	\$10.1	17.2x	NM			



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# **Case Study: Klaviyo IPO – First MarTech IPO Since '21**

Klaviyo rose 9% in IPO debut after pricing at the high end of its range as public market investors showed strong demand for the first SaaS IPO in over 18 months

Klaviyo IPO at a	Glance	Klav	/iyo vs. Med	lian
At IPO:		1		
IPO Pricing	\$30.00			
Implied Valuation at IPO	~\$9.2bn		\$100-	\$200
Day 1 Closing Price	\$32.76		\$200M	- IP
% vs. IPO price	+ 9%			
Current:		YoY ARR Growth	50%	40%
Price	\$34.50	TOT ARK GIOWIII	50 /0	40 /0
Enterprise Value	\$10.1bn			
EV / LTM Revenue	17.2x	Net \$ Retention	110%	110%
EV / LTM EBITDA	NM			
Investors like Klaviyo's	equity story:	Rule of 40	15%	30%
Retail & eCommerce marketing expansive TAM and is well positi customer ecosystem		Net Magic Number	0.8x	0.6x
Strong PLG go-to-market strate efficiency and growing revenue	0,	ARR per FTE	\$200K	\$220ł
Profitable on both a GAAP and	non-GAAP basis			

LUMA

klaviyo

NYSE: KVYO

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### Benchmark

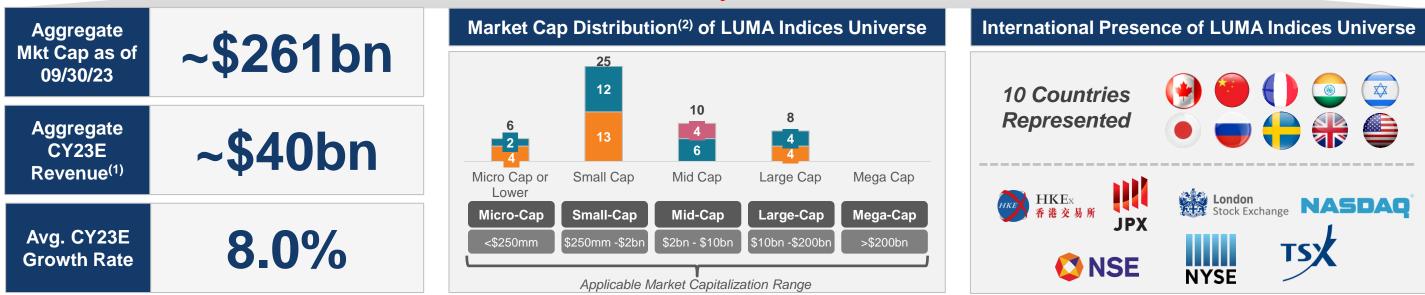


# The LUMA Indices Universe at a Glance (1/2)



	Ad T	<b>Fech</b>		Overlap		Mar	Tec
O ADTHEORENT" a					Amplitude	<b>Appier</b>	BI
Digital Turbine			Magnite	DV DoubleVerify	BRIGHTCOVE		
C MediaAlpha		Mobvista	nexxən	IAS <mark>.</mark>	╬ kaltura QuinStreet	klaviyo¶ Semrush	0 (1) (1)
outbrain	Perion	PubMatic	Roku	/LiveRamp	sprinklr	<b>sprout</b> social	CIJ S
<b>TabQl</b> a	🕛 theTradeDes	sk 🙀 Unity	VIANT.	💠 ZETA	<b>::: twilio</b>	WiX	(×
No Longer Publicly Lis	sted (S) ironSource	≫telaria			Medallia mo	omentive qual	trics. <sup>xm</sup>

### 49 Actively Traded

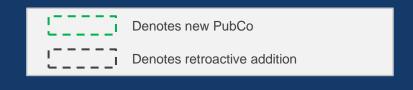




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# The LUMA Indices Universe at a Glance (2/2)



Ad Tech	Overlap		Mar	Tech
O ADTHEORENT affle APPLOVIN a cardlytics CRITEO	DV DoubleVerify	Amplitude	Appier	BI
Digital <b>O</b> illumin INNOVD Magnite	IAS.	BRIGHTCOVE <sup>®</sup>	klaviyo	0
Media Alpha Media and Games Mobvista NEXX90		QuinStreet		🧿 Si
Sutbrain Perion PubMatic Roku	/LiveRamp	sprinklr	<b>sprout</b> social	600 8
Tab@laImage: theTradeDeskImage: UnityVIMNT:	SETA 🔷	<b>::: twilio</b>	WiX	(×
No Longer Publicly Listed SironSource Elaria		Medallia mo	omentive qual	trics. <sup>xm</sup>

Metric	Ad Tech	ex-Overlap	Ονε	erlap	MarTech ex-Overlap			
Aggregate Mkt Cap (\$bn)	\$	92	\$	11	\$157			
	Ad Tech e	x-Overlap <sup>(1)</sup>	Ove	erlap	MarTech ex-Overlap			
	2022A	2023E	2022A	2023E	2022A	2023E		
Avg. Revenue <sup>(2)</sup> (\$mm)	\$675 \$762		\$510	\$591	\$840	\$970		
Avg. EBITDA Margin <sup>(3)(4)</sup> (%)	21.4%	22.7%	21.8% 23.8%		0.8%	7.8%		
Avg. EV / Revenue <sup>(2)</sup> (x)	4.4x	4.0x	5.5x	4.7x	5.6x	4.2x		
Avg. EV / EBITDA <sup>(4)(5)</sup> (x)	12.4x 15.1x		26.1x	19.4x	x 21.1x 24.3			



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Source: FactSet (Market data as of 09/30/2023). Note: (1) Averages exclude Affle. (2) Revenue refers to "GAAP Revenue" for MarTech cohort, and "Net Revenue" for Ad Tech cohort. See Appendix A for Net Revenue methodology. (3) EBITDA Margin shown on a "Net Revenue" basis for Ad Tech cohort. (4) EBITDA as defined by brokers. See Appendix B for quarterly EBITDA detail. (5) EBITDA multiples less than 0 or greater than 75 are considered not meaningful ("NM").



### **Ad Tech Earnings Reaction**

Generally met net revenue and EBITDA targets; market reaction heavily influenced by change in 2023 FY guidance

					Most Recei	nt Quarter							Change in F	Y Guidance	(2)
Overvie	W	Metric	N	et Revenue	9	Profita	bility / EBI	TDA <sup>(1)</sup>	Trad	ing Perform	ance	Net R	evenue	EE	BITDA
Company	Date	Defined	Actual	Cons.	Beat/Miss	Actual	Cons.	Beat/Miss	T+1 Comp	T+1 S&P	YTD Comp	Change	%	Change	%
© ADTHEORENT	8 / 03*	Adj. GP	\$24	\$25	(3%)	\$3	\$3	1%	1%	(1%)	(22%)		N/a	_	N/a
APPLOVIN	8 / 09*	Revenue	\$750	\$721	4%	\$334	\$290	15%	26%	0%	279%	N/a	N/a	N/a	N/a
cardlytics	8 / 01*	GP	\$31	\$26	17%	(\$4)	(\$8)	NM	20%	(1%)	185%	N/a	N/a	N/a	N/a
CRITEO	8/02	Contribution ex-TAC	\$240	\$231	4%	\$56	\$48	16%	(5%)	(1%)	12%	_	N/a	_	N/a
Digital Turbine	8 / 08*	Adj. GP	\$69	\$66	4%	\$27	\$24	13%	(8%)	(1%)	(60%)	N/a	N/a	N/a	N/a
DoubleVerify	7 / 31*	Revenue	\$134	\$133	0%	\$40	\$38	5%	(15%)	(0%)	27%		%	_	%
INNOVD	8 / 08	Revenue	\$35	\$32	8%	\$5	\$1	NM	(3%)	(0%)	(25%)	N/a	N/a		+ 5% margin
	8 / 03*	Revenue	\$114	\$112	1%	\$37	\$36	4%	(19%)	(1%)	35%		< +1 %		+ 1%
/LiveRamp	8 / 09*	Revenue	\$154	\$147	5%	\$22	\$16	33%	18%	0%	23%		+ 2%	_	%
Magnite	8 / 09*	Contribution ex-TAC	\$135	\$134	0%	\$37	\$39	(4%)	(35%)	0%	(29%)	-	N/a	-	N/a
🔀 MediaAlpha	8 / 02*	Adj. GP	\$14	\$12	16%	\$4	\$2	139%	6%	(0%)	(17%)	N/a	N/a	N/a	N/a
Nexxən	8 / 17	Contribution ex-TAC	\$80	\$90	(11%)	\$21	\$28	(25%)	(31%)	(1%)	(45%)	-	(19%)	-	(39%)
outbrain	8 / 08	GP ex-TAC	\$55	\$54	2%	\$4	\$1	NM	6%	(0%)	35%	_	%		+ 7%
Perion	8/02	Revenue	\$179	\$176	1%	\$41	\$40	3%	(1%)	(1%)	21%		1 %( 3)		+ 8%
PubMatic	8 / 08*	Revenue	\$63	\$60	6%	\$12	\$14	(14%)	(34%)	(1%)	(6%)	N/a	N/a		Withdrew Outlook
Roku	7 / 27*	Revenue	\$847	\$771	10%	(\$18)	(\$75)	NM	31%	1%	73%	N/a	N/a	N/a	N/a
<b>Tab@</b> la	8 / 09	GP ex-TAC	\$123	\$114	8%	\$16	\$1	NM	12%	(1%)	23%		< +1 %		+ 6%
() theTradeDesk	8 / 09*	Revenue	\$464	\$453	3%	\$180	\$161	12%	(5%)	0%	74%	N/a	N/a	N/a	N/a
🙀 Unity	8 / 02*	Revenue	\$533	\$515	4%	\$99	\$57	73%	(1%)	(0%)	10%		+ 1%		+ 20%
νιλητ.	8 / 07*	Contribution ex-TAC	\$34	\$33	2%	\$7	\$3	173%	29%	(0%)	39%	N/a	N/a	N/a	N/a
<b>\$</b> ZETA	8 / 02*	Revenue	\$172	\$162	6%	\$27	\$24	10%	14%	(0%)	2%		+ 2%		+ 4%



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Source: FactSet (Market data as of 09/30/2023) Note: \$ in millions, unless otherwise noted. Broker consensus represents median broker estimates. T+1 trading performance is defined as the close of the first trading day following earnings announcement. \*Represents earnings release after market close. (1) Represents Adj. EBITDA; RAMP defined as Non-GAAP operating income. (2) Represents the mid-point of guidance range. (3) Perion guidance represents gross revenue.

### **MarTech Earnings Reaction**

Cohort largely exceeded Q2 2023 revenues and EBITDA expectations; nuanced intra-cohort market reaction

