

## Real Estate Software

### INDUSTRY SUMMARY

COGENT VALUATION identified **Real Estate Software** publicly traded companies, IPOs, and recent M&A transactions within the Real Estate Software 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 Real Estate Software industry was 26.8%. Between June 30, 2015 and June 30, 2017, the median EV/EBITDA multiple increased from 11.4 to 12.2. However, the median price-to-earnings multiple decreased from 24.9 to 21.9 over the same period.

### Public Company Key Statistics

Median 52-Week  
Return

26.8%

Median 3-Year CAGR  
Return

1.0%

Median EV/Revenue  
Multiple

1.6x

Median EV/EBITDA  
Multiple

12.2x

Median Price/Earnings  
Multiple

21.9x

Median EV/Gross CF  
Multiple

25.3x

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

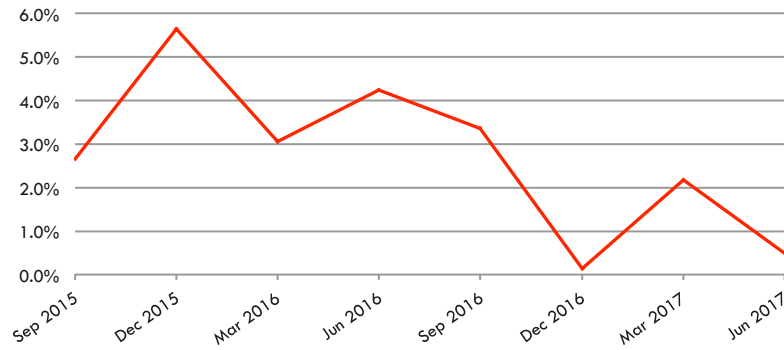
	YTD	3 Month	1 Year	2 Year	3 Year	2016	2015	2014
<b>Altisource Portfolio Solutions S.A.</b>	-17.9%	-40.7%	-21.6%	-15.8%	-42.5%	-4.4%	-17.7%	-78.7%
<b>BGC Partners, Inc.</b>	23.6%	11.3%	45.1%	20.2%	19.3%	4.3%	7.2%	51.2%
<b>CBRE Group, Inc.</b>	15.6%	4.6%	37.5%	-0.8%	4.3%	-8.9%	1.0%	30.2%
<b>Colliers International Group Inc.</b>	53.1%	19.5%	65.9%	21.3%	3.6%	-17.2%	-13.1%	18.9%
<b>HFF, Inc.</b>	14.9%	25.7%	20.4%	-8.7%	-2.2%	-2.6%	-13.5%	33.8%
<b>Leju Holdings Limited</b>	-61.7%	-46.4%	-60.4%	-53.1%	-44.0%	-16.1%	-46.8%	N/A
<b>Marcus &amp; Millichap, Inc.</b>	-1.3%	7.2%	3.7%	-24.4%	1.1%	-8.3%	-12.4%	123.2%
<b>RE/MAX Holdings, Inc.</b>	0.1%	-5.7%	39.2%	25.6%	23.7%	50.1%	8.9%	6.8%
<b>Realogy Holdings Corp.</b>	26.1%	8.9%	11.8%	-16.7%	-4.9%	-29.8%	-17.6%	-10.1%
<b>RealPage, Inc.</b>	19.8%	3.0%	61.0%	37.3%	16.9%	33.6%	2.2%	-6.1%
<b>Reis, Inc.</b>	-4.5%	18.7%	-14.7%	-2.1%	0.3%	-6.2%	-9.3%	36.1%
<b>Zillow Group, Inc.</b>	34.0%	44.5%	33.3%	30.0%	0.8%	40.0%	-26.2%	29.6%
<b>Median of Industry Public Companies</b>	<b>15.3%</b>	<b>8.1%</b>	<b>26.8%</b>	<b>-1.5%</b>	<b>1.0%</b>	<b>-5.3%</b>	<b>-12.7%</b>	<b>29.6%</b>

Multiple year periods are calculated as the average annual return.

