

TECHNOLOGY, MEDIA & TELECOM INTERNET & DIGITAL MEDIA SECTOR REVIEW | 3Q 2019



HARRIS WILLIAMS OVERVIEW

HARRIS WILLIAMS ("HW") GLOBAL ADVISORY PLATFORM



HW TECHNOLOGY, MEDIA & TELECOM ("TMT") GROUP FOCUS AREAS

VERTICAL FOCUS AREAS

- Compliance Software
- CRM and Member Management Software
- Data and Analytics
- Enterprise Software
- Human Capital Management
- Infrastructure and Security Software
- IT and Tech Enabled Services
- Managed Services, Hosting, **Data Center Solutions**
- Online Marketing, Data, and Research

HORIZONTAL FOCUS AREAS

- Architecture, Engineering, Facilities and Real Estate and Construction
- eCommerce and Retail Software
- Education Technology
- Energy Technology
- Technology
 - Financial Technology
 - Government Technology
 - Healthcare IT
- Industrial and Supply Chain Software

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TMT CONTACTS

UNITED STATES

Mike Wilkins Managing Director mwilkins@harriswilliams.com

Tyler Dewing Managing Director tdewing@harriswilliams.com

Sam Hendler Managing Director shendler@harriswilliams.com

EUROPE

Thierry Monjauze Managing Director tmonjauze@harriswilliams.com

TO SUBSCRIBE PLEASE EMAIL:

*tmt_reader@harriswilliams.com



$SELECT \ IDM \ M\&A \ TRANSACTIONS - 3Q \ 2019^1$

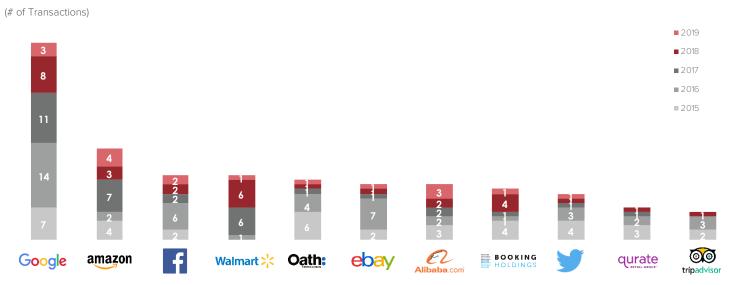
Closed September 30, 2019	Blackstone's acquisition of Vungle
	 Vungle provides a performance marketing platform that enables publishers to generate revenue through in-app video advertisements
Blackstone Vungle	The Company partners with publishers of more than 60,000 mobile apps worldwide, serving more than 4 billion video views per month
	• The investment represents a new platform for Blackstone in a segment of the internet economy that continues to grow quickly and attracts a wider audience
Closed August 28, 2019	Accenture's acquisition of Analytics8
0.0000 / 1.0 / 2010	Analytics8 provides data management, reporting and visualization, data science, and analytics services
accenture Analytics8	• The Analytics8 team is based in Australia and comprised of 70 professionals with deep technical expertise and experience advising clients across a range of industries
accentare many acce	• The acquisition of Analytics8 further deepens Accenture's technical abilities, bolstering its applied intelligence capabilities and helping customers further leverage data and analytics to transform businesses
	Etsy's acquisition of Reverb
Closed August 21, 2019	Reverb provides an online marketplace designed for new, used, and vintage music gear
Etsy Reverb	• Reverbs platform leverages transaction data to determine the market value of instruments, enabling consumers to buy and sell them in an easy and affordable manner
Lisy Revero	• The acquisition enables Etsy to immediately become a leader in a new vertical with a rooted user base, while also focusing on its core business model, connecting buyers and sellers
Announced August 8, 2019	Ropers' pending acquisition of Ipipeline
	• iPipeline provides cloud-based software solutions for the life insurance and financial services industries
	 iPipeline's platform is used by approximately 150 carriers, 1,350 distributors and financial institutions, and their agents and licensed advisors in a cloud-based environment
INSURANCE ACCELERATED	 Roper's acquisition of iPipeline fits well within its strategy of finding category leaders in a niche markets and the acquisition will provide a long-term foundation to further develop iPipeline's proprietary technology platform
Closed August 12, 2019	Syndigo's acquisition of Sellpoints
	 Sellpoints provides an eCommerce optimization platform that allows brands to tell product stories that inform, inspire, and engage their customers using interactive "hotspots" that contain key product content
syndigo sellpoints	 The combined product offerings will integrate rich media and other enhanced content on the product detail page, delivering solutions that will enable brands and retailers to provide their customers with added transparency and information
	• With the acquisition of Sellpoints, Syndigo enhances its content analytics capabilities and positions the combined entity to

receive greater wallet share by going to market with the combined offering

IDM ACQUISITION ACTIVITY

MOST ACTIVE STRATEGIC ACQUIRERS OF IDM ASSETS BY VOLUME²

- Strategics are continuing to pay a premium for assets that align with their corporate strategies; notably Salesforce's acquisition of Tableau.
- The most active strategic acquirers of IDM assets made a combined five acquisitions in 3Q 2019, the annualized 2019 total of 34 is just ahead of the 30 acquisitions made in 2018.



MOST ACTIVE PRIVATE EQUITY BUYERS OF NEW IDM PLATFORMS BY VOLUME²

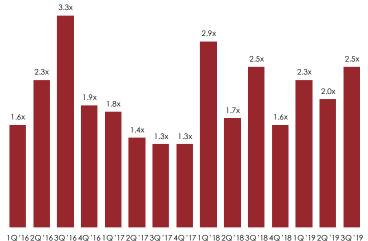
- The 10 most active private equity investors in IDM assets remained notably active with 10 acquisitions completed in 3Q 2019 slightly down from 12 acquisitions in 2Q 2019.
- Providence Equity Partners remains one of the more prolific acquirers of new IDM platforms, logging two additional IDM acquisitions in 2Q 2019 (I'Car Systems-DATAFIRST and Chatmeter).



$Online \ Marketing - M\&A \ Market \ Summary$

ONLINE MARKETING M&A VOLUME² (GLOBAL)

MEDIAN M&A REVENUE MULTIPLES² (REPORTED)



NOTABLE ONLINE MARKETING M&A TRANSACTIONS^{2,3}

 Microsoft's acquisition of PromotelQ adds greater marketing technology capabilities to Microsoft's offering and enables it to better serve customers as they expand their eCommerce business.

Online Marketing M&A increased

quarter-over-quarter rising above

in volume from the previous

Median multiples increased 25%

the historical mean.

quarter.

