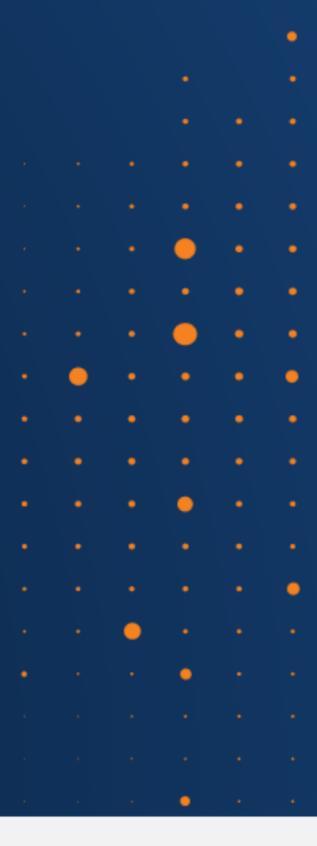
2023 Full Year Market Report



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Disclaimer

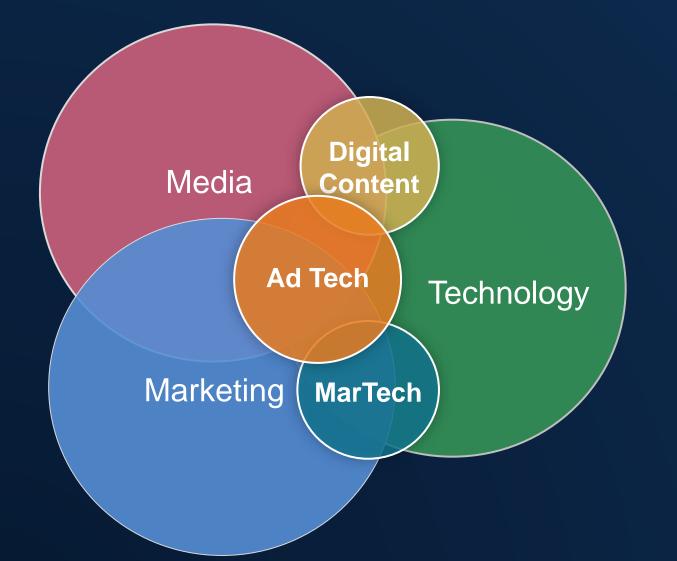
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LUMA's Focus on Digital Media & Marketing



- 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









4

Executive Summary

Overview	 2023 was another challenging year for dealmaking, with total global deal value dropping below \$3tn for the first time since 2 the Financial Times. 2023 marks the first year since the 2008 financial crisis that deal value fell over 10% for consecutive year Despite the headwinds in 2023, market participants in the Digital Media & Marketing Technology sector are cautiously optin digital ad spend growth (+14%)⁽¹⁾, recent GDP growth, stabilizing interest rates, and improving investor sentiment could expectations between buyers and sellers that has deterred transactions in the past year.
M&A Activity	 In our coverage areas, 2023 deal volume was down (10%) from 2022, as declining Ad Tech (14%) and Digital Content (22%) (+4%) deal activity. While 2023 scaled deal activity (>\$100mm) was also down from 2022, Q4 closed out the year with 19 scaled transactions - th MarTech companies were responsible for 8 of the 19 scaled transactions in the quarter, as we continue to see large Ma of high-quality supply as a tool to better position themselves for evolving market dynamics defined by a shift to sprofitability, and changing capital dynamics.
Public Markets Activity	 2023 was a bounce back year for the LUMA indices and broader equity markets following double-digit declines across bene +40% and LUMA.M +17% in 2023. The strong performance was spread throughout the cohorts with ~64% of each cohort trade - Strong performance was fueled by resilient underlying business results, specifically a shift towards profitability; this is profitability improvement in the LUMA.M cohort, as 2023 average EBITDA margins improved to 11.2% from 3.8% in 202 From an earnings perspective, the Ad Tech and MarTech sectors announced strong results in the latest quarter, as most nat consensus estimates.
Private Financing Activity	 Generative AI continues to be a bright spot in an otherwise sluggish venture market; 2023 had ~\$29bn of capital flow into the significantly up from ~\$8bn of capital and 493 deals in 2022⁽²⁾. The multibillion-dollar partnerships between tech giants and startups are changing the VC landscape and preser outcomes during an otherwise challenged market. Despite lower activity, private market investors are eager to move off the sidelines due to the abundance of dry powder existinvestors raised more than 4,000 funds since the beginning of 2020⁽³⁾ with many still actively looking to deploy capital.



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2013, declining 17% from 2022, per ars.

ptimistic heading into 2024 as strong uld further narrow the gap for value

6) deal activity offset stable MarTech

the most in six quarters.

MarTech strategics use consolidation slower organic growth, a focus on

enchmarks in 2022. LUMA.A was up ading up from the prior year.

shift is illustrated by the significant 022.

names beat revenue and profitability

this technology, including 707 deals,

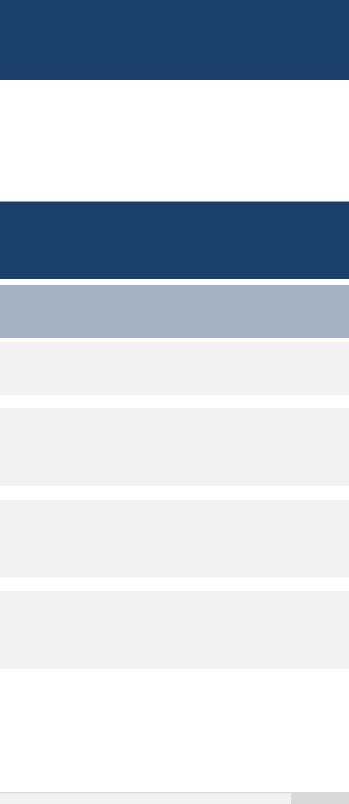
enting promise for strategic startup

xisting in the market; private market

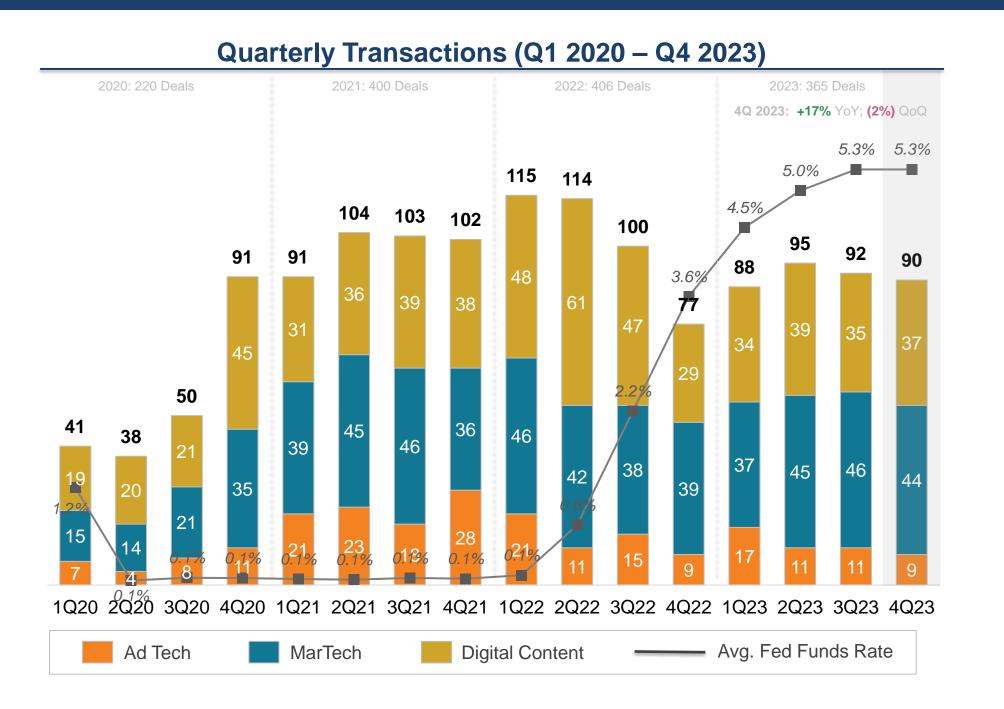
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А	General Ecosystem M&A Trends
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Digital Media & Marketing M&A Activity by Sector – Quarterly View



- optimism heading into 2024.

- two scaled SPAC transactions.



Commentary

While the dealmaking environment continues to feel the effects of the highest fed funds rates since 2001, 2023 ended with a surge of scaled deal activity in Q4 (highest in 18 months) as deals over \$100mm were up 36% from Q3 and 46% from Q4 2022. Scaled activity was driven by both strategic and financial buyers; potentially a signal of cautious

Ad Tech M&A activity was slightly below last quarter but saw three scaled deals - highlighted by Omnicom's \$835mm acquisition of Flywheel Digital.

MarTech M&A activity was just below Q3, but up +4% YoY from 2022; Q4 was highlighted by 8 scaled transactions, the most since Q1 2022.

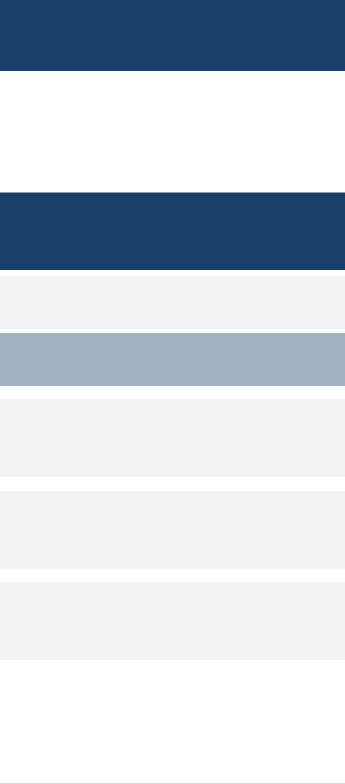
Digital Content M&A volume was up +6% sequentially and +28% from the same quarter a year ago as scaled activity remained high and included

Looking ahead to 2024, buyers and sellers will be keeping an eye on stabilizing interest rates and valuation levels, as price expectations continue to converge and strategics who have normalized costs and driven capital efficient growth look for new capabilities (catalysts such as AI), and financial buyers in the sector look to move an abundant supply of dry powder off the sidelines.

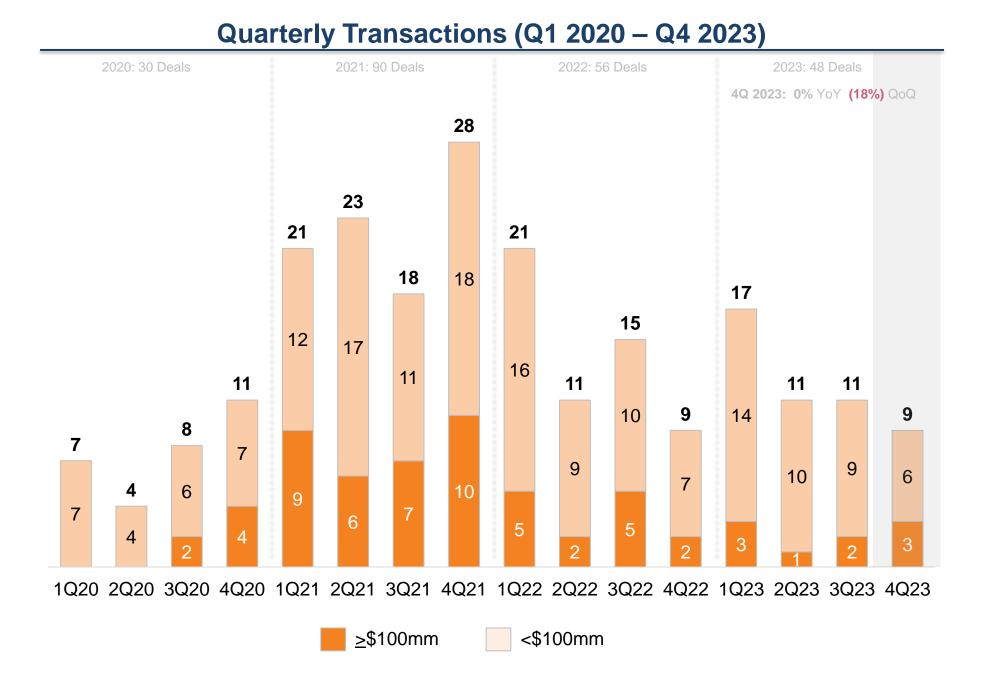
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Ad Tech M&A Activity



- acquisition of Hivestack.
- Digital).

- landscape.
- demand with supply.

Ad Tech

MarTech

Digital Content

Commentary

Ad Tech deal volumes in Q4 were down from Q3 and in line with Q4 2023, highlighted by three scaled deals - Omnicom's \$835mm acquisition of Flywheel Digital, Bell Media's \$300mm acquisition of OutFront Media's Canadian Business, and Perion's \$100mm

Strategic acquisitions in the sector were focused on increasing capabilities across multiple categories: CTV (Amagi's acquisition of Tellyo), DOOH (Bell Media's acquisition of OutFront Media's Canadian Business; Perion's acquisition of Hivestack), Programmatic (Azerion's acquisition of Hawk), and Retail Media (Omnicom's acquisition of Flywheel

Looking Ahead

We anticipate continued focus by advertisers on efficacy and optimization (with AI as a catalyst), to be well-positioned for growth opportunities and to keep up with the speed of innovation in CTV, Commerce Media and the broader 1st party data

With the anticipation of the cookie going away in 2024, the evolving data landscape necessitates privacy-compliant 1st party data networks which, in turn, will support the continued growth of commerce media and horizontal strategies that connect

Ad Tech – Q4 2023 Notable Deals

	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
	Hivestack	Perion	\$7	\$100	 Perion, a global multi-channel advertising company has acquired full-stack DOOF The transaction allows Perion to be at the forefront of the fast-growing DOOH chaexpanding its global footprint.
/2023	tellyo	amagı	< \$1	ND	 Amagi, a cloud-based SaaS technology company for broadcast and CTV, announ cloud remote production and social sharing platform. The acquisition will further strengthen Amagi's video toolset for live sports and new expansion in Eastern Europe.
/2023	grasp	MiQ THINK BEYOND.	ND	ND	 French media governance and data quality company, Grasp, will be acquired by Marketers and agencies. Grasp introduces a new route to partner with MiQ across all markets and will cont under MiQ's ownership, maintaining its current brand.
/2023	VIVVIX A KANTAR COMPANY	MEDIARa@ar	NA	ND	 Vivvix, the North American advertising intelligence unit of Kantar, will be acquired enablement platform, MediaRadar. The acquisition brings together highly complementary businesses that are AI-pow combined entity.
)/2023	Flywheel	Omnicom Group	ND	\$835	 Omnicom announced it has agreed to acquire Flywheel Digital, the digital comment The transaction allows for an end-to-end set of services, by connecting Flywheel (data with Omnicom's audience and behavior data.
3/2023	OUTFRONT/ (Canada Business Unit)	Bell Media	ND	\$300	 Bell Media, a content creation company based in Canada has acquired the Canada The acquisition will accelerate Bell Media's multi-channel marketing solutions and
	ncement ate 2/2023 //2023 //2023 //2023 D/2023 3/2023	ate Target 2/2023 Hivestack 2/2023 Image: Content of the stack 1/2023 Image: Conten	ate Target Acquirer ate Target Acquirer Acquirer Acquirer	ate rarget Acquirer (\$mm) 2/2023 Hivestack Perion \$7 /2023 Image: tellyo amage: \$7 /2023 Image: tellyo amage: <\$1 /2023 Image: tellyo amage: <\$1 /2023 Image: tellyo amage: <\$1 /2023 Image: tellyo amage: tellyo ND /2023 Image: tellyo MEDIAR NA Image: tellyo Image: tellyo ND Image: tellyo Image: tellyo ND	ate Target Acquirer (\$mm) Value (\$mm) 2/2023 ← Hivestack Perion \$7 \$100 /2023 ← tellyo amagi <\$1 ND /2023 € tellyo amagi <\$1 ND /2023 € rasp MiQ IHNNKD ND ND //2023 € rasp MEDIARe@er NA ND //2023 € rasp € rasp € rasp Saude Saude //2023 € rasp € rasp Saude Saude Saude Saude



