

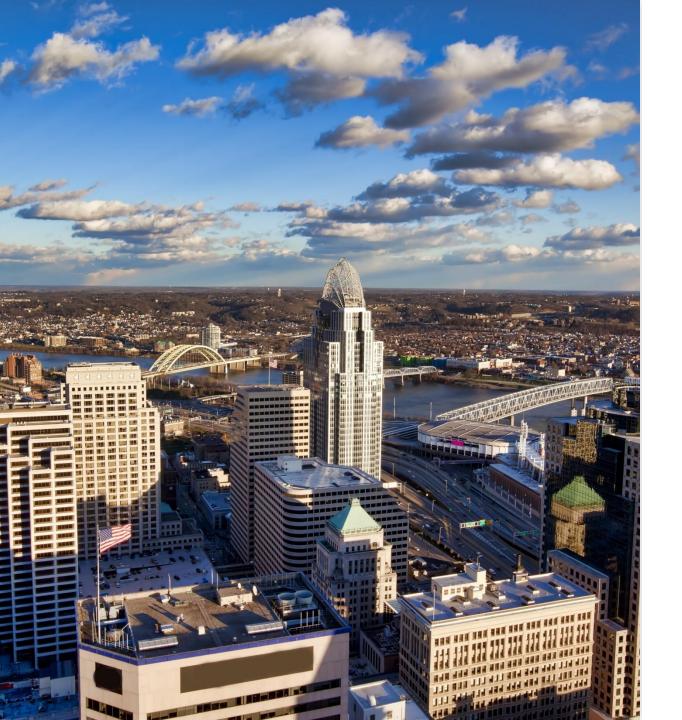


Cincinnati Tuesday, July 23, 2019 Renaissance Cincinnati Downtown Hotel

# MULTIFAMILY & COMMERCIAL MARKET UPDATE

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# **AGENDA**

- 1. Macroeconomic Outlook
- 2. Multifamily Fundamentals
- 3. Office Fundamentals
- 4. Cincinnati Spotlight
- 5. New Technologies Emerging



### **KEY TAKEAWAYS**





### **ECONOMY**

The economy is in decent shape, but the slow down in growth is choppy. GDP growth in Q1 was stronger than expected, but Q2 will show deceleration. Inflation is still relatively low around 2%. The labor market is extremely tight, and wages continue to rise. May job gains were a disappointment, but June bounced back. The yield curve is inverted, and the clock is ticking – there are massive yellow warning signs in capital markets about the sustainability of growth.



### **DEMOGRAPHIC SHIFTS**

As companies and people look for lower cost alternate cities, they drive a shift of both jobs and population to tech hub cities previously not considered. When this happens, real estate will follow. We see this shift happening from urban cores to urbanized suburbs or intellectual capital nodes. The tax reform passed in 2017 will likely accelerate this trend but provide opportunities along the way.







### KEY TAKEAWAYS - MULTIFAMILY





#### **MULTIFAMILY MARKET**

Demand continues to be strong with jobs and population shifting to lower cost cities and tech hubs. New supply deliveries completed at just over 300,000 units in 2018, and with the constraints of financial and labor costs, 2019 and 2020 deliveries are expected to be flat.



### **RENT GROWTH**

Rent growth has bounced back from a low point in late 2017, and is trending upward from a slight dip early this year. Rent growth remains around 3% nationally with significant variations by city, while occupancy remains stable around 95%.



### **VALUATIONS & TRANSACTIONS**

Valuations continue to rise at a steady pace with compressed cap rates, and this has shifted the focus to tech hub and tertiary markets to look for potential value add opportunities. Transaction volume in 2018 came in higher than 2017 with \$115 billion in sales. The markets where the transactions occurred reflect the shift, as most of the transactions occurred in tech hub markets and tertiary markets.







### KEY TAKEAWAYS - OFFICE





#### **COMMERCIAL MARKET**

Demand is steady with job growth in office-using industries outpacing other industries. Completions peaked in 2018, but a lot of markets still have room for absorption. There are secular pressures that continue to alter the office market, such as decreasing square footage per employee, coworking and a changing talent pool for office-using employment.



### **LISTING RATE GROWTH**

Most Matrix markets showed moderate rate growth over the past six months, but some have seen lease rates fall – Boston, Central Valley, Seattle and Birmingham. Conditions are sufficient to maintain this pace of slow occupancy and lease rate growth in most markets.



### **TRANSACTIONS**

Sales volume peaked in 2015 and has been dropping ever since. This is across all markets categories. However, sales prices per sq. ft. have increased nationally since 2000, with tech hub markets having the most growth over the past ten years.





# 2019 OUTLOOK



- GDP and employment will continue to grow, but at a slower, choppier pace.
- Supply/demand conditions in multifamily will continue to favor mild rate growth, with higher rates in the tech hub and tertiary markets.
- A decent economy coupled with the demographic shift of jobs will continue to create office demand in tech hub cities, providing a solid base for office-using sectors.
- For new investments, it's a **sharpshooter's game** to find the right deal at the right price.
- On the operational side its about <u>finding revenue</u> and <u>cost trimming</u> opportunities to grow your NOI from your existing assets.
- The use of new technology is already impacting commercial space in help with costs, especially around utility consumption. This will accelerate as the technologies are more widely adopted.