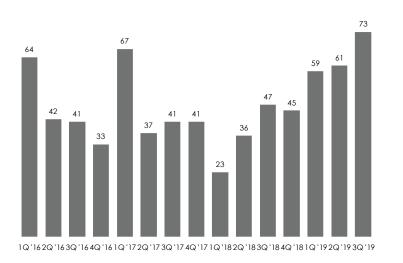
Providence's acquisition of Chatmeter highlights private equity investors' desire to invest in businesses that have strong growth prospects and unique offering that could be lucrative when exiting the business.

DATE CLOSED	Acquirer	Target	DESCRIPTION	Enterprise Value (MM)	Revenue Multiple
			Online Marketing		
Pending	Vista Equity Partners	Acquia	Provider of a cloud-based content management platform designed to optimize digital experiences.	\$1,000	NA
Pending	Taboola	Outbrain	Provider of a video content discovery platform created to grow online costumer traffic.	\$850	NA
Pending	Innocean Worldwide	Wellcom Group	Provider of advertising and marketing content production and management services.	\$264	NA
Pending	Giant Partners	Worxstudio	Provider of web development, marketing strategy, and search engine optimisation services.	NA	NA
9/30/2019	The Blackstone Group	Vungle	Provider of a performance marketing platform intended for in-app video advertisements.	NA	NA
9/25/2019	Temenos	Kony	Provider of enterprise applications designed to help businesses better engage with their customers.	\$580	NA
9/19/2019	Rokt	OfferLogic	Provider of post-click marketing automation services.	NA	NA
9/04/2019	Dentsu Aegis Network	MuteSix	Provider of direct-to-consumer marketing services.	NA	NA
8/30/2019	NetWise Data	WhoToo	Provider of customer engagement platform to publishers and marekters.	NA	NA
8/22/2019	Roper Technologies	iPipeline	Provider of a cloud-based software platform designed for sales distribution.	\$1,625	NA
8/20/2019	Req	Internet Marketing	Provider of social media marketing, content marketing, and social advertising services.	NA	NA
8/06/2019	Microsoft	PromotelQ	Provider of an automated vendor marketing platform.	NA	NA
7/09/2019	Providence Equity Partners	Chatmeter	Provider of a local brand management platform designed to provide reputation and local SEO analytics	. NA	NA
7/09/2019	Norwest Venture Partners	Clarus Commerce	Provider of marketing loyalty programs through a proprietary internet service platform.	NA	NA
7/08/2019	InComm (The Blackstone Group)	Meridian Loyalty	Provider of full-service loyalty and engagement programs for large corporations.	NA	NA
MEDIAN				\$850	NA

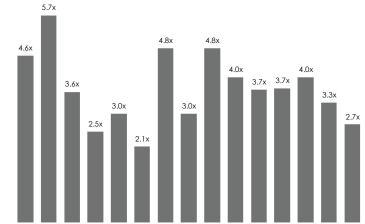
$DATA \ ANALYTICS - M\&A \ MARKET \ SUMMARY$

DATA AND ANALYTICS M&A VOLUME¹ (GLOBAL)

- Data and Analytics M&A registered 73 transactions in 3Q 2019, an increase from the prior quarter.
- Median reported Data and Analytics transaction multiples decreased slightly to 2.7x in 3Q 2019.



MEDIAN M&A REVENUE MULTIPLES¹ (REPORTED)



1Q'162Q'163Q'164Q'161Q'172Q'173Q'174Q'171Q'182Q'183Q'184Q'181Q'192Q'193Q'19

NOTABLE DATA AND ANALYTICS M&A TRANSACTIONS¹

- Data and Analytics remained a key focus area for enterprises in 3Q 2019 as companies increasingly seek data-driven insights and visibility to support critical decision-making.
- Notable 3Q 2019 Data and Analytics transactions include Cisco's pending acquisition of CloudCherry, Salesforce's acquisition of Tableau, and Publicis' acquisition of Epsilon Data Management.

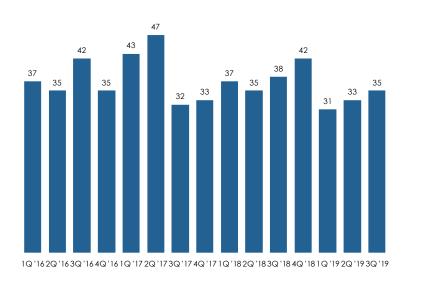
Date Closed	Acquirer	Target	Description	Enterprise Value (mm)	Revenue Multiple
			Data Analytics		
Pending	Wood Mackenzie (Verisk)	Genscape	Provider of real-time data and intelligence for the commodity and energy markets.	\$364	NA
Pending	Cisco Systems	CloudCherry	Provider of customer intelligence and tracking software.	NA	NA
9/28/2019	Sage	Ocrex	Provider of optical character recognition software to automate data entry.	NA	NA
9/16/2019	Spectrum Equity	Datassential	Provider of data, intelligence, and market research for the food service industry.	NA	NA
9/11/2019	KKR	Burning Glass Technologies	Provider of resume parsing, job matching, and real-time labor market analytics software.	NA	NA
9/10/2019	Apax Digital	MetaMetrics	Provider of data solutions to measure and scale reading, listening, and math levels for students.	NA	NA
9/06/2019	Valence Media	Nielsen (Music-Industy Data Unit)	Provider of data and analytics software for the music industry.	NA	NA
8/30/2019	Accenture	Analytics8	Provider of data management, reporting and visualization, data science, and analytics solutions.	NA	NA
8/29/2019	Banneker Partners	Dairy	Provider of data management platform for dairy industry businesses.	NA	NA
8/26/2019	Syncsort	Pitney Bowes (Software Solutions Ur	it) Provider of data quality and management software solutions.	\$700	NA
8/21/2019	Syncsort	SQData	Provider of enterprise-class data integration software.	NA	NA
8/13/2019	Battery Ventures	Forest2Market	Provider of data, analytics, and supply chain solutions to the global forest products industry.	NA	NA
8/12/2019	Syndigo (The Jordan Company)	Sellpoints	Provider of an information platform for brands to optimize their eCommerce strategy.	NA	NA
8/06/2019	NIKE	Celect	Provider of a predictive analytics and inventory optimization platform.	NA	NA
7/31/2019	Salesforce	Tableau Software	Provider of a self-service data analytics platform.	\$16,322	NA
Median				\$700	NA

ECOMMERCE - M&A MARKET SUMMARY

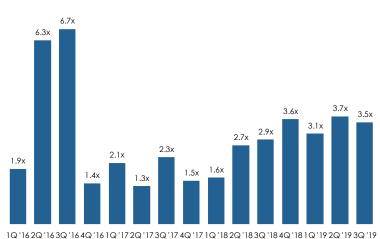
ECOMMERCE M&A VOLUME² (GLOBAL)

 eCommerce M&A volume in 3Q 2019 remained relatively flat at 35 deals.

