

# Q2: Quarterly Industry Update

AS OF June 30, 2019



## Predictive Analytics

### INDUSTRY SUMMARY

COGENT VALUATION identified **Predictive Analytics** publicly traded companies, IPOs, and recent M&A transactions within the Predictive Analytics industry, which provides a basis for market and transaction pricing that can be used by your firm in estimating market sentiment and its impact on your firm's value. Over the last year since June 30, 2018, the median 52-week share price return of the Predictive Analytics industry was 13.4%. Between June 30, 2017 and June 30, 2019, the median EV/EBITDA multiple increased from 16.6 to 18.8. Furthermore, the median price-to-earnings multiple increased from 25.1 to 40.9 over the same period. The median revenue growth and EBITDA margins for the industry for the quarter were 2.2% and 10.4%, respectively.

### Public Company Key Statistics

Median 52-Week  
Return

13.4%

Median 3-Year CAGR  
Return

18.5%

Median EV/Revenue  
Multiple

3.4x

Median EV/EBITDA  
Multiple

3.4x

Median Price/Earnings  
Multiple

40.9x

Median EV/Gross CF  
Multiple

35.1x

## Comparable Public Company Market Price Returns as of June 30, 2019

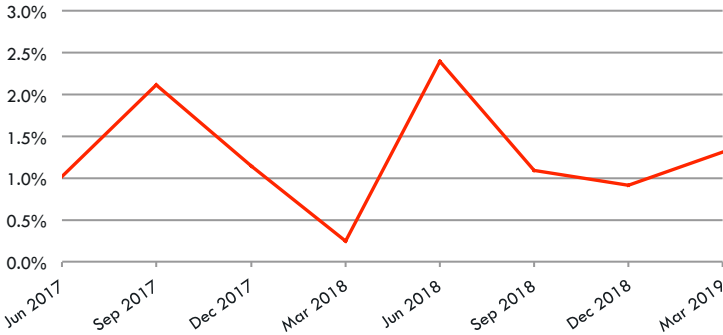
	2019	3 Month	1 Year	2 Year	2018	2017	2016	2015
<b>Brightcove Inc.</b>	-17.6%	-17.6%	-20.2%	14.8%	2.8%	28.1%	3.2%	-45.2%
<b>Fair Isaac Corporation</b>	-2.1%	-2.1%	-21.9%	7.0%	-11.8%	29.8%	-20.3%	-45.0%
<b>MicroStrategy Incorporated</b>	-15.5%	-15.5%	11.5%	-16.8%	-9.8%	-23.3%	-11.4%	62.3%
<b>NetScout Systems, Inc.</b>	10.6%	10.6%	31.3%	27.5%	28.5%	26.6%	30.3%	15.1%
<b>NICE Ltd.</b>	-1.8%	-1.8%	-31.3%	-14.4%	-33.5%	10.1%	10.4%	30.7%
<b>Open Text Corporation</b>	-13.5%	-13.5%	-30.6%	-0.4%	-3.3%	2.6%	-16.0%	23.5%
<b>Pegasystems Inc.</b>	1.0%	1.0%	39.1%	26.6%	35.2%	18.4%	13.9%	23.4%
<b>PROS Holdings, Inc.</b>	-2.4%	-2.4%	2.3%	22.0%	15.4%	29.0%	-17.7%	26.7%
<b>Verint Systems Inc.</b>	28.6%	28.6%	38.3%	30.9%	31.0%	30.9%	32.4%	-15.5%
<b>Median of Industry Public Companies</b>	24.8%	24.8%	36.5%	7.1%	22.9%	18.4%	-11.4%	23.4%

Multiple year periods are calculated as the average annual return.

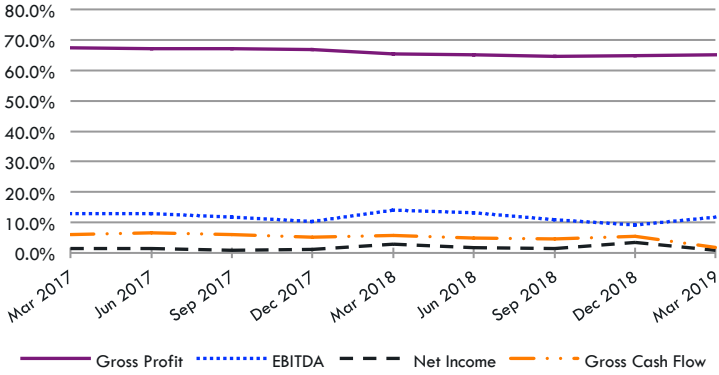
■ Highest Return   
 ■ Lowest Return   
 ■ Median Return