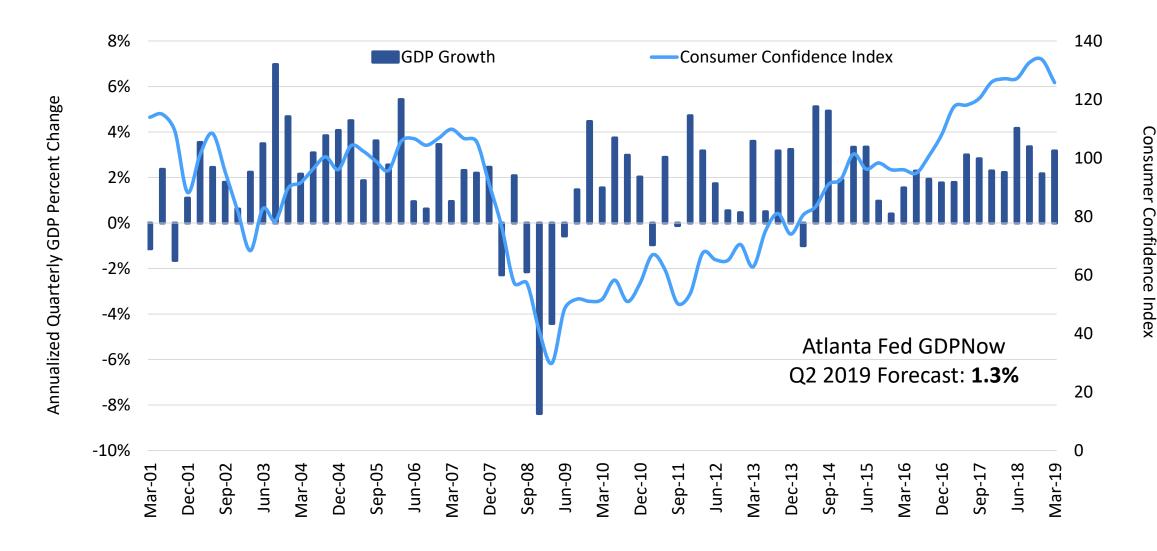


# MACROECONOMIC OUTLOOK



### U.S. Economic Growth Is Decent, but Slowing







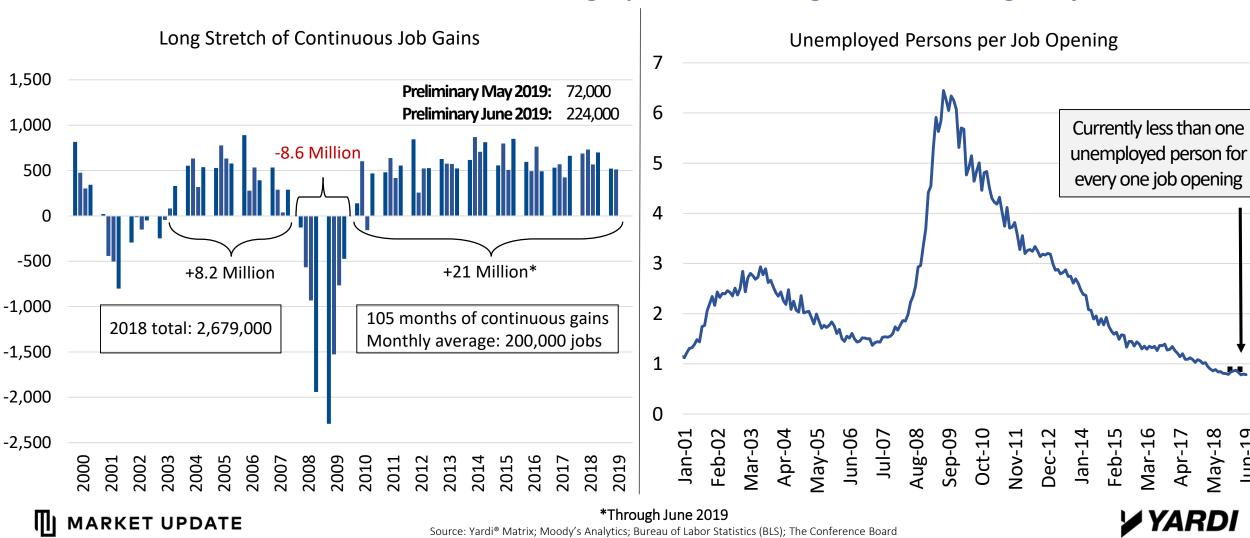


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# Tight Labor Market, Pulling People Off the Sidelines

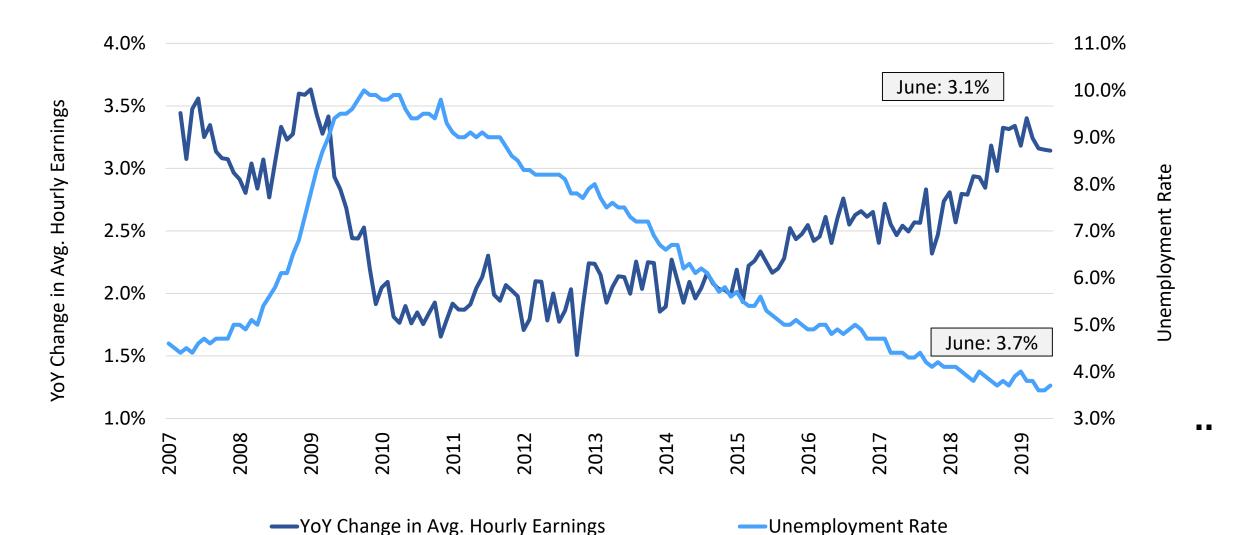
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It is difficult to find labor at the right price, with the right skills, in the right city