 The median of the reported multiples for 3Q 2019 decreased slightly to 3.5x.



MEDIAN M&A REVENUE MULTIPLES² (REPORTED)



NOTABLE ECOMMERCE M&A TRANSACTIONS²

- DoorDash's acquisition of Caviar highlights the wave of consolidation that is occurring between competitors in eCommerce. To become more efficient and profitable businesses are scaling their operations through acquisitions.
- Through its purchase of Messagera, Groupon hopes to improve user engagement, which, in turn, would improve usage metrics and revenue generated by each user.

Date Closed	Acquirer	TARGET	DESCRIPTION	ENTERPRISE VALUE (MM)	Revenue Multiple
			eCommerce		
Pending	DoorDash	Caviar	Provider of an online delivery application intended to order food from local eateries.	\$410	NA
Pending	Takeaway.com	Just Eat	Provider of online food ordering services.	\$5,181	NA
Pending	Vacasa	Wyndham Vacation Rentals	Provider of self-catering holiday platform in the United Kingodm.	\$162	NA
Pending	The Riverside Company	Bike24	Provider of an online biking retail store.	NA	NA
Pending	Vista Equity Partners	Monetate	Provider of a cloud-based platform intended to offer innovative eCommerce strategy.	NA	NA
9/18/2019	Blue Acorn	Mediotype	Provider of digital eCommerce services	NA	NA
9/16/2019	Alibaba	Kaola	Provider of a cross-border eCommerce shopping portal.	\$2,000	NA
9/12/2019	Summit Partners	Akeneo	Provider of online product management platform designed to manage.	NA	NA
8/21/2019	Etsy	Reverb	Provider of an online marketplace designed for new, used, and vintage music gear.	\$275	NA
8/08/2019	Groupon	Messagera	Provider of communications platform allowing online retailers to connect with their customers.	NA	NA
8/07/2019	PWP Growth Equity	TickPick	Provider of an online ticketing marketplace to buy and sell tickets.	NA	NA
8/06/2019	Airbnb	Urbandoor	Provider of a housing and accommodation booking platform.	NA	NA
7/24/2019	Otimo Retail	XC Commerce	Provider of a cross-channel promotion and coupon management suite of products.	NA	NA
7/17/2019	Ebix	Yatra	Provider of an Indian consumer travel platform and online travel agent.	NA	NA
7/11/2019	Coveo	Tooso	Provider of a SaaS-based search and discovery platform.	NA	NA
MEDIAN				\$410	NA

TECHNOLOGY, MEDIA & TELECOM

SELECT RECENT IDM PRIVATE PLACEMENTS^{1,2}

DATE	COMPANY	SECTOR	ROUND	ROUND SIZE (\$MM)	TOTAL RAISED (\$MM)	INVESTORS (CURRENT ROUND)	DESCRIPTION
9/26/19	∽booksy	eCommerce	В	\$29	\$49	Industry Ventures, Piton Capital, XG Ventures	Provider of a cloud- based platform designed to schedule appointments for beauty services.
9/24/19	Splio	Online Marketing	Late Stage	\$11	\$22	Ring Capital, Swen Capital Partners, BPI France and Amundi PEF	Provider of a customer platform for marketers.
9/10/19	🛞 Swiftly	Online Marketing	Seed	\$16	\$31	Novel Private Equity, Mendacre and other private investors	Provider of a technology platform for supermarkets, helping brick-and- mortar stores reach their customers through features traditionally associated with e-commerce.
9/5/19	GROVE collaborative	eCommerce	D	\$150	\$1,000	Norwest Venture Partners, General Atlantic, NextView Partners	Provider of a household product marketplace.
8/27/19	ENJOY	eCommerce	С	\$150	\$373	L Catterton, Riverwood Capital, TriplePoint Capital Growth	Provider of a personal eCommerce platform for electronic products and gadgets.
8/24/19	ThoughtSpot	Data Analytics	E	\$248	\$557	Lightspeed Venture Partners, Silver Lake Management, Geodesic Capital and Sapphire Ventures	Provider of a next-generation enterprise analytics platform designed to easily analyze complex, large-scale enterprise data with an automatic, relational search engine.
8/21/19	THREDUP	eCommerce	F	\$175	\$338	Irving Investors, Park West Asset Management, Redpoint Ventures, Highland Capital Partners, Upfront Ventures, DG Incubation and Goldman Sachs Investment Partners	Provider of an online clothing retail platform designed to offer thrift shopping online.
8/5/19	scale	Data Analytics	С	\$100	\$123	Founders Fund, Spark Capital, Thrive Capital, Accel, Index Ventures (UK) and Coatue Management	Provider of an interface platform intended to annotate a wide range of data from images to LiDAR and RADAR data, to text, for training artificial intelligence applications.
8/1/19	Wish	Data Analytics	Н	\$300	\$1,800	General Atlantic, Reform Ventures and Manhattan Venture Partners and 137 Ventures	Provider of a mobile e-commerce platform designed to sell items directly from the manufacturer.
7/30/19	COMPASS	eCommerce	G	\$370	\$1,480	SoftBank Investment Advisers, Alumni Ventures Group, Dragoneer Investment Group and Canada Pension Plan Investment Board	Provider of a real estate platform used for selling, buying or renting a property.
7/30/19	HIPCAMP	Online Marketing	Late Stage	\$25	\$127	Andreesen Horowitz, August Capital, Marcy Venture Partners	Provider of an online travel service platform to help book camping experiences.
7/17/19	TURO	eCommerce	E	\$250	\$450	IAC/InterActiveCorp	Provider of an online car rental marketplace that enables local car owners to list their cars and travelers to rent them for local pickup, city delivery, and airport delivery.
7/17/19	<u>Alpha</u> Sense	Data Analytics	В	\$50	\$87	Innovation Endeavors, Soros Fund Management and undisclosed investors	Provider of a financial search engine designed to find critical information.
7/13/19	👌 Lightricks	eCommerce	С	\$135	\$205	Goldman Sachs Private Capital, Insight Partners and ClalTech	Provider of subscription-based content creation apps Facetune and Enlight.