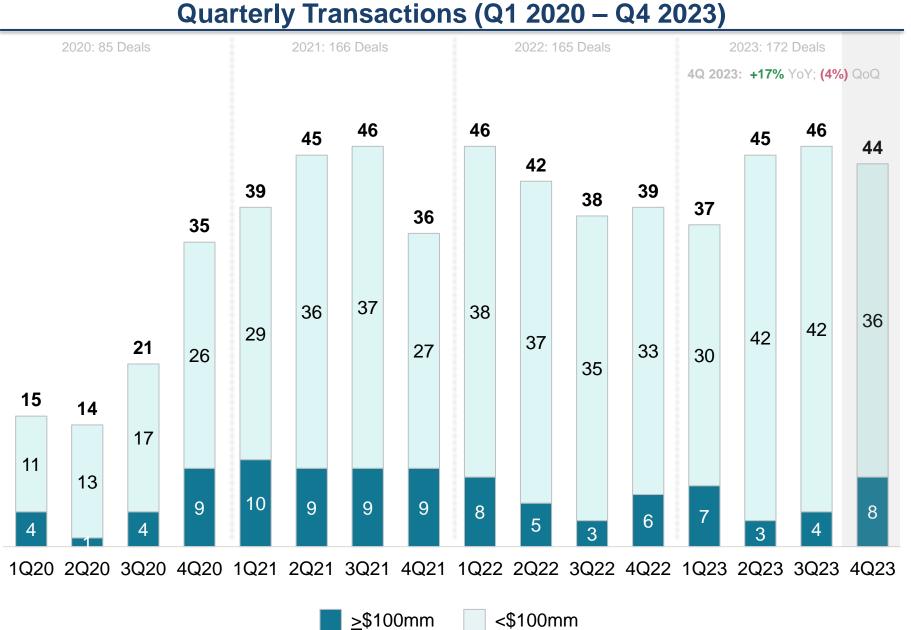
Ad Tech

MarTech

Digital Content

OH platform, Hivestack. channel, further diversifying its offering and bunced it will acquire Tellyo, a real-time live news broadcast, and support business by MiQ, a programmatic media partner for ontinue to operate as an independent business ed by Advertising intelligence and sales owered platforms to accelerate growth for the merce business of Ascential for ~\$835mm el Commerce Cloud's product and transaction hadian business of OutFront Media. and bolster its out of home category.

MarTech M&A Activity



- highest since Q1 2022.
- Plum Voice.

н. platforms.

Digital Content

Commentary

MarTech M&A volume in Q4 remained robust, up +17% YoY and slightly down (4%) from a strong Q3. Q4 saw a resurgence of scaled deal activity – the

Large MarTech strategics made several capabilitydriven transactions in Q4 – highlighted by HubSpot's \$150mm acquisition of Clearbit, Snowflake's acquisition of Samooha, Salesforce's acquisition of Spiff, and Adobe's acquisition of Rephrase.ai.

Private Equity and sponsor-backed strategic acquisitions continued in Q4, as evidenced by Vista's \$4bn acquisition of EngageSmart, Bazaarvoice (TH Lee Partners/Marlin Equity Partners) acquisitions of Affable.Al and Granify, Cendyn's (Accel-KKR) acquisition of PushTech, and SharpenCX (Lee Equity Partners) acquisition of

Looking Ahead

We expect increased investment in capabilities that enable greater interoperability of data, more personalized & relevant omni-channel experiences, and messaging across 1st & 3rd party

MarTech – Q4 2023 Notable Deals

	Announcement Date	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
-	12/18/2023	SPIFF	salesforce	\$118	Scaled	 Salesforce announced it will acquire Spiff, a platform that automates commission Upon close, Spiff will join Sales Cloud, working to enhance Sales Performance M with a trusted platform to increase visibility and supercharge selling.
	12/18/2023	🜀 samooha	snowflake	\$13	ND	 Samooha, a startup that develops software to make data clean room technology a by Snowflake. The acquisition will help Snowflake simplify building interoperable data clean roor
	12/5/2023	😝 granify	bazaarvoice	\$13	ND	 Bazaarvoice, a provider of full-funnel user-generated content solutions announce contextualization solution. The acquisition further enhances Bazaarvoice's full-funnel e-commerce suite to e and increase conversion.
	11/20/2023	SHIFT 44	ΙΟΝΙΚ	ND	\$40	 Performance marketing technology company, Ionik, has acquired substantially all acquisition, lead generation, and performance marketing platform for ~\$40mm in ag The acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition helps Ionik amass first-party data and extends the capabilities of interval acquisition acquisition helps Ionik amas first-party data and extends the capabilities of interval acquisition acquisition
	11/1/2023	Clearbit	HubSpot	\$17	\$150	 HubSpot, a Boston-based CRM platform announced it will acquire B2B data prov third-party company data spanning millions of businesses. The deal also brings Clearbit's over 400,0000 users and 1,500+ business custom
	10/23/2023	EngageSmart	V I S T A	\$338	\$4,000	 Vista Equity Partners, a global investment firm focused on enterprise software an will acquire EngageSmart, a provider of vertically tailored customer engagement so all-cash transaction valued ~\$4bn. EngageSmart will become privately held upon close, General Atlantic will retain not solve the solution of th
	10/17/2023	🌀 Onesend	ActiveCampaign ;	> ND	ND	 ActiveCampaign, a marketing automation platform has acquired Onesend, a suite brands, and reseller agencies. The acquisition will accelerate ActiveCampign's global growth and partner network
	10/10/2023	Q affable.ai	b: bazaarvoice	\$4	ND	 Bazaarvoice, a provider of full-funnel user-generated content solutions, will acquir Technologies. The acquisition allows Bazaarvoice to add creator discovery and management ter services so clients can build a creator marketing strategy and enhance social comm
	10/10/2023	≁PUSH Tech [™]		ND	ND	 Cendyn, an integrated technology platform in the hospitality industry is acquiring Platform (CDP) and CRM platform that offers an integrated solution for the hospital The acquisition helps Cendyn take the next step towards a next-gen CRM platform through advanced CRM strategies.
	10/3/2023	LIVEVOX	NICE	\$100	\$378	 NICE, an AI-powered self-service and agent-assisted CX software for the contact outreach provider. The acquisition will bolster how organizations manage outreach with conversation



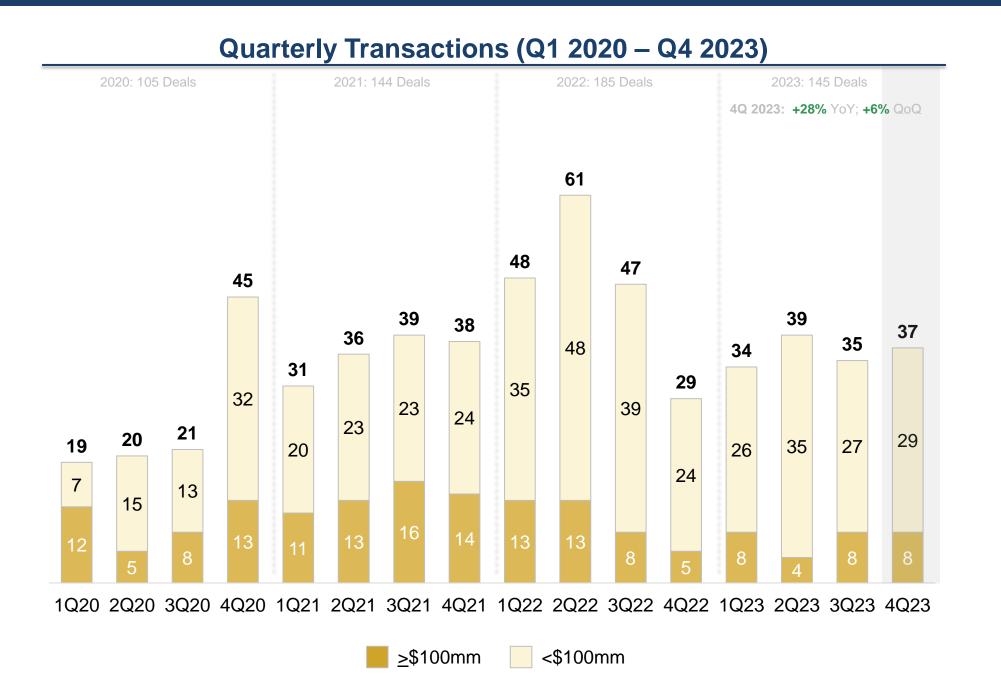
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MarTech

Digital Content

on management for sales teams. Management Solutions by providing customers gy accessible to marketers, has been acquired ooms in the data cloud. nced the acquisition of Granify, an e-commerce enable brands and retailers to drive discovery all the assets of Shift44, a first-party data aggregate consideration. of its performance marketing platform. rovider Clearbit to enhance its platform with omers to HubSpot. and data and technology-enabled businesses, software and integrated payment solutions in an minority ownership position. uite of tools empowering franchise, multi-location vork. quire the affable.ai platform from Affable technology to its existing creator-managed mmerce capabilities. ng PUSHTech, a cloud-based Customer Data itality industry. form and optimization of revenue streams act center will acquire LiveVox, an AI-driven CX tional AI at scale.

Digital Content M&A Activity



- quarter.

- consumers and data.



Ad Tech

MarTech

Digital Content

Commentary

Digital Content M&A remained strong in Q4 from both a volume (+6% from Q3 and +28% YoY) and deal value perspective, with strategic buyers accounting for six of the eight scaled deals in the

Q4 2023 saw two scaled SPAC transactions -Screaming Eagle Acquisition Corps. purchase of Lionsgate Studios Business (~\$4.6bn EV) and Vertex Technology Acquisition Corp's (Temasekbacked SPAC) ~\$676mm⁽¹⁾ acquisition of 17Live.

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

Digital Content – Q4 2023 Notable Deals

_	Announcement Date	Target	Acquirer	Capital Raised (\$mm)	Enterprise Value (\$mm)	Commentary
	12/28/2023	cheddar news	Archetype	\$55	ND	 Cheddar News, a news streaming platform was acquired by Archetype The acquisition will allow Cheddar to take advantage of Archetype's vas
	12/22/2023	LIONSGATE Studio Business		\$175 ⁽¹⁾	\$4,600 ⁽¹⁾	 The Studio Business of Lionsgate, which compromises its TV studio and with Screaming Eagle Acquisition Corp, through a SPAC transaction. The transaction establishes one of the largest publicly traded pure-play
	12/11/2023	otokopedia	J TikTok	\$2,450	\$1,500	 TikTok is investing \$1.5bn in Tokopedia, GoTo's Indonesia-based e-cor The investment represents a 75% controlling stake in the Company and
	11/20/2023	Dreams	AONIC	\$54	\$110	 nDreams, the world's biggest VR game developer and publisher has be gaming companies based in Sweden. The deal allows Aonic to tap into nDreams expertise in XR technologies
	11/13/2023		Foresight Ventures	\$4	\$70	 The Block, a news and data provider focused on crypto has been acqui The purchase was completed at a \$70mm valuation and allows the Cor Asia and the Middle East.
	11/7/2023	CAN"	SEGASammy	\$124	\$108	 GAN, a B2B technology provider of internet gaming solutions and B2C acquired by Sega Sammy Creation; a wholly-owned subsidiary of Sega S premium of ~120% over the closing price of GAN (Nasdaq:GAN). The deal will help SegaSammy expand its gaming business and wider gaming busines
	11/6/2023	F PLAYMAKER	BC BETTER COLLECTIVE	\$10	\$188 ⁽²⁾	 Playmaker, a digital sports media company that delivers authentic conte media brands, will be acquired by Better Collective, a digital sports media The deal allows Better Collective to grow its audience across the Ameri a market leading position in South America, having acquired the most visit
	10/25/2023	SUPERGREAT	💛 whatnot	\$54	ND	 Supergreat, a livestream beauty shopping app will be acquired by What connects buyers across 200+ categories. Supergreat was valued ~\$100mm following its Series B raise in Decem
	10/10/2023	LAW (&) CRIME TRIAL NETWORK	JELLYSMACK	ND	ND	 Jellysmack, a startup that helps creators grow their online video busines and legal drama media company founded by legal analyst and entreprene The deal gives Jellysmack access to a huge amount of professional true distribution capabilities that it can use to bolster the work of the 150+ true
	10/2/2023	I7LIVE	VTAC	ND	\$676 ⁽³⁾	 17Live, a live streaming platform will be acquired by Vertex Technology investor Temasek. The deal will allow 17Live to grow globally and in Southeast Asia.



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Ad Tech

MarTech

Digital Content

be through its financial sponsor Regent LP. vast media reach to broaden its audience.

and motion picture group segments, will merge

ay content companies.

commerce business. and will be paid over time.

been acquired by Aonic, a group of global

ies and broaden its markets.

quired by Singapore-based Foresight Ventures. company to build new products and expand into

C operator of internet sports betting, will be Sammy Holdings; the transaction reflects a

er gaming portfolio.

ntent experiences through its portfolio of sports dia group.

ericas among generalist sports fans and secure visited sports media brands in the region.

hatnot, a livestream shopping platform that

ember of 2021.

nesses, is acquiring Law&Crime, the true crime eneur Dan Abrams.

rue crime content, as well as production and ue crime creators it already works with.

gy Acquisition Corp, a SPAC backed by state

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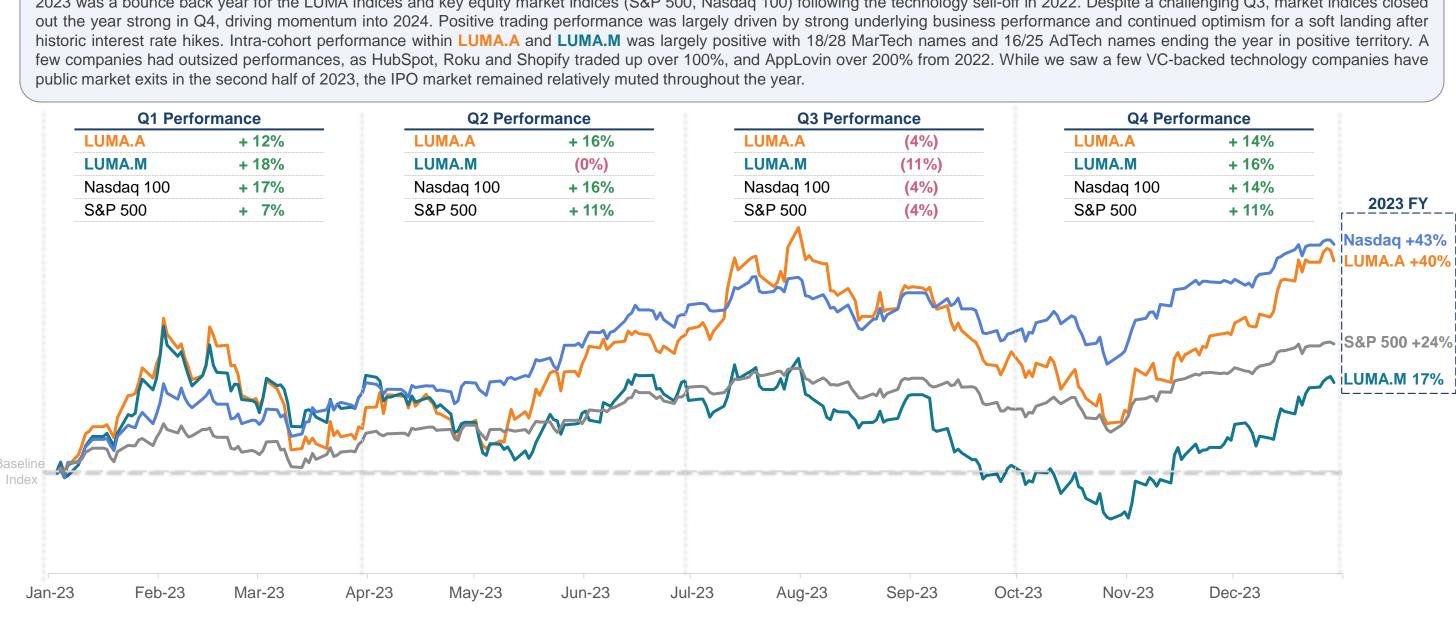


15

Public Markets Bounced Back in 2023

LUMA Indices 2023 Trading Performance vs. Relevant Benchmarks

2023 was a bounce back year for the LUMA Indices and key equity market indices (S&P 500, Nasdaq 100) following the technology sell-off in 2022. Despite a challenging Q3, market indices closed public market exits in the second half of 2023, the IPO market remained relatively muted throughout the year.