				Most Rece	nt Quarter							C	Change in FY Guidance <sup>(2)</sup>		
Overvie	W		Revenue		Profita	bility / EBI	TDA <sup>(1)</sup>	Tradi	ng Perform	ance	Rev	enue	Profital	bility	
Company	Date	Actual	Cons.	Beat/Miss	Actual	Cons.	Beat/Miss	T+1 Comp	T+1 S&P	YTD Comp	Change	%	Defined	Change	%
Amplitude	08/08*	\$68	\$67	1%	\$0	(\$0)	NM	7%	(1%)	(4%)		+ 3 %	Non-GAAP Operating Inc		+ 11%
BIGCOMMERCE	08/03*	\$75	\$73	3%	(\$3)	(\$5)	49%	27%	(1%)	13%		%	Non-GAAP Operating Inc		+ 25%
braze	09/07*	\$115	\$109	6%	(\$14)	(\$13)	(10%)	3%	0%	71%		+ 2 %	Non-GAAP Operating Inc		+ 14%
BRIGHTCOVE	08/02*	\$51	\$51	1%	\$4	\$2	59%	(1%)	(0%)	(37%)		(2%)	Adj. EBITDA	-	(31%)
🟓 comscore	08/08*	\$94	\$90	4%	\$9	\$8	9%	10%	(1%)	(47%)		n/a	Adj. EBITDA	_	n/a
🌍 coveo 🖷	08/08*	\$31	\$30	1%	(\$3)	(\$3)	6%	5%	(1%)	13%		%	Adj. Operating Gain / Loss		+ 11%
DoubleVerify	07/31*	\$134	\$134	(0%)	\$40	\$38	5%	(15%)	(0%)	27%		%	Adj. EBITDA		%
HubSpot	08/02*	\$529	\$504	5%	\$90	\$73	23%	(11%)	(0%)	70%		+ 2%	Non-GAAP Operating Inc.		+ 6%
IAS.	08/03*	\$114	\$112	1%	\$37	\$36	4%	(19%)	(1%)	35%		+ < 1%	Adj. EBITDA		+ 1%
🔆 kaltura	08/02	\$44	\$43	2%	(\$1)	(\$2)	28%	8%	(1%)	1%		+ 1%	Adj. EBITDA		+ 23%
<b>O LIVE</b> PERSON	08/08*	\$98	\$97	0%	\$13	\$5	NM	19%	(1%)	(62%)		%	Adj. EBITDA		+ 9%
/LiveRamp	08/09*	\$154	\$147	5%	\$22	\$16	33%	18%	0%	23%		+ 2%	Non-GAAP Operating Inc.	_	%
<b>©N</b> 24	08/08*	\$42	\$42	1%	(\$1)	(\$1)	21%	(13%)	(1%)	(27%)		(3%)	Non-GAAP Operating Inc.		+ 8%
QuinStreet	08/09*	\$130	\$128	2%	\$2	\$1	28%	17%	0%	(37%)	n/a	n/a	Adj. EBITDA	n/a	n/a
🔊 SEMRUSH	08/04	\$75	\$74	0%	\$3	(\$2)	NM	3%	(1%)	4%		+ < 1%	Non-GAAP Net Income		NM
🗿 shopify	08/02*	\$1,694	\$1,623	4%	\$163	\$81	NM	(5%)	(0%)	57%	n/a	n/a	Adj. Net Income	n/a	n/a
🔇 similarweb	08/08*	\$54	\$54	(0%)	(\$2)	(\$6)	66%	(12%)	(1%)	1%		(2%)	Non-GAAP Operating Inc		+ 23%
Na sprinklr	09/06*	\$178	\$174	3%	\$25	\$16	55%	0%	(0%)	69%		+ 1%	Non-GAAP Operating Inc		+ 25%
💋 sproutsocial	08/03*	\$79	\$79	1%	\$3	(\$1)	NM	(12%)	(1%)	(12%)		(1%)	Non-GAAP Operating Inc		(36%)
SQUARESPACE	08/08	\$248	\$243	2%	\$73	\$58	27%	(4%)	(0%)	31%		+ 2%	Non-GAAP Unlevered FCF		+ 11%
TechTarget	08/08*	\$58	\$57	3%	\$19	\$17	8%	7%	(1%)	(31%)	-	n/a	Adj. EBITDA		%
🙂 twilio	08/08*	\$1,038	\$986	5%	\$195	\$143	37%	2%	(1%)	20%	n/a	n/a	Non-GAAP Operating Inc.		+ 20%
WiX	08/03	\$390	\$383	2%	\$73	\$43	71%	13%	(0%)	19%		+ 1%	Free Cash Flow		+ 16%
Yext	09/06*	\$103	\$102	1%	\$12	\$12	2%	(28%)	(0%)	(3%)	_	n/a	Adj. EBITDA		+ 2%
<b>ZETA</b>	08/02*	\$172	\$162	6%	\$27	\$24	10%	14%	(0%)	2%		+ 2%	Adj. EBITDA		+ 4%
Z zoominfo	07/31*	\$309	\$311	(1%)	\$130	\$131	(0%)	(27%)	(0%)	(46%)		(4%)	Non-GAAP Adj. Op Income		(6%)



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## Ad Tech – Q3 2023 Market Performance

Ranking – Highest to Lowest Share Price Increase / (Decrease) in %													
	Share Price	e (\$)	QoQ % Change	Market Cap (\$mm)	EV / LTM Net F	Revenue <sup>(1)</sup>							
Company	Beginning of Q3 2023	End of Q3 2023	% Increase / (Decrease)	End of Q3 2023	Beginning of Q3 2023	End of Q3 2023							
1 Cardlytics	\$6.32	\$16.50	+161.1%	\$744	5.8x	7.7x							
2 AppLovin	\$25.73	\$39.96	+55.3%	\$15,817	4.1x	6.3x							
3 Taboola	\$3.11	\$3.79	+21.9%	\$1,268	1.8x	2.3x							
4 Viant	\$4.61	\$5.60	+21.5%	\$374	2.5x	2.9x							
5 Innovid	\$1.09	\$1.28	+17.4%	\$199	1.0x	1.3x							
6 Media and Games Invest	\$1.00	\$1.14	+13.8%	\$193	1.0x	1.5x							
7 Roku	\$63.96	\$70.59	+10.4%	\$10,557	2.2x	2.7x							
8 theTradeDesk	\$77.22	\$78.15	+1.2%	\$39,968	23.0x	22.2x							
9 LiveRamp	\$28.56	\$28.84	+1.0%	\$2,084	2.6x	2.6x							
10 Perion Network	\$30.67	\$30.63	(0.1%)	\$1,528	4.1x	3.5x							
11 Affle	\$13.33	\$13.31	(0.1%)	\$1,774	24.9x	23.9x							
12 Outbrain	\$4.92	\$4.87	(1.0%)	\$269	1.1x	1.0x							
13 Zeta	\$8.54	\$8.35	(2.2%)	\$2,270	3.8x	3.6x							
14 S&P 500	\$4,450.38	\$4,288.05	(3.6%)	NA	NA	NA							
15 AdTheorent	\$1.40	\$1.29	(7.9%)	\$128	0.5x	0.5x							
16 Mobvista	\$0.44	\$0.40	(8.4%)	\$622	NA	NA							
17 Criteo	\$33.74	\$29.20	(13.5%)	\$1,895	2.1x	1.8x							
18 Illumin	\$1.68	\$1.35	(19.8%)	\$84	1.2x	0.8x							
19 MediaAlpha	\$10.31	\$8.26	(19.9%)	\$574	11.1x	10.1x							
20 Unity Software	\$43.42	\$31.39	(27.7%)	\$13,463	12.7x	8.2x							
21 Double Verify	\$38.92	\$27.95	(28.2%)	\$4,973	13.9x	9.3x							
22 PubMatic	\$18.28	\$12.10	(33.8%)	\$691	3.6x	2.0x							
23 Integral Ad Science	\$17.98	\$11.89	(33.9%)	\$2,027	7.3x	4.8x							
24 Digital Turbine	\$9.28	\$6.05	(34.8%)	\$631	4.4x	3.2x							
25 Magnite	\$13.65	\$7.54	(44.8%)	\$1,132	4.8x	2.8x							
26 Nexxen	\$3.60	\$1.76	(51.1%)	\$264	1.5x	0.6x							
Average					5.0x	4.4x							



## **MarTech – Q3 2023 Market Performance**

	Rank	ing – Highest to Low	est Share Price Increas	e / (Decrease) in %				
	Share Price	e (\$)	QoQ % Change	Market Cap (\$mm)	EV / LTM Net Revenue			
Company	Beginning of Q3 2023	End of Q3 2023	% Increase / (Decrease)	End of Q3 2023	Beginning of Q3 2023	End of Q3 2023		
1 Coveo	\$6.24	\$7.55	+21.0%	\$844	4.6x	5.5x		
2 Wix	\$78.24	\$91.80	+17.3%	\$5,581	3.2x	3.6x		
3 Klaviyo	\$30.00 <sup>(1)</sup>	\$34.50	+15.0%	\$10,497	NA	17.2x		
4 Sprout Social	\$46.16	\$49.88	+8.1%	\$2,921	9.2x	9.5x		
5 Braze	\$43.79	\$46.73	+6.7%	\$5,195	11.4x	11.6x		
6 Amplitude	\$11.00	\$11.57	+5.2%	\$1,608	5.0x	5.0x		
7 QuinStreet	\$8.83	\$8.97	+1.6%	\$517	0.7x	0.8x		
8 LiveRamp	\$28.56	\$28.84	+1.0%	\$2,084	2.6x	2.6x		
9 Sprinklr	\$13.83	\$13.84	+0.1%	\$4,123	5.4x	5.2x		
10 BigCommerce	\$9.95	\$9.87	(0.8%)	\$819	3.1x	2.9x		
11 Similarweb	\$6.56	\$6.48	(1.2%)	\$566	2.4x	2.3x		
12 Zeta Global	\$8.54	\$8.35	(2.2%)	\$2,270	3.8x	3.6x		
13 TechTarget	\$31.13	\$30.36	(2.5%)	\$898	3.6x	3.8x		
14 S&P 500	\$4,450.38	\$4,288.05	(3.6%)	NA	NA	NA		
15 HubSpot	\$532.09	\$492.50	(7.4%)	\$25,905	14.4x	12.8x		
16 Twillio	\$63.62	\$58.53	(8.0%)	\$11,894	2.3x	2.3x		
17 Squarespace	\$31.54	\$28.97	(8.1%)	\$4,193	5.3x	4.7x		
18 SEMrush	\$9.57	\$8.50	(11.2%)	\$1,264	3.6x	3.7x		
19 Appier	\$12.10	\$10.72	(11.4%)	\$1,090	7.7x	6.1x		
20 LivePerson	\$4.52	\$3.89	(13.9%)	\$318	1.4x	1.5x		
21 Shopify	\$64.60	\$54.57	(15.5%)	\$70,652	13.4x	10.6x		
22 BrightCove	\$4.01	\$3.29	(18.0%)	\$161	0.9x	0.7x		
23 Kaltura	\$2.12	\$1.73	(18.4%)	\$264	1.6x	1.3x		
24 ON24	\$8.12	\$6.33	(22.0%)	\$321	0.6x	0.5x		
25 comScore	\$0.81	\$0.61	(24.2%)	\$61	0.7x	0.6x		
26 DoubleVerify	\$38.92	\$27.95	(28.2%)	\$4,973	13.9x	9.3x		
27 Integral Ad Science	\$17.98	\$11.89	(33.9%)	\$2,027	7.3x	4.8x		
28 ZoomInfo	\$25.39	\$16.40	(35.4%)	\$6,822	9.7x	6.2x		
Average					5.3x	5.1x		



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2	Q3 2023 Public Markets Overview
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С	MarTech Performance Benchmarking
3	Q3 2023 Private Financing Activity
4	Appendix



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## **LUMA.A** – Benchmarking at a Glance

### **Summary Observations**

- The LUMA.A index cohort has 25 companies, including 4 that overlap with the LUMA.M index cohort.
- The average Enterprise Value of LUMA.A constituents is \$4.1bn, with theTradeDesk (\$38.5bn) at the high end of the range and Illumin (\$39mm) at the lower end of the EV range.

### Net Revenue:

- LUMA.A companies have an average 2023E Net Revenue of \$734mm and trade at an average EV / 2023E Net Revenue of 4.1x. From a scale perspective, Roku is expected to have the highest Net Revenue (\$3.4bn) followed by AppLovin (\$3.1bn).
- theTradeDesk is trading at the highest EV / 2023E Net Revenue at 19.1x, while AdTheorent is trading at the lowest EV / 2023E Net Revenue multiple at 0.5x. Growth forecasts have come down throughout the year, as the average Net Revenue growth rate for '23E is 7.7%, down YoY from a 2022 growth rate of 14.8%.

### **Profitability:**

LUMA.A companies have an average 2023E EBITDA<sup>(2)</sup> margin of 22.9%. EBITDA margins have largely held throughout the year and are slightly up from 2022 EBITDA margins of 22.7%. Perion leads the cohort with 54% 2023E EBITDA margins, followed by AppLovin at 43%. From a pure dollar perspective, AppLovin leads the cohort with expected 2023E EBITDA of \$1.3bn.