### Wage Growth Finally Emerging



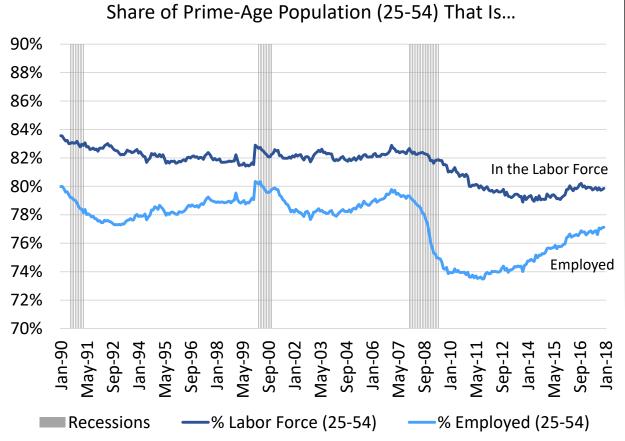


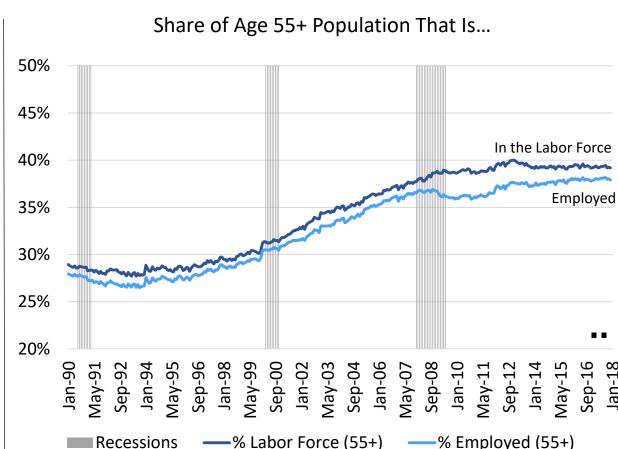




## Reserve Supply of Labor

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- Another 2% of the prime-age population could get engaged approximately 2.6 million people
- Participation rates for people age 55+ are rising buoying the expansion



