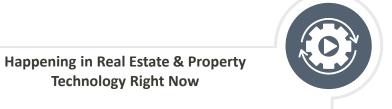


Real Estate & Property Technology Sector Update

Harris Williams | Q1 2023 Report

Real Estate & Property Technology Observations

Key trends and demand drivers in real estate & property technology.



Enhancing Engagement Through Marketing Automation

Residential and commercial brokers and agents, mortgage professionals, and property managers are adopting automation tools, including virtual assistants and chatbots, to strengthen connectivity with potential customers and tenants

Digitizing Mortgage Workflows

Borrowers are increasingly seeking digital-only engagement, and both traditional and nontraditional lenders are leveraging technologies to replace costly, manual underwriting processes



Lasting Impact of the Hybrid Workforce

The transition toward work from home and hybrid roles is here to stay, driving demand for tools that help real estate professionals and investors to navigate rapidly evolving residential and commercial real estate preferences



On the heels of significant digitization in the real estate market, industry constituents are increasingly seeking advanced analytics and visualization solutions to optimize insights from big data



Digital Escrow and Closings

With legislation approving remote closings in nearly all 50 states, digitization of title review, document preparation / execution, and settlement workflows are streamlining closing processes



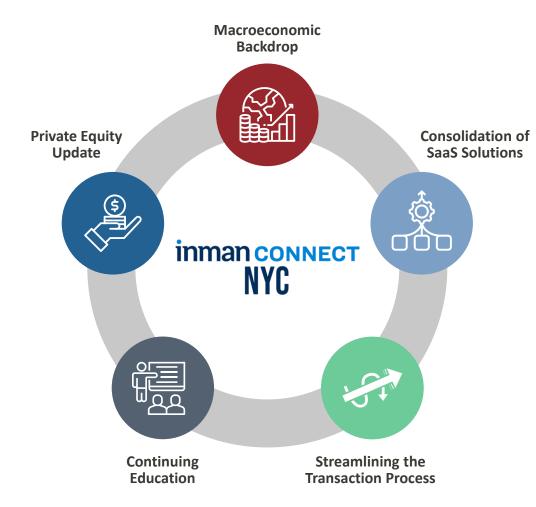
Property owners and tenants are seeking tools that help monitor and reduce their carbon footprint and increase the sustainability of their properties





Inman Connect 2023 Conference Insights

Key discussion topics among leading real estate technology companies and investors.





Macroeconomic Backdrop

- Rising rates have started to impact home buying affordability, resulting in slowing real estate transaction velocity and rising inventory compared to recent years
- Industry professionals acknowledge the cyclical nature of residential real estate; those that leverage technology and automation tools are optimistic they are best positioned in this macro backdrop



Consolidation of SaaS Solutions

- Competition to market and sell properties is increasing, and as such, brokers and agents are expected to prioritize technology spend with vendors that offer a comprehensive offering over providers of point solutions
- End-to-end platforms continue to seek complementary solutions that brokerages can leverage to differentiate listings, enhance marketing reach, automate workstreams, and close more deals



Streamlining the Transaction Process

- Brokerages continue seeking ways to automate back-office processes so they can spend more time focused on revenue-generating activities
- Mortgage originators and title agencies are increasingly adopting solutions that connect all constituents in the homebuying process and reduce the time from offer to close



Continuing Education

- Residential brokerages and mortgage originators are investing in continuing education solutions to set up their teams for long-term success
- · Key areas of focus include pipeline building, staging design, networking, and successful marketing tactics



Private Equity Update

- Investor interest in real estate and property technology remains high as demand for technology solutions remains despite cyclicality in the end market
- Sponsors continue to take a risk-off approach, placing great scrutiny on profitability or a near-term path to profitability

What We're Reading

Five Real Estate Technology Trends to Expect in 2023

Forbes

The real estate industry has faced significant disruption since the onset of COVID, which was a catalyst for technological adoption and advancements. Virtual reality, Al-enhanced analytics, process automation, fractional ownership, and the Metaverse gained momentum in 2022 and are expected to continue on a growth trajectory through 2023.

Read the full article <u>here</u>.

Have We Found the Bottom in Existing Home Sales?

Housing Wire Media

The residential real estate market all but froze in late 2022, driven by a rapid increase in mortgage rates, which influenced both housing supply and demand. However, purchase application data suggests that buyers may be returning to the market in 2023. As rates and prices stabilize, it is likely that activity will recover in 2023.

Read the full article <u>here</u>.

What Will Rental, Property Management Look Like in 2023?