### **Number of Companies**





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Avg. Enterprise Value

# **\$4.1bn**

### Avg. EV / 2023E Net Revenue<sup>(1)</sup>

# **4.1x**

### Avg. 2023E EBITDA Margin<sup>(1) (2)</sup>



# **LUMA.A** – Summary Valuation Statistics

(\$mm, excl. price)						EV / Net Revenue <sup>(1)</sup>				EV / Adj. EBITDA	
Company	Ticker	Exchange	Share Price	FD Market Cap	Enterprise Value	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E
Affle <sup>(1)</sup>	AFFLE	BSE	\$13.31	\$1,774	\$1,700	25.5x	NA	NA	49.1x	40.1x	30.4x
			<b>T</b>	τ )	Ŧ )						
AdTheorent	ADTH	NASDAQ	\$1.29	\$128	\$55	0.5x	0.5x	0.5x	2.5x	2.9x	2.5x
AppLovin	APP	NASDAQ	\$39.96	\$15,817	\$18,141	6.4x	5.9x	5.2x	17.1x	13.7x	11.7x
Cardlytics	CDLX	NASDAQ	\$16.50	\$744	\$879	7.8x	7.0x	6.1x	NM	NM	73.7x
Criteo	CRTO	NASDAQ	\$29.20	\$1,895	\$1,682	1.8x	1.6x	1.5x	6.3x	5.9x	5.3x
Digital Turbine	APPS	NASDAQ	\$6.05	\$631	\$978	2.8x	3.5x	NA	5.1x	9.2x	6.6x
DoubleVerify	DV	NYSE	\$27.95	\$4,973	\$4,685	10.4x	8.3x	6.7x	33.1x	26.7x	21.3x
Illumin	ILLM	NASDAQ	\$1.35	\$84	\$39	0.8x	0.8x	0.7x	8.0x	17.3x	6.5x
Innovid	CTV	NYSE	\$1.28	\$199	\$175	1.4x	1.3x	1.1x	NM	13.4x	9.7x
Integral Ad Science	IAS	NASDAQ	\$11.89	\$2,027	\$2,122	5.2x	4.6x	3.9x	16.8x	14.0x	11.8x
LiveRamp	RAMP	NYSE	\$28.84	\$2,084	\$1,580	2.7x	2.6x	2.4x	29.3x	17.9x	12.5x
Magnite	MGNI	NASDAQ	\$7.54	\$1,132	\$1,505	2.9x	2.8x	2.5x	8.4x	8.8x	7.5x
MediaAlpha	MAX	NYSE	\$8.26	\$574	\$655	9.3x	10.3x	8.3x	28.6x	31.1x	18.9x
Media and Games Invest	M8G	NASDAQ	\$1.14	\$193	\$526	1.5x	1.6x	1.5x	5.3x	5.4x	4.9x
Mobvista	1860	HKG	\$0.40	\$622	\$605	2.7x	2.7x	2.3x	16.8x	NA	NA
Nexxen	TRMR	LSE	\$1.76	\$264	\$180	0.6x	0.6x	0.5x	1.2x	2.1x	1.7x
Outbrain	OB	NASDAQ	\$4.87	\$269	\$214	0.9x	0.9x	0.8x	8.1x	7.1x	5.0x
Perion Network	PERI	NASDAQ	\$30.63	\$1,528	\$1,045	3.9x	3.3x	3.0x	7.9x	6.2x	5.8x
PubMatic	PUBM	NASDAQ	\$12.10	\$691	\$520	2.0x	2.1x	1.9x	5.3x	8.4x	6.6x
Roku	ROKU	NASDAQ	\$70.59	\$10,557	\$8,802	2.8x	2.6x	2.3x	NM	NM	NM
Taboola	TBLA	NASDAQ	\$3.79	\$1,268	\$1,216	2.1x	2.2x	1.4x	7.8x	15.8x	6.0x
theTradeDesk	TTD	NASDAQ	\$78.15	\$39,968	\$38,537	24.4x	19.8x	16.1x	57.7x	50.4x	40.3x
Unity Software	U	NYSE	\$31.39	\$13,463	\$14,754	10.6x	6.8x	5.6x	NM	44.2x	22.7x
Viant	DSP	NASDAQ	\$5.60	\$374	\$374	3.0x	2.7x	2.4x	NM	15.2x	13.5x
Zeta Global	ZETA	NYSE	\$8.35	\$2,270	\$2,337	4.0x	3.3x	2.8x	25.3x	18.8x	15.0x
Average						4.6x	4.1x	3.5x	15.3x	15.9x	14.1x
Median						2.8x	2.7x	2.4x	8.1x	13.7x	8.6x
25 <sup>th</sup> Percentile						1.7x	1.6x	1.4x	5.8x	7.1x	5.9x
75 <sup>th</sup> Percentile						5.5x	4.9x	4.6x	21.2x	17.9x	14.6x



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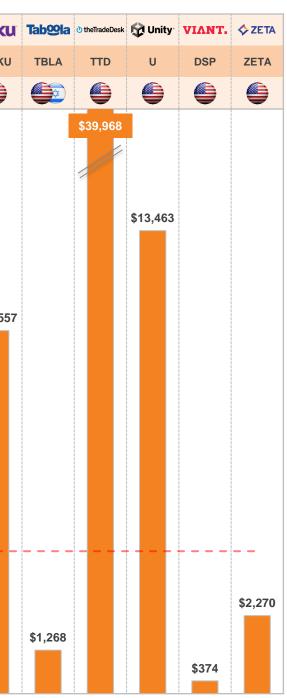
Source: LUMA Analysis, FactSet (Market data as of 09/30/2023), Company Filings. Note: Figures correspond to calendar years, or closest equivalent period, See Appendix C for detail. Forward estimates excluded for companies whose relevant metrics are not available on a forward basis (i.e., excluded if brokers do not forecast the specific metric such as "Ex-TAC Gross Profit" or similar such top-line metric). EBITDA multiples less than zero or greater than 75.0x are considered not meaningful ("NM"). Please refer to Appendices A & B for detail on methodology and definitions. (1) Affle excluded from summary statistics.

# **LUMA.A** – Market Cap Distribution

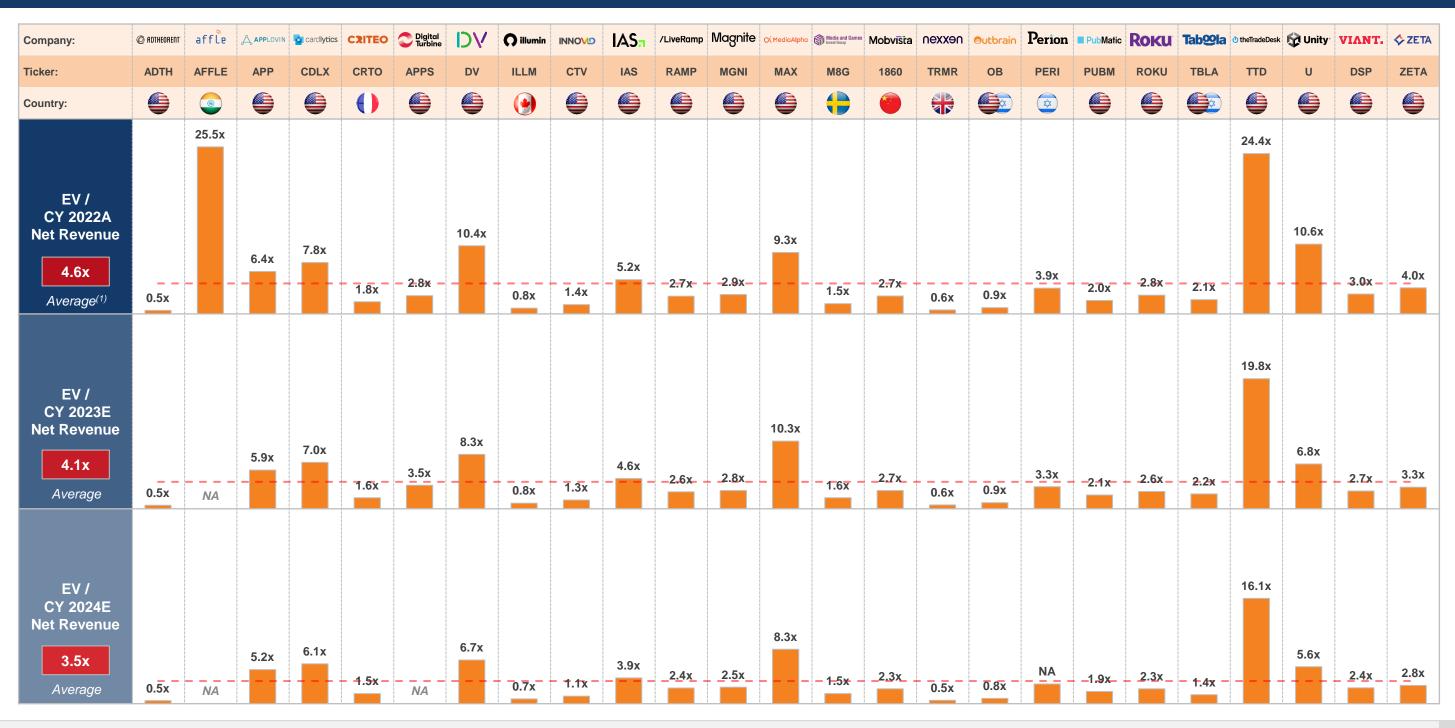
Company:	© ADTHEORENT	affle	இ <b>APP</b> LOVIN	ardlytics	CRITEO	Digital Turbine	DV	<b>O</b> illumin		IAS.	/LiveRamp	Magnite	🔿 MediaAlpha	Media and Games	Mobvista	nexxən	Outbrain	Perion	PubMatic	Rok
Ticker:	ADTH	AFFLE	APP	CDLX	CRTO	APPS	DV	ILLM	СТV	IAS	RAMP	MGNI	МАХ	M8G	1860	TRMR	ОВ	PERI	PUBM	ROKI
Country:	•	۲				6		۲				6			<u>(</u>			$\overline{x}$	6	
Fully-Diluted Market Cap (\$ in millions) \$4,141 Average			\$15,817				\$4,973													\$10,55
	\$128	\$1,774		\$744	\$1,895	\$631		\$84	\$199	\$2,027	\$2,084	\$1,132	\$574	\$193	\$622	\$264	\$269	\$1,528	\$691	



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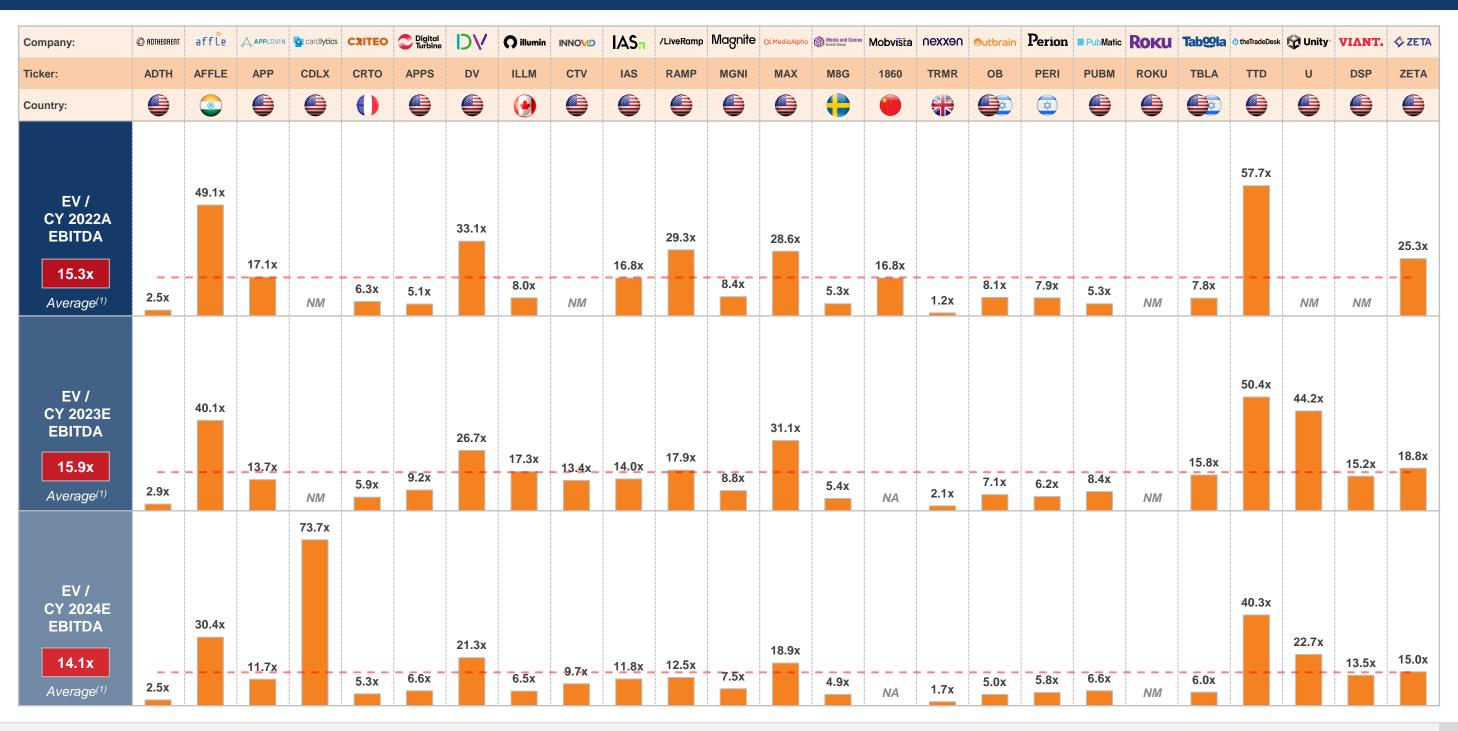
## LUMA.A – EV / Net Revenue





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# LUMA.A – EV / EBITDA



LUMA

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# **LUMA.A** – Summary Financial Statistics