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Growth and Profitability Dynamics Shifted Throughout 2023





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2023E

3.8%

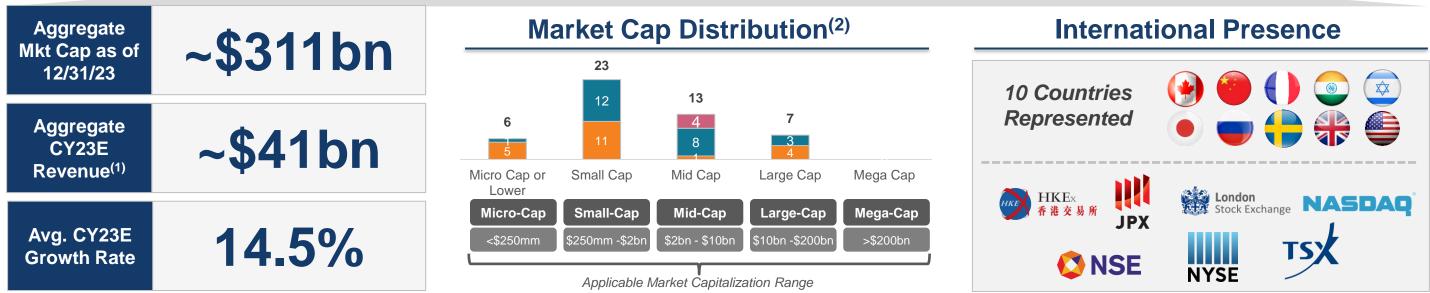
2022A

17

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

Ad Tech	Overlap		Mar	Тес
O ADTHEORENT affle APPLOVIN a cardlytics CRITEO	Dv DoubleVerify	Amplitude	Appier	Ë
Digital O illumin INNOVO Magnite		BRIGHTCOVE [®]	属 comscore klaviyo	C
Media Alpha Media and Games Mobvista NEXX90		QuinStreet		Ś
Outbrain Perion PubMatic Roku	/LiveRamp	sprinklr	sprout social	ŰIJ
TabOla Image: Image	SETA 🤣	🙂 twilio	WiX	(
No Longer Publicly Listed ironSource telaria		Medallia mo	mentive qua	ltrics.×

49 Actively Traded





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

Α	d Tech		Overlap		Mar	Tech		
O ADTHEORENT affle Å	_		DoubleVerify	Amplitude BRIGHTCOVE	Compier		braze HubSpist	
Digital TurbineIllumMedia AlphaMedia and Gat Invest Group		Magnite nexxon	IAS-	∺: kaltura QuinStreet	klaviyo [⊾] र⊙semrush	O LIVEPERSON	CN24 similarweb	
Sutbrain Perior	Pub Matic	Roku	/LiveRamp	sprinklr	sprout social	الم SQUARESPACE	TechTarget	
Tab 21a 🕐 the Trad	eDesk 🛛 🙀 Unity	· VIANT.	SETA 🔷	🙂 twilio	WiX	(Ye XT)	Z zoominfo	
No Longer Publicly Listed	ource 📎 telaria			Medallia mo	omentive qua	altrics. ^{xm} Quotien	at zendesk	
Metric	Ad Tech e	ex-Overlap		Overlap MarTech ex-Overlap				
Aggregate Mkt Cap (\$bn)	\$	96		\$14		\$201		
	Ad Tech e 2022A	x-Overlap ⁽¹⁾ 2023E		Overlap		MarTech ex-		
	2022A	20	23E	2022A	2023E			
Avg. Revenue <i>(\$mm)</i>	\$675	\$770	\$510	\$	599	\$840	\$965	
Avg. EBITDA Margin (%)	21.4%	24.0%	21.8%	24	.6%	0.8%	9.0%	

Metric	Ad Tech	ex-Overlap	Ove	erlap	MarTech ex-Overlap			
Aggregate Mkt Cap (\$bn)	\$	96	\$	14	\$201			
	Ad Tech e	x-Overlap ⁽¹⁾	Ove	rlap	MarTech ex-Overlap			
	2022A	2023E	23E 2022A		2022A	2023E		
Avg. Revenue (\$mm)	\$675	\$770	\$510	\$599	\$840	\$965		
Avg. EBITDA Margin (%)	21.4%	24.0%	21.8% 24.6%		0.8%	9.0%		
Avg. EV / Revenue (x)	4.6x	4.1x	7.0x	5.9x	6.5x	5.4x		
Avg. EV / EBITDA (x)	12.8x	16.8x	33.0x	23.2x	29.8x	29.1x		

2023 was the year of efficiency for the LUMA indices cohorts

LUMA

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Ad Tech Earnings Reaction

Cohort continues to exceed net revenue and EBITDA targets; largely positive 2023 YTD performance

					Most Rece	nt Quarter							Change in F	Y Guidance ⁽²	:)
Overvie	w	Metric	N	et Revenue	•	Profita	bility / EBI	TDA ⁽¹⁾	Tradi	ing Perform	ance	Net R	evenue	EB	ITDA
Company	Date	Defined	Actual	Cons.	Beat/Miss	Actual	Cons.	Beat/Miss	T+1 Comp	T+1 S&P	YTD Comp	Change	%	Change	%
© ADTHEORENT	11 / 07*	Adj. GP	\$26	\$26	1%	\$5	\$4	18%	(4%)	0%	(13%)		%	_	%
	11 / 08*	Revenue	\$864	\$793	9%	\$419	\$354	19%	(1%)	(1%)	278%	n/a	n/a	n/a	n/a
cardlytics	11 / 08*	Gross Profit	\$36	\$33	8%	\$4	(\$0)	NM	(54%)	(1%)	59%	n/a	n/a	n/a	n/a
CRITEO	11/02	Contribution ex-TAC	\$245	\$240	2%	\$68	\$60	13%	(12%)	2%	(3%)	-	n/a	-	n/a
Digital Turbine	11 / 08*	Adj. GP	\$67	\$69	(3%)	\$28	\$26	6%	(5%)	(1%)	(55%)	n/a	n/a	n/a	n/a
VC	11 / 09*	Revenue	\$144	\$139	4%	\$46	\$40	14%	6%	2%	67%		+ 2%		+ 3%
INNOVD	11 / 08	Revenue	\$36	\$36	1%	\$7	\$4	63%	23%	0%	(12%)		+ 2%		Margin Increase
	11 / 02*	Revenue	\$120	\$113	6%	\$41	\$36	13%	16%	1%	64%		+ 2%		+ 5%
/LiveRamp	11 / 08*	Revenue	\$160	\$152	5%	\$32	\$20	60%	20%	(1%)	62%		+ 2%		+ 8%
Magnite	11 / 08*	Contribution ex-TAC	\$133	\$130	2%	\$40	\$37	9%	(0%)	(1%)	(12%)		n/a	-	Withdrew Outlook
🗘 MediaAlpha	11 / 01*	Gross Profit	\$12	\$11	7%	\$4	\$3	38%	(5%)	2%	12%	n/a	n/a	n/a	n/a
nexxən	11 / 22	Contribution ex-TAC	\$77	\$77	%	\$21	\$20	4%	(1%)	0%	(22%)	-	(4%)	-	(6%)
outbrain	11 / 07	GP ex-TAC	\$56	\$58	(4%)	\$10	\$9	21%	(14%)	0%	21%	n/a	n/a	n/a	n/a
Perion	11 / 01	Revenue ⁽³⁾	\$185	\$184	1%	\$43	\$42	2%	6%	1%	22%	_	%	_	%
PubMatic	11 / 08*	Revenue	\$64	\$59	7%	\$18	\$14	30%	24%	(1%)	27%	n/a	n/a	n/a	n/a
Roku	11 / 01*	Revenue	\$912	\$859	6%	\$43	(\$29)	NM	31%	2%	125%	n/a	n/a	_	%
Tab2la	11 / 08	GP ex-TAC	\$128	\$119	8%	\$23	\$4	NM	16%	0%	41%	_	%		+ 3%
🕛 theTradeDesk	11 / 09*	Revenue	\$493	\$486	2%	\$200	\$186	7%	(17%)	2%	61%	n/a	n/a	n/a	n/a
🙀 Unity	11 / 09*	Revenue	\$544	\$549	(1%)	\$131	\$96	37%	7%	2%	43%	➡	Withdrew Outlook	➡	Withdrew Outlook
νιλητ.	11 / 06*	Contribution ex-TAC	\$39	\$36	9%	\$10	\$7	38%	12%	0%	71%	n/a	n/a	n/a	n/a
🔷 ZETA	11 / 01*	Revenue	\$189	\$179	6%	\$34	\$32	6%	5%	2%	8%		+ 1%		+ 2%



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Source: FactSet (Market data as of 12/31/2023) 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. Beat/Miss greater than 300% considered NM (1) Represents EBITDA as defined by brokers. (2) Represents the mid-point of guidance range. (3) Perion represents gross revenue; net revenue defined as revenue ex-TAC elsewhere in report.

MarTech Earnings Reaction

Improving profitability and growth across cohort of MarTech PubCo's signals potential end to 2022-2023's "SaaS Recession"

				Most Rece	ent Quarter							C	hange in FY Guidance ⁽²⁾		
Overvi	iew		Revenue		Profitability / EBITDA ⁽¹⁾			Trading Performance			Reve	enue	Profita	bility	
Company	Date	Actual	Cons.	Beat/Miss	Actual	Cons.	Beat/Miss	T+1 Comp	T+1 S&P	YTD Comp	Change	%	Defined	Change	%
Amplitude	11/07	\$71	\$70	1%	\$4	\$2	97%	(6%)	0%	5%		1%	Non-GAAP EBIT		52%
Appier	11/13	\$47	\$45	4%	\$6	\$4	28%	(0%)	(0%)	27%	-	(0%)	Adjusted EBITDA		8%
BIGCOMMERCE	11/08	\$78	\$78	0%	(\$0)	(\$1)	86%	(11%)	0%	11%		%	Non-GAAP EBIT		51%
braze	12/06	\$124	\$117	6%	(\$7)	(\$14)	51%	(3%)	1%	95%		3%	Non-GAAP EBIT		20%
BRIGHTCOVE	11/01	\$51	\$50	1%	\$6	\$4	34%	(8%)	2%	(50%)	-	(0%)	Adjusted EBITDA		(5%)
📃 comscore	11/06	\$91	\$95	(4%)	\$10	\$13	(20%)	(2%)	0%	(28%)	-	n/a	Adjusted EBITDA		%
🌔 coveo™	11/06	\$31	\$31	0%	_	(\$1)	100%	(5%)	0%	9%	-	(2%)	Non-GAAP EBIT		25%
VC	11/09	\$144	\$139	4%	\$46	\$40	14%	6%	2%	67%		2%	Adjusted EBITDA		3%
HubSpot	11/08	\$558	\$533	5%	\$111	\$88	26%	(6%)	(1%)	101%		1%	Non-GAAP EBIT		8%
	11/02	\$120	\$113	6%	\$41	\$36	13%	16%	1%	64%		2%	Adjusted EBITDA		5%
🔆 kaltura	11/08	\$43	\$43	1%	\$0	(\$1)	139%	3%	0%	13%		0%	Adjusted EBITDA		18%
klaviyo	11/07	\$176	\$167	5%	\$21	\$14	54%	(8%) ⁽³⁾	0%	(7%) ⁽³⁾	n/a	n/a	Non-GAAP EBIT	n/a	n/a
O LIVE PERSON	11/07	\$101	\$99	2%	\$11	\$10	6%	2%	0%	(63%)		%	Adjusted EBITDA	_	%
/LiveRamp	11/08	\$160	\$152	5%	\$32	\$20	60%	20%	(1%)	62%	1	2%	Non-GAAP EBIT		8%
©N 24	11/07	\$39	\$38	3%	\$0	(\$2)	103%	4%	0%	(9%)		2%	Non-GAAP EBIT		18%
QuinStreet	11/01	\$124	\$123	1%	\$1	\$0	166%	(4%)	2%	(11%)	n/a	n/a	Adjusted EBITDA	n/a	n/a
SEMRUSH	11/02	\$79	\$79	0%	\$9	\$4	126%	1%	2%	68%	-	(0%)	Non-GAAP Net Income		233%
👌 shopify	11/02	\$1,714	\$1,674	2%	\$284	\$176	61%	22%	2%	124%		n/a	Free Cash Flow		n/a
similarweb	11/08	\$55	\$54	1%	\$2	(\$2)	219%	2%	0%	(17%)		0%	Non-GAAP EBIT		86%
💸 sprinklr	12/06	\$186	\$180	3%	\$31	\$20	57%	(33%)	1%	47%		1%	Non-GAAP EBIT		23%
💋 sproutsocial	11/02	\$86	\$84	2%	\$1	(\$2)	141%	10%	1%	9%		1%	Non-GAAP EBIT		152%
SQUARESPACE	11/07	\$257	\$252	2%	\$66	\$63	5%	(1%)	0%	49%		1%	Non-GAAP Unlevered FCF		6%
TechTarget	11/08	\$57	\$56	2%	\$17	\$17	5%	10%	(1%)	(21%)		%	Adjusted EBITDA		%
🙂 twilio	11/08	\$1,034	\$987	5%	\$209	\$156	34%	0%	(1%)	55%	n/a	n/a	Non-GAAP EBIT		28%
WiX	11/09	\$394	\$390	1%	\$62	\$43	43%	(4%)	(1%)	60%		1%	Free Cash Flow		16%
(Ye XT)	12/05	\$100	\$102	(2%)	\$14	\$12	11%	(21%)	(0%)	(10%)	-	(1%)	Adjusted EBITDA		2%
SETA	11/01	\$189	\$179	6%	\$34	\$32	6%	5%	2%	8%		1%	Adjusted EBITDA		2%
Z zoominfo	10/30	\$314	\$311	1%	\$131	\$130	1%	(16%)	1%	(39%)		0%	Non-GAAP EBIT	-	(0%)



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Source: FactSet (Market data as of 12/31/2023) 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. Beat/ Miss higher than 100% is considered not meaningful "NM" (1) Represents EBITDA as defined by brokers. (2) Represents the mid-point of guidance range. (3) Represents share price performance since IPO and includes IPO price (\$30.00) as baseline.

