

## 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, 2016, the median 52-week share price return of the Predictive Analytics industry was 22.8%. Between June 30, 2015 and June 30, 2017, the median EV/EBITDA multiple increased from 18.1 to 22.1. Furthermore, the median price-to-earnings multiple increased from 31.9 to 33.2 over the same period.

### Public Company Key Statistics

Median 52-Week  
Return

22.8%

Median 3-Year CAGR  
Return

6.2%

Median EV/Revenue  
Multiple

3.1x

Median EV/EBITDA  
Multiple

22.1x

Median Price/Earnings  
Multiple

33.2x

Median EV/Gross CF  
Multiple

39.4x

## Comparable Public Company Market Price Returns as of June 30, 2017

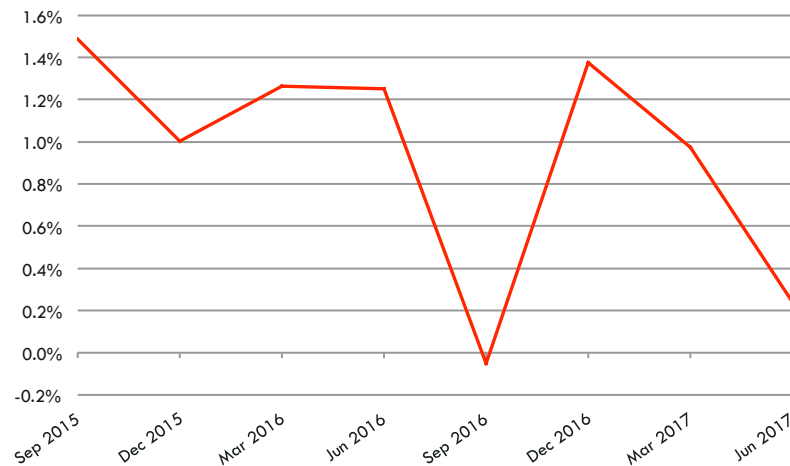
	YTD	3 Month	1 Year	2 Year	3 Year	2016	2015	2014
<b>Acxiom Corporation</b>	-3.1%	-8.7%	18.1%	21.6%	6.2%	28.1%	3.2%	-45.2%
<b>Brightcove Inc.</b>	-23.0%	-30.3%	-29.5%	-4.9%	-16.2%	29.8%	-20.3%	-45.0%
<b>comScore, Inc.</b>	-16.9%	21.6%	9.9%	-29.8%	-9.6%	-23.3%	-11.4%	62.3%
<b>Fair Isaac Corporation</b>	16.9%	8.1%	23.4%	23.9%	29.8%	26.6%	30.3%	15.1%
<b>MicroStrategy Incorporated</b>	-2.9%	2.1%	9.5%	6.2%	10.9%	10.1%	10.4%	30.7%
<b>NetScout Systems, Inc.</b>	9.2%	-9.4%	54.6%	-3.1%	-8.1%	2.6%	-16.0%	23.5%
<b>NICE Ltd.</b>	17.5%	19.6%	28.8%	12.3%	25.2%	18.4%	13.9%	23.4%
<b>Open Text Corporation</b>	2.1%	-7.3%	6.6%	24.8%	9.6%	29.0%	-17.7%	26.7%
<b>Pegasystems, Inc.</b>	62.1%	33.1%	116.5%	59.7%	40.3%	30.9%	32.4%	-15.5%
<b>PROS Holdings, Inc.</b>	27.3%	13.2%	57.1%	13.9%	1.2%	-6.6%	-16.2%	-31.1%
<b>Verint Systems Inc.</b>	15.5%	-6.2%	22.8%	-18.1%	-6.0%	-13.1%	-30.4%	35.7%
<b>Median of Industry Public Companies</b>	<b>9.2%</b>	<b>2.1%</b>	<b>22.8%</b>	<b>12.3%</b>	<b>-3.3%</b>	<b>18.4%</b>	<b>-11.4%</b>	<b>23.4%</b>

Multiple year periods are calculated as the average annual return.