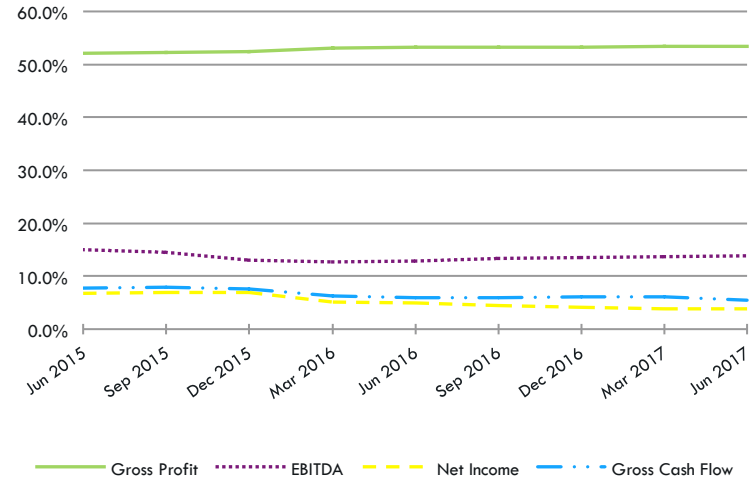
■ Highest Return
 ■ Lowest Return
 ■ Median Return

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

**Median Quarterly Revenue Growth of All Real Estate Software 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>	1.6x	1.4x	1.2x	1.2x	1.3x	1.4x	1.5x	2.1x
<b>EV/EBITDA Multiple</b>	12.2x	12.5x	9.5x	9.5x	8.8x	9.2x	8.4x	11.5x
<b>Price/Earnings Multiple</b>	21.9x	24.1x	22.2x	20.9x	18.7x	19.0x	20.1x	27.9x
<b>EV/Gross Cash Flows Multiple</b>	25.3x	23.4x	20.5x	17.8x	17.3x	18.4x	23.9x	26.0x

■ Highest Multiple
 ■ Lowest Multiple
 ■ Median Multiple

## Industry Initial Public Offerings—Industry: Real Estate Software (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
5/11/17	Real Matters Inc.	\$9.49	12.1	\$114.5	\$179.2	\$16.2	\$283.0	\$16.5	(\$8.2)	\$17.9
4/16/14	Leju Holdings Limited	\$10.00	10.0	\$120.3	\$394.3	\$0.0	\$374.1	\$96.1	\$54.6	\$99.2
10/30/13	Marcus & Millichap, Inc.	\$12.00	6.0	\$72.0	\$60.8	\$0.0	\$434.4	\$55.4	\$30.0	\$58.4
10/1/13	RE/MAX Holdings, Inc.	\$22.00	10.0	\$220.0	\$252.0	\$229.0	\$153.7	\$73.7	\$7.1	\$75.9
10/10/12	Realogy Holdings Corp.	\$27.00	40.0	\$1,080.0	\$7,351.0	\$7,591.0	\$4,393.0	\$487.0	(\$405.0)	\$557.0
7/19/11	Zillow Group, Inc.	\$20.00	3.5	\$69.2	\$33.9	\$0.0	\$44.9	\$1.1	(\$1.2)	\$2.2
8/11/10	RealPage, Inc.	\$11.00	12.3	\$135.3	\$160.5	\$67.0	\$160.0	\$22.2	\$26.4	\$31.9
4/20/17		nm	nm	\$120.3	\$179.2	\$16.2	\$283.0	\$55.4	\$7.1	\$58.4


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
11/4/16	Onthehouse Holdings	77 Victoria Street Venture	\$43.3	81%	\$19.3	2.7x
6/1/16	ReCI Inc	Goyo Intex Co., Ltd.	\$1.2	100%	N/A	N/A
4/20/16	FNC, Inc.	CoreLogic Solutions, LLC	\$475.0	100%	N/A	N/A
3/21/14	Leju Holdings Limited	Tencent Holdings Limited	\$180.0	15%	\$335.4	3.4x
9/17/10	SouFun Holdings Limited	Apax Partners LLP	\$410.2	43%	\$158.3	5.1x
4/10/07	Realogy Corporation	Apollo Global Management	\$9,261.9	100%	\$6,677.0	1.2x
8/31/06	SouFun Holdings Limited	Telstra Corporation Limited	\$254.0	51%	N/A	N/A
Median of the 7 M&A Transaction Targets			\$295.1	90%	\$246.8	3.1x

 USA

 International

 Highest

 Lowest

 Median

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**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.

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