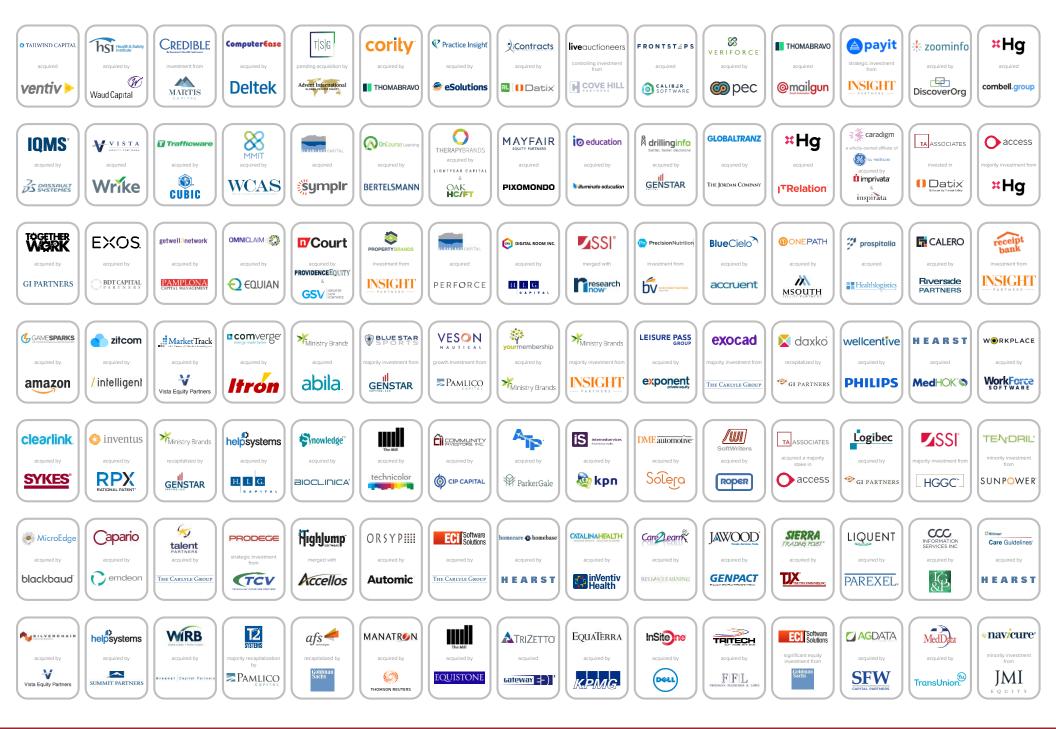
Note: Financial information presented above represents reported capital raised only.

PUBLIC IDM VALUATION MULTIPLES BY SECTOR²

STOCK PERFORMANCE (1- & 3-YEAR) REVENUE MULTIPLE COMPARISON 3Q 2018 VS. 3Q 2019 8.9x ■ FQ32018 FQ32019 ■1-Year Performance ■ 3-Year Performance 8.1x 7.5x 8.3% Social Media 6.9x _{6.8x} 6.9x 37.7% 6.4x 6.2x 5.9x 5.8x Diversified/Marketing Cloud 108.1% 5.3x 4.9x 5.0x 5.0x 4.5x 4.6x 4.4x Subscription Data 80.1% 4.0x 4.0x 3.3x 3.0x 2.9x Internet Bellwethers 51.9% 2.6x 2.6x 2.1x 2.1x 2.1x 27.6% 1.6x Diversified Data 1.3x 1.4x 63.2% .0x Advertsiting Networks/Search Portals (11.1%) Digital Media & Online Content Advertaiting Networks Search Portals Diversified Marketing Cloud Flosh Sales | Promotional | Coupons , Internet Bellwethers . Vertical eCommerce subscription Data Consumer Data Digital Marketing *Walketblace* Gaming Agencies 7 7% Consumer Data 61.2% (17.3%) Travel (3.9%) EBITDA MULTIPLE COMPARISON 3Q 2018 VS. 3Q 2019 (10.2%) Digital Media & Online Content 50.0% FQ32018 FQ32019 31.4x (9.2%) Gaming 28.7x 50.4% 25.9x 25.7x 25.4x (5.9%) Marketplace 24.0x 13.3% 21.6x 21.5x 21.5x 20.0x 19.5x 18.2x 19.5x 19.3x Vertical eCommerce 19.0x 18.5x 30.5% 16.5x 16.0x 17.0x 16.9x 17.3×16.8x 17.5x 16.6x 17.2x 15.9x 14.9x 14.4x (2.9%)Online Advertising 13.3x 69.3% 12.6 (39.5%) 9.6x Flash Sales / Promotional / Coupons (44.8%) 8.8x (9.5%) Agencies (25.5%) (7.2%) Advertsiting Networks/Search Porticils Digital Media & Online Content Flash Sales | Promotional | Coupons Diversified/Marketing Cloud Internet Bellwethers subscription Data Consumer Data Vertical eCommerce Digital Marketing Digital Marketing Warketplace Agencies Gaming 0.0%

TECHNOLOGY, MEDIA & TELECOM

SELECT HW TMT TRANSACTIONS



APPENDIX: IDM SECTOR PUBLIC COMPANY UNIVERSE²

	Internet Bellwethers	Alphabet	Amazon.com	Facebook							
bu	Diversified / Marketing Cloud	Microsoft	Oracle	IBM	SAP	Adobe	salesforce.com	HubSpot			
arketi	Agencies	WPP	Omnicom Group	Publicis Groupe	Dentsu	Interpublic Group					
Online Marketing	Online Advertising	GoDaddy	Wix.com	Endurance International	Tucows	Marchex					
Ō	Advertising Networks / Search Portals	Alphabet	Baidu	Yahoo (Z Holdings)	NAVER	Yandex					
, S	Consumer Data	Experian	Nielsen	Equifax	Alliance Data	TransUnion	Fair Isaac	LiveRamp Holdings			
Dala & Analytics	Diversified Data	Thomson Reuters	IHS Markit	Verisk Analytics	Informa						
4	Subscription Data	S&P Global	Moody's	Wolters Kluwer	Gartner	MSCI	FactSet	Morningstar	Forrester		
	Marketplace	Amazon.com	Alibaba Group	JD.com	eBay	Rakuten	Qurate Retail	MercadoLibre	Shopify	58.com	Wayfair
rce	Marketplace (cont'd)	LendingClub	Overstock.com								
eCommerce	Travel	Booking Holdings	Ctrip.com	Expedia	TripAdvisor	MakeMyTrip	Trivago	Travelzoo			
e O	Flash Sales / Promotional / Coupons	Groupon	Quotient Technology								
	Vertical eCommerce	GrubHub	Cimpress	Stamps.com	Etsy	Shutterfly	Chegg	Shutterstock	PetMed Express	1-800-FLOWERS.COM	eHealth