Ad Tech – 2023 Market Performance

2023 Share Price Performance Ranking

		Share	Price (\$)		_	EV / LTM Ne	et Revenue ⁽¹⁾
Rank	Company	End of 2022 End of 2023		% Increase / (Decrease)	 Market Cap (\$mm)	End of 2022	End of 2023
1	AppLovin	\$10.53	\$39.85	+278.4%	\$14,621	2.2x	5.7x
2	Roku	\$40.70	\$91.66	+125.2%	\$14,108	1.5x	3.6x
3	Viant	\$4.02	\$6.89	+71.4%	\$467	2.1x	3.5x
4	Double Verify	\$21.96	\$36.78	+67.5%	\$6,641	8.6x	12.0x
5	Integral Ad Science	\$8.79	\$14.39	+63.7%	\$2,465	4.1x	5.6x
6	LiveRamp	\$23.44	\$37.88	+61.6%	\$2,707	2.1x	3.5x
7	theTradeDesk	\$44.83	\$71.96	+60.5%	\$36,663	15.7x	19.2x
8	Cardlytics	\$5.78	\$9.21	+59.3%	\$418	2.7x	4.2x
9	Unity Software	\$28.59	\$40.89	+43.0%	\$17,443	7.8x	9.2x
10	Taboola	\$3.08	\$4.33	+40.6%	\$1,434	1.5x	2.6x
11	PubMatic	\$12.81	\$16.31	+27.3%	\$930	2.3x	3.0x
n/a	S&P 500	\$3,839.50	\$4,769.83	+24.2%	NA	NA	NA
12	Perion Network	\$25.30	\$30.87	+22.0%	\$1,544	3.4x	3.3x
13	Outbrain	\$3.62	\$4.38	+21.0%	\$236	0.7x	0.8x
14	Affle	\$13.07	\$15.69	+20.1%	\$2,091	NA	27.3x
15	MediaAlpha	\$9.95	\$11.15	+12.1%	\$783	10.2x	13.3x
16	Zeta Global	\$8.17	\$8.82	+8.0%	\$2,377	3.2x	3.5x
17	Criteo	\$26.06	\$25.32	(2.8%)	\$1,641	1.8x	1.5x
18	Magnite	\$10.59	\$9.34	(11.8%)	\$1,403	4.0x	3.1x
19	Innovid	\$1.71	\$1.50	(12.3%)	\$234	1.8x	1.5x
20	AdTheorent	\$1.66	\$1.45	(12.7%)	\$144	0.9x	0.7x
21	Nexxen	\$3.19	\$2.60	(18.6%)	\$391	0.6x	0.9x
22	Illumin	\$1.54	\$1.21	(21.8%)	\$75	0.7x	0.8x
23	Mobvista	\$0.52	\$0.37	(28.4%)	\$574	NA	NA
24	Media and Games Invest	\$1.84	\$1.13	(38.7%)	\$180	1.4x	1.5x
25	Digital Turbine	\$15.24	\$6.86	(55.0%)	\$720	5.4x	3.8x
Average						3.7x	4.6x



MarTech – 2023 Market Performance

2023 Share Price Performance Ranking

		Share I	Price (\$)		_	EV / LTM Net Revenue			
	Company	End of 2022	End of 2023	% Increase / (Decrease)	Market Cap (\$mm)	End of 2022	End of 2023		
1	Shopify	\$34.71	\$77.90	+124.4%	\$100,755	6.5x	14.5x		
2	HubSpot	\$289.13	\$580.54	+100.8%	\$30,588	8.7x	14.3x		
3	Braze	\$27.28	\$53.13	+94.8%	\$5,921	7.2x	12.5x		
4	SEMrush	\$8.14	\$13.66	+67.8%	\$2,066	4.0x	6.3x		
5	DoubleVerify	\$21.96	\$36.78	+67.5%	\$6,641	8.6x	12.0x		
6	Integral Ad Science	\$8.79	\$14.39	+63.7%	\$2,465	4.1x	5.6x		
7	LiveRamp	\$23.44	\$37.88	+61.6%	\$2,707	2.1x	3.5x		
8	Wix	\$76.83	\$123.02	+60.1%	\$7,191	3.3x	4.5x		
9	Twillio	\$48.96	\$75.87	+55.0%	\$15,413	1.7x	2.9x		
10	Squarespace	\$22.17	\$33.01	+48.9%	\$4,874	4.2x	5.4x		
11	Sprinklr	\$8.17	\$12.04	+47.4%	\$3,563	3.0x	4.1x		
12	Appier	\$10.29	\$13.12	+27.5%	\$1,335	6.7x	7.2x		
n/a	S&P 500	\$3,839.50	\$4,769.83	+24.2%	NA	NA	NA		
13	Kaltura	\$1.72	\$1.95	+13.4%	\$300	1.3x	1.5x		
14	BigCommerce	\$8.74	\$9.73	+11.3%	\$804	2.7x	3.0x		
15	Sprout Social	\$56.46	\$61.44	+8.8%	\$3,677	13.1x	11.7x		
16	Coveo	\$6.70	\$7.28	+8.6%	\$809	5.1x	5.4x		
17	Zeta Global	\$8.17	\$8.82	+8.0%	\$2,377	3.2x	3.5x		
18	Amplitude	\$12.08	\$12.72	+5.3%	\$1,788	5.1x	5.4x		
19	Klaviyo	\$30.00 ⁽¹⁾	\$27.78	(7.4%)	\$8,578	NA	12.2x		
20	ON24	\$8.63	\$7.88	(8.7%)	\$389	0.7x	1.0x		
21	Yext	\$6.53	\$5.89	(9.8%)	\$799	2.0x	1.5x		
22	QuinStreet	\$14.35	\$12.82	(10.7%)	\$739	1.3x	1.2x		
23	Similarweb	\$6.43	\$5.33	(17.1%)	\$475	2.6x	1.9x		
24	TechTarget	\$44.06	\$34.86	(20.9%)	\$1,046	4.8x	4.7x		
25	comScore	\$23.20	\$16.70	(28.0%)	\$1,693	5.7x	4.9x		
26	ZoomInfo	\$30.11	\$18.49	(38.6%)	\$7,451	13.1x	6.6x		
27	BrightCove	\$5.23	\$2.59	(50.5%)	\$126	1.1x	0.5x		
28	LivePerson	\$10.14	\$3.79	(62.6%)	\$324	3.6x	1.6x		
Average						4.6x	5.7x		



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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 \$4.4bn, with theTradeDesk (\$35.1bn) at the high end of the range and Illumin (\$38mm) at the lower end of the EV range.
- Net Revenue:
 - LUMA.A companies have an average 2023E Net Revenue of \$742mm and trade at an average EV / 2023E Net Revenue of 4.4x. From a scale perspective, Roku is expected to have the highest Net Revenue (\$3.5bn) followed by AppLovin (\$3.3bn).
 - theTradeDesk is trading at the highest EV / 2023E Net Revenue at 18.3x, while AdTheorent is trading at the lowest EV / 2023E Net Revenue multiple at 0.6x. Growth forecast for the year of 8.0% is down from 13.7% in 2022.
- **Profitability:**
 - LUMA.A companies have an average 2023E EBITDA margin of 24.1%. EBITDA margins have largely held throughout the year and are slightly up from 2022 EBITDA margins of 21.5%. Perion leads the cohort with 54% 2023E EBITDA margins, followed by AppLovin at 45%. From a pure dollar perspective, AppLovin leads the cohort with expected 2023E EBITDA of \$1.5bn.

Metrics at a Glance







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\$4.4bn Avg. Enterprise Value

4.4xAvg. EV / 2023E Net Revenue⁽¹⁾

+24.1% Avg. 2023E EBITDA Margin⁽¹⁾

Up from +21.5% *in* 2022

LUMA.A – Summary Valuation Statistics

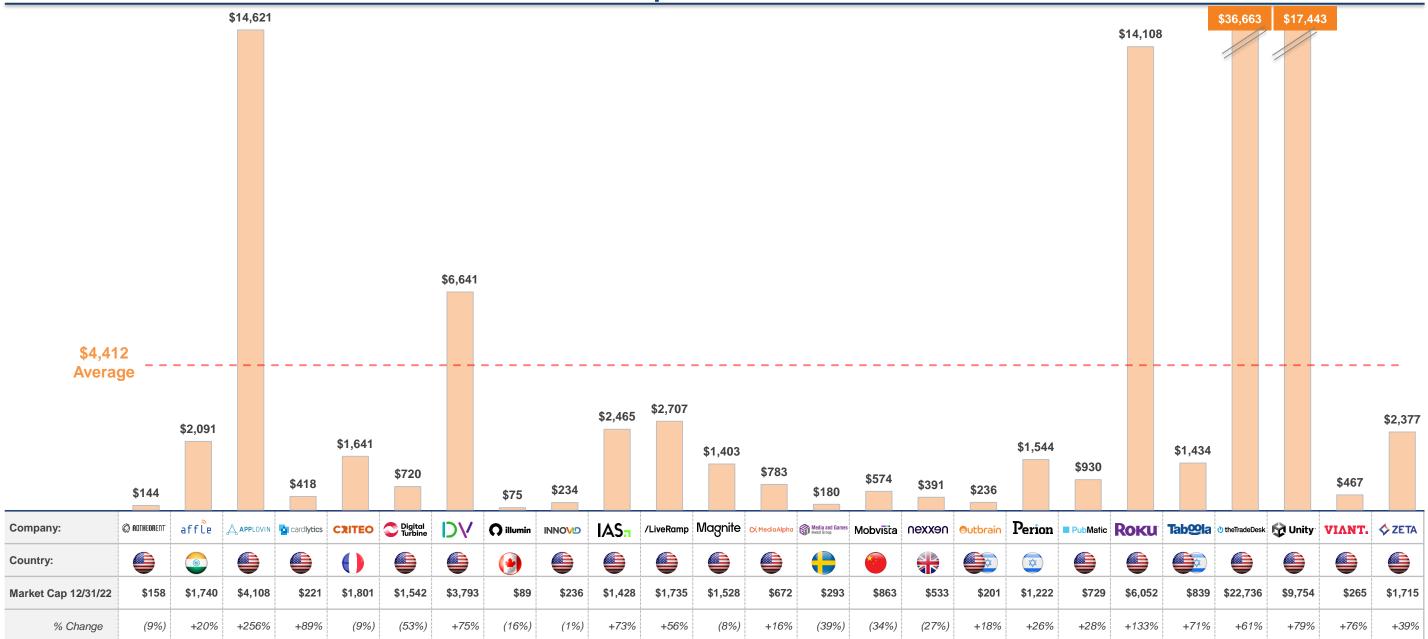
			Mar	ket Statistics		E	EV / Net Revenue	(1)	EV / Adj. EBITDA				
Company	Ticker	Exchange	Share Price	FD Market Cap	Enterprise Value	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E		
Affle ⁽¹⁾	AFFLE	BSE	\$15.69	\$2,091	\$2,044	30.6x	NA	NA	59.1x	50.5x	39.1x		
AdTheorent	ADTH	NASDAQ	\$1.45	\$144	\$70	0.6x	0.6x	0.6x	3.1x	3.7x	3.2x		
AppLovin	APP	NASDAQ	\$39.85	\$14,621	\$17,416	6.2x	5.3x	4.5x	16.4x	11.9x	9.8x		
Cardlytics	CDLX	NASDAQ	\$9.21	\$418	\$522	4.6x	4.1x	3.8x	NM	NM	31.7x		
Criteo	CRTO	NASDAQ	\$25.32	\$1,641	\$1,456	1.6x	1.4x	1.4x	5.5x	5.3x	4.9x		
Digital Turbine	APPS	NASDAQ	\$6.86	\$720	\$1,045	2.9x	3.9x	3.7x	5.5x	9.8x	8.9x		
DoubleVerify	DV	NYSE	\$36.78	\$6,641	\$6,388	14.1x	11.2x	9.0x	45.1x	35.4x	29.4x		
Illumin	ILLM	NASDAQ	\$1.21	\$75	\$38	0.8x	0.8x	0.8x	7.8x	37.0x	8.1x		
Innovid	CTV	NYSE	\$1.50	\$234	\$206	1.6x	1.5x	1.3x	NM	11.7x	10.4x		
Integral Ad Science	IAS	NASDAQ	\$14.39	\$2,465	\$2,546	6.2x	5.4x	4.7x	20.1x	16.1x	13.8x		
LiveRamp	RAMP	NYSE	\$37.88	\$2,707	\$2,183	3.7x	3.5x	3.3x	40.4x	22.0x	17.2x		
Magnite	MGNI	NASDAQ	\$9.34	\$1,403	\$1,698	3.3x	3.1x	2.9x	9.5x	10.2x	9.2x		
MediaAlpha	MAX	NYSE	\$11.15	\$783	\$861	12.3x	13.4x	10.7x	37.6x	34.4x	23.6x		
Media and Games Invest	M8G	NASDAQ	\$1.13	\$180	\$503	1.5x	1.5x	1.4x	5.1x	4.9x	4.5x		
Mobvista	1860	HKG	\$0.37	\$574	\$558	2.5x	2.6x	2.2x	15.4x	NA	NA		
Nexxen	TRMR	LSE	\$2.60	\$391	\$302	1.0x	1.0x	0.9x	2.1x	3.7x	3.2x		
Outbrain	OB	NASDAQ	\$4.38	\$236	\$186	0.8x	0.8x	0.8x	7.1x	6.3x	4.5x		
Perion Network	PERI	NASDAQ	\$30.87	\$1,544	\$1,020	3.8x	3.3x	2.9x	7.7x	6.1x	5.5x		
PubMatic	PUBM	NASDAQ	\$16.31	\$930	\$759	3.0x	2.9x	2.7x	7.7x	10.5x	8.9x		
Roku	ROKU	NASDAQ	\$91.66	\$14,108	\$12,105	3.9x	3.5x	3.2x	NM	NM	NM		
Taboola	TBLA	NASDAQ	\$4.33	\$1,434	\$1,378	2.4x	2.6x	2.0x	8.8x	17.3x	6.8x		
theTradeDesk	TTD	NASDAQ	\$71.96	\$36,663	\$35,141	22.3x	18.3x	15.2x	52.6x	46.3x	39.1x		
Unity Software	U	NYSE	\$40.89	\$17,443	\$18,653	13.4x	8.7x	7.8x	NM	48.3x	28.3x		
Viant	DSP	NASDAQ	\$6.89	\$467	\$468	3.8x	3.3x	3.0x	NM	17.3x	15.1x		
Zeta Global	ZETA	NYSE	\$8.82	\$2,377	\$2,441	4.1x	3.4x	2.9x	26.5x	19.3x	15.5x		
Average						5.0x	4.4x	3.8x	17.1x	18.0x	13.7x		
Median						3.5x	3.3x	2.9x	8.8x	11.9x	9.5x		
25 th Percentile						1.6x	1.5x	1.4x	6.3x	6.3x	5.9x		
75 th Percentile						5.0x	4.4x	4.0x	23.3x	22.0x	16.8x		



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Source: LUMA Analysis, FactSet (Market data as of 12/31/2023), Company Filings. Note: Figures correspond to calendar years, or closest equivalent period, See Appendix C for detail. Forward estimates excluded for companies whose relevant net revenue or EBITDA metrics are not available on a forward basis. 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