MPA

While the real estate market cooled in late 2022, the affordability crisis has been a strong tailwind for the property management industry as more individuals look to renting as an alternative to purchasing a home. As property managers continue to grow their businesses, they will continue to seek technology solutions to automate workflows and differentiate the level of service they provide.

Read the full article here.

Can Technology Bridge the Gap Between Buyers, Sellers, and Funds?

DSNews

iBuyers became highly popular over the last few years, offering efficiency and certainty to close for individuals looking to sell their current residence while buying their next home. However, in a cooling market, questions arise on the iBuyers' ability to make competitive offers and the sustainability of this model. Realtors continue to be a valuable resource to buyers and sellers – especially in a softer market.

Read the full article here.

Recent Harris Williams Publications

Architecture, Engineering, and Construction Software Q1 2023 Sector Update



Link to Read

Home Services Consumer Study Summer 2022



Link to Read

Access All HW Insights Here

Perspectives on the Single-Family Residential Market

Trends and Observations

- A significant rise in mortgage rates slowed deal activity in the residential real estate market, resulting in longer sales cycles
- Despite a cooling market, the realtor profession continues to show strength
- Brokers and agents will continue to seek technology solutions that help differentiate their listings and automate workflows, enabling professionals to focus their time on revenue-generating activities

Select Software Providers







linside real estate







Opendoor

PLACE

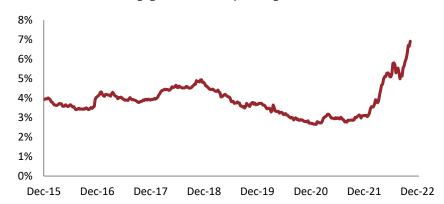


Reapit

≥ Zillow

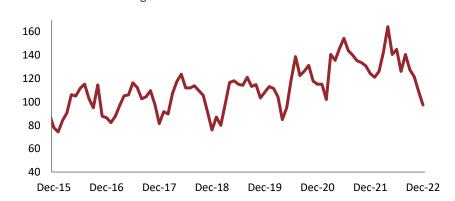
Fixed Mortgage Rate by Week (2015 – 2022)

30-Year Fixed Mortgage Rates Weekly Average



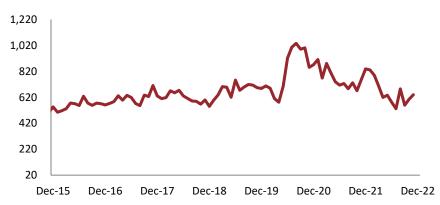
New Housing Starts by Month (2015 – 2022)

Number of Housing Units in Thousands



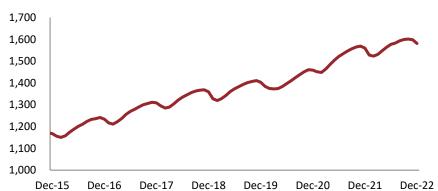
New Home Sales by Month (2015 – 2022)

Number of Housing Units (New Single-Family Houses Only) In Thousands

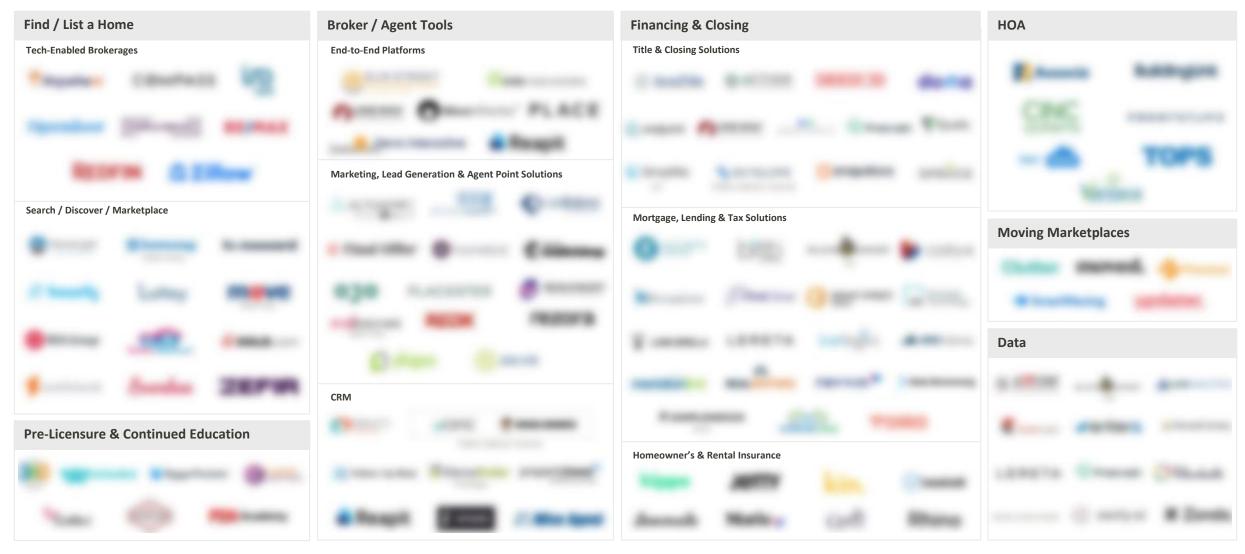


Realtor Count by Month (2015 - 2022)