Digital Media & Online Content	Tencent	Netflix	Sirius XM	IAC	Pandora	SINA	TechTarget	Leaf Group	Townsquare Media
Social Media	Facebook	Twitter	Snapchat	Weibo	Momo	Match Group	Spark		
Gaming	Nintendo Co.	Activision Blizzard	NetEase	Electronic Arts	Take-Two Interactive	Ubisoft Entertainment	Zynga	GREE	Glu Mobile

APPENDIX: IDM SECTOR PUBLIC COMPANY METRICS²

		Enterprise	Market	% of 52	1-Year Stock	3-Year Stock	Revenu	ue Growth	LTM EBITDA	Ent	terprise Va	lue /	Price /	
Company	Ticker	Value	Capitalization	Week High	Performance	Performance	LTM	NTM	Margin	LTM Rev.	NTM Rev	. LTM EBITDA	Earnings	
				Intern	et Bellwe	ethers								Internet
Amazon.com, Inc.	AMZN	\$888,829	\$858,678	85.3%	(13.3%)	107.3%	21.1%	20.4%	13.1%	3.5x	2.9x	26.8x	72.0x	Bellwether
Alphabet Inc.	GOOG.L	739,163	845,993	94.2%	1.2%	51.9%	19.7%	18.7%	29.3%	5.0x	4.2x	17.0×	24.7x	
Facebook, Inc.	FB	467,848	508,053	85.3%	8.3%	38.8%	29.1%	23.5%	42.7%	7.5x	6.1x	17.5x	30.1x	Diversified
Median		\$739,163	\$845,993	85.3%	1.2%	51.9%	21.1%	20.4%	29.3%	5.0x	4.2×	17.5x	30.1x	Marketing Cl

			D	iversifie	d/Market	ing Cloue	d							Online
Microsoft Corporation	MSFT	\$1,014,174	\$1,061,551	97.7%	21.6%	141.4%	14.0%	11.3%	43.4%	8.1x	7.2x	18.6x	27.5x	Advertising
Oracle Corporation	ORCL	206,124	180,637	91.0%	6.7%	40.1%	0.1%	2.1%	40.9%	5.2x	5.1x	12.7x	18.0×	
International Business Machines Corporation	IBM	160,982	128,824	94.2%	(3.8%)	(8.5%)	(3.6%)	1.8%	22.1%	2.1x	2.0x	9.4x	15.0x	Advertising Networks/Searc
SAP SE	SAP	136,381	140,411	86.3%	1.8%	33.3%	11.8%	5.6%	25.4%	4.6x	4.4x	18.2x	41.4x	Portals
Adobe Inc.	ADBE	134,213	133,727	88.2%	2.3%	154.5%	24.2%	18.4%	33.5%	12.6x	10.6x	37.6x	NM	
salesforce.com, inc.	CRM	131,896	129,937	88.6%	(6.7%)	108.1%	24.3%	29.3%	14.0%	9.0x	6.9x	NM	NM	Consumer Data
HubSpot, Inc.	HUBS	6,543	6,443	72.9%	0.4%	163.1%	33.9%	25.6%	NM	11.1×	8.8x	NM	NM	
Median		\$136,381	\$133,727	88.6%	1.8%	108.1%	14.0%	11.3%	29.5%	8.1x	6.9x	18.2x	22.7x	

														C I S S S S S S S S S S S S S S S S S S
					Agencies									Subscription Data
Omnicom Group Inc.	OMC	\$22,212	\$17,032	92.1%	15.1%	(7.9%)	(2.6%)	0.5%	15.5%	1.5x	1.5x	9.6x	13.1x	
WPP plc	WPP	24,436	15,801	87.9%	(9.5%)	(43.9%)	0.5%	(22.6%)	10.5%	1.2x	1.6x	11.6x	18.3x	Marketplace
Publicis Groupe S.A.	ENXTPA:PUB	14,284	11,658	79.9%	(12.4%)	(33.0%)	2.0%	9.4%	19.8%	1.4x	1.3x	7.0x	11.0×	
The Interpublic Group of Companies, Inc.	IPG	13,472	8,349	85.9%	(5.7%)	(3.5%)	9.8%	4.6%	16.0%	1.6x	1.5x	9.9x	13.0×	
Dentsu Inc.	4324	12,718	9,923	66.6%	(27.8%)	(25.5%)	6.5%	5.2%	15.9%	1.3x	1.3x	8.3x	13.7x	Travel
Median		\$14,284	\$11,658	85.9%	(9.5%)	(25.5%)	2.0%	4.6%	15.9%	1.4×	1.5x	9.6x	13.1x	naver

				Onlii	ne Advert	ising								Vertical
GoDaddy Inc.	GDDY	\$13,459	\$11,676	77.7%	(20.9%)	91.1%	14.3%	11.7%	11.9%	4.8x	4.3x	40.1x	NM	eCommerce
Wix.com Ltd.	WIX	5,631	5,971	75.0%	(2.5%)	168.8%	32.3%	26.0%	NM	8.3x	6.6x	NM	NM	
Endurance International Group Holdings, Inc.	EIGI	2,332	548	37.3%	(57.4%)	(57.1%)	(3.7%)	(0.3%)	25.7%	2.1x	2.1x	8.1x	NM	Digital Media &
Tucows Inc.	TCX	683	578	60.0%	(2.9%)	69.3%	(5.8%)	7.8%	13.0%	2.1x	1.9x	15.9x	38.4x	Online Conten
Marchex, Inc.	MCHX	90	133	56.4%	12.9%	13.4%	11.5%	6.0%	0.7%	0.9x	0.9x	NM	NM	
Median		\$2,332	\$578	60.0%	(2.9%)	69.3%	11.5%	7.8%	12.4%	2.1x	2.1x	15.9x	38.4x	Cocial Madia
														Social Me

Note: Not Meaningful (NM) represents multiples above 50.0x; Not Available (NA) means the data is unavailable.