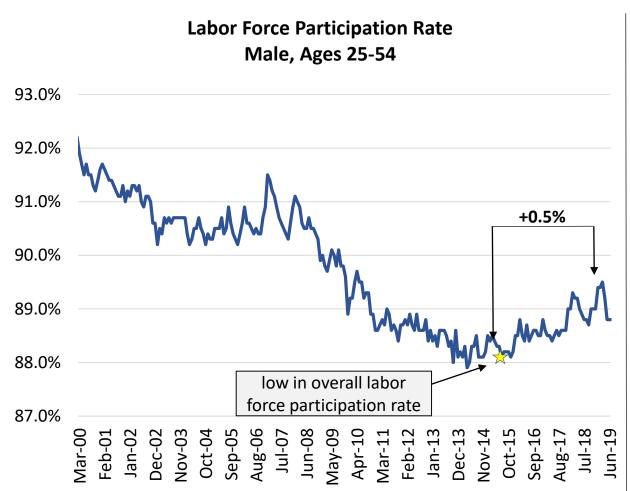


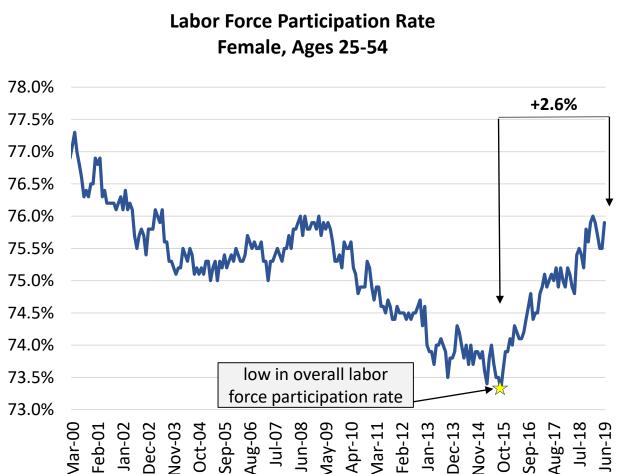






# Increase in Labor Force Participation Rate Among 25-54 Year-Olds Driven by Women



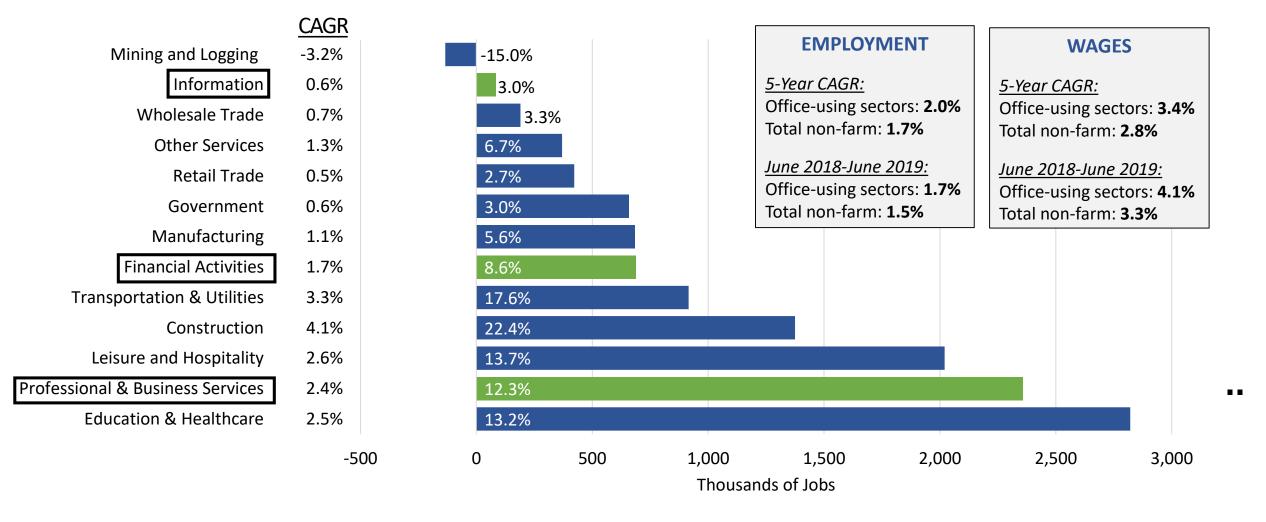








# Office-Using Sectors Outpaced Overall Job Growth Over Last Five Years



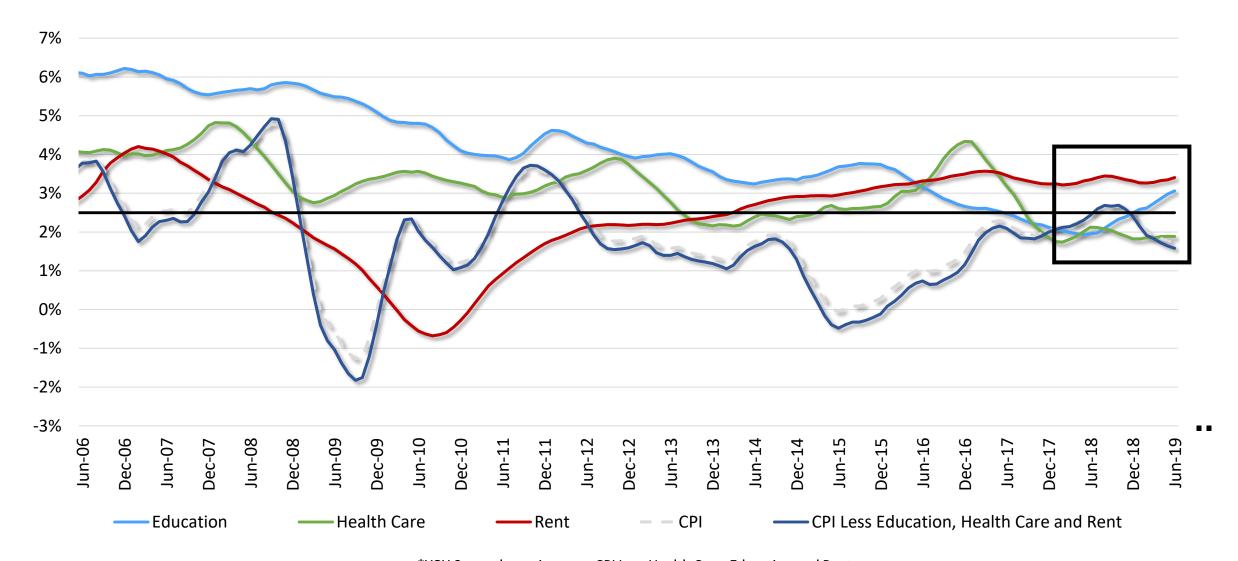




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# Inflation Rising, But Unlikely to Break Out >2.5%