(\$mm, excl. price)			Net Revenue		Net	Revenue Grow	th %	EBITDA			
Company	Ticker	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E	
Affle <sup>(1)</sup>	AFFLE	\$67	NA	NA	42%	NA	NA	\$35	\$42	\$56	
		<b>.</b>						<b>.</b>			
AdTheorent	ADTH	\$110	\$108	\$120	0%	(1%)	10%	\$22	\$19	\$22	
AppLovin	APP	\$2,817	\$3,084	\$3,486	1%	9%	13%	\$1,063	\$1,323	\$1,545	
Cardlytics	CDLX	\$113	\$125	\$145	10%	11%	16%	(\$45)	(\$4)	\$12	
Criteo	CRTO	\$928	\$1,021	\$1,102	1%	10%	8%	\$267	\$284	\$319	
Digital Turbine	APPS	\$356	\$276	NA	14%	(22%)	NA	\$191	\$107	\$147	
DoubleVerify	DV	\$452	\$567	\$704	36%	25%	24%	\$142	\$176	\$220	
Illumin	ILLM	\$45	\$47	\$53	(11%)	3%	13%	\$5	\$2	\$6	
Innovid	CTV	\$127	\$135	\$153	41%	6%	13%	\$1	\$13	\$18	
Integral Ad Science	IAS	\$408	\$463	\$539	26%	13%	16%	\$127	\$151	\$179	
LiveRamp	RAMP	\$590	\$619	\$663	17%	5%	7%	\$54	\$88	\$126	
Magnite	MGNI	\$515	\$546	\$600	12%	6%	10%	\$179	\$170	\$200	
MediaAlpha	MAX	\$70	\$64	\$79	(31%)	(9%)	24%	\$23	\$21	\$35	
Media and Games Invest	M8G	\$344	\$321	\$344	21%	(7%)	7%	\$99	\$98	\$107	
Mobvista	1860	\$225	\$221	\$268	51%	(2%)	21%	\$36	NA	NA	
Nexxen	TRMR	\$310	\$324	\$354	3%	5%	9%	\$145	\$86	\$103	
Outbrain	OB	\$235	\$237	\$265	(14%)	1%	12%	\$26	\$30	\$43	
Perion Network	PERI	\$268	\$314	\$349	41%	17%	11%	\$132	\$168	\$180	
PubMatic	PUBM	\$256	\$253	\$281	13%	(1%)	11%	\$98	\$62	\$79	
Roku	ROKU	\$3,127	\$3,373	\$3,877	13%	8%	15%	(\$84)	(\$196)	\$50	
Taboola	TBLA	\$570	\$545	\$896	10%	(4%)	64%	\$157	\$77	\$203	
theTradeDesk	TTD	\$1,578	\$1,944	\$2,398	32%	23%	23%	\$668	\$765	\$956	
Unity Software	U	\$1,391	\$2,171	\$2,617	25%	56%	21%	(\$51)	\$334	\$650	
Viant	DSP	\$125	\$140	\$154	(12%)	12%	10%	(\$6)	\$25	\$28	
Zeta Global	ZETA	\$591	\$715	\$839	29%	21%	17%	\$92	\$125	\$155	
Average					14%	8%	16%				
Median					13%	6%	13%				
25 <sup>th</sup> Percentile					1%	(1%)	10%				
75 <sup>th</sup> Percentile					27%	12%	19%				



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	EBITDA Margin %	
CY2022A	CY2023E	CY2024E
52%	NA	NA
20%	17%	18%
38%	43%	44%
(40%)	(3%)	8%
29%	28%	29%
54%	39%	NA
31%	31%	31%
11%	5%	11%
1%	10%	12%
31%	33%	33%
9%	14%	19%
35%	31%	33%
33%	33%	44%
29%	31%	31%
16%	NA	NA
47%	27%	29%
11%	13%	16%
49%	54%	52%
38%	24%	28%
(3%)	(6%)	1%
28%	14%	23%
42%	39%	40%
(4%)	15%	25%
(5%)	18%	18%
16%	17%	19%
040/	000/	200/
21%	23%	26%
28%	24%	26%
10%	14%	18%
35%	32%	33%

## **LUMA.A** – Net Revenue Growth

Company:	Ø ADTHEORENT	affle	<b>ஃ app</b> lovin	🔁 cardlytics	CRITEO	C Digital Turbine	DV	<b>Q</b> illumin		IAS.	/LiveRamp	Magnite	🗘 MediaAlpha	Media and Games	Mobvista	nexxən	outbrain	Perion	PubMatic	Roku	<b>Tab</b> @la	() theTradeDesk	🙀 Unity	νιλητ.	SETA
Ticker:	ADTH	AFFLE	APP	CDLX	CRTO	APPS	DV	ILLM	СТУ	IAS	RAMP	MGNI	МАХ	M8G	1860	TRMR	ОВ	PERI	PUBM	ROKU	TBLA	TTD	U	DSP	ZETA
Country:		۲	6					۲							6			$\overline{x}$							
Scale (\$mm)	\$110	\$67	\$2,817	\$113	\$928	\$356	\$452	\$45	\$127	\$408	\$590	\$515	\$70	\$344	\$225	\$310	\$235	\$268	\$256	\$3,127	\$570	\$1,578	\$1,391	\$125	\$591
CY 2022A Net Revenue Growth	0% -	42%	- 1%	_10%_	1% -	14%	36%		41%	26% - <mark></mark> -	17%	12%		21% - <mark></mark> -	51%	3% -		41%	13%	13%	_ 10% _	32%	25%		29%
14% Average <sup>(1)</sup>								(11%)					(31%)				(14%)							(12%)	
Scale (\$mm)	\$108	NA	\$3,084	\$125	\$1,021	\$276	\$567	\$47	\$135	\$463	\$619	\$546	\$64	\$321	\$221	\$324	\$237	\$314	\$253	\$3,373	\$545	\$1,944	\$2,171	\$140	\$715
CY 2023E Net Revenue Growth		_ NA _	9%	11%	10%		25%	_3%_	6%	13% - <mark></mark> -	5%	6%				5%	_ <u>1% _</u>	17%		8%		23% 	56%	12%	21%
8% Average	(1%)					(22%)							(9%)	(7%)	(2%)				(1%)		(4%)				
Scale (\$mm)	\$120	NA	\$3,486	\$145	\$1,102	NA	\$704	\$53	\$153	\$539	\$663	\$600	\$79	\$344	\$268	\$354	\$265	\$349	\$281	\$3,877	\$896 64%	\$2,398	\$2,617	\$154	\$839
CY 2024E Net Revenue Growth 16% Average	10%_	NA	_13%	16%	8%	- <u></u> -	24%	13%	13%	16%	- 7%	10%	24% 	- 7%	21%	9%	_ 12% _	_ 11% _	_11%_	15%		23%	21%	_ 10% _	17%



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# **LUMA.A** – EBITDA Margin

Company:	© ADTHEORENT	affle	<b>ஃ APP</b> LOVIN	ardlytics	CRITEO	Digital Turbine	VCI	<b>O</b> illumin		IAS.	/LiveRamp	Magnite	🔿 MediaAlpha	Media and Games	Mobvista	nexxən	Outbrain	Perion	PubMatic	Roku	<b>Tab</b> 991a	🕐 theTradeDesk	😭 Unity	νιλητ.	¢ZET/
Ficker:	ADTH	AFFLE	APP	CDLX	CRTO	APPS	DV	ILLM	СТV	IAS	RAMP	MGNI	MAX	M8G	1860	TRMR	ОВ	PERI	PUBM	ROKU	TBLA	TTD	U	DSP	ZETA
Country:	6	۲						۲							0				6						
Average <sup>(1)</sup>		52%	38%			54%						35%	000/			47%		49%	38%			42%			
21%	20%		_		29%		31%	11%		31% _ <mark></mark> _	- 0%	5578	33%	29% 	_1 <u>6%_</u>		- +1% -				28% - <mark></mark> -				<u>    1</u> 6%
CY 2022A EBITDA Margin %									1%											(3%)			(4%)	(5%)	
				(40%)																					
YoY bps ∆	(190)	(27)	+117	(282)	(63)	+69	(17)	(205)	(51)	(09)	+00	+15	(246)	+05	+104	(66)	(215)	+129	(42)	(195)	(71)	+03	(19)	(310)	+18
Average 23%	17 <u>%</u> _		43%		28%	39%	31%		- 707/-	33%	_14%	31%	33%	31%		27%	<b>- 1</b> 3% -	54%	24%		- 14% -	39%	_15%_	<u>18%</u> _	_ <u>1</u> 7%
CY 2023E		NA						5%	10%						NA										
EBITDA Margin %				(3%)																(6%)					
YoY bps $\Delta$	(28)	NA	+51	+369	(10)	(149)	(03)	(59)	+87	+16	+51	(36)	+04	+19	NA	(202)	+15	+41	(138)	(31)	(134)	(30)	+191	+225	+18
Average	18%_		44%		29%		31%			33%	19%	33%	44%	31%		29%	400/	52%	28%		23%	40%	25%	_ 18%_	_ 19%
CY 2024E EBITDA Margin %		NA		8%		NA		11%	12%						NA		- 16% -			1%				_ 1020	
YoY bps $\Delta$	+07	NA	+14	+114	+11	NA	+03	+64	+20	+07	+48	+21	+109	+03	NA	+26	+35	(20)	+37	+71	+85	+06	+95	+04	+11



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Source: LUMA Analysis, FactSet (Market data as of 09/30/2023), Company Filings. Note: EBITDA margins calculated with "Net Revenue" as denominator, and therefore may not correspond to a given company's reported EBITDA margins calculated with "Net Revenue" as denominator, and therefore may not correspond to a given company's reported EBITDA margins calculated with "Net Revenue" as denominator, and therefore may not correspond to a given company's reported EBITDA margins calculated with "Net Revenue" as denominator, and therefore may not correspond to a given company's reported EBITDA margins calculated with "Net Revenue" as denominator, and therefore may not correspond to a given company's reported EBITDA margins. Note: EBITDA margins calculated with "Net Revenue" as denominator, and therefore may not correspond to a given company's reported EBITDA margins. (1) Affle excluded from averages.

## LUMA.M – Benchmarking at a Glance

### **Summary Observations**

- The LUMA.M index cohort has 28 companies, including 4 that overlap with the 11 LUMA.A index cohort.
- Since the Q2 2023 Market Report, the LUMA.M index cohort has evolved: 11
  - The acquisition of Quotient Technologies (NYSE: QUOT) closed; the company has been removed from the index.
  - Comscore (NASDAQ: SCOR) and Similarweb (NYSE: SMWB) have been retroactively added to the index.
  - Klaviyo (NYSE: KVYO) went public on September 20<sup>th</sup> and has been added to the index.
- The average Enterprise Value of LUMA.M constituents is \$5.7bn with Shopify at the top of the range (\$67bn) and ON24 (\$81mm) on the low end of the range.
- **Revenue:** 
  - From a scale perspective, LUMA.M companies have average 2023E revenue of \$914mm. Shopify leads the cohort with ~\$6.9bn of expected revenue.
  - The cohort is trading at an average EV / 2023E revenue of 4.3x. HubSpot is trading at the highest EV / 2023E revenue at 11.7x, followed by Braze at 10.4x. ON24 is trading at the lowest EV / 2023E revenue multiple at 0.5x. The average revenue growth rate for 2023E is 9.5% down from the 2022 average of 22.8%.
- **Profitability:** 
  - **LUMA.M** companies have an average 2023E EBITDA margin of 10.3%, up from 3.8% in 2022 as profitability remains a major focus of the sector. By scale, Twilio's 2023E EBITDA of \$686mm leads the cohort, while ZoomInfo has the highest 2023E EBITDA margin (+42%).