Gaming

Agencies

Diversified Data

Flash Sales / Promotional / Coupons

APPENDIX: IDM SECTOR PUBLIC COMPANY METRICS (CONT'D) $^{\rm 2}$

Company Ticke Alphabet Inc. GOOGL NAVER Corporation A03542	r Value \$739,163		rtising N	etworks/S	Performance Search Pc	rtals	NTM	Margin	LTM Rev.	NTM Rev.	LTM EBITDA	Earnings
NAVER Corporation A03542	\$739,163		Ŭ		Search Pc	rtals						
NAVER Corporation A03542	\$739,163	\$845 993	04.20/									
		4010,000	94.2%	1.2%	51.9%	19.7%	18.7%	29.3%	5.0x	4.2x	17.0×	24.7x
	30,255	19,050	98.4%	9.6%	(11.1%)	17.8%	13.0%	17.4%	5.8x	5.1x	33.2x	53.7x
Baidu, Inc. BIDU	28,553	35,816	44.5%	(55.1%)	(43.6%)	11.2%	0.9%	22.4%	1.8x	1.8x	8.1x	15.0x
Yandex N.V. YNDX	23,234	11,445	82.6%	6.4%	66.3%	39.6%	31.8%	25.5%	9.8x	7.4x	38.2x	38.5x
Z Holdings Corporation 4689	13,290	13,478	73.3%	(25.7%)	(24.4%)	4.9%	4.6%	20.1%	1.5x	1.4×	7.4x	21.5x
Median	\$28,553	\$19,050	82.6%	1.2%	(11.1%)	17.8%	13.0%	22.4%	5.0x	4.2×	17.0×	24.7×

				Со	nsumer D	ata								Advertisin
Experian plc	EXPN	\$31,945	\$28,798	98.4%	31.9%	68.3%	6.0%	6.9%	31.0%	6.6x	6.1x	21.2x	44.5x	
Alliance Data Systems Corporation	ADS	27,280	5,900	53.2%	(45.7%)	(40.3%)	13.2%	(22.1%)	23.1%	3.5x	4.6x	15.3x	7.8x	Advertisin Networks/Se
Equifax Inc.	EFX	19,946	17,005	94.7%	7.7%	4.5%	(0.6%)	5.4%	19.8%	5.9x	5.6x	29.6x	NM	Portals
TransUnion	TRU	19,364	15,232	94.9%	10.2%	135.1%	18.7%	10.0%	35.6%	7.8x	7.1x	21.8x	47.2x	
Nielsen Holdings plc	NLSN	16,560	7,558	74.6%	(23.2%)	(60.3%)	(3.2%)	1.4%	21.9%	2.6x	2.5x	11.7×	NM	Consumer
Fair Isaac Corporation	FICO	9,727	8,771	81.3%	32.8%	143.6%	14.7%	7.2%	25.5%	8.5x	7.9x	33.4x	NM	Consumer [
LiveRamp Holdings, Inc.	RAMP	1,962	2,906	67.9%	(13.1%)	61.2%	29.6%	30.7%	NM	6.4x	4.9x	NM	NM	
Median		\$19,364	\$8,771	81.3%	7.7%	61.2%	13.2%	6.9%	24.3%	6.4x	5.6x	21.5x	44.5x	
														Diversif

				Div	versified E	Data								Subscription Da
Thomson Reuters Corporation	TSX:TRI	\$35,097	\$33,522	93.9%	36.4%	48.2%	6.4%	6.4%	18.2%	6.1x	5.8x	33.6x	NM	
IHS Markit Ltd.	INFO	32,305	26,818	97.1%	23.9%	78.1%	12.2%	4.9%	34.4%	7.4x	7.1x	21.5x	NM	Marketplace
Verisk Analytics, Inc.	VRSK	28,937	25,857	95.9%	31.2%	94.6%	8.2%	8.3%	43.9%	11.6x	10.7×	26.5x	44.3x	I Marketplace
Informa plc	INF	16,831	13,117	94.6%	11.8%	19.7%	56.8%	0.1%	31.5%	4.7x	4.7×	14.9x	35.3x	
Median		\$30,621	\$26,337	95.2%	27.6%	63.2%	10.2%	5.7%	33.0%	6.8x	6.4×	24.0×	39.8x	Travel
														liavei

				Sub	scription	Data								Flash Sales / Promotional / Coupons
S&P Global Inc.	SPGI	\$64,800	\$60,339	90.9%	25.4%	93.6%	1.3%	7.2%	49.5%	10.2x	9.5x	20.6x	31.1x	Coupons
Moody's Corporation	MCO	43,944	38,754	91.9%	22.5%	89.2%	(0.7%)	7.1%	46.8%	9.8x	9.1x	20.9x	31.8x	Vertical
Wolters Kluwer N.V.	WKL	21,747	19,202	98.9%	24.8%	75.8%	5.4%	0.7%	27.3%	4.3x	4.3x	15.7x	30.8x	eCommerce
MSCI Inc.	MSCI	20,458	18,443	88.0%	22.7%	159.4%	7.7%	9.1%	52.0%	13.9x	12.7x	26.7×	32.5x	
Gartner, Inc.	IT	15,812	12,889	83.2%	(9.8%)	61.7%	6.4%	9.4%	14.6%	3.9x	3.6x	26.8x	NM	Digital Media &
FactSet Research Systems Inc.	FDS	9,701	9,295	79.6%	8.6%	49.9%	6.3%	4.1%	34.7%	6.8x	6.5x	19.5x	26.8×	Online Content
Morningstar, Inc.	MORN	5,993	6,249	89.9%	16.1%	84.4%	9.1%	(100.0%)	25.7%	5.7x	NA	22.0x	36.1x	
Forrester Research, Inc.	FORR	748	596	62.1%	(30.0%)	(17.4%)	19.6%	19.0%	7.8%	1.8x	1.5x	23.2x	NM	Casial Madia
Median		\$18,135	\$15,666	88.9%	19.3%	80.1%	6.4%	7.1%	31.0%	6.2x	6.5x	21.5x	31.5x	Social Media

Note: Not Meaningful (NM) represents multiples above 50.0x; Not Available (NA) means the data is unavailable.