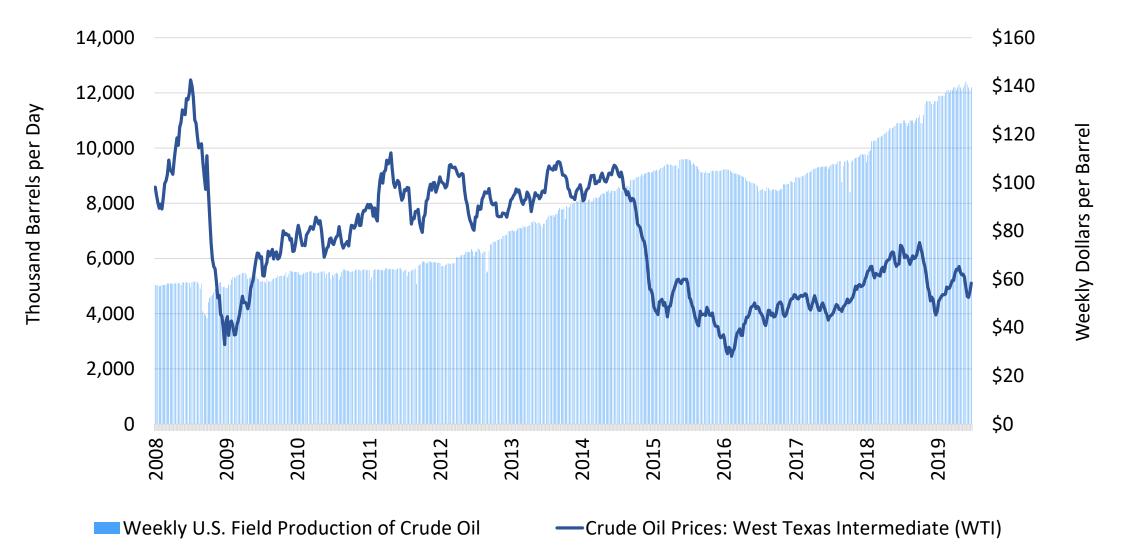








# Why Is There No Inflation? U.S. Oil Is Flooding the Market





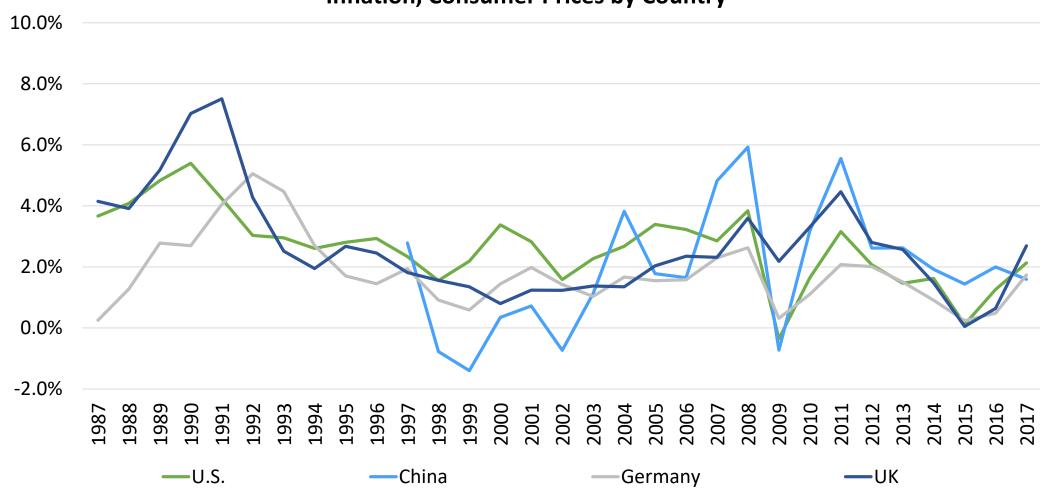




### Inflation Going Down Is a Global Phenomenon



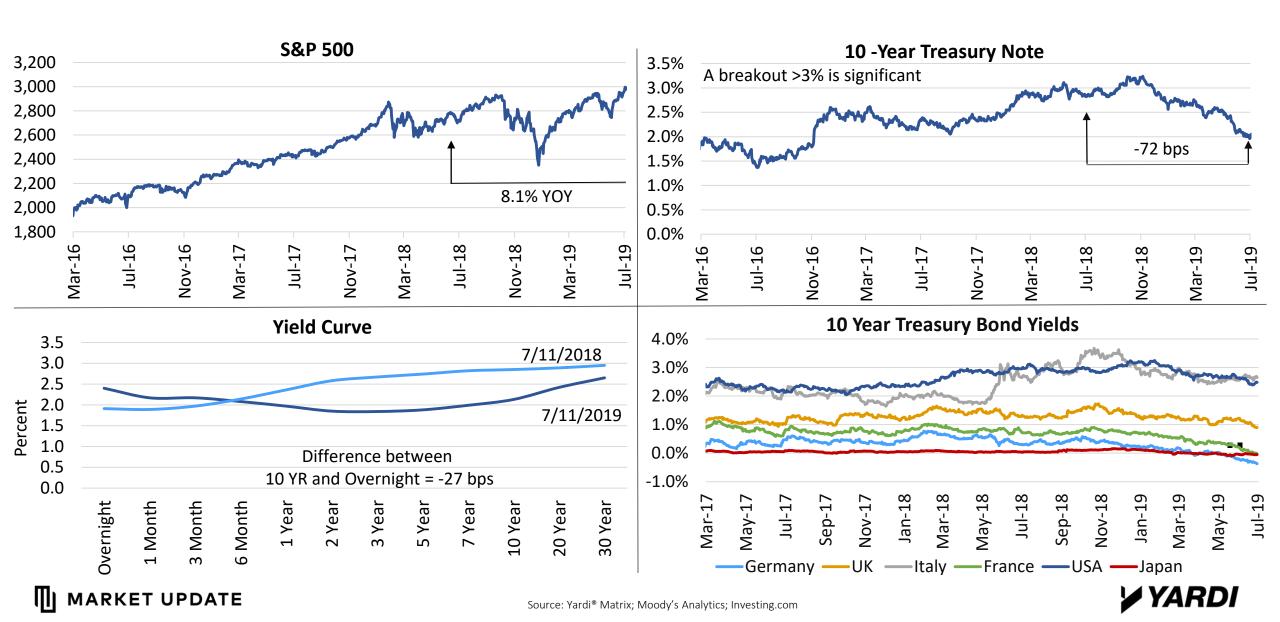








### U.S. & International Financial Market





# U.S. Federal Policy Mix is Mildly Pro-Growth – Shifting Away From Consumers Towards Producers

#### PRO-GROWTH

- Tax Reform
- Regulatory Relief
- Executive Orders
  - Energy
  - Finance
  - Labor Costs

GENERALLY POSITIVE PROGRESS

#### PRO-GROWTH BUT SLOW

- Infrastructure
- Education Reform
  - German Model
- Healthcare Reform

PROGRESS IN TONE, BUT NOT YET SUBSTANTIVE

#### **ANTI-GROWTH**

- Immigration Control
- Trade Renegotiation
  - President Trump announced U.S.
    - will impose tariffs
    - on steel and
    - aluminum imports

RECENT TARIFF MOVE A POTENTIAL DRAG ON GROWTH







### **SUMMARY**

• •

- The U.S. economy is in decent shape, but growth is choppy and is slowing
- Unemployment remains very low and wage growth is good; May job gains were a disappointment, but June bounced back
- How much slack is left?
  - Productivity
  - Job growth

- Inflation rising but not a lot, so the 10-yr rate is the binding constraint on the yield curve which is currently inverted
- Fiscal policy is mildly pro-growth
  - Capital still needs to be deployed







# MULTIFAMILY FUNDAMENTALS



# Demographic & Lifestyle Changes

- Aging population
- Increasing divorce rates
- Young people living at home
  - Student debt burden
- Lifestyle changes
  - People getting married later in life
  - People having less kids and later in life

All of these in combination created a surge out of the recession, but the effects seem to be durable

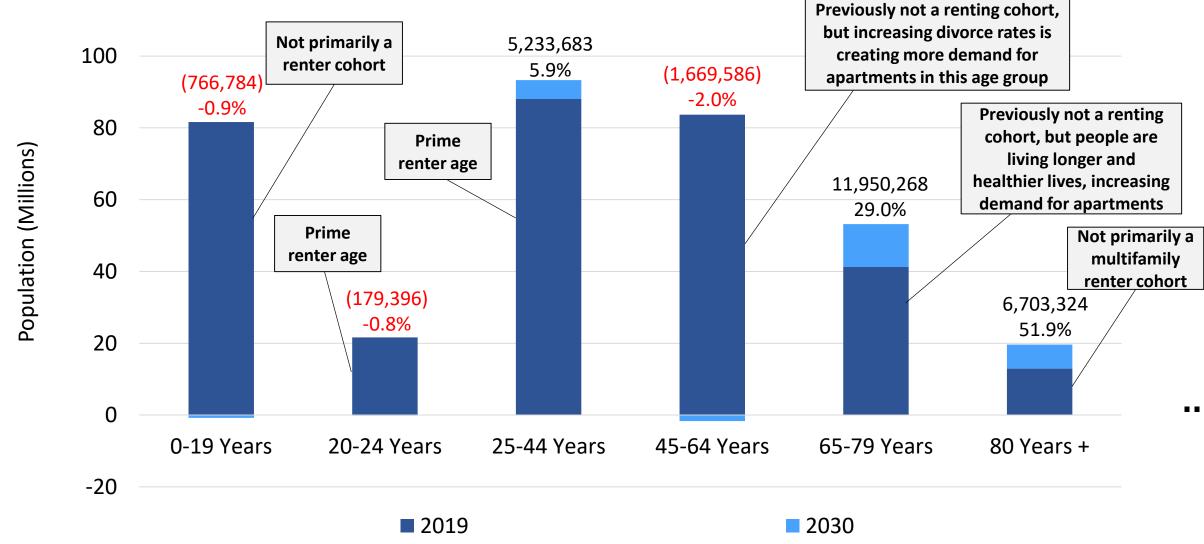




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# Within Each Age Group, There Are Drivers of Demand