### **Number of Companies** Avg. Enterprise Value 28 \$5.7bn 4 overlap with LUMA.M Avg. 2023E Revenue Avg. EV / 2023E Revenue **\$914mm 4.3x** Avg. 2023E Rev. Growth % Avg. 2023E EBITDA Margin % +9.5% +10.3% Down from +22.8% in 2022A Up from +3.8% in 2022A







# **LUMA.M** – Summary Valuation Statistics

(\$mm, excl. price)							EV / Revenue			EV / Adj. EBITDA	
Company	Ticker	Exchange	Share Price	FD Market Cap	Enterprise Value	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E
Amplitude	AMPL	NASDAQ	\$11.57	\$1,608	\$1,318	5.5x	4.8x	4.4x	NM	NM	NM
Appier	4180	TYO	\$10.72	\$1,090	\$1,002	6.9x	5.7x	4.4x	NM	NA	NA
BigCommerce	BIGC	NASDAQ	\$9.87	\$819	\$861	3.1x	2.8x	2.5x	NM	NM	59.8x
Braze	BRZE	NASDAQ	\$46.73	\$5,195	\$4,724	13.4x	10.4x	8.5x	NM	NM	NM
Brightcove	BCOV	NASDAQ	\$3.29	\$161	\$142	0.7x	0.7x	0.7x	7.9x	12.0x	6.9x
ComScore	SCOR	NASDAQ	\$0.61	\$61	\$242	0.6x	0.6x	0.6x	6.6x	5.8x	4.5x
Coveo	CVO	TSE	\$7.55	\$844	\$653	5.9x	5.1x	4.3x	NM	NM	NM
Double Verify	DV	NYSE	\$27.95	\$4,973	\$4,685	10.4x	8.3x	6.7x	33.1x	26.7x	21.3x
Hubspot	HUBS	NYSE	\$492.50	\$25,905	\$24,831	14.3x	11.7x	9.6x	NM	67.4x	53.3x
Integral Ad Science	IAS	NASDAQ	\$11.89	\$2,027	\$2,122	5.2x	4.6x	3.9x	16.8x	14.0x	11.8x
Kaltura	KLTR	NASDAQ	\$1.73	\$264	\$227	1.3x	1.3x	1.3x	NM	NM	NM
Klaviyo	KVYO	NYSE	\$34.50	\$10,497	\$10,057	21.3x	NA	NA	NM	NA	NA
LivePerson	LPSN	NASDAQ	\$3.89	\$318	\$687	1.3x	1.7x	1.7x	NM	25.8x	16.4x
LiveRamp	RAMP	NYSE	\$28.84	\$2,084	\$1,580	2.7x	2.6x	2.4x	29.3x	17.9x	12.5x
ON24	ONTF	NYSE	\$6.33	\$321	\$81	0.4x	0.5x	0.6x	NM	NM	NM
QuinStreet	QNST	NASDAQ	\$8.97	\$517	\$443	0.8x	0.8x	0.6x	24.9x	38.4x	NA
SEMrush	SEMR	NYSE	\$8.50	\$1,264	\$1,040	4.1x	3.4x	2.8x	NM	NM	59.9x
Shopify	SHOP	TSE	\$54.57	\$70,652	\$66,786	11.9x	9.6x	8.1x	NM	NM	69.0x
SimilarWeb	SMWB	NYSE	\$6.48	\$566	\$488	2.5x	2.2x	2.0x	NM	NM	NM
Sprinklr	CXM	NYSE	\$13.84	\$4,123	\$3,495	5.7x	4.9x	4.2x	NM	42.3x	33.5x
SproutSocial	SPT	NASDAQ	\$49.88	\$2,921	\$2,741	10.8x	8.3x	6.5x	NM	NM	NM
Squarespace	SQSP	NYSE	\$28.97	\$4,193	\$4,413	5.1x	4.4x	4.0x	29.9x	18.5x	15.7x
TechTarget	TTGT	NASDAQ	\$30.36	\$898	\$1,021	3.4x	4.5x	4.3x	8.3x	15.1x	12.9x
Twilio	TWLO	NYSE	\$58.53	\$11,894	\$9,212	2.4x	2.3x	2.1x	33.5x	13.4x	12.1x
Wix	WIX	NASDAQ	\$91.80	\$5,581	\$5,320	3.8x	3.4x	3.0x	NM	26.0x	18.8x
Yext	YEXT	NYSE	\$6.33	\$859	\$658	1.6x	1.6x	1.6x	41.5x	12.9x	11.9x
Zeta Global	ZETA	NYSE	\$8.35	\$2,270	\$2,337	4.0x	3.3x	2.8x	25.3x	18.8x	15.0x
ZoomInfo	ZI	NASDAQ	\$16.40	\$6,822	\$7,396	6.7x	6.0x	5.6x	15.9x	14.3x	13.1x
Average						5.6x	4.3x	3.7x	22.7x	23.1x	24.9x
Median						4.0x	3.4x	3.0x	25.1x	18.2x	15.4x
25 <sup>th</sup> Percentile						2.2x	2.0x	1.9x	14.0x	13.9x	12.2x
75 <sup>th</sup> Percentile						6.8x	5.4x	4.4x	30.7x	26.2x	30.5x



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Source: LUMA Analysis, FactSet (Market data as of 09/30/2023), Company Filings. Note: Figures correspond to calendar years, or closest equivalent period, See Appendix C for detail.. EBITDA as defined by brokers. EBITDA multiples less than zero or greater than 75.0x are considered not meaningful ("NM"). Please refer to Appendices A & B for detail on methodology and definitions.

### LUMA.M – Market Cap Distribution

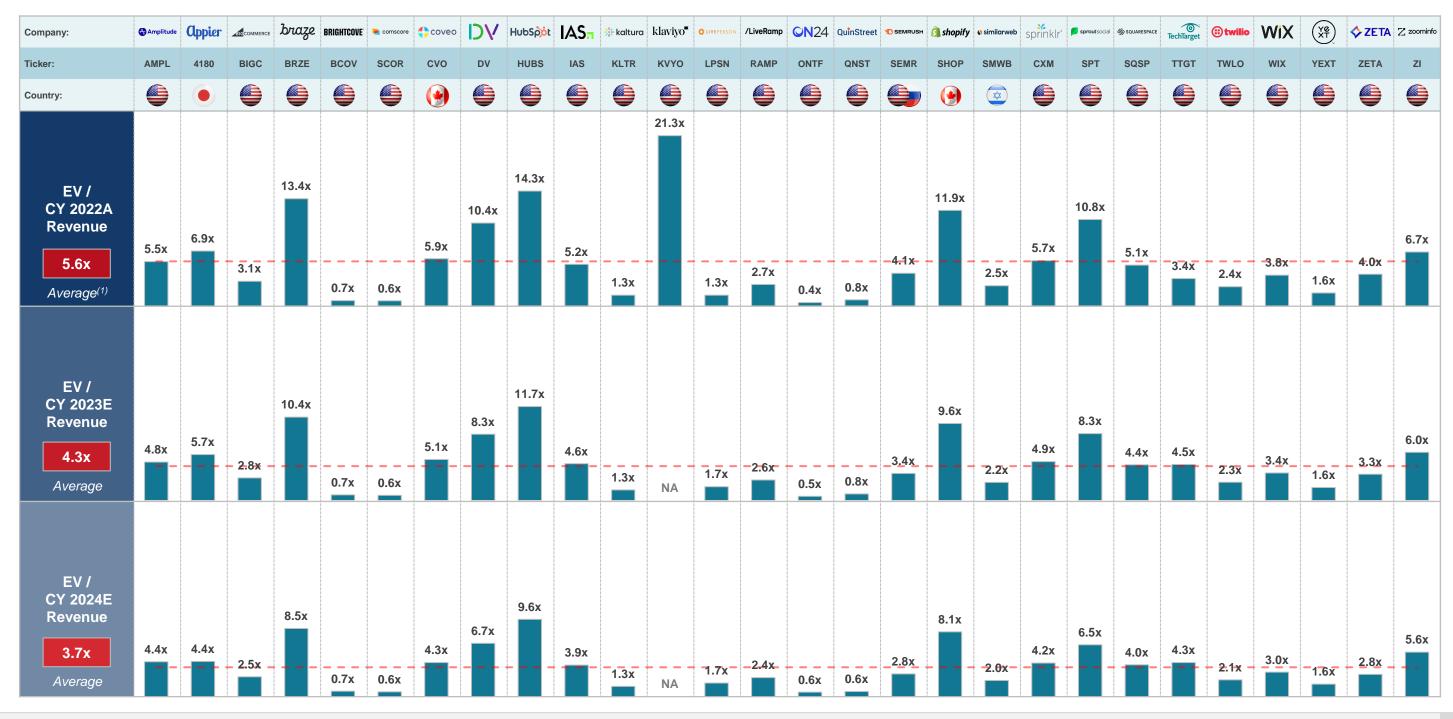
Company:	Amplitude	<b>Appi</b> er		braze	BRIGHTCOVE	본 comscore	🌔 coveo	Ŋ٧	HubS <mark>ộঠ</mark> t	IAS <mark>.</mark>	∦ kaltura	klaviyo	O LIVEPERSON	/LiveRamp	<b>©N</b> 24	QuinStreet	<b>∛</b> SEMRUSH	🗿 shopify	similarweb	sprinklr	p sproutsocial	🏐 SQUARESPACE	
Ticker:	AMPL	4180	BIGC	BRZE	BCOV	SCOR	сvо	DV	HUBS	IAS	KLTR	κνγο	LPSN	RAMP	ONTF	QNST	SEMR	SHOP	SMWB	СХМ	SPT	SQSP	
Country:			9		٢	٢	۲		•	•		٢		٢	•			۲		٢	•	9	
Fully-Diluted         Market Cap         (\$ in millions)         \$6,026         Average				\$5,195					\$25,905			\$10,497		\$2,084				\$70,652	+	\$4,123		\$4,193	
	\$1,608	\$1,090	\$819				\$844				\$264		\$318		\$321	\$517	\$1,264		\$566				



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### LUMA.M – EV / Revenue





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# LUMA.M – EV / EBITDA





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# **LUMA.M** – Summary Financial Statistics

(\$mm, excl. price)			Revenue		R	evenue Growth	%		EBITDA	
Company	Ticker	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E
Amplitude	AMPL	\$238	\$275	\$302	42%	15%	10%	(\$24)	(\$2)	\$13
Appier	4180	\$146	\$175	\$228	34%	19%	30%	\$10	NA	NA
BigCommerce	BIGC	\$279	\$307	\$348	27%	10%	13%	(\$44)	(\$7)	\$14
Braze	BRZE	\$353	\$454	\$555	NA	29%	22%	(\$66)	(\$47)	(\$17)
Brightcove	BCOV	\$211	\$202	\$211	(0%)	(4%)	5%	\$18	\$12	\$21
ComScore	SCOR	\$376	\$383	\$400	3%	2%	4%	\$37	\$42	\$54
Coveo	CVO	\$111	\$128	\$153	28%	15%	20%	(\$19)	(\$10)	\$3
Double Verify	DV	\$452	\$567	\$704	36%	25%	24%	\$142	\$176	\$220
Hubspot	HUBS	\$1,731	\$2,119	\$2,575	33%	22%	22%	\$227	\$368	\$466
Integral Ad Science	IAS	\$408	\$463	\$539	26%	13%	16%	\$127	\$151	\$179
Kaltura	KLTR	\$169	\$172	\$179	2%	2%	4%	(\$28)	(\$5)	\$3
Klaviyo	KVYO	\$473	NA	NA	63%	NA	NA	(\$31)	NA	NA
LivePerson	LPSN	\$515	\$400	\$402	10%	(22%)	1%	(\$16)	\$27	\$42
LiveRamp	RAMP	\$590	\$619	\$663	17%	5%	7%	\$54	\$88	\$126
ON24	ONTF	\$191	\$159	\$147	(6%)	(17%)	(7%)	(\$16)	(\$7)	\$1
QuinStreet	QNST	\$575	\$548	\$697	(2%)	(5%)	27%	\$18	\$12	NA
SEMrush	SEMR	\$254	\$308	\$367	35%	21%	19%	(\$22)	\$4	\$17
Shopify	SHOP	\$5,600	\$6,949	\$8,247	21%	24%	19%	\$97	\$624	\$968
SimilarWeb	SMWB	\$193	\$217	\$243	40%	12%	12%	(\$56)	(\$11)	(\$0)
Sprinklr	CXM	\$618	\$720	\$833	26%	17%	16%	\$0	\$83	\$104
SproutSocial	SPT	\$254	\$329	\$424	35%	29%	29%	(\$1)	\$6	\$15
Squarespace	SQSP	\$867	\$993	\$1,111	11%	15%	12%	\$147	\$238	\$280
TechTarget	TTGT	\$297	\$228	\$240	13%	(23%)	5%	\$122	\$68	\$79
Twilio	TWLO	\$3,826	\$4,062	\$4,380	35%	6%	8%	\$275	\$686	\$760
Wix	WIX	\$1,388	\$1,553	\$1,745	9%	12%	12%	(\$20)	\$205	\$283
Yext	YEXT	\$407	\$406	\$423	4%	(0%)	4%	\$16	\$51	\$55
Zeta Global	ZETA	\$591	\$715	\$839	29%	21%	17%	\$92	\$125	\$155
ZoomInfo	ZI	\$1,098	\$1,230	\$1,330	47%	12%	8%	\$465	\$517	\$566
Average					23%	9%	13%			
Median					26%	12%	12%			
25 <sup>th</sup> Percentile					9%	2%	6%			
75 <sup>th</sup> Percentile					35%	20%	20%			