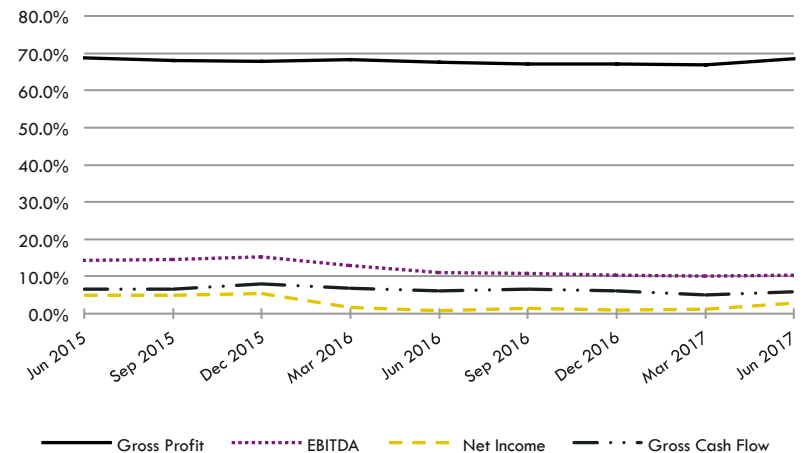
■ Highest Return
 ■ Lowest Return
 ■ Median Return

## 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**



## Median Public Companies

The chart below illustrates Public Company Multiples.

	6/30/17	3/31/17	12/31/16	9/30/16	6/30/16	3/31/16	12/31/15	9/30/15
<b>EV/Revenues Multiple</b>	3.1x	3.0x	3.3x	2.9x	2.6x	2.7x	3.0x	2.8x
<b>EV/EBITDA Multiple</b>	22.1x	22.0x	23.9x	22.4x	20.5x	17.3x	15.7x	15.0x
<b>Price/Earnings Multiple</b>	33.2x	27.5x	27.5x	27.5x	26.7x	27.8x	30.7x	27.2x
<b>EV/Gross Cash Flows Multiple</b>	39.4x	36.7x	32.9x	34.1x	34.2x	35.0x	25.4x	22.2x

■ Highest Multiple
 ■ Lowest Multiple
 ■ Median Multiple

## Industry Initial Public Offerings—Industry: 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
6/24/15	<b>TransUnion</b>	\$22.50	29.5	\$664.8	\$4,614.3	\$2,976.4	\$1,354.4	\$398.9	(\$4.4)	\$629.4
2/17/12	<b>Brightcove Inc.</b>	\$11.00	5.0	\$55.0	\$47.3	\$7.0	\$63.6	(\$14.0)	(\$17.6)	(\$11.9)
6/27/07	<b>PROS Holdings, Inc.</b>	\$11.00	6.8	\$75.1	\$25.7	\$20.0	\$49.9	\$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
Median of all IPOs		nm	5.6	\$81.3	\$46.4	\$5.2	\$66.8	\$3.1	\$2.7	\$12.6

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
4/12/17	<b>Tollgrade Communications, Inc.</b>	<b>Enghouse Systems Limited</b>	\$17.3	100%	\$18.1	1.0x
10/16/15	<b>Datamyx LLC</b>	<b>Deluxe Corp.</b>	\$160.0	100%	N/A	N/A
9/30/15	<b>Unruly Group Limited</b>	<b>News Corp UK &amp; Ireland</b>	\$176.8	100%	N/A	N/A
8/3/15	<b>1010data, Inc.</b>	<b>Advance Communication</b>	\$500.0	100%	N/A	N/A
5/31/15	<b>Applied Predictive Tech.</b>	<b>MasterCard Inc.</b>	\$600.0	100%	N/A	N/A
5/7/15	<b>ColdLight Solutions, LLC</b>	<b>PTC Inc.</b>	\$103.8	100%	N/A	N/A
2/26/15	<b>Prelytix, LLC</b>	<b>Market Resource Partners</b>	\$20.0	100%	\$2.0	10.0x
11/3/14	<b>Evolv, Inc.</b>	<b>Cornerstone OnDemand</b>	\$45.0	100%	\$6.1	7.3x
10/31/14	<b>QuantiSense, Inc.</b>	<b>Epicor Software</b>	\$24.0	100%	N/A	N/A
2/28/14	<b>KnowledgeAdvisors, Inc.</b>	<b>Corporate Executive Board</b>	\$52.0	100%	N/A	N/A
1/29/14	<b>Rationalwave, Inc.</b>	<b>Bottomline Technologies</b>	\$8.0	100%	N/A	N/A
1/22/14	<b>Scout Analytics, Inc.</b>	<b>ServiceSource International</b>	\$32.5	100%	\$5.4	6.0x

 USA

 International

 Highest

 Lowest

 Median

(Continued on next page)