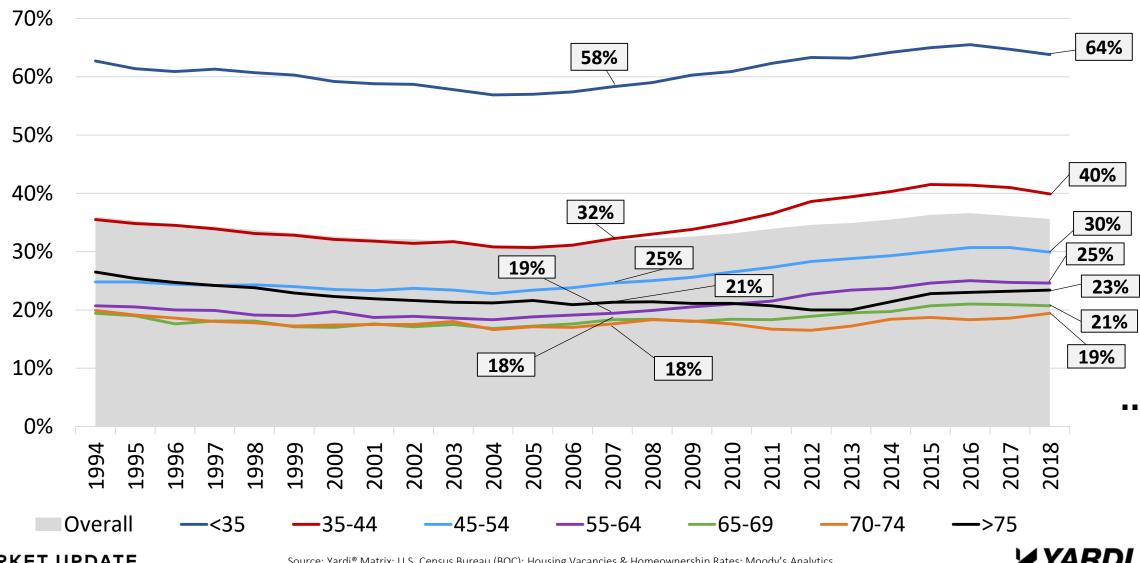








# Historic Rentership by Age Cohort

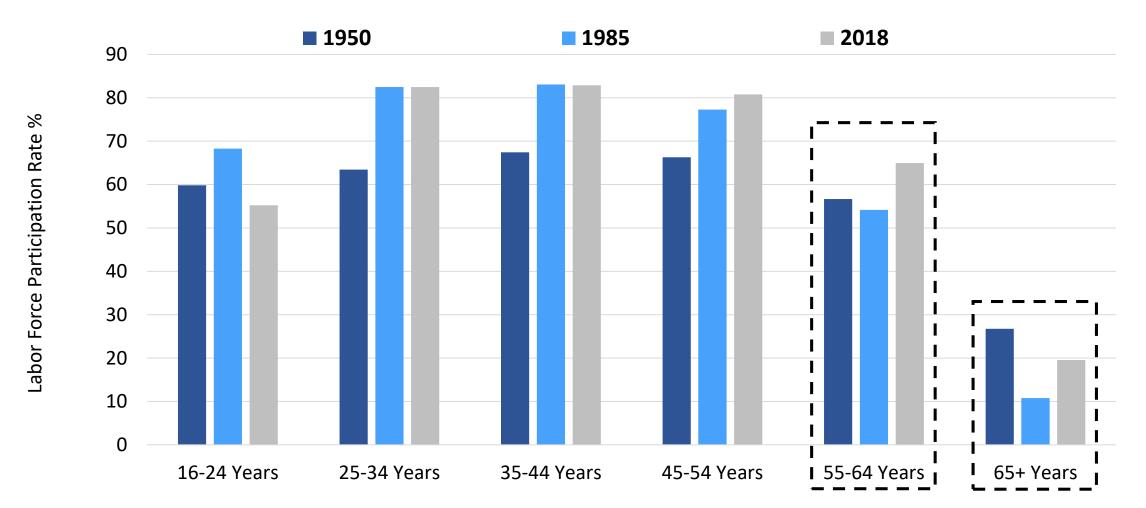




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# More People Working Longer Impacts the Multifamily *and* Office Industries