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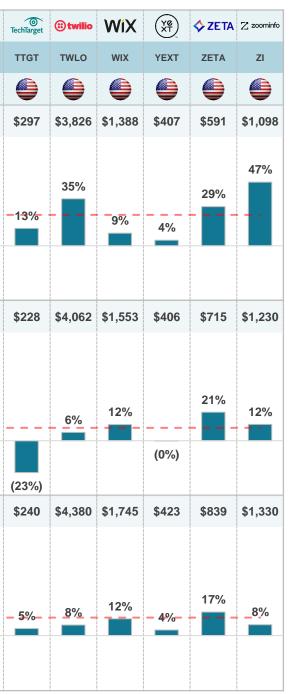
	EBITDA Margin %	6
CY2022A	CY2023E	CY2024E
(10%)	(1%)	4%
7%	NA	NA
(16%)	(2%)	4%
(19%)	(10%)	(3%)
8%	6%	10%
10%	11%	13%
(17%)	(8%)	2%
31%	31%	31%
13%	17%	18%
31%	33%	33%
(17%)	(3%)	2%
(6%)	NA	NA
(3%)	7%	10%
9%	14%	19%
(8%)	(4%)	1%
3%	2%	NA
(9%)	1%	5%
2%	9%	12%
(29%)	(5%)	(0%)
0%	11%	13%
(0%)	2%	4%
17%	24%	25%
41%	30%	33%
7%	17%	17%
(1%)	13%	16%
4%	13%	13%
16%	17%	19%
42%	42%	43%
4%	10%	14%
2%	10%	13%
(8%)	(0%)	4%
11%	17%	19%

### LUMA.M – Revenue Growth

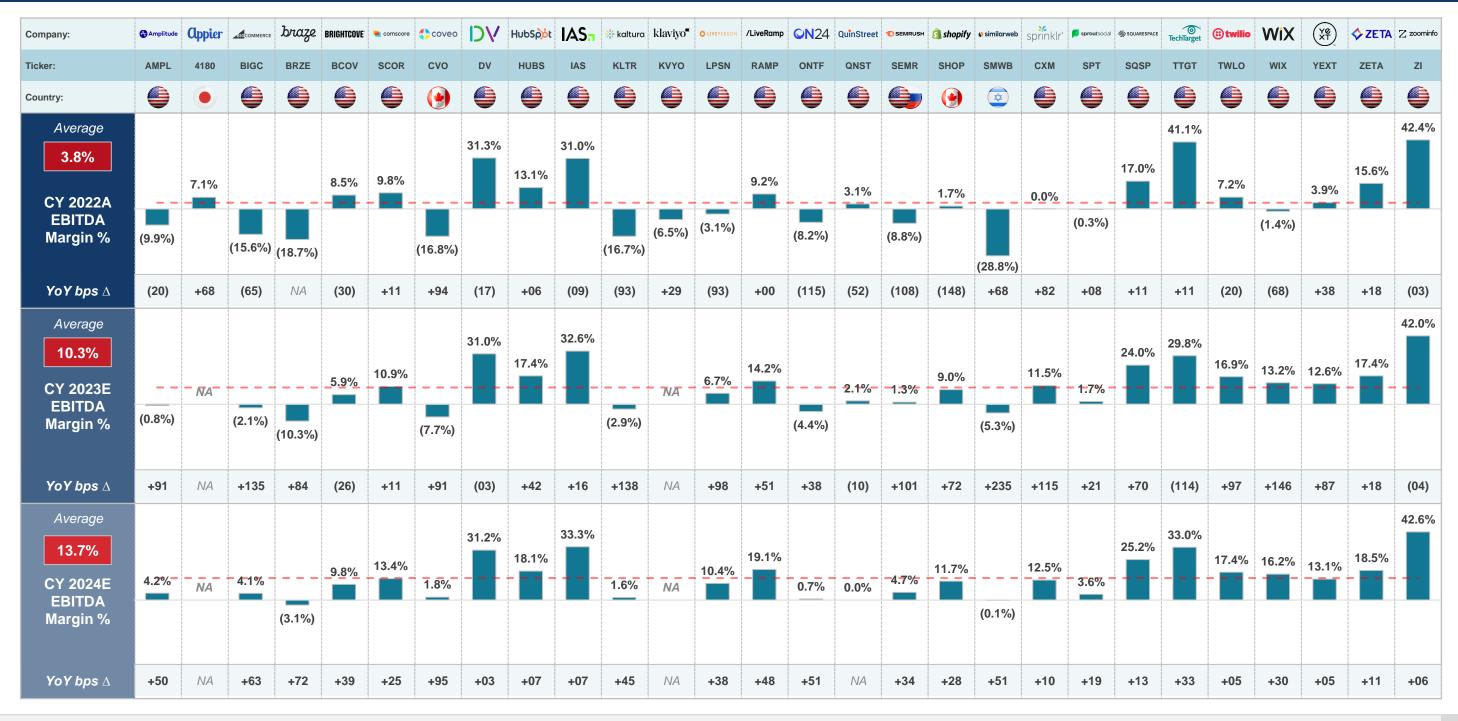
Company:	Amplitude	<b>Appi</b> er	BICCOMMERCE	braze	BRIGHTCOVE	e comscore	🌔 coveo	DV	HubS🍌t	IAS	🔆 kaltura	klaviyo	OLIVEPERSON	/LiveRamp	<b>ON</b> 24	Qu <mark>i</mark> nStreet	<b>T</b> SEMRUSH	🗿 shopify	() similarweb	sprinklr'	<b>p</b> sproutsocial	🍘 SQUARESPACE
Ticker:	AMPL	4180	BIGC	BRZE	BCOV	SCOR	сvо	DV	HUBS	IAS	KLTR	κνγο	LPSN	RAMP	ONTF	QNST	SEMR	SHOP	SMWB	СХМ	SPT	SQSP
Country:							۲		٢									۲				•
Scale (\$mm)	\$238	\$146	\$279	\$353	\$211	\$376	\$111	\$452	\$1,731	\$408	\$169	\$473	\$515	\$590	\$191	\$575	\$254	\$5,600	\$193	\$618	\$254	\$867
CY 2022A Revenue Growth	42%	34%	27%	NA		3%	28%	36%	33%	26%	2%	63%	10%	_12%			35%	21%	40%	26%	35%	711%-
23% Average					(0%)										(6%)	(2%)						
Scale (\$mm)	\$275	\$175	\$307	\$454	\$202	\$383	\$128	\$567	\$2,119	\$463	\$172	NA	\$400	\$619	\$159	\$548	\$308	\$6,949	\$217	\$720	\$329	\$993
CY 2023A Revenue Growth 9% Average	15%	19%	10%	29%	(4%)	-2%	15%	25%	22%	13%	- 2%	- <del>NA</del> -	(22%)	_ 5%	(17%)	(5%)	21%	24%	12%	17% -	29%	15%
Scale (\$mm)	\$302	\$228	\$348	\$555	\$211	\$400	\$153	\$704	\$2,575	\$539	\$179	NA	\$402	\$663	\$147	\$697	\$367	\$8,247	\$243	\$833	\$424	\$1,111
CY 2024A Revenue Growth 16% Average	10%_	30%	13%	22%	- 5%-	-4%	20%	24%	22%	16%	- 4%-	NA	-1% -	_ 7%	(7%)	27%	19%	19%	12%	16%	29%	12%



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# LUMA.M – EBITDA Margin





1	Q3 2023 M&A Activity
2	Q3 2023 Public Markets Activity
3	Q3 2023 Private Financing Activity





# Ad Tech & MarTech – Q3 2023 Key Financings (1/2)

Announcement Date	Company	Lead / Key Investor(s)	Round Size (\$mm)	Post-Valuation (\$mm)	Commentary
9/18/2023	👼 brainlabs	FALFURRIAS CAPITAL	ND	\$320	<ul> <li>Falfurrias Capital Partners made a minority investment in Brainlabs, a data-driven tech-enabled media agency.</li> <li>Brainlabs will open offices in markets across Europe, Asia Pacific, and Latin America.</li> </ul>
9/14/2023	F Pixis	touring capital	\$85	ND	<ul> <li>Pixis, an AI-powered full-stack marketing platform raised \$85mm in a Series C1 round led by Touring Capital.</li> <li>The Company has grown 140% YoY in 2023 and has a customer base of 200+ global brands.</li> </ul>
9/13/2023	vidzoamp	VISTA VISTA	\$150	\$1,550	<ul> <li>VideoAmp, a media measurement and optimization company, raised \$150mm Series G round led by Vista.</li> <li>The funding will further accelerate growth and drive adoption of its advanced media currency solution.</li> </ul>
9/12/2023	BRUID		\$30	ND	<ul> <li>DRUID, a conversational AI platform, raised \$30mm in a Series B round led by TQ Ventures.</li> <li>The Company plans to double down on its U.S. growth, which it says makes up most of its revenue.</li> </ul>
9/11/2023	<i>A/</i> /IP		\$19	ND	<ul> <li>Amp, an eCommerce marketing platform, raised \$18.5mm in a Series A round led by Jungle and Openspace.</li> <li>The investment will be used to expand AMP's team and accelerate product development.</li> </ul>
9/6/2023	Shop Circle	<b>3VC 645</b>	\$120	ND	<ul> <li>Shop Circle, a software provider for eCommerce brands, raised \$120mm in a Series A round led by 645 &amp; 3VC.</li> <li>The Company was founded in 2021 and services more than 100,000 eCommerce brands worldwide.</li> </ul>
9/6/2023	问 Harmonya	Sonae BrightPixel	\$20	ND	<ul> <li>Harmonya, an AI-powered product data enrichment, categorization and insights platform for retailers and brands, raised \$20mm in a Series A round.</li> <li>The funding will help develop Harmonya's proprietary AI technology, enhance its tools and scale GTM operations.</li> </ul>
8/29/2023	🋞 mediafly		\$80	ND	<ul> <li>Mediafly, a B2B revenue enablement and intelligence platform, raised \$80mm in a round led by BIP Ventures.</li> <li>Over the past 18 months Mediafly grew its customer base 164% and acquired five revenue technology vendors.</li> </ul>
8/29/2023	Apollo.io	BCV	\$100	\$1,600	<ul> <li>Apollo.io, a GTM solution for sales and marketing teams, raised \$100mm in a Series D round led by Bain.</li> <li>The Company has grown revenue 9x over the last two years and currently serves over 500,000 companies.</li> </ul>
8/17/2023	🕌 beamer.	Camber	\$20	ND	<ul> <li>Beamer, a no-code product engagement platform, raised \$20mm from Camber Partners.</li> <li>The funds will support the development of new product lines targeted at product managers and marketers.</li> </ul>
8/16/2023	Voiceflow	OPENVIEW	\$15	\$105	<ul> <li>Voiceflow, a platform for building conversational AI experiences, raised \$15mm in a round led by OpenView.</li> <li>The Company was founded in 2019 and currently has more than 130,000 global business users.</li> </ul>
8/16/2023	🚱 caden	nava	\$15	ND	<ul> <li>Caden, a data intelligence platform, raised \$15mm in a Series A round led by Nava Ventures.</li> <li>The Company will use the funds to expand its NYC team, accelerate its GTM strategy, and add new partnerships.</li> </ul>



#### Ad Tech

#### MarTech

**Digital Content** 

# Ad Tech & MarTech – Q3 2023 Key Financings (2 / 2)

Announcement Date	Company	Lead / Key Investor(s)	Round Size (\$mm)	Post-Valuation (\$mm)	Commentary
8/11/2023	TRACER		\$18	ND	<ul> <li>Tracer, a data intelligence platform, raised \$18mm in a Series A round I</li> <li>The funds will support headcount expansion, technology scaling and clip</li> </ul>
8/9/2023	≒ Simon		\$54	ND	<ul> <li>Simon Data, a CDP, raised \$54mm in a Series D round led by Macquar</li> <li>The funding will reportedly support product development to address the</li> </ul>
8/3/2023	II Haus	INSIGHT Partners	\$17	ND	<ul> <li>Haus, a 'growth command center combining causal inference with experience of the second led by Insight Partners.</li> <li>The funding will support headcount growth and product development.</li> </ul>
7/25/2023	AppHub	PSG	\$95	ND	<ul> <li>AppHub, an eCommerce enablement platform, raised \$95mm from PSG</li> <li>The funds support AppHub's growth strategy to expand its product offer</li> </ul>
7/19/2023	- hightouch	BCV	\$38	\$615	<ul> <li>Hightouch, a data activation company, raised \$38mm in a round led by</li> <li>The funds were used to create its new "Customer 360 Toolkit" product I</li> </ul>



#### Ad Tech

MarTech

**Digital Content** 

nd led by NewRoad, Progress, and BDMI. client success resource ehancement. uarie Capital.

he rapidly changing CDP landscape.

perimentation & AI, raised \$17mm in a Series A

PSG. fering, enter new regions and undertake M&A.

by Bain Capital Ventures. ct line.