National Association of Realtors Membership Count in Thousands



Highly fragmented market benefiting from accelerating adoption of technology at every phase of the home journey.



Perspectives on the Commercial Real Estate Market

Trends and Observations

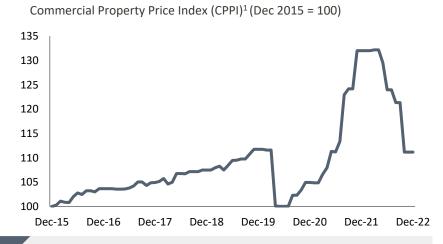
- Sharp decline in commercial real estate prices driven by rising rates and a risk-off mentality as investors seek increasing yield on their investments across all commercial property types
- Despite a correction in prices, construction spend continues to rise and the commercial real estate loan market remains stable, with record low delinquencies
- Demand for commercial real estate software solutions continues as property owners seek ways to improve net operating income (NOI)

Select Software Providers

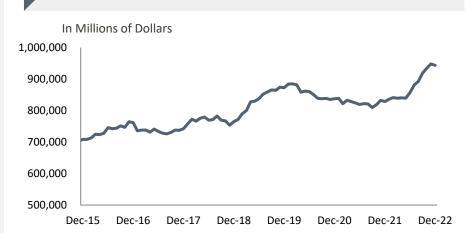


VL VISUAL LEASE

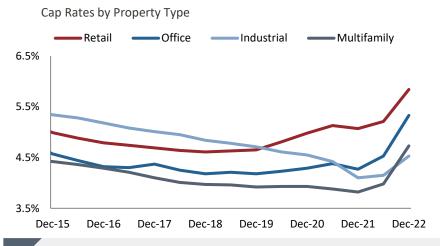
Commercial Real Estate Prices in the US



Total US Construction Spending (Nonresidential)

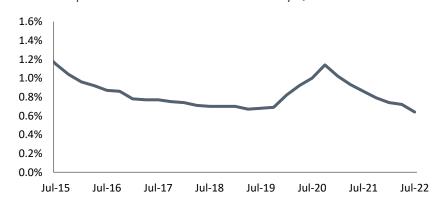


Historical Cap Rates



Delinquency Rate on Commercial Real Estate Loans

Delinguent Loans as Percent of Total Loans by Quarter



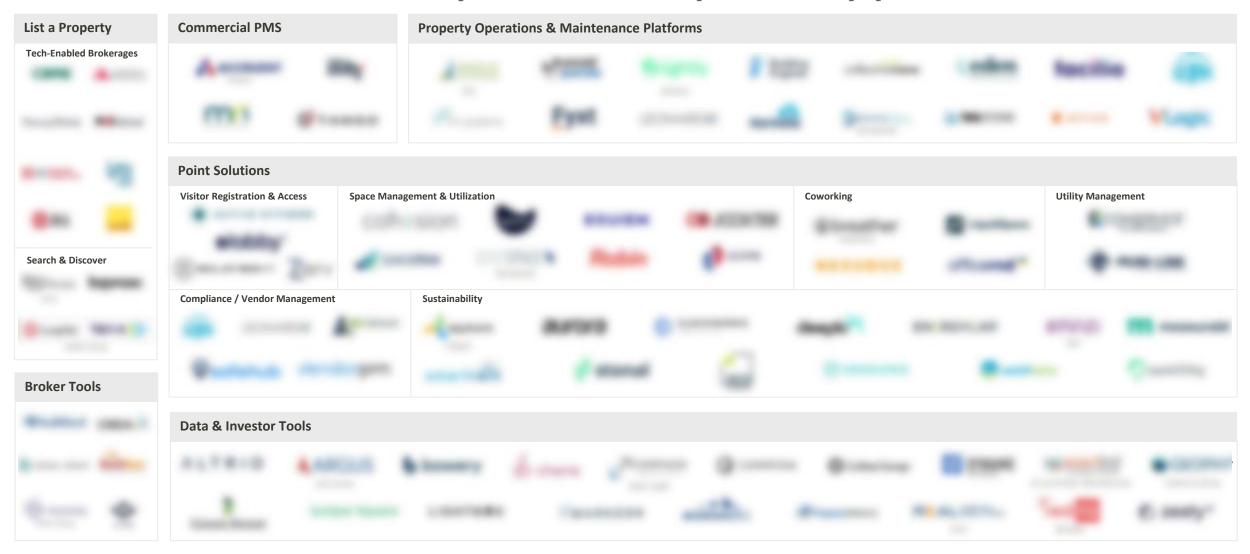
RealNex

Commercial Property Market Landscape

To view full market map, please contact:

TechnologyInsights@harriswilliams.com

Broad universe of solutions that enable investors and operators to find, underwrite, operate, and market properties.



Perspectives on the Property Management Market

Trends and Observations

- While retail, office, and multifamily sales volumes have seen a recent decline, industrial sales volume has seen accelerated growth
- COVID-19 put downward pressure on multifamily rent growth, which was followed by a rapid rise in rent growth and recent correction driven by a normalizing vacancy rates
- Multifamily loan issuances continue to grow, supporting sustained growth in the end-market
- Enhancing the tenant experience continues to be a key driver of demand for property management solutions

Select Software Providers





entrata



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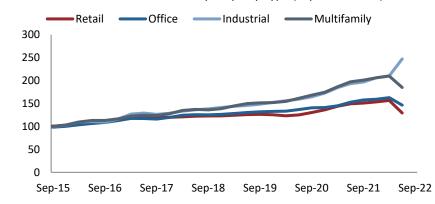


REALPAGE



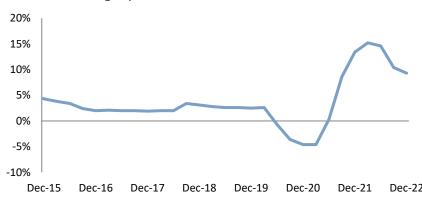
Commercial Sales Indices by Quarter (2015 – 2022)

Volume of Commercial Sales by Property Type (Sep 2015 = 100)



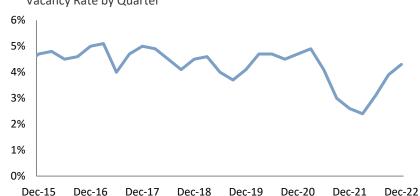
Multifamily Rent Growth

Percent Change by Quarter



Multifamily Vacancy Rates

Vacancy Rate by Quarter



Multifamily Real Estate Loans, All Commercial Banks

Volume of Issued Loans in Billions of Dollars

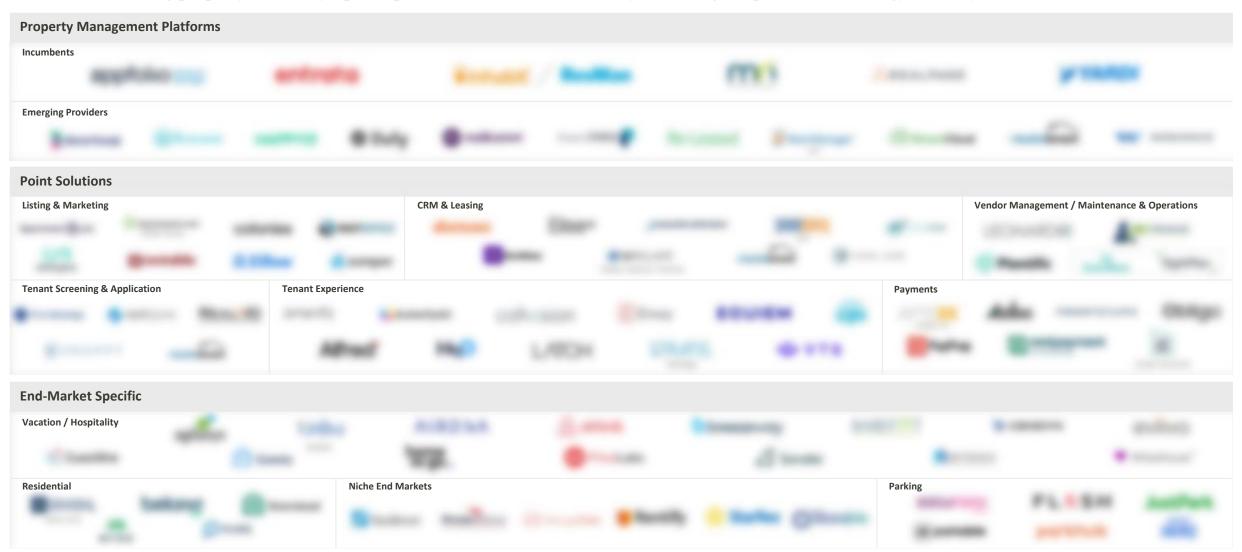


Property Management Landscape

To view full market map, please contact:

TechnologyInsights@harriswilliams.com

Focus on increasing property efficiency, space optimization, and sustainability is driving adoption of technology industry-wide.