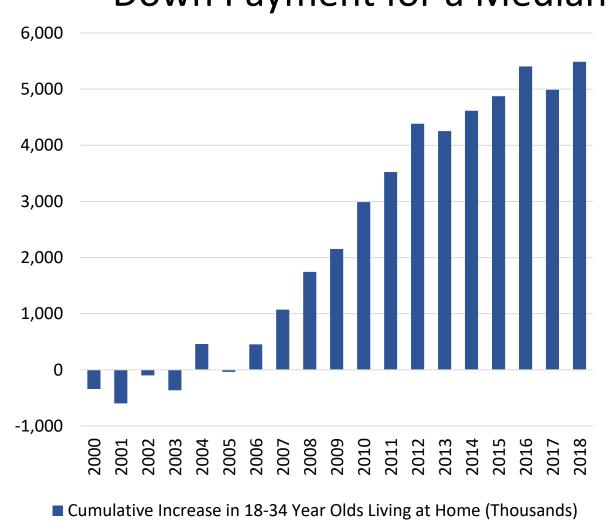


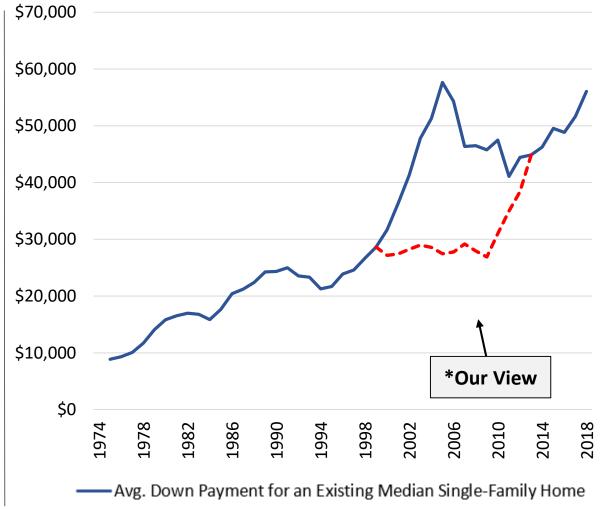




# More Young People Living at Home as Average Down Payment for a Median Single Family Home Increases





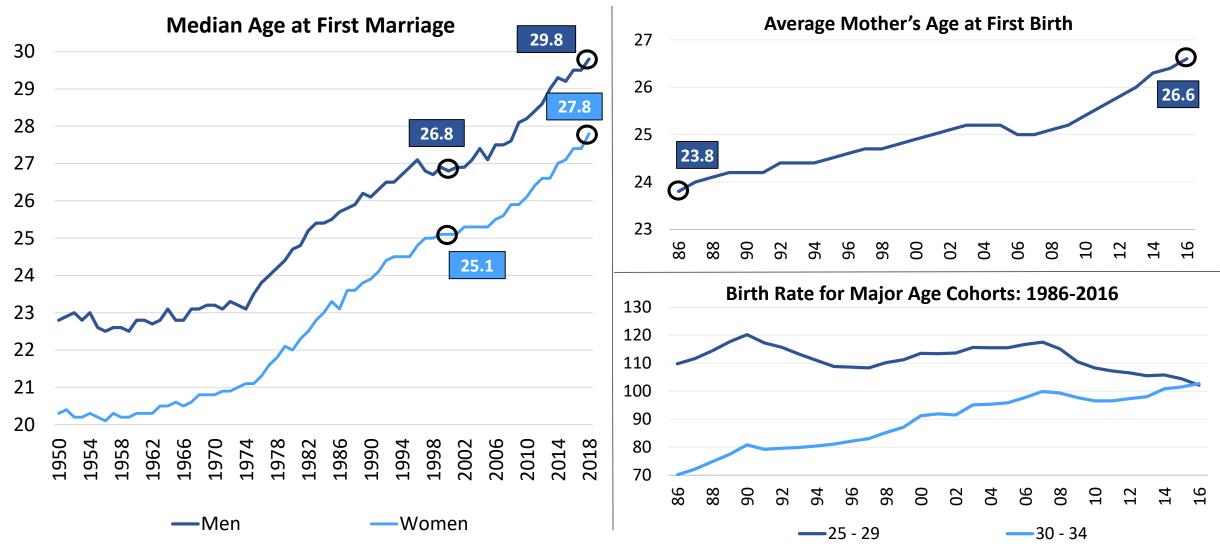






# Lifestyle Changes Fueling Strong Demand for Multifamily



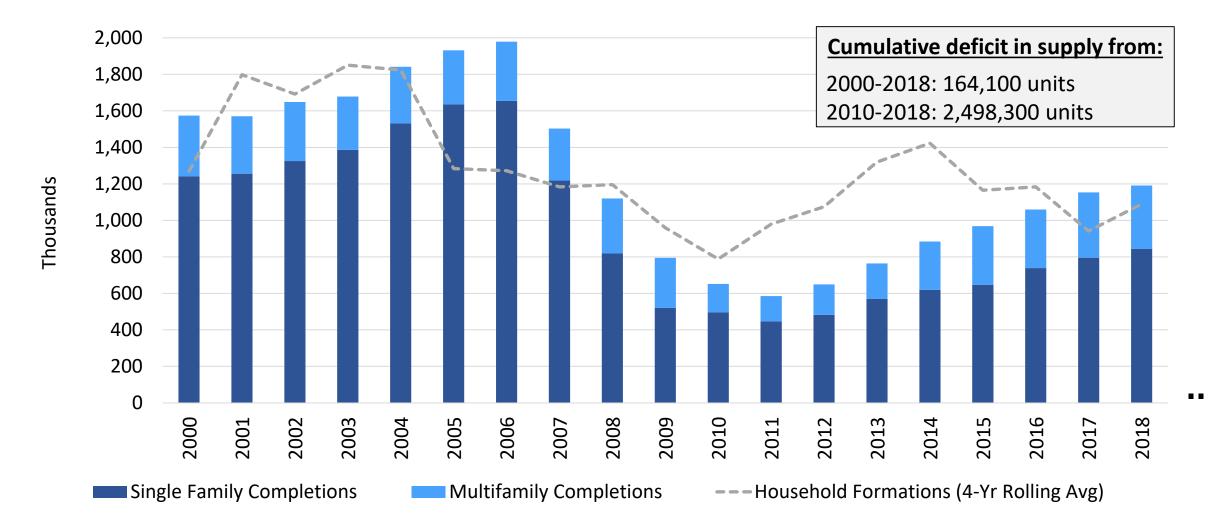








# Multifamily Construction Catching Up to New Household Formation









# Multifamily Supply Has Leveled Out; Construction Delays & Financing Are a Factor

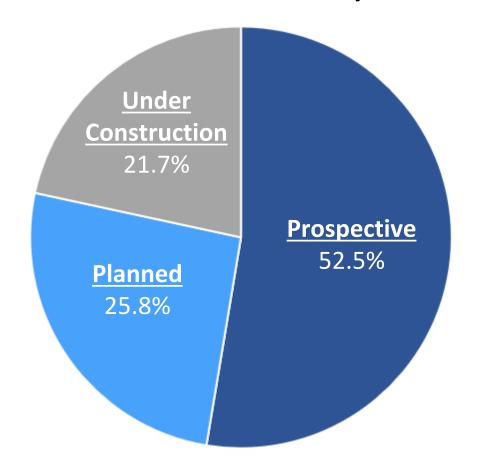








# Based Upon What We See, New Multifamily Supply Is Unlikely to Break Out Above 300K a Year



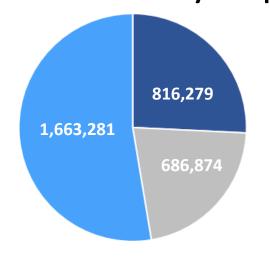
Property Status	Units	% of Total
Prospective	1,663,281	52.5%
Planned	816,279	25.8%
Under Construction	686,874	21.7%
TOTAL:	3,166,434	100.0%





# Where Is Future Multifamily Supply Concentrated?





Units Under Construction

Units Planned

Prospective Units

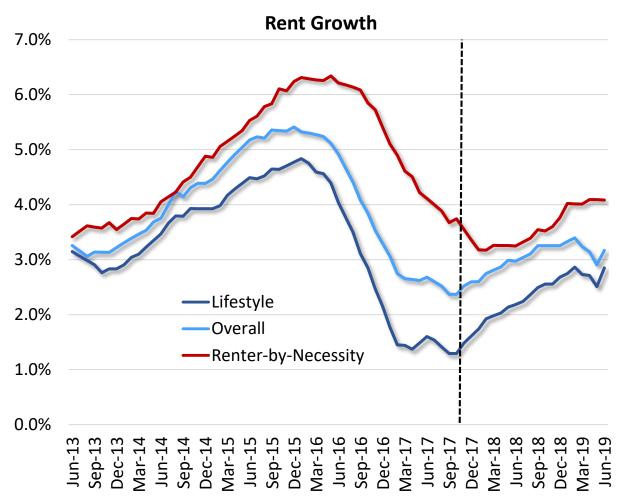
Top 10 Markets	Units	UC as a % of Existing Stock	Top 10 Markets	Units	Planned as a % of Existing Stock	Top 10 Markets	Units	Prospective as a % of Existing Stock
Reno	5,583	14.9%	Southwest Florida Coast	16,151	25.4%	Miami	78,897	62.7%
Asheville	2,124	13.4%	Wilmington	4,648	23.9%	San Francisco – Peninsula	45,997	38.6%
Miami	16,151	12.8%	New Jersey – Northern	42,253	19.5%	Southwest Florida Coast	22,025	34.6%
Boise	2,267	12.4%	Miami	22,440	17.8%	Bay Area – East Bay	44,727	33.7%
Southwest Florida Coast	7,419	11.7%	Asheville	2,754	17.3%	Los Angeles – Metro	55,355	31.1%
Boston	24,454	11.0%	West Palm Beach	9,443	14.2%	Bay Area – South Bay	36,258	29.2%
Bay Area – East Bay	13,193	9.9%	Charleston	8,351	13.4%	Northern Virginia	62,778	28.8%
Denver	26,083	9.8%	Bay Area – South Bay	16,342	13.1%	Chicago – Urban	43,158	25.4%
Charleston	5,997	9.6%	Fort Lauderdale	12,843	13.0%	West Palm Beach	15,768	23.7%
Austin	22,119	9.5%	Los Angeles – Metro	23,068	13.0%	Washington DC-Suburban Maryland	71,267	23.5%