# Industry Revenue Growth and Profit Margins for the Past Two Years

### Median Quarterly Revenue Growth of All Predictive Analytics Companies



### Median Gross Profit, EBITDA, Net Income, and Gross Cash Flow Margins



## Public Company Median Multiples by Quarter

	6/30/19	3/31/19	12/31/18	9/30/18	6/30/18	3/31/18	12/31/17	9/30/17
<b>EV/Revenues Multiple</b>	3.4x	3.5x	3.5x	3.3x	3.6x	3.4x	3.4x	2.8x
<b>EV/EBITDA Multiple</b>	18.8x	18.2x	18.5x	18.5x	22.0x	20.4x	20.5x	19.2x
<b>Price/Earnings Multiple</b>	40.9x	40.5x	39.4x	53.6x	35.6x	30.7x	26.9x	27.0x
<b>EV/Gross Cash Flows Multiple</b>	35.1x	33.6x	36.8x	50.3x	34.6x	30.6x	32.2x	26.8x

■ Highest Multiple   
 ■ Lowest Multiple   
 ■ Median Multiple

## Industry Initial Public Offerings—Predictive Analytics (dollars in millions, except share prices)

Offer Date	Company Name	Offer Price	Shares Offered	Amount Raised	Total Assets	Debt	LTM Revenues	LTM EBITDA	LTM Net Income	LTM Cash Flows
5/4/19	<b>TransUnion</b>	\$22.50	29.5	\$664.8	\$4,614.3	\$2,976.4	<b>\$1,354.4</b>	\$398.9	(\$4.4)	\$629.4
11/8/18	<b>Brightcove Inc.</b>	\$11.00	5.0	\$55.0	\$47.3	\$7.0	\$63.6	(\$14.0)	(\$17.6)	(\$11.9)
9/7/17	<b>PROS Holdings, Inc.</b>	\$11.00	6.8	\$75.1	\$25.7	\$20.0	<b>\$49.9</b>	\$9.5	\$8.3	\$10.7
6/26/07	<b>comScore, Inc.</b>	\$16.50	5.3	\$87.5	\$45.5	\$3.3	\$70.0	\$11.4	\$7.1	\$14.4
12/12/06	<b>Guidance Software, Inc.</b>	\$11.50	5.0	\$57.5	\$26.6	\$2.0	\$51.2	(\$0.3)	(\$1.8)	\$1.4
11/10/05	<b>IHS Markit Ltd.</b>	\$16.00	14.5	\$232.2	\$743.0	\$0.3	\$468.5	\$63.5	\$52.4	\$73.6
<b>Median of all IPOs</b>		<b>nm</b>	<b>5.6</b>	<b>\$81.3</b>	<b>\$46.4</b>	<b>\$5.2</b>	<b>\$66.8</b>	<b>\$3.1</b>	<b>\$2.7</b>	<b>\$12.6</b>

Multiple year periods are calculated as the average annual return.

■ Highest Return   
 ■ Lowest Return   
 ■ Median Return

## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/ Revenues
4/30/19	Angoss Software Corp.	Datawatch Corporation	\$32.7	100%	\$10.2	2.8x
11/26/18	automotiveMastermind, Inc.	IHS Markit Ltd.	\$435.0	100%	N/A	N/A
8/14/17	MacroPoint, LLC	The Descartes Systems	\$106.6	100%	N/A	N/A
4/12/17	Tollgrade Communications, Inc.	Enghouse Systems Limited	\$17.3	100%	N/A	N/A
10/16/15	Datamyx LLC	Deluxe Corp.	\$160.0	100%	N/A	N/A
9/30/15	Unruly Group Limited	News Corp UK & Ireland	\$176.8	100%	N/A	N/A
8/3/15	1010data, Inc.	Advance Communication	\$500.0	100%	\$2.0	10.0x
11/3/14	Evolv, Inc.	PTC Inc.	\$600.0	100%	\$6.1	7.3x
10/31/14	QuantiSense, Inc.	Market Resource Partners	\$20.0	100%	N/A	N/A
2/28/14	KnowledgeAdvisors, Inc.	Corporate Executive Board	\$45.0	100%	N/A	N/A
1/29/14	Rationalwave, Inc.	Bottomline Technologies	\$8.0	100%	N/A	N/A
1/22/14	Scout Analytics, Inc.	ServiceSource International	\$32.5	100%	\$5.4	6.0x