Select Recent Real Estate & Property Technology Transactions

Inside Real Estate's Acquisition of BoomTown





January 20, 2023

Target

Buyer

- BoomTown is a provider of a real estate sales and automation platform designed to help real estate professionals generate leads, manage contacts, and more efficiently run their business
- The combination expands the breadth of solutions available to Inside Real Estate's customers and extends the platform's reach to serve over 500,000 real estate professionals today

Pagaya's Acquisition of Darwin





January 11, 2023

Target

Buyer

- Darwin Homes is a provider of a real estate investment management platform for acquiring, renovating, and managing single-family rental properties
- Pagaya's acquisition accelerates the development of its ecosystem of solutions and helps drive better real estate investment performance for customers

MRI's Acquisition of PropTech Group





October 31, 2022

Target

Buyer

- PropTech Group is a provider of residential and commercial real estate broker / agent and property management solutions primarily serving customers in Australia, New Zealand, and the UK
- The acquisition enhances MRI's suite of real estate agency and property management solutions and deepens its footprint in key geographies

Buildout's acquisition of Oval Room Group





January 12, 2023

Target

Buyer

- Oval Room Group is a provider of marketing solutions for real estate clients, offering planning, documentation, aerial imagery, photography, videography, renderings, and virtual tours
- The acquisition enhances Buildout's media capabilities, enabling brokers and owners to best showcase their properties to the market

MBS Highway's Acquisition of ListReports





November 10, 2022

Target

Buyer

- ListReports is a provider of a real estate marketing platform enabling real estate agents and loan officers to create high-quality content and maximize opportunities
- The acquisition of ListReports extends MBS Highway's reach to serve real estate agents and expands its suite of sales enablement solutions serving mortgage loan officers