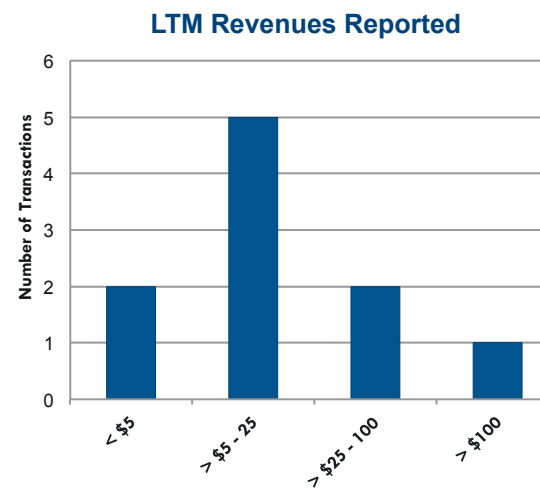
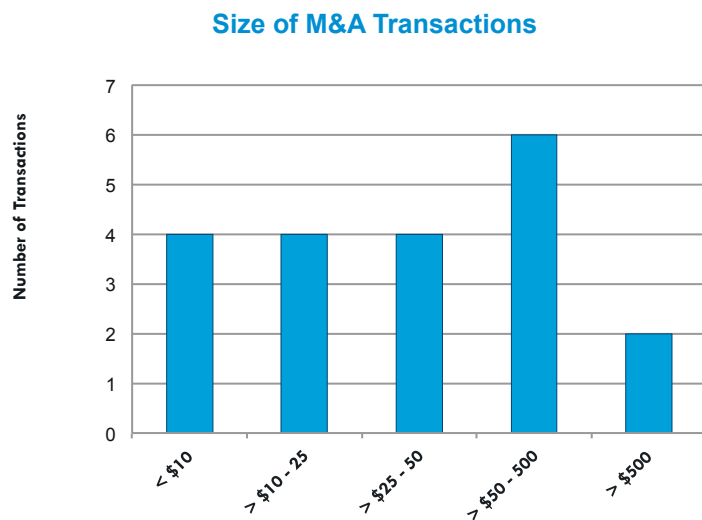
## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)

(Continued from previous page)

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 20 M&A Transaction Targets			\$27.5	100%	\$7.0	5.5x

USA
  International
  Highest
  Lowest
  Median

## Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions) as of June 30, 2017





COGENT VALUATION is a nationally recognized full service business valuation firm that has provided independent valuation and financial advisory opinions in thousands of situations since 1991. These assignments include the valuation of companies and pass-through entities, their securities, and their intangible assets ranging in size from small, closely-held businesses and start-ups, to corporations with market values over a billion dollars, covering almost every industry and all types of transactions. With the collective backgrounds of our managing directors and professional staff, Cogent Valuation brings substantial large deal experience to bear on our middle market transaction opinions. Cogent Valuation utilizes proprietary research, intensive due diligence, and the experience and insights of its professionals to produce thoughtful, well-documented opinions that have consistently withstood the scrutiny of clients and their advisors, investors, regulators, and courts.

This industry research is provided at no charge to Cogent Valuation's clients. Research or detailed information not covered in this report can be obtained for a fee. **Contact Steven Kam at 415-392-0888** for additional information or questions in connection with this research report.

**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): Profitability metric sometimes also 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.

**Disclosures and Limitations:** This research report is for informational and discussion purposes only. Information presented herein is not investment advice of any kind to any person and does not constitute a recommendation as to the purchase or sale of any interests or as to any other course of action. General, financial, and statistical information concerning the details of this report and related industry are from sources Cogent Valuation believes to be reliable. Cogent Valuation has accurately reflected such information in this research report; however, Cogent Valuation makes no representation as to the sources' accuracy or completeness and has accepted this information without further verification. Neither all nor any part of the content of this report may be conveyed to the public through advertising, public relations, news, sales, mail, direct transmittal, or other media without the prior written consent of Cogent Valuation. Cogent Valuation's research is as of the date reported herein. Cogent Valuation has no affiliation with any of the companies comprising the industry used as a basis for research in this report, nor does Cogent Valuation hold any investments in the companies listed herein. The content of this report may be used, in part, as a basis for any work that Cogent Valuation performs for you in the future at the sole discretion of Cogent Valuation. THIS REPORT IS NOT TO BE USED OR CONSIDERED UNDER ANY CIRCUMSTANCE BY ANYONE AS INVESTMENT ADVICE.