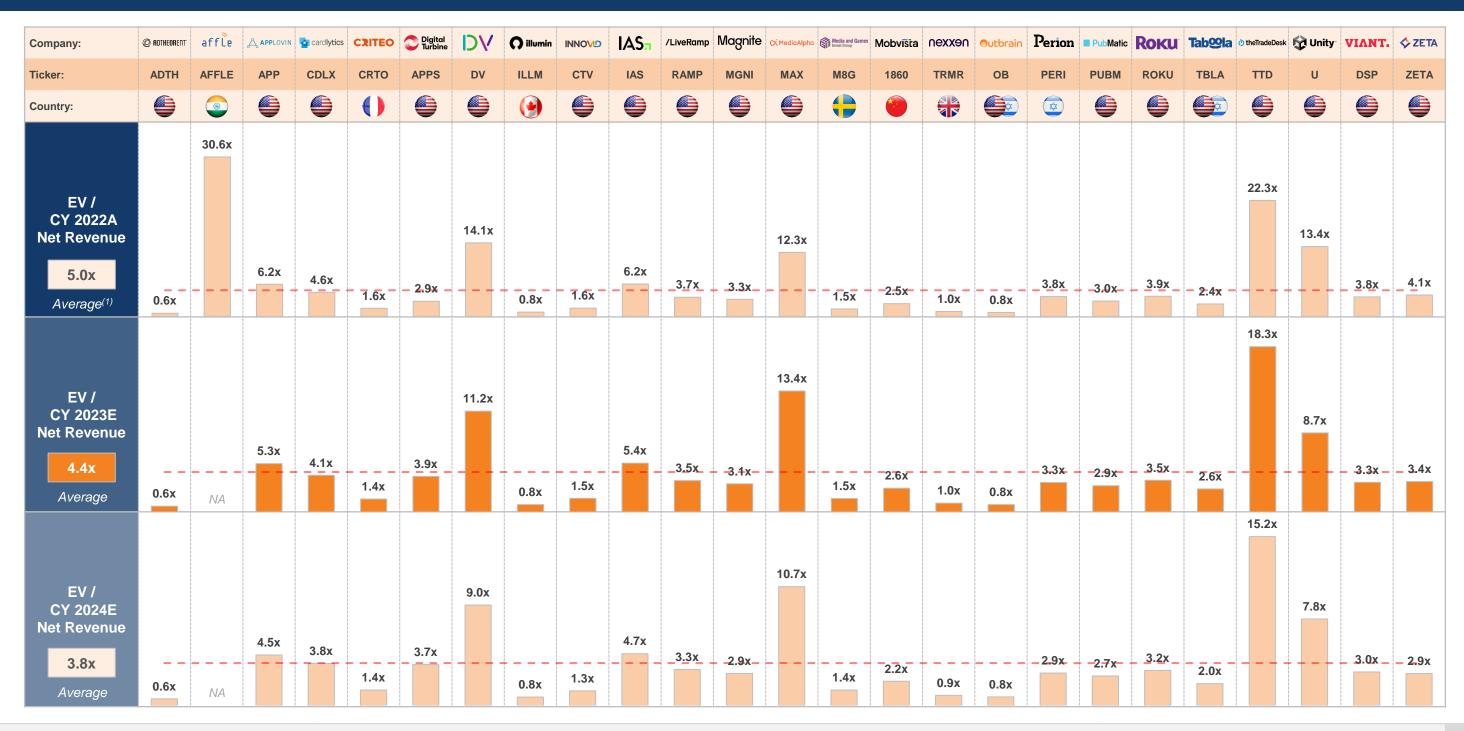


LUMA.A Market Cap Distributions at 12/31/2023

LUMA

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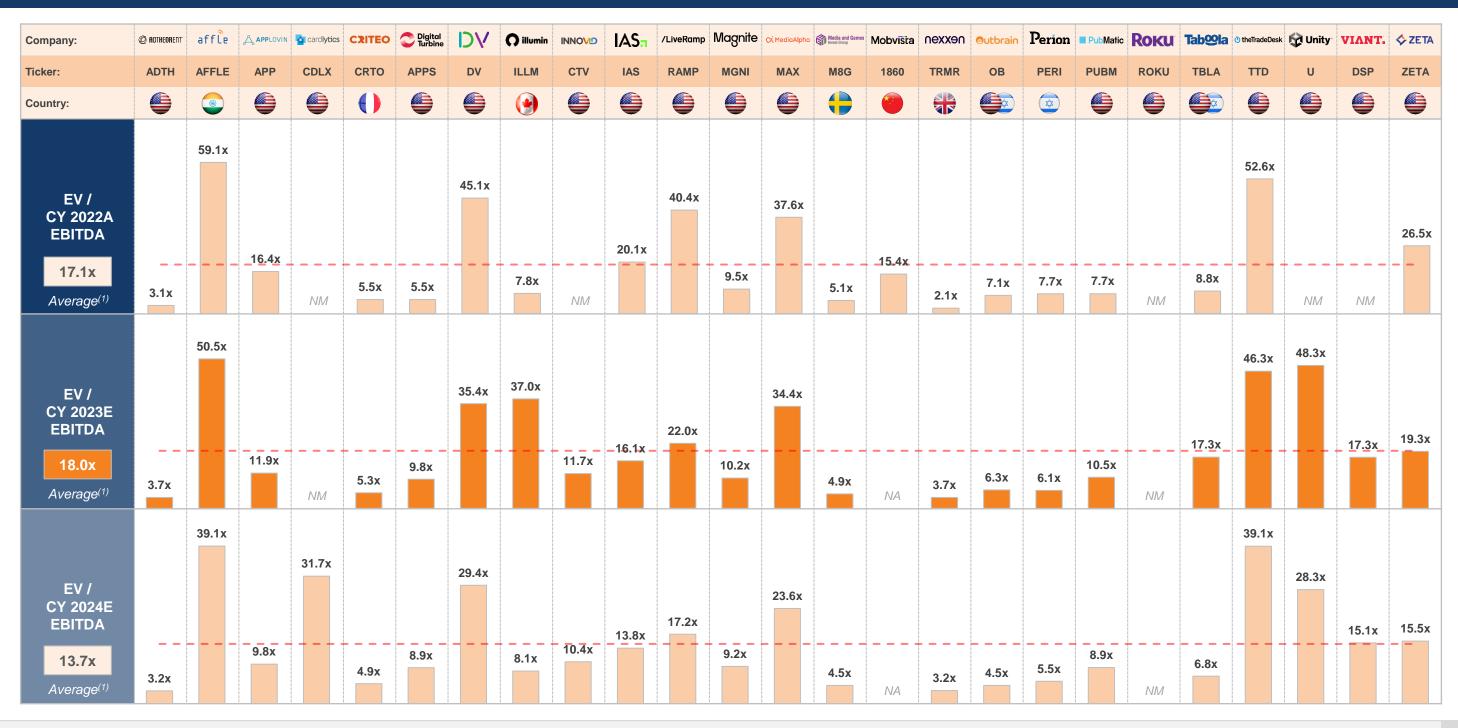
LUMA.A – EV / Net Revenue





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LUMA.A – EV / EBITDA





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LUMA.A – Summary Financial Statistics

			Net Revenue		Net	Revenue Grow	/th %	EBITDA				
Company	Ticker	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E		
Affle ⁽¹⁾	AFFLE	\$67	NA	NA	42%	NA	NA	\$35	\$40	\$52		
AdTheorent	ADTH	\$110	\$107	\$117	0%	(2%)	9%	\$22	\$19	\$22		
AppLovin	APP	\$2,817	\$3,256	\$3,838	1%	16%	18%	\$1,063	\$1,461	\$1,779		
Cardlytics	CDLX	\$113	\$129	\$138	10%	14%	8%	(\$45)	(\$0)	\$17		
Criteo	CRTO	\$928	\$1,007	\$1,051	1%	8%	4%	\$267	\$275	\$296		
Digital Turbine	APPS	\$356	\$266	\$284	14%	(25%)	7%	\$191	\$106	\$117		
DoubleVerify	DV	\$452	\$572	\$708	36%	26%	24%	\$142	\$181	\$217		
Illumin	ILLM	\$45	\$46	\$50	(11%)	1%	8%	\$5	\$1	\$5		
Innovid	CTV	\$127	\$138	\$156	41%	8%	13%	\$1	\$18	\$20		
Integral Ad Science	IAS	\$408	\$471	\$546	26%	15%	16%	\$127	\$158	\$185		
LiveRamp	RAMP	\$590	\$628	\$671	17%	6%	7%	\$54	\$99	\$127		
Magnite	MGNI	\$515	\$544	\$589	12%	6%	8%	\$179	\$166	\$184		
MediaAlpha	MAX	\$70	\$64	\$81	(31%)	(8%)	25%	\$23	\$25	\$36		
Media and Games Invest	M8G	\$344	\$335	\$360	21%	(3%)	7%	\$99	\$103	\$112		
Mobvista	1860	\$225	\$212	\$256	51%	(6%)	21%	\$36	-	-		
Nexxen	TRMR	\$310	\$312	\$330	3%	1%	6%	\$145	\$82	\$94		
Outbrain	OB	\$235	\$226	\$240	(14%)	(4%)	6%	\$26	\$30	\$41		
Perion Network	PERI	\$268	\$313	\$349	41%	17%	12%	\$132	\$168	\$184		
PubMatic	PUBM	\$256	\$261	\$286	13%	2%	10%	\$98	\$72	\$85		
Roku	ROKU	\$3,127	\$3,457	\$3,825	13%	11%	11%	(\$84)	(\$32)	\$90		
Taboola	TBLA	\$570	\$540	\$699	10%	(5%)	29%	\$157	\$80	\$203		
theTradeDesk	TTD	\$1,578	\$1,922	\$2,314	32%	22%	20%	\$668	\$758	\$898		
Unity Software	U	\$1,391	\$2,134	\$2,397	25%	53%	12%	(\$51)	\$386	\$658		
Viant	DSP	\$125	\$143	\$155	(12%)	14%	8%	(\$6)	\$27	\$31		
Zeta Global	ZETA	\$591	\$726	\$849	29%	23%	17%	\$92	\$127	\$157		
Average					14%	8%	13%					
Median					13%	7%	10%					
25 th Percentile					1%	(2%)	8%					
75 th Percentile					27%	15%	17%					



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EBITDA Margin %									
CY2022A	CY2023E	CY2024E							
52%	NA	NA							
20%	18%	19%							
38%	45%	46%							
(40%)	(0%)	12%							
29%	27%	28%							
54%	40%	41%							
31%	32%	31%							
11%	2%	9%							
1%	13%	13%							
31%	34%	34%							
9%	16%	19%							
35%	31%	31%							
33%	39%	45%							
29%	31%	31%							
16%	NA	NA							
47%	26%	28%							
11%	13%	17%							
49%	54%	53%							
38%	28%	30%							
(3%)	(1%)	2%							
28%	15%	29%							
42%	39%	39%							
(4%)	18%	27%							
(5%)	19%	20%							
16%	17%	19%							
21%	24%	27%							
28%	26%	28%							
400/	4 50/	400/							
10%	15%	19%							
35%	33%	33%							

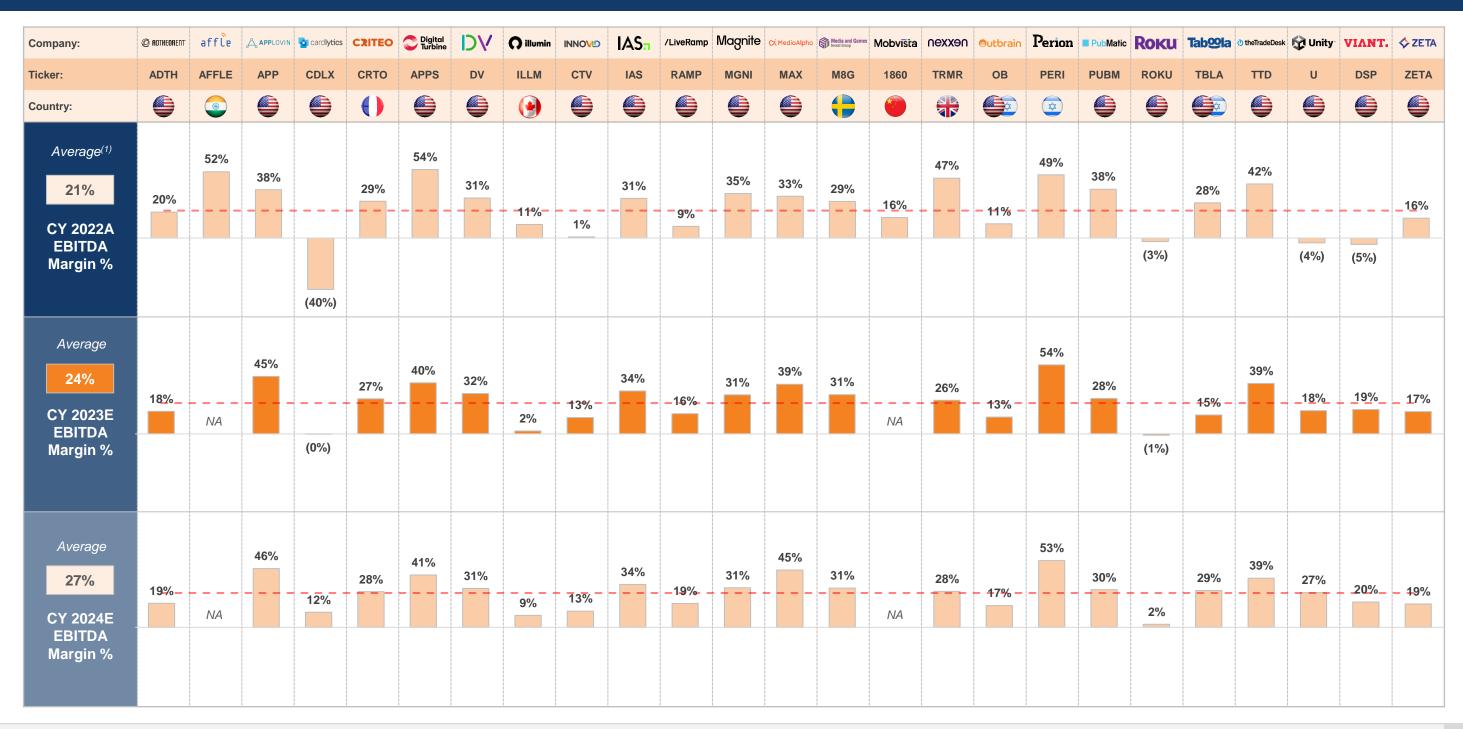
LUMA.A – Net Revenue Growth

Company:	Ø ADTHEORENT	affle	م PP LOVIN	ardlytics	CRITEO	Digital Turbine	VCI	O illumin		IAS <mark>.</mark>	/LiveRamp	Magnite	🔿 MediaAlpha	Media and Games	Mobvista	nexxən	Outbrain	Perion	PubMatic	Roku	Tabœla	🕐 theTradeDesk	😭 Unity	νιλητ.	♦ ZET
licker:	ADTH	AFFLE	APP	CDLX	CRTO	APPS	DV	ILLM	СТУ	IAS	RAMP	MGNI	MAX	M8G	1860	TRMR	ОВ	PERI	PUBM	ROKU	TBLA	TTD	U	DSP	ZETA
Country:	•	۲	•			6		۲	6						<u>(</u>			$\overline{\mathbf{x}}$						•	
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
		42%					36%		41%						51%			41%				0.0%/			
CY 2022A						4.407				26%	17%			21%								32%	25%		29%
Net Revenue Growth	0%		 -	10%	1%	14%	·					12%							13%	13%	_ 10% _				
14%								(11%)									(14%)							(12%)	
Average ⁽¹⁾	\$107	NA	\$3,256	\$129	\$1,007	\$266	\$572	\$46	\$138	\$471	\$628	\$544	(31%) \$64	\$335	\$212	\$312	\$226	\$313	\$261	\$3,457	\$540	\$1,922	\$2,134	\$143	\$726
Scale (\$mm)	\$107	IVA	\$3,230	\$129	Φ1,007	\$200	ΦΟ 1Ζ		\$130	Φ 471	ФО 20	77	04	ຈຸວວວ	ΦΖΙΖ	Φ312	\$ 220	ຈວາວ	\$201	\$3,4 37	\$ 540	ΦΙ,922	\$2,134 53%	\$143	\$720
																							0070		
CY 2023E Net Revenue			16%	4.407			26%			4 6 0/								17%				22%		4.407	23%
Growth		<u>NA</u> -		14%	8%		_	1% -	8%	15% _ <mark></mark> _	6%	6%				1% -			_2%_	11%		_		14% - <mark></mark> -	
8%	(2%)													(3%)	(69/)		(4%)				(5%)				
Average	. ,					(<mark>25%</mark>)							(8%)	()	(6%)		(170)				(3%)				
Scale (\$mm)	\$117	NA	\$3,838	\$138	\$1,051	\$284	\$708	\$50	\$156	\$546	\$671	\$589	\$81	\$360	\$256	\$330	\$240	\$349	\$286	\$3,825	\$699	\$2,314	\$2,397	\$155	\$849
													25%								29%				
CY 2024E							24%						23 /0		21%							20%			
Net Revenue Growth			18%						13%	16%													4.00/		17%
	9% -			8%		7%		8%			7%	8%						_12%	-10%-	_ 11% _			12%	8%	
13%					4%	. /0					. /0					6%	6%								