# **Digital Content** – Q3 2023 Key Financings

Announcement Date	Company	Lead / Key Investor(s)	Round Size (\$mm)	Post-Valuation (\$mm)	Commentary
9/14/2023	SERIES		\$8	\$22	<ul> <li>Series AI, a suite of AI-powered game authoring tools, raised \$8mm in a</li> <li>The funds will go towards the "Rho Engine" flagship product.</li> </ul>
9/11/2023	& Nazara <sup>™</sup>	SBI MUTUAL FUND	\$49	\$660	<ul> <li>Nazara, a mobile gaming and sports media company, raised \$49mm fro</li> <li>The new funds will be used to acquire games and sports media compare</li> </ul>
9/11/2023	🔅 Pahdo Labs	andreessen. horowitz	\$15	ND	<ul> <li>Pahdo Labs, a developer of UGC-based RPG games, raised \$15mm in</li> <li>The studio is working on their first project, "Halcyon Zero", an anime RF</li> </ul>
9/6/2023	Story Protocol	andreessen. horowitz	\$54	ND	<ul> <li>Story Protocol, a narrative / IP infrastructure platform, raised \$54mm in</li> <li>The Project aims to democratize IP creation through a global and exten</li> </ul>
8/14/2023	<b>-</b> СНАІ	10XCAPITAL kubevc	ND	\$205	<ul> <li>Chai, a chat AI entertainment platform, announced a \$205mm post-mor</li> <li>The Company will use the funds on developing its AI, which in 2020 and</li> </ul>
8/10/2023	<b>TIZZ</b>	Owl Ventures	\$25	ND	<ul> <li>Fizz, a social app for university campus communities, raised \$25mm in</li> <li>Fizz is accessible at 80+ campuses nationwide and it aims to expand to</li> </ul>
8/9/2023	<b>○</b> tome	Undisclosed Investors	\$60	\$600	<ul> <li>Tome, an AI-powered storytelling tool for slide creation, raised \$60mm</li> <li>The Company is reportedly barely break even, and just raised a \$43mm</li> </ul>
 8/8/2023		Undisclosed Investors	\$17	ND	<ul> <li>Angel Studios, a free streaming TV platform, supported by ads and con</li> <li>The Company previously raised \$47mm in Jan '23 when they announce</li> </ul>
 8/2/2023	inworld	Lightspeed	\$50	\$500	<ul> <li>Inworld AI, a character engine for AI NPCs, raised \$50mm at \$500mm+</li> <li>The funds will support R&amp;D efforts, FTE expansion, and the launch of a</li> </ul>
7/18/2023	<b>0</b> 99wp	SAMSUNG SAMSUNG VENTURE INVESTMENT	\$10	ND	<ul> <li>GGWP, an AI-powered game moderation platform, raised \$10mmm in a</li> <li>The Company previously raised \$12mm in March 2022 for the developr</li> </ul>
 7/13/2023	ۥ) embrace	NEA	\$20	ND	<ul> <li>Embrace, a suite of mobile app and game dev tools, raised \$20mm in a</li> <li>The Company was founded by Eric Futoran, who previously founded So</li> </ul>
 7/11/2023	G A R D E N S	KRAFTON Lightspeed	\$31	ND	<ul> <li>Gardens, an independent game studio, raised \$31mm in a Series A rou</li> <li>The Company has 12 FTEs and will use the funds to develop a fantasy</li> </ul>



Ad Tech

MarTech

**Digital Content** 

n a Seed round.
from SBI Mutual Fund at \$660mm post-money. anies.
in a round led by Andreesen Horowitz. RPG game.
in a round led by Andreessen Horowitz. ensible IP repository.
oney valuation. Ind boasts 5mm users.
in a Series B round led by Owl Ventures. to 250 schools by year's end.
n at \$600mm post-money. nm Series B led by Lightspeed 5 months ago.
ontributions, raised \$17mm. ced \$100mm in annual revenues.
n+ post-money. an open-source version of the engine.
n a round led by Samsung and SK Telecom. pment of its AI tech.
a round led by NEA. Scopely, which was acquired by \$4.9bn.
ound led by Lightspeed and Krafton. sy action RPG.

4	Appendix
3	Q3 2023 Private Financing Activity
2	Q3 2023 Public Markets Activity
1	Q3 2023 M&A Activity



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# **Appendix A: Net Revenue Methodology & Definitions**

Reporting "Revenue / Con	tribution E	x-TAC"	
\$ in mm	2021A	2022A	LTM 6/30
Criteo			
Gross Revenue	\$2,254	\$2,017	\$1,925
(-) TAC	(\$1,334)	(\$1,089)	(\$968)
(=) Contribution ex-TAC	\$921	\$928	\$958
Magnite			
Gross Revenue	\$468	\$577	\$604
(-) Cost of Revenue	(\$202)	(\$307)	(\$438)
(=) Gross Profit (as reported)	\$267	\$270	\$166
(+) Cost of Revenue, excluding TAC	\$151	\$245	\$369
(=) Revenue ex-TAC	\$417	\$515	\$535
Nexxen			
Revenue	\$342	\$335	\$335
(-) Performance Media Cost	(\$40)	(\$26)	(\$20)
(=) Contribution ex-TAC	\$302	\$310	\$354
Perion Networks			
Gross Revenue	\$478	\$640	\$692
(-) TAC	(\$288)	(\$373)	(\$397)
(=) Revenue ex-TAC	\$190	\$268	\$295
Viant			
Gross Revenue	\$224	\$197	\$202
(-) Platform Ops	(\$130)	(\$117)	(\$116)
(=) Gross Profit (as reported)	\$95	\$80	\$86
(+) Other platform ops	\$48	\$44	\$41
(=) Contribution ex-TAC	\$142	\$125	\$127

LUMA Defined Net Revenue by	Company Filing Metric
-----------------------------	-----------------------

Reporting "Adjusted	Gross Pro	fit"	
\$ in mm	2021A	2022A	LTM 6/30
AdTheorent			
Gross Revenue	\$165	\$166	\$160
(+) Platform Ops	(\$78)	(\$83)	(\$84)
(=) Gross Profit (as reported)	\$88	\$83	\$76
(+) Other Platform Ops <sup>(1)</sup>	\$22	\$27	\$28
(=) Adj. Gross Profit	\$109	\$110	\$103
Cardlytics			
Gross Revenue	\$267	\$299	\$296
(-) Adj. Partner Share & Other 3P	(\$140)	(\$156)	(\$153)
(-) Delivery Costs	(\$23)	(\$30)	(\$29)
(=) Gross Profit	\$105	\$113	\$114
Digital Turbine			
Gross Revenue	\$748	\$710	\$624
(-) License fees and rev-share <sup>(2)</sup>	(\$371)	(\$324)	(\$291)
(-) Other direct costs of revenue <sup>(2)</sup>	(\$30)	(\$36)	(\$37)
(=) Gross Profit (as reported)	\$347	\$350	\$295
(+) S/W depr. & other direct CoR	\$3	\$5	\$7
(=) Adj. Gross Profit	\$350	\$356	\$302
Illumin			
Gross Revenue	\$98	\$92	\$96
(-) Media Costs	(\$47)	(\$46)	(\$49)
(=) Gross Profit	\$51	\$46	\$46
MediaAlpha			
Gross Revenue	\$645	\$459	\$409
(-) Platform Ops	(\$544)	(\$389)	(\$344)
(=) Gross Profit	\$102	\$70	\$65

#### Sources & Notes

Source: Company Filings Note: (1) AdTheorent other platform operations consist of amortization expense related to capitalized software, depreciation expense, allocated costs of personnel which set up and monitor campaign performance and platform hosting, license and maintenance costs. (2) Digital Turbine license fees & revenue share are reflective of amounts paid to carrier and OEM partners, as well as app publishers and developers (recorded as a cost of revenue). Other direct cost of revenue are comprised primarily of hosting expenses directly related to the generation of revenue and depreciation expense. (3) Outbrain other cost of revenue includes the amortization of capitalized software that is developed or obtained for internal use associated with revenue-generating technologies. (4) Taboola other cost of revenue includes data center and related costs, depreciation expense related to hardware supporting the platform, amortization expense related to capitalized internal-use software and acquired technology, personnel costs and allocated facilities costs.



#### **Reporting "Gross Profit Ex-TAC"**

\$ in mm	2021A	2022A	LTM 6/30
Outbrain			
Gross Revenue	\$1,016	\$992	\$945
(-) TAC	(\$744)	(\$757)	(\$726)
(-) Other cost of revenues <sup>(3)</sup>	(\$32)	(\$42)	(\$44)
(=) Gross Profit	\$240	\$193	\$175
(+) Other cost of revenues <sup>(3)</sup>	\$32	\$42	\$44
(=) Gross Profit ex-TAC	\$272	\$235	\$219
Taboola			
Gross Revenue	\$1,379	\$1,401	\$1,363
(-) TAC	(\$860)	(\$832)	(\$836)
(-) Other cost of revenues <sup>(4)</sup>	(\$78)	(\$105)	(\$105)
(=) Gross Profit (as reported)	\$441	\$464	\$423
(+) Other cost of revenues <sup>(4)</sup>	\$78	\$105	\$105
(=) Gross Profit ex-TAC	\$519	\$570	\$527

# **Appendix B: Ad Tech EBITDA Detail** (1 / 5)

	Most Recent Quarter EBITDA											
(\$ millions)	© ADTHEORENT'	ည္ကိ <b>APP</b> LOVIN	ardlytics	CRITEO	Digital Turbine	DoubleVerify			IAS <mark>.</mark>	/LiveRamp	Magnite	Media and Games
Net Income	\$8	\$80	(\$24)	(\$2)	(\$8)	\$13	(\$6)	(\$19)	\$8	(\$2)	(\$74)	\$2
(+) Interest (income) expense, net	(\$0)	\$51	\$1	\$2	\$7	(\$2)	(\$0)	(\$0)	\$3	-	\$9	\$14
(+) Provision for (benefit from) income tax	(\$8)	\$15	_	\$1	(\$2)	\$4	\$0	\$1	(\$29)	\$9	\$1	(\$2)
(+) D&A (excl. amortized intangibles)	\$2	\$120	\$7	\$27	\$21	\$10	\$1	\$2	\$14	\$4	\$89	\$8
EBITDA	\$2	\$267	(\$16)	\$28	\$19	\$24	(\$4)	(\$16)	(\$5)	\$11	\$24	\$22
(+/-) SBC (excl. assoc. payroll tax)	\$2	\$81	\$12	\$28	\$10	\$15	\$2	\$5	\$40	\$13	\$19	_
(+/-) Transaction costs	-		_	_	\$0	-	-	_	-	\$2	_	-
(+/-) Restructuring costs / Acquisition costs	-	\$1	(\$10)	\$22	-	\$1	_	_	\$1	\$0	-	_
(+/-) FX (gains) losses	_	\$0	(\$1)	_	(\$2)	-	\$2	_	(\$1)	-	(\$0)	-
(+/-) Other expense (income), net	-	(\$16)	_	_	(\$0)	-	_	_	_	(\$5)	\$0	_
(+/-) Other adjustments	(\$1)	-	\$11	(\$21)	\$0	(\$0)	\$0	\$15	\$1	-	(\$5)	\$1
Adjusted EBITDA	\$3	\$334	(\$4)	\$56	\$27	\$40	\$0	\$5	\$37	\$22	\$37	\$23
Broker Estimates (Median)	\$3	\$290	(\$8)	\$48	\$24	\$38	(\$1)	\$1	\$36	\$16	\$18	\$24

#### "Other Adjustments" Notes

- AdTheorent: includes ~(\$0.7mm) of change in FV items
- Cardlytics: includes ~\$11mm of change in FV contingent consideration items
- **Criteo:** includes (\$21.6mm) of net loss contingency on regulatory matters н.
- **Digital Turbine:** includes ~\$0.4mm of severance costs
- **Illumin:** includes ~\$0.2mm of severance expenses

- Innovid: includes ~\$15mm of goodwill impairment charge н.
- IAS: includes ~\$1mm related to the impairment of a right-of-use asset н.
- Magnite: includes (\$5.4mm) gain on extinguishment of debt
- Media & Games Invest: includes ~\$0.7mm of employee costs, ~\$0.3mm of legal and advisory costs and н. ~\$0.4mm of other expenses / income