■ USA
 ■ International

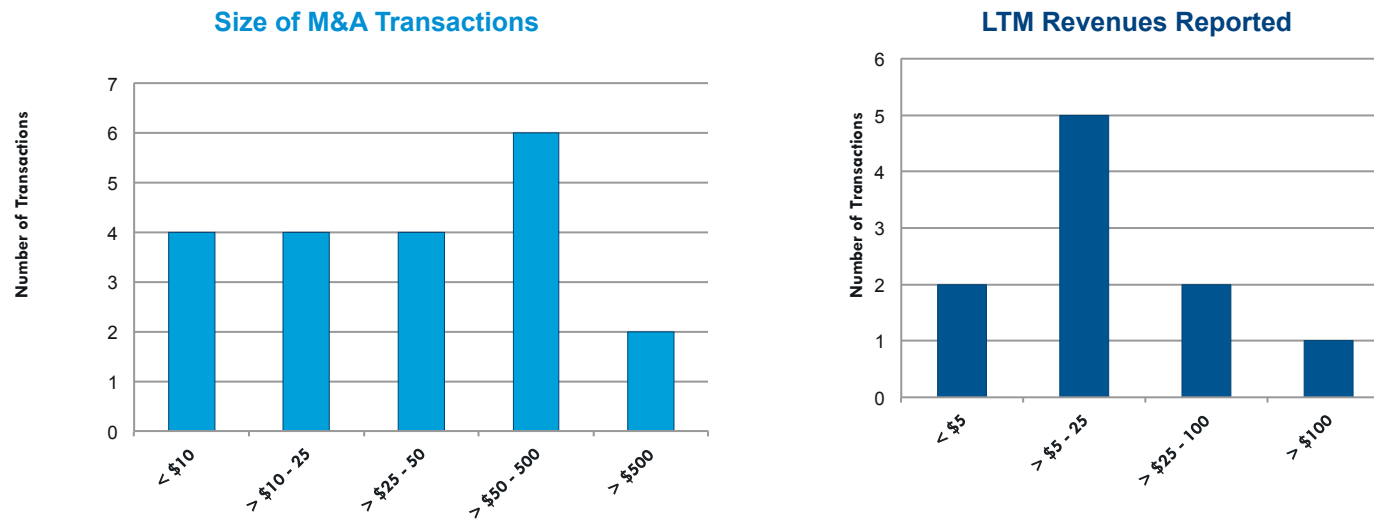
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## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

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Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/ Revenues
1/14/14	Zinnov, LLC	Corporate Executive Board	\$8.0	100%	N/A	N/A
12/25/13	Dentsu Marketing Insight	Macromill, Inc.	\$4.1	51%	\$55.8	0.1x
9/12/13	Molecular Profiles Ltd.	Columbia Laboratories	\$25.4	100%	\$9.0	2.8x
8/28/13	Panopticon Software AB	Datawatch Corporation	\$27.5	100%	\$5.0	5.5x
7/22/13	Neolane SAS	Adobe Systems	\$616.5	100%	\$58.2	10.6x
4/25/13	Angoss Software Corp.	Peterson Partners LP	\$8.5	100%	\$7.0	1.1x
12/27/12	(m)PHASIZE, LLC	Sapient Corp.	\$18.2	100%	N/A	N/A
10/21/11	Algorithmics, Inc.	OpenPages, Inc.	\$380.2	100%	\$163.7	2.3x
	Median of the M&A Transaction Targets		\$33.2	100%	\$7.0	5.5x

## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of June 30, 2019





**Definitions of Financial Terms Used in this Quarterly Industry Update:**

**Enterprise Value (EV):** Market Value of Equity + Market Value of Debt —Cash

**Earnings Before Interest, Taxes, Depreciation and Amortization (EBITDA):** Referred to as operating profit or operating earnings.

**Gross Cash Flows:** Net Income + Depreciation and Amortization Expense

**Latest Twelve Months (LTM):** Financial information is as of the latest twelve months through the date of this Quarterly Industry Update.

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