Yardi's Acquisition of Planimetron

PLANIMETRON



October 11, 2022

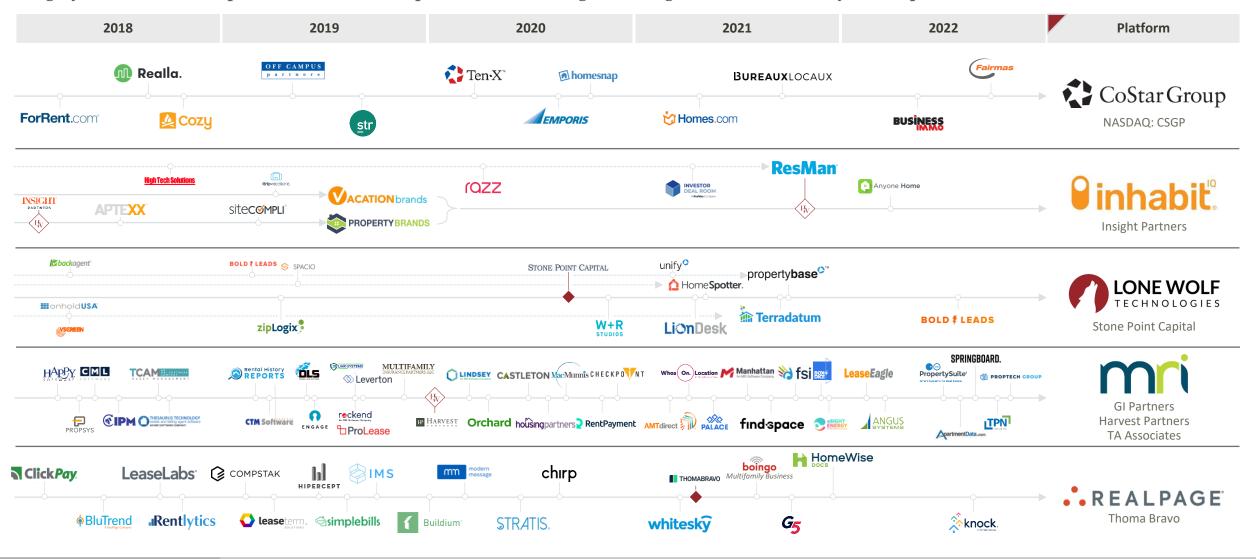
Target

Buyer

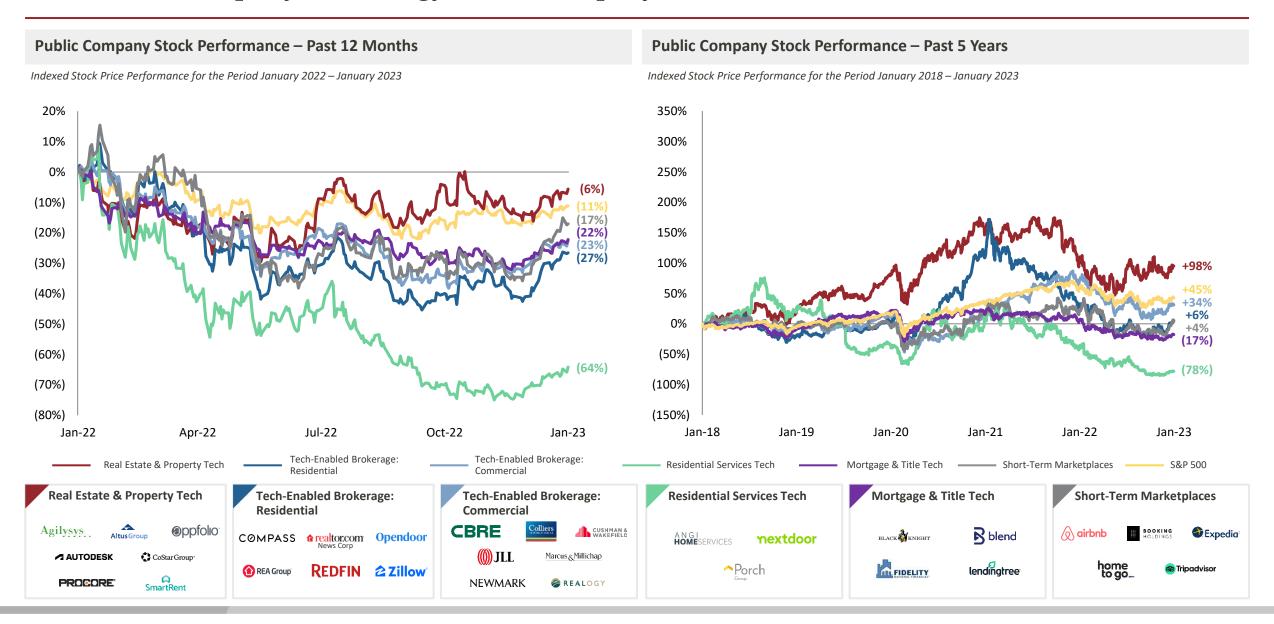
- · Planimetron is a provider of space management and analytics solutions serving the office, retail, and industrial real estate markets
- The acquisition empowers Yardi to meet the growing demand for efficient space management solutions from commercial real estate owners and operators

Select Real Estate & Property Tech Consolidation Platforms

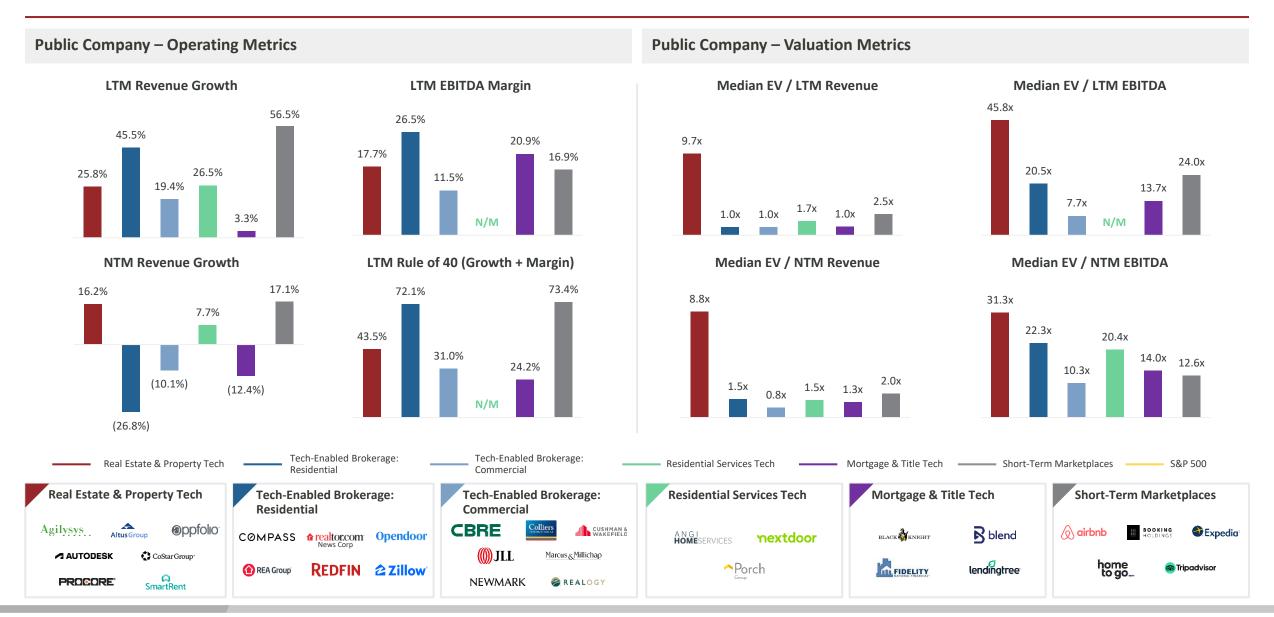
Highly active and well-capitalized consolidation platforms have emerged, driving further M&A activity in the space.