#### Ad Tech

# Appendix B: Ad Tech EBITDA Detail (2 / 5)

		Most Recent Quarter EBITDA									
(\$ millions)	🗘 MediaAlpha	Nexxen	©utbrain	Perion	PubMatic	Roku	<b>Tab</b> ©la	🕐 theTradeDesk	🙀 Unity	VIANT.	💠 ZETA
Net Income	(\$20)	(\$4)	\$11	\$21	(\$6)	(\$108)	(\$31)	\$33	(\$193)	(\$3)	(\$52)
(+) Interest (income) expense, net	\$4	\$2	(\$0)	(\$5)	(\$2)	-	\$4	(\$18)	(\$3)	(\$2)	\$3
(+) Provision for (benefit from) income tax	\$0	(\$5)	\$4	\$4	\$1	\$2	\$2	\$27	\$5	-	\$0
(+) D&A (excl. amortized intangibles)	\$2	\$20	\$5	\$3	\$11	\$19	\$23	\$20	\$111	\$4	\$13
EBITDA	(\$14)	\$14	\$20	\$23	\$4	(\$87)	(\$2)	\$62	(\$81)	(\$2)	(\$36)
(+/-) SBC (excl. assoc. payroll tax)	\$15	\$6	\$3	\$3	\$7	\$90	\$14	\$117	\$158	\$9	\$58
(+/-) Transaction costs	\$0	_	-	_	_	-	-	_	-	_	_
(+/-) Restructuring costs / Acquisition costs	_	\$1	_	\$0	\$1	\$0	\$1	_	\$25	_	\$3
(+/-) FX (gains) losses	-	(\$2)	_	_	_	_	-	_	-	_	—
(+/-) Other expense (income), net	_	\$2	_	_	_	(\$20)		_	-	_	\$3
(+/-) Other adjustments	\$2	_	(\$20)	\$15	-	-	\$3	_	(\$3)	_	_
Adjusted EBITDA	\$4	\$21	\$4	\$41	\$12	(\$18)	\$16	\$180	\$99	\$7	\$27
Broker Estimates (Median)	\$2	\$28	\$1	\$40	\$14	(\$75)	\$1	\$161	\$57	\$3	\$24

"Other Adjustments" Notes

- **MediaAlpha:** includes \$1mm of employee costs and \$1mm related to litigation matters
- Outbrain: includes (\$22.6mm) gain on repurchase of convertible debt and \$2.3mm of severance costs н.
- Perion: includes ~\$15mm of FV items related to contingent considerations н.
- Unity : includes (\$3.3mm) of legal settlement costs н.



#### Ad Tech

# **Appendix B: MarTech EBITDA Detail** (3 / 5)

	Most Recent Quarter EBITDA											
(\$ millions)	Amplitude	Appier	BIGCOMMERCE	braze	BRIGHTCOVE	<mark>=</mark> comscore	🌔 coveo "	DoubleVerify	HubSpot	IAS <mark>.</mark>	🔆 kaltura	<b>O LIVE</b> PERSON
Net Income	(\$28)	\$1	(\$19)	(\$32)	(\$6)	(\$45)	(\$7)	\$13	(\$119)	\$8	(\$11)	\$11
(+) Interest (income) expense, net	\$3	(\$0)	(\$2)	(\$4)	-	\$0	\$1	(\$2)	(\$13)	\$3	(\$1)	(\$0)
(+) Provision for (benefit from) income tax	\$0	\$0	\$0	\$1	\$0	(\$1)	\$0	\$4	\$13	(\$29)	\$2	(\$0)
(+) D&A (excl. amortized intangibles)	\$1	\$3	\$3	\$1	\$4	\$6	\$2	\$10	\$17	\$14	\$1	\$15
EBITDA	(\$23)	\$4	(\$18)	(\$34)	(\$2)	(\$40)	(\$4)	\$24	(\$101)	(\$5)	(\$8)	\$26
(+/-) SBC (excl. assoc. payroll tax)	\$22	_	\$11	\$25	\$3	\$2	\$3	\$15	\$128	\$40	\$7	(\$18)
(+/-) Transaction costs	-	_	_	-	_	_	_	_	_	-	_	-
(+/-) Restructuring costs / Acquisition costs	\$1	_	\$4	\$1	\$2	\$4	_	\$1	\$63	\$1	\$0	\$3
(+/-) FX (gains) losses	_	_	_	-	_	_	(\$1)	_	_	(\$1)		
(+/-) Other expense (income), net	\$1	_	\$0	-	(\$0)	(\$2)	_	-	_	_	_	(\$2)
(+/-) Other adjustments	-	_	\$0	\$2	-	\$45	_	(\$0)	(\$0)	\$1	_	\$4
Adjusted EBITDA	\$0	\$4	(\$2)	(\$7)	\$4	\$9	(\$2)	\$40	\$90	\$37	(\$1)	\$13
Broker Estimates (Median)	(\$0)	\$4	(\$5)	(\$13)	\$2	\$8	(\$3)	\$38	\$73	\$36	(\$2)	\$5

#### "Other Adjustments" Notes

- **BigCommerce:** includes \$0.1mm payroll tax related to SBC
- Braze: includes \$0.6mm payroll tax related to SBC and ~\$1mm related to charitable contributions
- Comscore: includes a ~\$44mm impairment of goodwill charge
- IAS: includes ~\$1mm related to the impairment of a right-of-use asset 10

LivePerson: includes ~\$7mm related to litigation, consulting and other employee costs and ~(\$3mm) related н. to contingent earn-out adjustments.



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#### Ad Tech

# **Appendix B: MarTech EBITDA Detail** (4 / 5)

	Most Recent Quarter EBITDA											
(\$ millions)	/LiveRamp	<b>©N</b> 24	QuinStreet	T SEMRUSH	🛐 shopify	🗞 similarweb	💦 sprinklr	💋 sproutsocial	🅼 SQUARESPACE	TechTarget	🙂 twilio	WiX
Net Income	(\$2)	(\$13)	(\$56)	(\$0)	(\$1,311)	(\$9)	\$10	(\$13)	\$4	\$3	(\$166)	\$34
(+) Interest (income) expense, net	-	\$0	(\$0)	(\$3)	(\$58)	(\$1)	(\$7)	(\$2)	\$9	(\$3)	(\$9)	(\$20)
(+) Provision for (benefit from) income tax	\$9	\$0	\$51	\$1	\$10	\$0	\$2	\$0	\$26	\$1	\$1	(\$0)
(+) D&A (excl. amortized intangibles)	\$4	\$0	\$5	\$2	\$17	\$1	\$4	\$1	\$7	\$5	\$75	\$6
EBITDA	\$11	(\$12)	(\$0)	(\$1)	(\$1,342)	(\$8)	\$9	(\$14)	\$46	\$6	(\$99)	\$19
(+/-) SBC (excl. assoc. payroll tax)	\$13	\$12	\$3	\$4	\$280	\$5	\$16	\$16	\$29	\$13	\$153	\$54
(+/-) Transaction costs	-	-	-	_	_	-	-	_	_	_	-	-
(+/-) Restructuring costs / Acquisition costs	\$2	\$2	\$0	_	\$1,340	-	-	\$0	-	_	\$18	\$1
(+/-) FX (gains) losses	_	-	-	_	(\$1)	_	-	-	_	_	_	(\$2)
(+/-) Other expense (income), net	(\$5)	(\$3)	_	_	_	-	-	_	(\$2)	\$0	_	\$4
(+/-) Other adjustments	-	\$1	(\$1)	-	(\$118)	\$2	-	-	_	_	\$122	(\$3)
Adjusted EBITDA	\$22	(\$1)	\$2	\$3	\$159	(\$2)	\$25	\$3	\$73	\$19	\$194	\$73
Broker Estimates (Median)	\$16	(\$1)	\$1	(\$2)	\$81	(\$6)	\$16	(\$1)	\$58	\$17	\$143	\$51

#### "Other Adjustments" Notes

- ON24: includes ~\$1mm related to an impairment charge
- **QuinStreet:** includes ~(\$1mm) related to a tax settlement expense
- Shopify: includes ~\$148mm related to employee costs, (\$281mm) from net gain on equity investments and ~\$15mm related to a provision for transaction and loan losses
- Similarweb: includes ~0.4mm related to retention payments related to a business combination
- Twilio: includes ~\$32mm share of losses of equity method investee, ~\$28mm from loss on net assets held н. for sale, ~\$18mm for change in FV of deferred CAC, ~\$9mm for impairment of long-lived assets, ~\$8mm for impairment of right-of-use assets, ~\$2mm for SBC payroll taxes and ~\$1mm for charitable contributions partially offset by ~(\$27mm) related to tax impacts of non-GAAP adjustments
- Wix: includes ~(\$9mm) related to gain on strategic investments, (~\$2mm) for tax impacts of adjustments, н. ~\$5mm related to impairments of assets and ~\$2mm for other expenses



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#### Ad Tech

### Appendix B: MarTech EBITDA Detail (5 / 5)

	М	ost Recent Quarter EE	BITDA
(\$ millions)	Ye XT	💠 ZETA	🔀 zoominfo
Net Income	(\$3)	(\$52)	\$38
(+) Interest (income) expense, net	(\$2)	\$3	\$12
(+) Provision for (benefit from) income tax	\$1	\$0	\$17
(+) D&A (excl. amortized intangibles)	\$4	\$13	\$20
EBITDA	(\$0)	(\$36)	\$86
(+/-) SBC (excl. assoc. payroll tax)	\$12	\$58	\$46
(+/-) Transaction costs	_	_	-
(+/-) Restructuring costs / Acquisition costs	_	\$3	\$5
(+/-) FX (gains) losses	_	_	-
(+/-) Other expense (income), net	\$0	\$3	(\$7)
(+/-) Other adjustments	_	_	\$0
Adjusted EBITDA	\$12	\$27	\$130
Broker Estimates (Median)	\$12	\$24	\$131

"Other Adjustments" Notes

**ZoomInfo:** includes ~\$0.1mm related to the impact of FV adjustment to acquire unearned revenue



Ad Tech

# **Appendix C: Select Other Notes and Calendarization**

#### Select Other Notes – Ad Tech & MarTech

Company	Ticker	Exchange	Notes
Affle	AFFLE	NSE	Market Capitalization contemplates ordinary shares outstanding. Figures from latest available disclosure.
Appier	4180	TYO	Market Capitalization contemplates ordinary shares outstanding; inputs for net diluted shares outstanding could not be located in public disclosures.
Mobvista	1860	HKG	Market Capitalization represents ordinary shares outstanding and restricted stock units in public disclosures. Latest financial interim report as of 06/30
Nexxen	TRMR	LSE; NASDAQ	Market Capitalization contemplates the product of (i) FDSO and (ii) Nexxen's local U.K. share price denominated in GBP. Market Capitalization is cor
Perion	PERI	NASDAQ	2023E and 2024E Forward Revenue ex-TAC projections from Oppenheimer Equity research as of August 3, 2023.

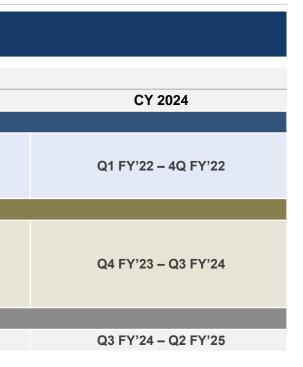
#### Fiscal Year – to – Calendar Year Reconciliation

			Applicable Fiscal Quarters							
Company	Ticker	Fiscal Year End	CY 2021	CY 2022	CY 2023					
FYE January 31 <sup>st</sup>										
Braze	BRZE	January 31 <sup>st</sup>								
Sprinklr	CXM	January 31 <sup>st</sup>	Q1 FY'22 – Q4 FY'22	Q1 FY'23 – Q4 FY'23	Q1 FY'24 – 4Q FY'24					
Yext	YEXT	January 31 <sup>st</sup>								
FYE March 31 <sup>st</sup>										
Affle	AFFLE	March 31 <sup>st</sup>								
Digital Turbine	APPS	March 31 <sup>st</sup>	Q4 FY'20 – Q3 FY'21	Q4 FY'21 – Q3 FY'22	Q4 FY'22 – Q3 FY'23					
Coveo	CVO	March 31 <sup>st</sup>	Q4 FT 20 - Q3 FT 21	Q4 FT 21 - Q3 FT 22	Q4 FT 22 - Q3 FT 23					
LiveRamp	RAMP	March 31 <sup>st</sup>								
FYE June 31 <sup>st</sup>										
QuinStreet	QNST	June 31 <sup>st</sup>	Q3 FY'21 – Q2 FY'22	Q3 FY'22 – Q2 FY'23	Q3 FY'23 – Q2 FY'24					



/30/2023.

converted to USD at the daily spot rate.



#### **LUMA's Recent Deals**











#### Strategic Advisory for the Digital Age



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