Gaming

APPENDIX: IDM SECTOR PUBLIC COMPANY METRICS (CONT'D)²

		Enterprise	Market	% of 52	1-Year Stock	3-Year Stock	Revenu	e Growth	LTM EBITDA	En	terprise Vali	ue /	Price /	
Company	Ticker	Value	Capitalization	Week High	Performance	Performance	LTM	NTM	Margin	LTM Rev.	NTM Rev.	LTM EBITDA	Earnings	_
				М	arketplac	ce								Internet
Amazon.com, Inc.	AMZN	\$888,829	\$858,678	85.3%	(13.3%)	107.3%	21.1%	20.4%	13.1%	3.5x	2.9x	26.8x	72.0x	Bellwethers
Alibaba Group Holding Limited	BABA	441,297	435,395	85.4%	1.5%	58.1%	46.2%	27.3%	28.6%	7.4x	5.8x	25.8x	30.1x	
eBay Inc.	EBAY	38,216	32,695	92.8%	18.0%	18.5%	4.1%	1.1%	28.9%	3.5x	3.5x	12.2x	15.0x	Diversified /
JD.com, Inc.	JD	38,026	41,155	87.1%	8.1%	8.1%	22.7%	13.9%	1.4%	0.5x	0.4x	36.8x	NM	Marketing Cloud
Shopify Inc.	SHOP	35,168	35,943	76.1%	89.5%	626.1%	51.9%	36.9%	NM	27.1x	19.8×	NM	NM	
MercadoLibre, Inc.	MELI	26,313	27,402	78.9%	61.9%	198.0%	36.6%	42.4%	2.3%	14.6x	10.3x	NM	NM	
Rakuten, Inc.	4755	15,983	13,340	81.1%	22.3%	(18.8%)	15.7%	12.1%	15.9%	1.5x	1.3×	9.2x	8.2x	Agencies
Qurate Retail, Inc.	QRTE.A	11,896	4,306	41.2%	(53.6%)	NA	13.3%	(0.6%)	14.0%	0.9x	0.9x	6.2x	8.8x	
Wayfair Inc.	W	11,194	10,353	64.5%	(24.1%)	184.8%	40.6%	31.8%	NM	1.4x	1.1x	NM	NM	Online
58.com Inc.	WUBA	6,563	7,331	66.5%	(33.0%)	3.5%	26.4%	12.1%	21.0%	3.1x	2.8x	14.9x	8.5x	Advertising
LendingClub Corporation	LC	1,570	1,140	64.9%	(32.6%)	(57.7%)	(1.1%)	14.4%	NM	2.2x	1.9x	NM	NM	
Overstock.com, Inc.	OSTK	377	374	35.6%	(61.8%)	(30.9%)	(9.6%)	(4.4%)	NM	0.2x	0.2x	NM	NM	Advertising
Median		\$21,148	\$20,371	77.5%	(5.9%)	13.3%	21.9%	14.2%	15.0%	2.6x	2.3x	14.9x	11.9×	Networks/Search Portals
					Travel									Consumer Data
Booking Holdings Inc.	BKNG	\$86,449	\$83,434	94.3%	(1.1%)	33.4%	7.6%	7.7%	38.4%	5.9x	5.4x	15.3x	21.6x	
Expedia Group, Inc.	EXPE	24,404	22,886	93.3%	3.0%	15.2%	8.7%	9.5%	12.0%	2.1x	1.9x	17.6x	33.1x	
Ctrip.com International, Ltd.	CTRP	18,688	17,235	63.0%	(21.2%)	(37.1%)	19.1%	11.7%	13.5%	3.8x	3.4x	28.2x	60.8x	Diversified Data
TripAdvisor, Inc.	TRIP	4,592	5,388	56.1%	(24.3%)	(38.8%)	2.0%	5.1%	16.5%	2.9x	2.7x	17.4×	39.5x	Diversilied Data
MakeMyTrip Limited	MMYT	2,101	2,337	70.2%	(17.3%)	(3.9%)	(21.0%)	59.6%	NM	4.3x	2.7x	NM	NM	
trivago N.V.	TRVG	1,320	1,446	54.5%	(33.3%)	NA	(11.5%)	1.5%	8.3%	1.4x	1.3x	16.5x	36.6x	
Travelzoo	TZOO	130	125	46.8%	(9.8%)	(16.7%)	0.7%	5.0%	11.1%	1.2x	1.1x	10.6x	21.9x	Subscription Data
Median		\$4,592	\$5,388	63.0%	(17.3%)	(3.9%)	2.0%	7.7%	12.7%	2.9x	2.7×	16.9x	34.9x	

			Flash	Sales /	Promotion	nal / Cou	pons							Marketplace
Groupon, Inc.	GRPN	\$1,296	\$1,510	66.5%	(29.4%)	(48.3%)	(9.0%)	(4.8%)	5.1%	0.5x	0.5x	10.1x	NM	
Quotient Technology Inc.	QUOT	611	694	49.8%	(49.5%)	(41.2%)	17.7%	8.9%	3.6%	1.5x	1.4x	40.7x	NM	Travel
Median		\$954	\$1,102	58.2%	(39.5%)	(44.8%)	4.3%	2.0%	4.4%	1.0 x	1.0 x	25.4x	NM	

				Vertic	al eCom	nerce								Flash Sales / Promotional /
Etsy, Inc.	ETSY	\$6,963	\$6,806	77.0%	10.0%	295.7%	41.3%	27.3%	18.4%	9.9x	7.8x	NM	NM	Coupons
Grubhub Inc.	GRUB	5,422	5,135	40.1%	(59.5%)	30.8%	40.9%	31.5%	9.7%	4.6x	3.5x	47.3x	NM	
Chegg, Inc.	CHGG	3,798	3,584	62.1%	5.3%	322.4%	25.7%	24.3%	8.4%	10.5x	8.5x	NM	NM	Vertical
Cimpress N.V.	CMPR	5,164	3,779	94.9%	(3.5%)	30.3%	6.1%	3.6%	11.7%	1.9×	1.8x	16.0×	NM	eCommerce
eHealth, Inc.	EHTH	1,486	1,523	59.5%	136.3%	495.8%	63.0%	30.2%	12.8%	4.8x	3.7x	37.3x	NM	
Shutterstock, Inc.	SSTK	1,072	1,275	65.0%	(33.8%)	(43.3%)	6.0%	5.4%	8.8%	1.7×	1.6x	19.1x	38.8x	Digital Media &
1-800-FLOWERS.COM, Inc.	FLWS	896	955	68.0%	25.4%	61.3%	8.4%	8.1%	6.1%	0.7x	0.7x	11.8×	28.5x	Online Content
Stamps.com Inc.	STMP	1,261	1,278	32.5%	(67.1%)	(21.2%)	13.0%	(11.2%)	29.6%	2.1x	2.4x	7.2x	12.9x	
PetMed Express, Inc.	PETS	277	361	54.0%	(45.4%)	(11.1%)	(2.0%)	0.5%	14.1%	1.0×	1.0×	7.1x	12.2×	Social Media
Median		\$1,486	\$1,523	62.1%	(3.5%)	30.8%	13.0%	8.1%	11.7%	2.1x	2.4x	16.0×	20.7x	

