Quarterly Industry Update

As of December 31, 2016 Industry: Real Estate Software

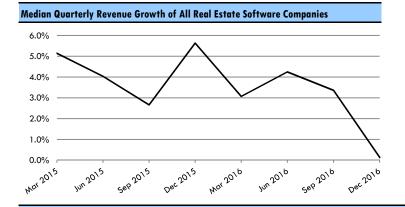


Industry Summary

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 December 31, 2015, the median 52-week share price return of the Real Estate Software industry was -5.3%. Between December 31, 2014 and December 31, 2016, the median EV/EBITDA multiple decreased from 13.7 to 9.5. Furthermore, the median price-to-earnings multiple decreased from 26.2 to 22.2 over the same period.

Comparable Public Company Key Statistics											
Median 52-Week Return Median 3-Year CAGR Return	-5.3% 6.2%	Median EV/Revenue Multiple Median EV/EBITDA Multiple			1.2x 9.5x	Median Price/Earnings Multiple Median EV/Gross CF Multiple				22.2x 20.5x	
Comparable Public Company Market Price Returns As of December 31, 2016											
	YTD	3 Month	1 Year	2 Year	3 Year	5 Year	2015	2014	2013	2012	2011
Altisource Portfolio Solutions S.A.	-4.4%	-17.9%	-4.4%	-11.3%	-44.9%	-11.9%	-17.7%	-78.7%	83.1%	72.7%	74.8%
BGC Partners, Inc.	4.3%	16.9%	4.3%	5.7%	19.1%	11.5%	7.2%	51.2%	74.9%	-41.8%	-28.5%
CBRE Group, Inc.	-8.9%	12.5%	-8.9%	-4.1%	6.2%	15.7%	1.0%	30.2%	32.2%	30.7%	-25.7%
Colliers International Group Inc.	-17.2%	-12.2%	-17.2%	-15.2%	-5.1%	6.8%	-13.1%	18.9%	52.9%	6.3%	-12.3%
HFF, Inc.	-2.6%	9.2%	-2.6%	-8.2%	4.1%	24.0%	-13.5%	33.8%	80.2%	44.2%	6.9%
Leju Holdings Limited	-16.1%	-10.1%	-16.1%	-33.2%	N/A	N/A	-46.8%	N/A	N/A	N/A	N/A
Marcus & Millichap, Inc.	-8.3%	2.2%	-8.3%	-10.4%	21.5%	N/A	-12.4%	123.2%	N/A	N/A	N/A
RE/MAX Holdings, Inc.	50.1%	27.9%	50.1%	27.9%	20.4%	N/A	8.9%	6.8%	N/A	N/A	N/A
Realogy Holdings Corp.	-29.8%	-0.5%	-29.8%	-24.0%	-19.6%	N/A	-17.6%	-10.1%	17.9%	N/A	N/A
RealPage, Inc.	33.6%	16.7%	33.6%	16.9%	8.7%	3.5%	2.2%	-6.1%	8.4%	-14.6%	-18.3%
Reis, Inc.	-6.2%	8.7%	-6.2%	-7.8%	5.0%	19.5%	-9.3%	36.1%	47.6%	42.9%	29.7%
Zillow Group, Inc.	40.0%	5.8%	40.0%	1.6%	10.2%	37.2%	-26.2%	29.6%	194.5%	23.4%	N/A
Median of Industry Public Companies	-5.3%	7.3%	-5.3%	-8.0%	6.2%	13.6%	-12.7%	29.6%	52.9%	27.1%	-12.3%

(Multiple year periods are calculated as the average annual return.)