Real Estate & Property Technology Public Company Trended Stock Performance



Real Estate & Property Technology Public Company Operating and Valuation Metrics



Select Harris Williams Real Estate & Property Technology Experience

Selected Real Estate & Property Technology Transaction Experience





INSIGHT









has been acquired by

CIP CAPITAL







HOME FRANCHISE



Additional Property Services Transaction Experience











Additional HW Technology Group Recent Transactions













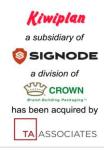
















has recapitalized

LYNIATE



has acquired

SPEND MEND



has been acquired by





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Technology Coverage Areas

- Application Software
- Infrastructure & Security Software
- IT & Managed Services

Sector Coverage Areas

- Architecture, Engineering & Construction
- Education
- Industrial
- Pharma

- Compliance
- Healthcare
- Legal
- Real Estate & Property Tech

- eCommerce & Retail
- Human Capital Management
- Office of the CFO
- Supply Chain Logistics

Thematic Focus Areas

- SaaS / Cloud
- Integrated Payments
- Digital Transformation
- AI / Machine Learning

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Aerospace, Defense & Government Services



Healthcare & Life Sciences



Business Services



Industrials



Consumer



Technology



Energy, Power & Infrastructure



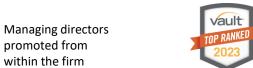
Transportation & Logistics



Revenue from

promoted from

within the firm







Sources and Disclosures

Sources

- FRED
- US Census Bureau
- National Association of Realtors
- **CBRE**
- Green Street