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Gaming

APPENDIX: IDM SECTOR PUBLIC COMPANY METRICS (CONT'D) $^{\rm 2}$

		Enterprise	Market	% of 52	1-Year Stock	3-Year Stock	Revenu	e Growth	LTM EBITDA	Ent	erprise Val	ue /	Price /	
Company	Ticker	Value	Capitalization	Week High	Performance	Performance	LTM	NTM	Margin	LTM Rev.	NTM Rev.	LTM EBITDA	Earnings	
			Dio	gital Med	dia & Onli	ne Contei	nt							Internet
Tencent Holdings Limited	700	409,637	399,949	82.5%	2.2%	55.0%	21.9%	19.9%	36.4%	8.3x	6.9x	22.7x	31.3x	Bellwethe
Netflix, Inc.	NFLX	129,122	117,173	69.2%	(28.5%)	171.6%	27.0%	28.7%	11.1%	7.3x	5.7x	NM	NM	\geq
Sirius XM Holdings Inc.	SIRI	36,417	27,834	96.1%	(1.0%)	50.0%	19.6%	20.0%	32.5%	5.4x	4.5x	16.8×	28.3x	Diversified
IAC/InterActiveCorp	IAC	20,513	18,375	81.1%	0.6%	248.9%	17.4%	14.1%	17.8%	4.6x	4.0×	25.7x	38.6x	Marketing C
Pandora A/S	PNDORA	5,384	3,817	62.4%	(31.5%)	(65.7%)	(1.6%)	(7.5%)	30.9%	1.6x	1.7×	5.1x	6.8x	
SINA Corporation	SINA	3,049	2,726	55.2%	(43.6%)	(46.9%)	11.1%	8.1%	25.2%	1.4x	1.3x	5.7×	19.1x	
Townsquare Media, Inc.	TSQ	737	133	87.5%	(10.2%)	(24.7%)	10.3%	(1.1%)	22.5%	1.7×	1.7×	7.4×	NM	Agencies
TechTarget, Inc.	TTGT	636	623	89.6%	16.0%	179.5%	8.3%	10.2%	17.9%	5.0x	4.5x	28.0×	47.0x	
Leaf Group Ltd.	LEAF	109	109	40.7%	(58.0%)	(26.2%)	11.0%	8.1%	NM	0.7x	0.6x	NM	NM	Online
Median		\$5,384	\$3,817	81.1%	(10.2%)	50.0%	11.1%	10.2%	23.9%	4.6x	4.0×	16.8×	29.8x	Advertisin

				S	ocial Med	ia								Concumer Data
Facebook, Inc.	FB	\$467,848	\$508,053	85.3%	8.3%	38.8%	29.1%	23.5%	42.7%	7.5x	6.1x	17.5x	30.1x	Consumer Data
Twitter, Inc.	TWTR	28,701	31,774	89.8%	44.8%	78.7%	22.2%	16.3%	24.7%	8.7x	7.5x	35.3x	13.6x	
Match Group, Inc.	MTCH	22,567	20,073	74.9%	23.4%	301.6%	20.2%	21.5%	33.0%	12.1x	10.0x	36.7×	42.6x	
Snap Inc.	SNAP	20,967	21,793	86.1%	86.3%	NA	41.5%	41.2%	NM	15.0×	10.6x	NM	NM	Diversified Data
Weibo Corporation	WB	9,416	10,070	59.9%	(38.8%)	(10.7%)	20.3%	7.5%	36.8%	5.3x	4.9x	14.4x	17.3x	
Momo Inc.	MOMO	5,760	6,432	69.5%	(29.3%)	37.7%	39.9%	11.4%	20.0%	2.6x	2.3x	12.8x	20.4x	
Spark Networks SE	LOV	197	144	31.4%	(51.5%)	NA	4.4%	89.6%	5.1%	1.7×	0.9x	33.8x	NM	Subscription Data
Median		\$20,967	\$20,073	74.9%	8.3%	37.7%	22.2%	21.5%	28.8%	7.5x	6.1x	25.7x	20.4×	

					Gaming									Turk
Activision Blizzard, Inc.	ATVI	\$39,109	\$40,591	62.5%	(36.4%)	19.5%	(2.1%)	(8.6%)	33.2%	5.5x	6.0x	16.6x	24.2x	Travel
Nintendo Co., Ltd.	7974	35,718	44,104	93.2%	(3.5%)	50.4%	12.6%	9.0%	21.3%	3.2x	2.9x	15.0×	26.6x	
NetEase, Inc.	NTES	29,006	34,061	91.9%	16.6%	10.5%	28.3%	(11.3%)	18.6%	2.7x	3.0x	14.5x	27.0x	Flash Sales /
Electronic Arts Inc.	EA	24,962	28,828	80.6%	(18.8%)	14.5%	3.8%	5.0%	25.2%	5.0x	4.7x	19.7×	13.8x	Promotional /
Take-Two Interactive Software, Inc.	TTWO	12,030	13,425	89.6%	(9.2%)	178.0%	60.0%	(0.7%)	9.0%	4.3x	4.3x	47.2x	46.5x	Coupons
Ubisoft Entertainment SA	ENXTPA:UBI	8,359	8,039	66.0%	(29.0%)	97.4%	6.6%	18.7%	13.3%	4.0x	3.4x	30.3x	NM	Vertical
Zynga Inc.	ZNGA	5,323	5,480	87.5%	45.1%	100.0%	19.3%	31.6%	NM	5.1x	3.8x	NM	NM	eCommerce
Glu Mobile Inc.	GLUU	692	728	42.5%	(33.0%)	122.8%	16.0%	11.2%	3.1%	1.8x	1.6x	NM	NM	
Gree, Inc.	3632	267	1,048	90.8%	(8.2%)	(12.9%)	(9.0%)	3.2%	9.0%	0.4x	0.4x	4.5x	33.3x	Digital Media &
Median		\$12,030	\$13,425	87.5%	(9.2%)	50.4%	12.6%	5.0%	16.0%	4.0×	3.4x	16.6x	26.8x	Online Conten

Social Media

Advertising Networks/Search Portals

Marketplace

Gaming

Note: Not Meaningful (NM) represents multiples above 50.0x; Not Available (NA) means the data is unavailable.

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HARRIS WILLIAMS OFFICE LOCATIONS

UNITED STATES

Boston

One International Place Suite 2620 Boston, Massachusetts 02110 Phone: +1 (617) 482-7501

Cleveland

1900 East 9th Street 20th Floor Cleveland, Ohio 44114 Phone: +1 (216) 689-2400

Minneapolis

222 South 9th Street Suite 3350 Minneapolis, Minnesota 55402 Phone: +1 (612) 359-2700

Richmond (Headquarters)

1001 Haxall Point 9th Floor Richmond, Virginia 23219 Phone: +1 (804) 648-0072

San Francisco

575 Market Street 31st Floor San Francisco, California 94105 Phone: +1 (415) 288-4260

Washington, D.C.

800 17th St. NW 2nd Floor Washington, D.C. 20006 Phone: +1 (202) 207-2300

EUROPE

Frankfurt

Bockenheimer Landstrasse 33-35 60325 Frankfurt Germany Phone: +49 069 3650638 00

London

25 Savile Row 4th Floor London W1S 2ER, England Phone: +44 (0) 20 7518 8900

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SOURCES

- 1. Pitchbook.
- 2. CaplQ.
- 3. HW Proprietary transaction information.
- 4. PNC Capital Markets.
- 5. S&P LCD Stats.

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