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LUMA.A – EBITDA Margin





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LUMA.M – Benchmarking at a Glance

Summary Observations

- The LUMA.M index cohort has 28 companies, including 4 that overlap with the LUMA.A index cohort.
- Since the year-end 2022 Market Report, the **LUMA.M** index cohort has evolved:
 - Acquisitions of Qualtrics, Quotient Technologies, and Momentive have closed; the companies have been removed from the index.
 - Comscore (NASDAQ: SCOR) and Similarweb (NYSE: SMWB) have been retroactively added to the index.
 - Klavivo (NYSE: KVYO) went public on September 20th and has been added to the index.
- The average Enterprise Value of LUMA.M constituents is \$7.3bn with Shopify at the top of the range (\$97bn) and Brightcove (\$110mm) on the low end.
- **Revenue:**
 - From a scale perspective, LUMA.M companies have average 2023E revenue of \$913mm. Shopify leads the cohort with ~\$7.0bn of expected revenue.
 - The cohort is trading at an average EV / 2023E revenue of 5.5x. Shopify is trading at the highest EV / 2023E revenue at 13.8x, followed by HubSpot at 13.7x. The average revenue growth rate for 2023E is 11.6% down from the 2022 average of 22.8%.
- **Profitability:**
 - LUMA.M companies have an average 2023E EBITDA margin of 11.2%, up significantly from 3.8% in 2022 as profitability remains a major focus of the sector. By scale, Shopify's 2023E EBITDA of \$818mm leads the cohort, while ZoomInfo has the highest 2023E EBITDA margin (+42%).





Companies

+11.6% Avg. Revenue Growth Down from +22.8% in 2022A



Metrics at a Glance

\$7.3bn Avg. Enterprise Value



+11.2% Avg. 2023E EBITDA Margin

Up from +3.8% in 2022A

LUMA.M – Summary Valuation Statistics

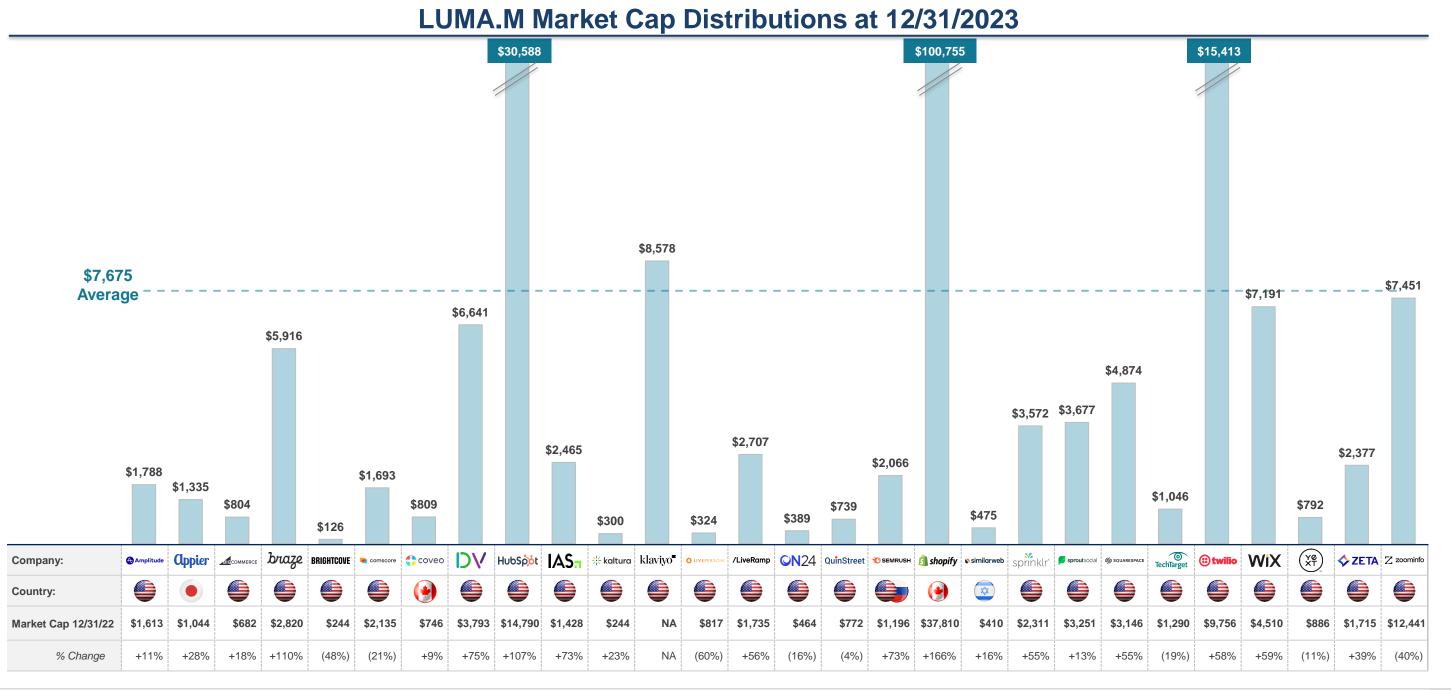
			Mar	ket Statistics			EV / Revenue		EV / Adj. EBITDA				
Company	Ticker	Exchange	Share Price	FD Market Cap	Enterprise Value	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E		
Amplitude	AMPL	NASDAQ	\$12.72	\$1,788	\$1,466	6.2x	5.3x	4.9x	NM	NM	NM		
Appier	4180	TYO	\$13.12	\$1,335	\$1,257	8.6x	6.7x	5.1x	NM	66.1x	37.8x		
BigCommerce	BIGC	NASDAQ	\$9.73	\$804	\$878	3.1x	2.9x	2.6x	NM	NM	45.4x		
Braze	BRZE	NASDAQ	\$53.13	\$5,916	\$5,448	15.5x	11.7x	9.5x	NM	NM	NM		
Brightcove	BCOV	NASDAQ	\$2.59	\$126	\$110	0.5x	0.5x	0.5x	6.1x	9.6x	6.1x		
ComScore	SCOR	NASDAQ	\$16.70	\$1,693	\$1,851	4.9x	5.0x	4.8x	50.0x	42.8x	33.8x		
Coveo	CVO	TSE	\$7.28	\$809	\$651	5.9x	5.2x	4.4x	NM	NM	NM		
Double Verify	DV	NYSE	\$36.78	\$6,641	\$6,388	14.1x	11.2x	9.0x	45.1x	35.4x	29.4x		
Hubspot	HUBS	NYSE	\$580.54	\$30,588	\$29,447	17.0x	13.7x	11.7x	NM	NM	61.3x		
Integral Ad Science	IAS	NASDAQ	\$14.39	\$2,465	\$2,546	6.2x	5.4x	4.7x	20.1x	16.1x	13.8x		
Kaltura	KLTR	NASDAQ	\$1.95	\$300	\$262	1.6x	1.5x	1.5x	NM	NM	NM		
Klaviyo	KVYO	NYSE	\$27.78	\$8,578	\$7,855	16.6x	11.3x	8.8x	NM	NM	73.8x		
LivePerson	LPSN	NASDAQ	\$3.79	\$324	\$695	1.3x	1.7x	1.7x	NM	26.2x	18.6x		
LiveRamp	RAMP	NYSE	\$37.88	\$2,707	\$2,183	3.7x	3.5x	3.3x	40.4x	22.0x	17.2x		
ON24	ONTF	NYSE	\$7.88	\$389	\$176	0.9x	1.1x	1.2x	NM	NM	NM		
QuinStreet	QNST	NASDAQ	\$12.82	\$739	\$683	1.2x	1.3x	1.0x	38.3x	57.9x	17.1x		
SEMrush	SEMR	NYSE	\$13.66	\$2,066	\$1,836	7.2x	6.0x	5.0x	NM	NM	NM		
Shopify	SHOP	TSE	\$77.90	\$100,755	\$96,752	17.3x	13.8x	11.6x	NM	NM	70.5x		
SimilarWeb	SMWB	NYSE	\$5.33	\$475	\$398	2.1x	1.8x	1.7x	NM	NM	NM		
Sprinklr	CXM	NYSE	\$12.04	\$3,572	\$2,915	4.7x	4.0x	3.6x	NM	37.7x	26.8x		
SproutSocial	SPT	NASDAQ	\$61.44	\$3,677	\$3,639	14.3x	11.0x	8.5x	NM	NM	NM		
Squarespace	SQSP	NYSE	\$33.01	\$4,874	\$5,238	6.0x	5.2x	4.6x	35.5x	22.0x	19.0x		
TechTarget	TTGT	NASDAQ	\$34.86	\$1,046	\$1,147	3.9x	5.0x	4.9x	9.4x	16.5x	16.1x		
Twilio	TWLO	NYSE	\$75.87	\$15,413	\$11,932	3.1x	2.9x	2.7x	43.4x	15.4x	13.9x		
Wix	WIX	NASDAQ	\$123.02	\$7,191	\$6,843	4.9x	4.4x	3.9x	NM	27.4x	20.1x		
Yext	YEXT	NYSE	\$5.89	\$792	\$610	1.5x	1.5x	1.5x	38.5x	11.6x	11.4x		
Zeta Global	ZETA	NYSE	\$8.82	\$2,377	\$2,441	4.1x	3.4x	2.9x	26.5x	19.3x	15.5x		
ZoomInfo	ZI	NASDAQ	\$18.49	\$7,451	\$8,116	7.4x	6.6x	6.4x	17.4x	15.8x	15.3x		
Average						6.6x	5.5x	4.7x	30.9x	27.6x	28.1x		
Median						4.9x	5.0x	4.5x	36.9x	22.0x	18.8x		
25 th Percentile						2.9x	2.6x	2.4x	19.4x	16.0x	15.5x		
75 th Percentile						7.7x	6.6x	5.4x	41.2x	35.9x	34.8x		



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Source: LUMA Analysis, FactSet (Market data as of 12/31/2023), 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.

EV / Adj	. EBITDA
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LUMA.M – Market Cap Distribution





LUMA.M – EV / Revenue





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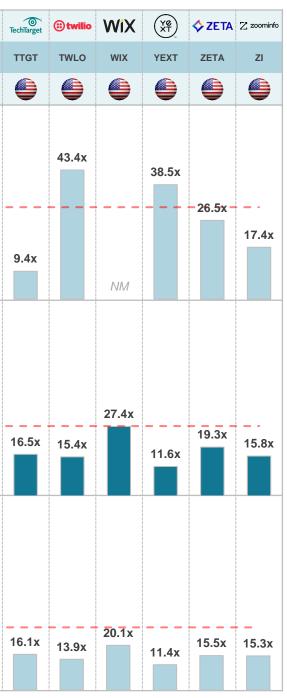
LUMA.M – EV / EBITDA

Company:	🚯 Amplitude	Appi er	Elecommerce	braze	BRIGHTCOVE	a comscore	🌔 coveo	VCI	HubSpot	IAS	<mark>∺</mark> kaltura	klaviyo	O LIVEPERSON	/LiveRamp	ON 24	Qu <mark>i</mark> nStreet	T SEMRUSH	🗿 shopify	🔇 similarweb	sprinklr'	p sproutsocial	I 🌀 SQUARESPAC	E
Ticker:	AMPL	4180	BIGC	BRZE	BCOV	SCOR	сvо	DV	HUBS	IAS	KLTR	κνγο	LPSN	RAMP	ONTF	QNST	SEMR	SHOP	SMWB	СХМ	SPT	SQSP	
Country:		٢					۲	٢	٢									۲					
EV /						50.0x		45.1x						40.4x		38.3x						35.5x	
CY 2022A EBITDA 30.9x	 NM	NM	NM	NM	6.1x		NM		NM	20.1x	NM	NM	NM		NM			NM	NM	 NM	NM		•
Average EV / CY 2023E EBITDA		66.1x	11101			42.8x		35.4x	T (IV)			14101	26.2x	-12-0-	11101	57.9x		TVIVI		37.7x		92.64	
27.6x Average	NM		NM	NM	9.6x		NM		NM	16.1x	NM	NM		-22:0x	NM		NM	NM	NM		NM	22:0x	
EV / CY 2024E		37.8x	45.4x						61.3x			73.8x						67.7x					
EBITDA 28.1x Average				NM	6.1x	33.8x	NM	29.4x		13.8x	NM		18.6x	17.2x	NM	17.1x	 NM		NM	26.8x	- <u></u> -	19.0x	



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LUMA.M – Summary Financial Statistics