Median Gross Profit, EBITDA, Net Income and Gross Cash Flow Margins
60.0%
50.0%
40.0% —
30.0%
20.0%
10.0%
0.0%
Dec 301 4 Nat 301 2 Nu 301 2 Seb 301 2 Dec 301 2 Nut 301 P Seb 301 P Dec 301 P
Gross Profit EBITDA — — Net Income — · · · - Gross Cash Flow

Median Public Company Multiples of the Real Estate Software Industry										
Date:	12/31/2014	3/31/2015	6/30/2015	9/30/2015	12/31/2015	3/31/2016	6/30/2016	9/30/2016	12/31/2016	
EV/Revenues Multiple	2.3x	2.1x	2.3x	2.1x	1.5x	1.4x	1.3x	1.2x	1.2x	
EV/EBITDA Multiple	13.7x	14.2x	11.4x	11.5x	8.4x	9.2x	8.8x	9.5x	9.5x	
Price/Earnings Multiple	26.2x	27.9x	24.9x	27.9x	20.1x	19.0x	18.7x	20.9x	22.2x	
FV/Gross Cash Flows Multiple	22.3x	28.1x	28.2x	26.0x	23.9x	18.4x	17.3x	17.8x	20.5x	

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. Copyright © 2017 Cogent Valuation. All Rights Reserved.

Quarterly Industry Update

As of December 31, 2016 Industry: Real Estate Software



Industry Initi	ial Public Offerings (dollars in n	nillions, except share pr	ices)							
Offer Date 4/16/2014	<u>Company Name</u> Leju Holdings Limited	Offer Price \$10.00	Shares Offered 10.0	Amount Raised \$120.3	Total Assets \$402.9	<u>Debt</u> \$0.0	LTM Revenues \$335.4	<u>LTM EBITDA</u> \$85.2	LTM Net Income \$42.5	LTM Cash Flows \$88.2
10/30/2013	Marcus & Millichap, Inc.	\$12.00	6.0	\$72.0	\$48.0	\$0.0	\$413.7	\$54.1	\$29.1	\$57.1
10/1/2013	RE/MAX Holdings, Inc.	\$22.00	10.0	\$220.0	\$238.1	\$223.2	\$151.8	\$63.3	\$34.4	\$65.5
10/10/2012	Realogy Holdings Corp.	\$27.00	40.0	\$1,080.0	\$7,362.0	\$7,640.0	\$4,267.0	\$470.0	(\$399.0)	\$540.0
7/19/2011	Zillow Group, Inc.	\$20.00	3.5	\$69.2	\$28.6	\$0.0	\$36.4	(\$2.9)	(\$4.8)	(\$1.8)
8/11/2010	RealPage, Inc.	\$11.00	12.3	\$135.3	\$160.5	\$66.9	\$160.0	\$21.6	\$26.4	\$31.3
1/30/2007	HFF, Inc.	\$18.00	14.3	\$257.4	N/A	N/A	N/A	N/A	N/A	N/A
Median of Al	l IPOs	nm	nm	\$135.3	\$199.3	\$33.4	\$247.7	\$58.7	\$27.7	\$61.3

nm: not meaningful, N/A: not applicable

Recent Merger and Acquisition Transactions for a Majority Stake (dollars in millions)									
Transaction Date	Target	Acquirer	Transaction Size	% Bought	LTM Revenues	EV/Revenues			
11/4/2016	Onthehouse Holdings	77 Victoria Street Venture	\$43.3	81%	\$19.3	2.7x			
6/1/2016	ReCI Inc	Goyo Intex Co., Ltd.	\$1.2	100%	N/A	N/A			
4/20/2016	FNC, Inc.	CoreLogic Solutions, LLC	\$475.0	100%	N/A	N/A			
3/21/2014	Leju Holdings Limited	Tencent Holdings Limited	\$180.0	15%	\$335.4	3.4x			
9/17/2010	SouFun Holdings Limited (nka:Fang Holdings Limited)	Apax Partners LLP	\$410.2	43%	\$158.3	5.1x			
4/10/2007	Realogy Corporation	Apollo Global Management	\$9,261.9	100%	\$6,677.0	1.2x			
8/31/2006	SouFun Holdings Limited (nka:Fang 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				

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. 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. Copyright © 2017 Cogent Valuation. All Rights Reserved.