- CoStar
- S&P Capital IQ
- Pitchbook
- Mergermarket

Disclosures and Disclaimers

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Appendix



Public Market Operational & Valuation Metrics

As of January 31, 2023											
\$ in Thousands	Market	Enterprise	% of 52-Week	LTM	LTM		Enterpris	se Value/			
Company	Capitalization	Value	High	Gross Margin	EBITDA Margin	LTM Revenue	NTM Revenue	LTM EBITDA	NTM EBITDA		
Real Estate & Property Tech											
Autodesk, Inc.	\$46,424,533	\$47,655,533	85.3%	91.6%	21.1%	9.7x	9.0x	46.0x	24.3x		
CoStar Group, Inc.	31,681,156	28,014,513	91.2%	81.5%	28.9%	13.2x	11.6x	45.8x	38.4x		
Procore Technologies, Inc.	7,721,610	7,249,283	79.0%	79.3%	NM	10.9x	8.8x	NM	NM		
AppFolio, Inc.	3,949,650	3,839,821	87.9%	59.3%	NM	8.1x	6.7x	NM	NM		
Agilysys, Inc.	2,068,051	2,013,479	97.2%	60.7%	8.4%	10.5x	9.0x	NM	59.6x		
Altus Group Limited	1,913,821	2,161,111	92.6%	36.0%	14.2%	4.2x	3.8x	29.2x	21.2x		
SmartRent, Inc.	579,178	369,066	30.1%	(3.5%)	NM	2.3x	1.6x	NM	NM		
Median	\$3,949,650	\$3,839,821	87.9%	60.7%	17.7%	9.7x	8.8x	45.8x	31.3x		
			Tech-Enabled Brok	erage: Residentia	al						
News Corporation	\$11,665,165	\$15,071,165	85.4%	50.7%	13.1%	1.5x	1.5x	11.1x	10.2x		
REA Group Limited	11,699,450	11,901,117	82.7%	60.2%	39.9%	12.1x	13.8x	30.3x	24.7x		
Zillow Group, Inc.	10,212,733	8,598,733	65.9%	20.2%	NM	1.1x	4.8x	NM	22.3x		
Compass, Inc.	1,750,602	2,021,902	43.8%	13.0%	NM	0.3x	0.4x	NM	NM		
Opendoor Technologies Inc.	1,388,903	7,956,903	19.2%	5.3%	NM	0.5x	0.7x	NM	NM		
Redfin Corporation	813,440	2,134,541	23.2%	14.6%	NM	0.9x	1.6x	NM	NM		
Median	\$5,981,667	\$8,277,818	54.8%	17.4%	26.5%	1.0x	1.5x	20.7x	22.3x		
			Tech-Enabled Brok	erage: Commerci	al						
CBRE Group, Inc.	\$26,431,120	\$30,332,966	80.2%	22.0%	7.6%	1.0x	1.0x	12.8x	12.1x		
Jones Lang LaSalle Incorporated	8,774,403	12,268,703	69.9%	70.2%	11.5%	1.0x	NA	8.3x	10.3x		
Colliers International Group Inc.	4,593,575	7,149,677	71.2%	37.8%	13.4%	1.6x	1.6x	11.6x	10.9x		
Cushman & Wakefield plc	3,257,669	6,466,669	61.3%	20.5%	8.1%	0.6x	0.7x	7.7x	8.0x		
Newmark Group, Inc.	1,472,668	3,832,775	46.5%	100.0%	19.5%	1.2x	NA	6.4x	8.1x		
Marcus & Millichap, Inc.	1,426,131	1,025,028	62.1%	34.6%	14.8%	0.7x	1.0x	4.5x	14.0x		
Anywhere Real Estate Inc.	928,392	4,206,392	41.2%	37.2%	8.1%	0.6x	0.6x	6.9x	7.9x		
Median	\$3,257,669	\$6,466,669	62.1%	37.2%	11.5%	1.0x	1.0x	7.7x	10.3x		



Public Market Operational & Valuation Metrics (Cont.)

As of January 31, 2023									
\$ in Thousands	Market	Enterprise	% of 52-Week	LTM	LTM	Enterprise Value/			
Company	Capitalization	Value	High	Gross Margin	EBITDA Margin	LTM Revenue	NTM Revenue	LTM EBITDA	NTM EBITDA
			Residential S	ervices Tech					
Angi Inc.	\$1,468,012	\$1,637,187	32.2%	76.5%	NM	0.9x	0.8x	NM	20.4x
Nextdoor Holdings, Inc.	909,646	368,619	33.6%	82.8%	NM	1.7x	1.8x	NM	NM
Porch Group, Inc.	296,636	463,481	26.8%	62.7%	NM	1.8x	1.5x	NM	NM
Median	\$909,646	\$463,481	32.2%	76.5%	NM	1.7x	1.5x	NM	20.4x
			Mortgage 8	& Title Tech					
Fidelity National Financial, Inc.	\$11,981,974	\$11,759,974	85.7%	58.8%	20.9%	0.9x	1.0x	4.1x	5.0x
Black Knight, Inc.	9,359,733	12,096,633	75.9%	45.4%	33.4%	7.8x	7.7x	23.3x	15.9x
LendingTree, Inc.	507,078	1,136,860	30.4%	94.4%	0.8%	1.1x	1.2x	NM	14.0x
Blend Labs, Inc.	394,588	266,001	16.2%	40.3%	NM	1.0x	1.3x	NM	NM
Median	\$4,933,406	\$6,448,417	53.1%	52.1%	20.9%	1.0x	1.3x	13.7x	14.0x
			Short-Term I	Marketplaces					
Booking Holdings Inc.	\$94,417,254	\$94,750,254	89.6%	85.3%	31.7%	5.9x	5.0x	18.7x	15.9x
Airbnb, Inc.	70,352,316	63,085,914	58.0%	82.0%	21.0%	7.9x	6.9x	37.5x	20.6x
Expedia Group, Inc.	17,841,188	21,201,188	52.5%	85.5%	12.8%	1.9x	1.7x	14.6x	7.8x
Tripadvisor, Inc.	3,275,655	3,142,655	76.4%	92.4%	7.8%	2.3x	1.9x	29.4x	9.3x
HomeToGo SE	446,029	364,503	51.0%	92.9%	NM	2.5x	2.0x	NM	NM
Median	\$17,841,188	\$21,201,188	58.0%	85.5%	16.9%	2.5x	2.0x	24.0x	12.6x
Total Comp Set Median	\$3,266,662	\$5,336,530	64.0%	59.8%	13.8%	1.6x	1.6x	13.7x	14.0x