			Revenue		Re	evenue Growth	n %		EBITDA		E	BITDA Margin	%
Company	Ticker	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E	CY2022A	CY2023E	CY2024E
Amplitude	AMPL	\$238	\$276	\$298	42%	16%	8%	(\$24)	(\$0)	\$14	(10%)	(0%)	5%
Appier	4180	\$146	\$188	\$245	34%	29%	30%	\$10	NA	NA	7%	10%	14%
BigCommerce	BIGC	\$279	\$307	\$336	27%	10%	10%	(\$44)	(\$4)	\$19	(16%)	(1%)	6%
Braze	BRZE	\$353	\$466	\$572	NA	32%	23%	(\$66)	(\$36)	(\$12)	(19%)	(8%)	(2%)
Brightcove	BCOV	\$211	\$201	\$206	(0%)	(5%)	2%	\$18	\$11	\$18	8%	6%	9%
ComScore	SCOR	\$376	\$374	\$387	3%	(1%)	3%	\$37	\$43	\$55	10%	12%	14%
Coveo	CVO	\$111	\$125	\$146	28%	13%	17%	(\$19)	(\$9)	\$2	(17%)	(7%)	1%
Double Verify	DV	\$452	\$572	\$708	36%	26%	24%	\$142	\$181	\$217	31%	32%	31%
Hubspot	HUBS	\$1,731	\$2,146	\$2,522	33%	24%	18%	\$227	\$390	\$480	13%	18%	19%
Integral Ad Science	IAS	\$408	\$471	\$546	26%	15%	16%	\$127	\$158	\$185	31%	34%	34%
Kaltura	KLTR	\$169	\$173	\$176	2%	2%	2%	(\$28)	(\$4)	\$0	(17%)	(2%)	0%
Klaviyo	KVYO	\$473	\$693	\$890	63%	46%	28%	(\$31)	\$91	\$106	(6%)	13%	12%
LivePerson	LPSN	\$515	\$401	\$401	10%	(22%)	0%	(\$16)	\$27	\$37	(3%)	7%	9%
LiveRamp	RAMP	\$590	\$628	\$671	17%	6%	7%	\$54	\$99	\$127	9%	16%	19%
ON24	ONTF	\$191	\$162	\$148	(6%)	(15%)	(9%)	(\$16)	(\$5)	\$1	(8%)	(3%)	0%
QuinStreet	QNST	\$575	\$543	\$674	(2%)	(6%)	24%	\$18	\$12	\$40	3%	2%	6%
SEMrush	SEMR	\$254	\$308	\$368	35%	21%	20%	(\$22)	\$11	\$23	(9%)	4%	6%
Shopify	SHOP	\$5,600	\$6,987	\$8,335	21%	25%	19%	\$97	\$818	\$1,373	2%	12%	16%
SimilarWeb	SMWB	\$193	\$217	\$239	40%	12%	10%	(\$56)	(\$4)	\$5	(29%)	(2%)	2%
Sprinklr	CXM	\$618	\$727	\$800	26%	18%	10%	\$0	\$77	\$109	0%	11%	14%
SproutSocial	SPT	\$254	\$331	\$426	35%	30%	29%	(\$1)	\$8	\$17	(0%)	3%	4%
Squarespace	SQSP	\$867	\$1,005	\$1,139	11%	16%	13%	\$147	\$238	\$275	17%	24%	24%
TechTarget	TTGT	\$297	\$229	\$232	13%	(23%)	1%	\$122	\$70	\$71	41%	30%	31%
Twilio	TWLO	\$3,826	\$4,115	\$4,404	35%	8%	7%	\$275	\$774	\$860	7%	19%	20%
Wix	WIX	\$1,388	\$1,561	\$1,745	9%	12%	12%	(\$20)	\$250	\$340	(1%)	16%	19%
Yext	YEXT	\$407	\$402	\$407	4%	(1%)	1%	\$16	\$52	\$54	4%	13%	13%
Zeta Global	ZETA	\$591	\$726	\$849	29%	23%	17%	\$92	\$127	\$157	16%	17%	19%
ZoomInfo	ZI	\$1,098	\$1,234	\$1,278	47%	12%	4%	\$465	\$515	\$529	42%	42%	41%
Average					23%	12%	12%				4%	11%	14%
Median					26%	13%	11%				2%	11%	13%
25 th Percentile					9%	1%	4%				(8%)	2%	6%
75 th Percentile					35%	23%	19%				11%	18%	19%

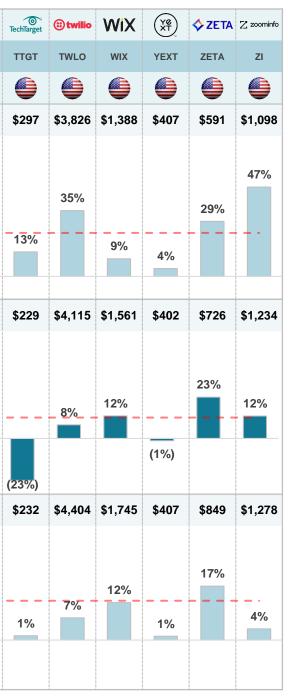


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LUMA.M – Revenue Growth

Company:	🕀 Amplitude	Appi er	BICCOMMERCE	braze	BRIGHTCOVE	e comscore	🋟 coveo	VCI	HubS🍌t	IAS.	∺ ; kaltura	klaviyo	O LIVEPERSON	/LiveRamp	©N 24	Qu <mark>i</mark> nStreet	1 SEMRUSH	🗿 shopify	() similarweb	sprinklr'	p sprout social	🎲 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				•							۲	$\overline{\mathbf{x}}$				
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	
												63%											
CY 2022A	42%							36%									35%		40%		35%		
Revenue Growth		34%	27%				28%		33%	26%							5578	21%		26%	3378		
23%						3%					2%		10%	-17%-								11%	-
Average				NA	(0%)	378					2 /0				(6%)	(2%)							
Scale (\$mm)	\$276	\$188	\$307	\$466	\$201	\$374	\$125	\$572	\$2,146	\$471	\$173	\$693	\$401	\$628	\$162	\$543	\$308	\$6,987	\$217	\$727	\$331	\$1,005	
												46%											
CY 2023A		29%		32%				26%	24%									25%			30%		
Revenue Growth	16%		10%				13%			15%				_6%_			21%		12%	18%		16%	
											2%												
12% Average					(5%)	(1%)									(15%)	(6%)							
Scale (\$mm)	\$298	\$245	\$336	\$572	\$206	\$387	\$146	\$708	\$2,522	\$546	\$176	\$890	(22%) \$401	\$671	\$148	\$674	\$368	\$8,335	\$239	\$800	\$426	\$1,139	(
	Ψ230	30%	ψ000	Ψ 3 12	Ψ200	ψ301	ψι το	ψισο	ΨΖ,3ΖΖ	4040	ψΠΟ	28%	ΨτΟΙ	ψογτ	ψιτο	ψυττ	\$300	ψ0,000	Ψ233	4000	29%	ψ1,100	
0)/ 000 / 4				23%			17%	24%	18%							24%	20%	19%					
CY 2024A Revenue	8% -		_ 10% _							16%									_10%_	_1 <u>0%</u>		13%	
Growth	078				2%	3%					2%		0%	7%									
12%																							
Average															(9%)								





LUMA.M – EBITDA Margin





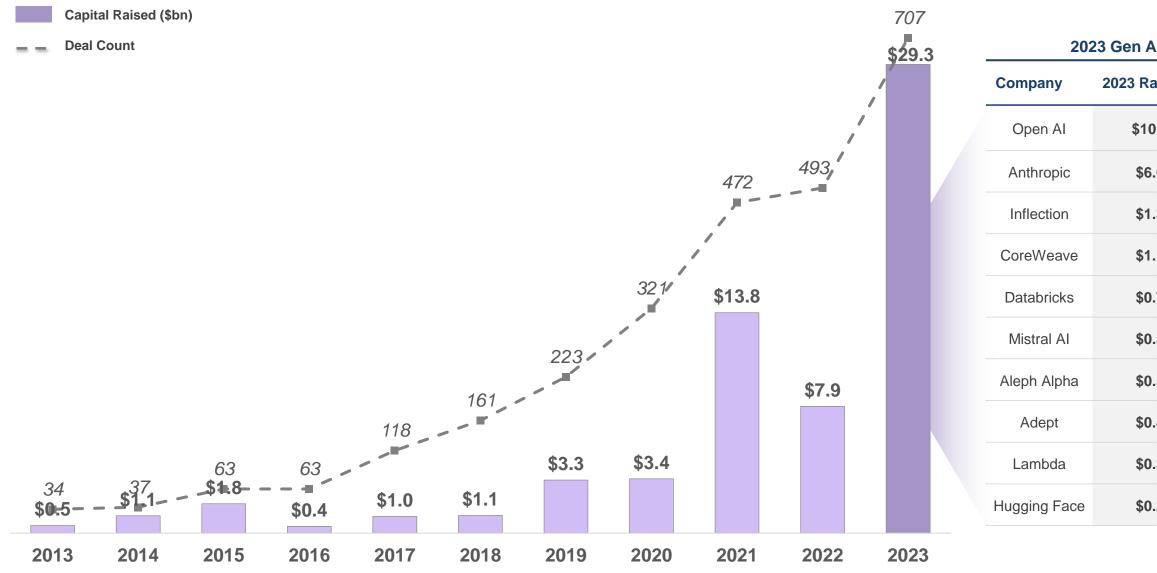
1	2023 M&A Activity
2	2023 Public Markets Activity
3	2023 Private Financing Activity



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Generative AI Investments Fueled Private Markets in 2023

Generative AI Capital Raised and Private Market Deal Activity







2023 Gen Al Select Financing (\$bn)

	0.()	/
aised	Raised To Date	Valuation
0.3	\$10.3	~\$100bn ⁽¹⁾
.6	\$7.3	~\$18bn ⁽¹⁾
.3	\$1.6	\$4bn
.1	\$2.8	\$7bn
.7	\$4.2	~\$43bn
.5	\$0.5	\$2bn
.5	\$0.5	n/a
.4	\$0.4	\$1bn
.3	\$0.4	~\$2bn
.2	\$0.4	~\$5bn

Ad Tech & MarTech – Q4 2023 Key Financings

Date	Company	Lead / Key Investor(s)	Round Size (\$mm)	Post-Valuation (\$mm)	Commentary
12/26/2023	Lily	Undisclosed Investors	\$12	ND	 Lily.AI, an e-commerce product discovery platform that improves of discovery, raised ~\$12mm of venture funding from undisclosed inve The Company has raised ~\$52mm to date through four VC rounds
12/7/2023	Contraction of the second seco		\$55	ND	 ContactMonkey, an internal email communications platform, anno round led by Updata Partners. This investment will help ContactMonkey increase its workforce ar
11/29/2023	CallMiner	Undisclosed Investors	\$10	~\$195	 CallMiner, a conversation intelligence platform for customer servic The Company has now raised ~\$159mm of venture funding to date
11/24/2023	AssemblyAl	Accel INSIGIT Partners SMITHOPOINT	\$50	\$300	 AssemblyAI, a speech recognition system that allows developers a \$50mm in a Series C funding led by Accel with participation from Ins The Company has raised ~\$115M to date - 90% of which has been specified as the second s
11/13/2023	ADENTRO	Undisclosed Investors	~\$13	ND	 Adentro, a marketing platform designed to help brick-and-mortar brick with in-store customers, raised \$12.7mm of Series C funding. The Company has raised ~\$107mm to date.
11/6/2023	allganize	InterVest capital partners	\$20	ND	 Allganize, an Al-powered work automation and efficiency platform in a deal led by InterVest and Murex Partners. The funds will be used to expand the distribution of the corporate
11/3/2023	챢 Yogi	blueprint equity	\$10	~\$35	 Yogi, a customer insights platform, raised \$10mm in Series A function RTP Global, Scop Venture Capital, Data Point Capital, Remarkable participated in the Series A round.
11/16/2023	Workshop	McCarthy Capital	\$12	~\$60	 Workshop, an email platform for internal communications, announ funding led by McCarthy Capital, with support from Ludlow Ventures The funds will be used to accelerate a solution for internal email, r scaling go-to-market efforts.
10/31/2023	guidde.	NORWEST	~\$12	~\$30	 Guidde, a video documentation platform harnessing generative Alled by Norwest Venture Partners. The funds will be used to expand its engineering and data science team as it looks to develop its international presence.
10/5/2023	Creatopy	JVC 🎐	\$10	ND	 Creatopy, an AI-driven creative automation platform, has raised a Point Nine. The investment will be used to bring new AI capabilities to the pro-



s on-site search and personalized product vestors. nds. nounced it has raised \$55mm in a Series A and expand internationally. vices, raised \$10mm of Series F funding. late. rs to build customized chat interfaces, raised Insight Partners and Smith Point. een raised in the last 22 months. r businesses create stronger connections rm raised \$20mm of Series B venture funding e LLM app market. Inding led by Blueprint equity. able Ventures and Jaffray Woodriff also unced it has raised \$12mm in Series A es and M25. , recruiting additional engineering talent and AI, announced \$11.6mm in Series A funding ice teams, as well as grow its go-to-market a \$10mm in Series A funding from 3VC and roduct.

Digital Content – Q4 2023 Key Financings

Date	Company	Lead / Key Investor(s)	Round Size (\$mm)	Post-Valuation (\$mm)	Commentary
12/20/2023	FRONT OFFICE SPORTS		\$13	\$40	 Front Office Sports, a NYC-based multi-platform media and new sports, received ~\$13mm of venture funding from RedBird IMI. The Company intends to use the funds to expand operations and sports and sports.
12/11/2023	DA ZN	Undisclosed Investors	\$1,000	ND	 DAZN, a provider of global sports streaming services, raised ~\$ investors. DAZN has raised ~\$8.4bn to date through various venture and other streams of the stream of the st
12/12/2023	ALLSTAR	Drive Capital	~\$15	ND	 Cloud-focused content creation platform, Allstar.gg, raised ~\$15 capital firm Drive Capital. The funds will be used to accelerate product development and i technology across new partnerships.
12/7/2023	🛞 Leonardo.Al	BLACKBIRD	\$31	ND	 Al art production platform for consumers and enterprise users, L and included Side Stage Ventures, Smash Capital, TIRTA Venture Founded last year, Leonardo.Ai has hit 7 million users, who hav it recently launched its enterprise version, which includes collabor
12/5/2023	😨 Fut Connect	The Kicher Group	\$12	ND	 Fan engagement platform and app, FutConnect, raised \$12mm The funding will be used to amplify FutConnect's momentum in to innovate and build global scale.
11/21/2023		Undisclosed Investors	\$15	~\$60	 Glif, an AI-driven platform to build easily promptable images, rai pre-money valuation of \$45mm The company specializes in creating, remixing, and running AI of developers and programmers to generate infinite comic character
11/9/2023	\sim	D BITKRAFTF4TEAM BUILDER VENTURES.Sedona	\$21	ND	 Noice, a developer of a live streaming platform for gamers, has including Sedona Holdings, Team Builder Ventures, Bitkraft and F The Company will use the funding for promoting the platform an
11/6/2023		PALUEL-MARMONT CAPITAL	\$16	ND	 ■ French mobile publisher, TapNation, received €15 million (\$16.7 Re-Sources Capital, and other undisclosed investors. ■ The funds will allow the Company to diversify its portfolio and box
10/20/2023		HIRD CAPITAL	\$12	\$48	 Noodle Cat Games, an independent game development studio, Hiro Capital with additional participation from Makers Fund, KRAF The funds will be used to accelerate development and scale up
10/18/2023			\$11	ND	 Forge, a platform that connects and rewards gamers for their ac investment led by Animoca Brands, Bitkraft Ventures, and the Mal With the investment, Forge is now open to the public in beta form



MarTech

Digital Content

news organization covering the business of

and business reach.

-\$1bn of venture funding from undisclosed

d debt financings.

15mm in Series A funding led by venture

d increase the adoption of its proprietary

s, Leonardo.Ai, raised \$31mm led by Blackbird, tures, Gaorong Capital and Samsung Next. have generated more than 700 million images; poration tools and hosting on a private cloud.

Im of Series A funding led by the Kicher Group. in the sports technology industry and be used

raised \$15mm from undisclosed investors at a

Al divination, generators, and selfies, enabling ters in any style and theme.

as raised \$21mm from a group of investors d F4 Fund.

and growing its team.

6.1mm) of capital from Paluel-Maront Capital,

bolster its growth strategy.

lio, received \$12mm of Series A funding led by AFTON, and Sony Innovation Fund. up the team.

achievements, raised ~\$11mm of seed /akers Fund. ormat.

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



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Appendix A: Net Revenue Methodology & Definitions

Reporting "Revenue / Co	ntribution Ex	-TAC"	
(\$mm)	2021A	2022A	LTM 9/30
Criteo			
Gross Revenue	\$2,254	\$2,017	\$1,948
(-) TAC	(\$1,334)	(\$1,089)	(\$958)
(=) Contribution ex-TAC	\$921	\$928	\$990
Magnite			
Gross Revenue	\$468	\$577	\$608
(-) Cost of Revenue	(\$202)	(\$307)	(\$451)
(=) Gross Profit (as reported)	\$267	\$270	\$157
(+) Cost of Revenue, excluding TAC	\$151	\$245	\$383
(=) Revenue ex-TAC	\$417	\$515	\$540
Nexxen			
Revenue	\$342	\$335	\$344
(-) Performance Media Cost	(\$40)	(\$26)	(\$17)
(=) Contribution ex-TAC	\$302	\$310	\$327
Perion Networks ⁽¹⁾			
Gross Revenue	\$478	\$640	\$719
(-) TAC	(\$288)	(\$373)	(\$411)
(=) Revenue ex-TAC	\$190	\$268	\$308
Viant			
Gross Revenue	\$224	\$197	\$213
(-) Platform Ops	(\$130)	(\$117)	(\$120)
(=) Gross Profit (as reported)	\$95	\$80	\$93
(+) Other platform ops	\$48	\$44	\$41
(=) Contribution ex-TAC	\$142	\$125	\$134

LUMA Defined Net Revenue by Company Filing Metric

Reporting "Adjusted	Gross Profi	t"		Reporting
(\$mm)	2021A	2022A	LTM 9/30	(\$mm)
AdTheorent				Outbrain
Gross Revenue (+) Platform Ops (=) Gross Profit (as reported) (+) Other Platform Ops ⁽²⁾	\$165 (\$78) \$88 \$22	\$166 (\$83) \$83 \$27	\$163 (\$86) \$77 \$29	Gross Revenue (-) TAC (-) Other cost of revenues ⁽⁴⁾ (=) Gross Profit
(=) Adj. Gross Profit	\$109	\$110	\$105	(+) Other cost of revenues ⁽⁴⁾
Cardlytics				(=) Gross Profit ex-TAC
Gross Revenue (-) Adj. Partner Share & Other 3P (-) Delivery Costs (=) Gross Profit	\$267 (\$140) (\$23) \$105	\$299 (\$156) (\$30) \$113	\$303 (\$151) (\$27) \$124	Taboola Gross Revenue (-) TAC
Digital Turbine		•	·	 (-) Other cost of revenues⁽⁵⁾ (=) Gross Profit (as reported)
Gross Revenue (-) License fees and rev-share ⁽³⁾ (-) Other direct costs of revenue ⁽³⁾ (=) Gross Profit (as reported) (+) S/W depr. & other direct CoR	\$748 (\$371) (\$30) \$347 \$3	\$710 (\$324) (\$36) \$350 \$5	\$592 (\$283) (\$37) \$272 \$7	(=) Gross Profit (as reported) (+) Other cost of revenues ⁽⁵⁾ (=) Gross Profit ex-TAC
(=) Adj. Gross Profit	\$350	\$356	\$278	
Illumin Gross Revenue (-) Media Costs (=) Gross Profit	\$98 (\$47) \$51	\$92 (\$46) \$46	\$96 (\$50) \$46	
MediaAlpha				
Gross Revenue (-) Platform Ops (=) Gross Profit	\$645 (\$544) \$102	\$459 (\$389) \$70	\$395 (\$330) \$65	

Sources & Notes

Source: Company Filings **Note:** (1) 2023E and 2024E Forward Revenue ex-TAC projections from Oppenheimer Equity research as of November 1, 2023. (2) 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. (3) 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. (4) Outbrain other cost of revenue includes the amortization of capitalized software that is developed or obtained for internal use associated with revenue-generating technologies. (5) 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.

LUMA

ig "Gross Pr	ofit Ex-TAC	,	
	2021A	2022A	LTM 9/30
	\$1,016	\$992	\$946
	(\$744)	(\$757)	(\$723)
	(\$32)	(\$42)	(\$43)
	\$240	\$193	\$180
)	\$32	\$42	\$43
	\$272	\$235	\$223
	\$1,379	\$1,401	\$1,391
	(\$860)	(\$832)	(\$865)
	(\$78)	(\$105)	(\$106)
i)	\$441	\$464	\$420
)	\$78	\$105	\$106
	\$519	\$570	\$526

Appendix B: Ad Tech Recent Quarter EBITDA Detail (1 / 4)

\$ in USDmm	© ADTHEORENT [®]	နို APP LOVIN	cardlytics	CRITEO	Digital Turbine	VCI			/LiveRamp	Magnite	🔿 MediaAlpha
Net Income	(\$4)	\$109	(\$24)	\$7	(\$161)	\$13	(\$3)	(\$14)	\$4	(\$17)	(\$19)
(+) Interest (income) expense, net	(\$1)	\$78	\$1	\$3	\$8	\$0	(\$0)	\$3	(\$6)	\$8	\$4
(+) Income tax provision (benefit)	\$6	\$1	_	\$2	(\$1)	\$6	(\$1)	\$20	\$10	(\$1)	_
(+) D&A	\$2	\$122	\$6	\$25	\$21	\$11	\$5	\$14	\$2	\$39	\$2
EBITDA	\$4	\$309	(\$17)	\$36	(\$134)	\$31	\$0	\$23	\$10	\$28	(\$13)
(+) SBC (excl. assoc. payroll tax)	\$3	\$111	\$10	\$24	\$9	\$16	\$6	\$14	\$16	\$17	\$14
(+) Transaction costs	-	-	_	_	\$0	\$0	-	-	_	-	\$0
(+) Restructuring / acquisition costs	-	\$0	\$0	\$8	_	\$1	-	\$1	\$7	-	_
(+) FX gains (losses)	-	(\$1)	\$2	_	\$2	(\$2)	-	\$2	_	(\$1)	_
(+) Other (income) expense, net	-	-	_	_	_	_	_	-	-	-	_
(+) Other adjustments	(\$2)	-	\$8	\$0	\$150	(\$0)	\$0	\$0	_	(\$4)	\$2
Adjusted EBITDA	\$5	\$419	\$4	\$68	\$28	\$46	\$6	\$41	\$32	\$40	\$4
Broker Estimates (Median)	\$4	\$354	(\$0)	\$60	\$26	\$40	\$4	\$36	\$20	\$37	\$3

Other Adjustments Detail

- AdTheorent: includes ~(\$2mm) of change in FV items
- Cardlytics: includes ~\$8mm from loss in FV of contingent consideration
- Digital Turbine: includes ~\$147mm impairment of goodwill, ~\$3mm in business transformation costs and ~\$1mm in employee / severance costs and less than (\$1mm) of change in FV of contingent consideration
- Magnite: includes ~(\$4mm) gain on extinguishment of debt
- MediaAlpha: includes ~\$2mm of litigation matters



MarTech

Appendix B: Ad Tech Recent Quarter EBITDA Detail (2 / 4)

\$ in USDmm	Media and Games Invest Group	nexxən	⊗utbrain	Perion	PubMatic	Roku	Tab @la	() theTradeDesk
Net Income	\$43	(\$3)	\$1	\$33	\$2	(\$330)	(\$23)	\$39
(+) Interest (income) expense, net	\$14	\$1	\$1	(\$6)	(\$2)	(\$23)	\$4	(\$18)
(+) Income tax provision (benefit)	\$4	(\$3)	\$1	\$6	\$0	\$3	_	\$18
(+) D&A	\$9	\$20	\$5	\$3	\$11	\$19	\$25	\$21
EBITDA	\$69	\$16	\$8	\$36	\$11	(\$331)	\$7	\$60
(+) SBC (excl. assoc. payroll tax)	_	\$4	\$3	\$4	\$7	\$91	\$14	\$140
(+) Transaction costs	_	-	_	-	_	_	_	_
(+) Restructuring / acquisition costs	_	\$0	_	\$0	_	\$283	_	_
(+) FX gains (losses)	_	\$1	_	_	_	_	_	_
(+) Other (income) expense, net	(\$68)	_	_	_	_	_	_	_
(+) Other adjustments	\$24	_	(\$0)	\$2	_	_	\$3	_
Adjusted EBITDA	\$25	\$21	\$10	\$43	\$18	\$43	\$23	\$200
Broker Estimates (Median)	\$23	\$20	\$9	\$42	\$14	(\$29)	\$4	\$186

Other Adjustments Detail

- Media & Games Invest: includes ~\$15mm of expenses related to litigation matters, \$5mm of employee costs and \$4mm of various other expenses
- **Outbrain:** includes less than (\$1mm) of regulatory matter costs
- Perion: includes ~\$2mm of FV items related to contingent considerations

- Taboola: includes ~\$3mm of holdback compensation expenses
- Zeta: includes \$2mm of other expenses, consisting of changes in FV of acquisition-related liabilities, gains and losses on sales of assets and foreign exchange gains and losses





😭 Unity VIANT. **ZETA** (\$125) (\$1) (\$43) (\$10) (\$2) \$3 \$8 \$0 \$1 \$111 \$4 \$13 (\$16) \$1 (\$26) \$147 \$9 \$58 (\$0) \$2 \$34 \$131 \$10

\$7

\$96

\$32

Appendix B: MarTech Recent Quarter EBITDA Detail (3 / 4)

\$ in USDmm	Amplitude	Appi er	BIGCOMMERCE	braze	BRIGHTCOVE	Comscore	🋟 coveo™	HubSpot	🔆 kaltura	klaviyo	Ö LIVE PERSON	©N 24
Net Income	(\$18)	\$2	(\$20)	(\$31)	(\$2)	\$3	(\$6)	(\$5)	(\$11)	(\$297)	(\$53)	(\$11)
(+) Interest (income) expense, net	(\$3)	(\$0)	(\$2)	(\$5)	(\$0)	\$0	(\$2)	(\$14)	(\$0)	(\$6)	(\$1)	\$0
(+) Income tax provision (benefit)	\$0	\$0	\$0	\$0	\$0	\$1	(\$1)	(\$1)	\$3	\$1	\$1	\$0
(+) D&A	\$1	\$4	\$1	\$2	\$4	\$6	\$5	\$21	\$1	\$3	\$13	\$1
EBITDA	(\$19)	\$6	(\$21)	(\$33)	\$2	\$10	(\$4)	\$0	(\$7)	(\$299)	(\$41)	(\$10)
(+) SBC (excl. assoc. payroll tax)	\$23	_	\$12	\$24	\$3	\$1	\$5	\$108	\$7	\$300	\$8	\$12
(+) Transaction costs	_	_	_	-	_	_	_	-	_	-	_	_
(+) Restructuring / acquisition costs	_	_	\$7	-	\$0	\$1	_	\$1	\$0	-	\$2	\$1
(+) FX gains (losses)	_	_	_	_	_	_	(\$1)	_	_	-	_	_
(+) Other (income) expense, net	_	_	\$0	_	_	(\$1)	_	_	_	\$0	\$3	(\$3)
(+) Other adjustments	-	_	\$2	\$2	-	\$2	-	\$3	_	\$20	\$38	\$0
Adjusted EBITDA	\$4	\$6	(\$0)	(\$7)	\$6	\$13	\$0	\$111	\$0	\$21	\$11	\$0
Broker Estimates (Median)	\$2	\$5	(\$1)	(\$14)	\$4	\$13	(\$1)	\$88	(\$1)	\$14	\$10	(\$2)

Other Adjustments Detail

- Amplitude: includes ~\$1mm of non-cash operating lease and other non-cash expenses
- Braze: includes ~\$1mm payroll tax related to SBC and ~\$1mm related to charitable contributions
- comScore: includes \$2mm impairment of right-of-use assets and less than \$1mm of change in FV of contingent consideration
- HubSpot: includes ~\$2mm amortization of acquired intangibles, less than \$1mm in amortization of debt offering costs and less than (\$1mm) in gains on strategic investments.
- Klaviyo: includes ~\$13mm amortization of prepaid marketing expense and ~\$7mm payroll taxes related to SBC
- LivePerson: includes ~\$12mm goodwill impairment, ~\$9mm litigation costs, ~\$7mm leadership transition costs, ~\$7mm change in FV of contingent consideration and ~\$3mm impairment of intangibles



Ad Tech

MarTech

Appendix B: MarTech Recent Quarter EBITDA Detail (4 / 4)

\$ in USDmm	QuinStreet	T SEMRUSH	🛐 shopify	🔇 similarweb	💦 sprinklr	💋 sproutsocial	🍘 SQUARESPACE	TechTarget	🔅 twilio	WiX	(Ye) XT	Z zoominfo
Net Income	(\$11)	\$4	\$718	(\$5)	\$17	(\$23)	(\$16)	\$2	(\$142)	\$7	(\$0)	\$30
(+) Interest (income) expense, net	(\$0)	(\$2)	(\$606)	(\$1)	(\$6)	(\$1)	\$9	(\$3)	_	(\$15)	(\$2)	\$12
(+) Income tax provision (benefit)	\$1	\$1	\$10	(\$1)	\$3	\$1	\$41	\$7	\$2	\$1	\$0	\$29
(+) D&A	\$5	\$2	\$13	\$3	\$4	\$1	\$10	\$5	\$73	\$6	\$4	\$5
EBITDA	(\$5)	\$4	\$135	(\$4)	\$17	(\$22)	\$44	\$11	(\$67)	(\$0)	\$2	\$76
(+) SBC (excl. assoc. payroll tax)	\$5	\$4	\$102	\$5	\$14	\$19	\$28	\$12	\$185	\$58	\$12	\$43
(+) Transaction costs	_	_	-	-	-	-	_	-	_	_	-	-
(+) Restructuring / acquisition costs	\$0	_	-	-	-	\$4	_	-	\$4	\$4	-	\$5
(+) FX gains (losses)	_	_	-	-	-	-	_	-	_	_	-	-
(+) Other (income) expense, net	_	_	-	-	-	-	(\$6)	-	_	_	\$0	(\$8)
(+) Other adjustments	_	_	\$47	\$0	-	(\$0)	_	(\$5)	\$88	\$0	-	\$15
Adjusted EBITDA	\$1	\$9	\$284	\$2	\$31	\$1	\$66	\$17	\$209	\$62	\$14	\$131
Broker Estimates (Median)	\$0	\$3	\$176	(\$2)	\$20	(\$2)	\$63	\$17	\$156	\$43	\$12	\$130

Other Adjustments Detail

- **Shopify:** includes \$38mm impairment of right-of-use assets, \$8mm provision for transaction and loan losses and \$1mm tax impact of non-GAAP adjustments
- SproutSocial: includes ~\$1mm amortization of acquired intangibles
- TechTarget: includes (\$5mm) gain on early extinguishment of debt

- Twilio: includes \$31mm share of losses from equity method investment, (~\$28mm) tax impact of non-GAAP adjustments, ~\$18mm amortization of deferred CAC, ~\$6mm impairment of right-of-use assets, ~\$3mm payroll taxes related to SBC, ~\$3mm impairment of long-lived asset, ~\$1mm of charitable contributions and less than \$1mm in amortization of debt offering costs,
- **ZoomInfo:** includes \$15mm amortization of acquired intangibles and less than \$1mm related to the impact of FV adjustment to acquire unearned revenue



MarTech

Appendix C: Select Capitalization and Calendarization Detail

Select Capitalization Detail – 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 06/3
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 co

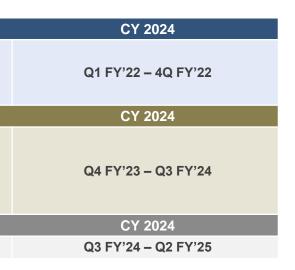
Calendar Year Reconciliation

Company	Fiscal Year End	Applicable Fiscal Quarters							
FYE January 31 st		CY 2021	CY 2022	CY 2023					
Braze	January 31 st								
Sprinklr	January 31 st	Q1 FY'22 – Q4 FY'22	Q1 FY'23 – Q4 FY'23	Q1 FY'24 – 4Q FY'24					
Yext	January 31 st								
FYE March 31 st		CY 2021	CY 2022	CY 2023					
Affle	March 31 st								
Digital Turbine	March 31 st								
Coveo	March 31 st	Q4 FY'20 – Q3 FY'21	Q4 FY'21 – Q3 FY'22	Q4 FY'22 – Q3 FY'23					
LiveRamp	March 31 st								
FYE June 31 st		CY 2021	CY 2022	CY 2023					
QuinStreet	June 31 st	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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