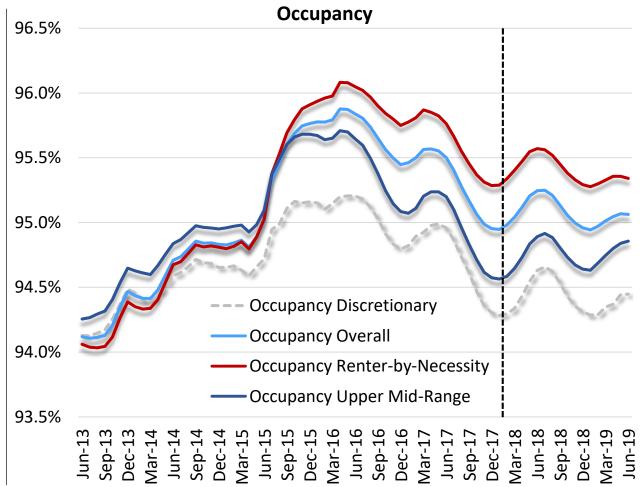






# Multifamily Rent Growth Has Fallen While Occupancy Levels Off



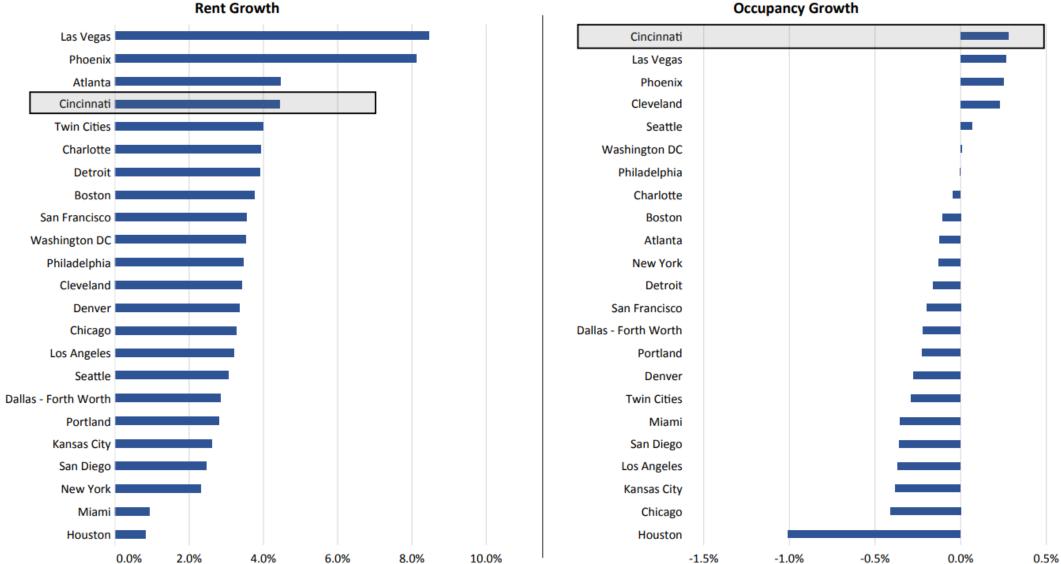






# Major Market Multifamily Rent & Occupancy Growth



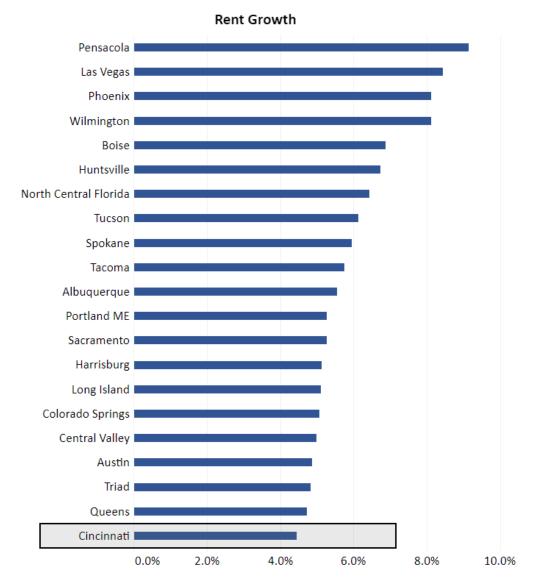


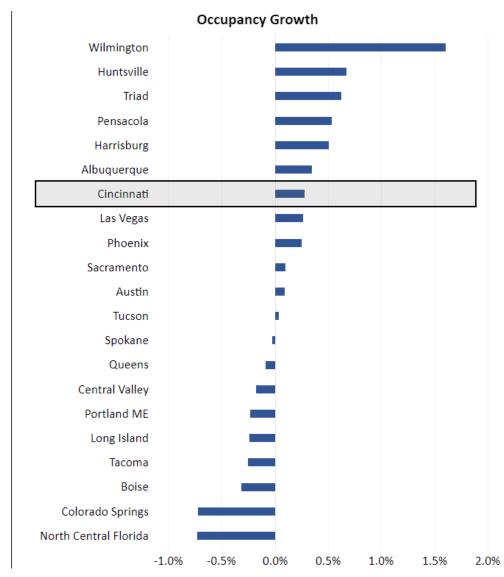


\*Rent and Occupancy Growth June 2018 to June 2019 Source: Yardi® Matrix

### Ranked Multifamily Rent & Occupancy Growth







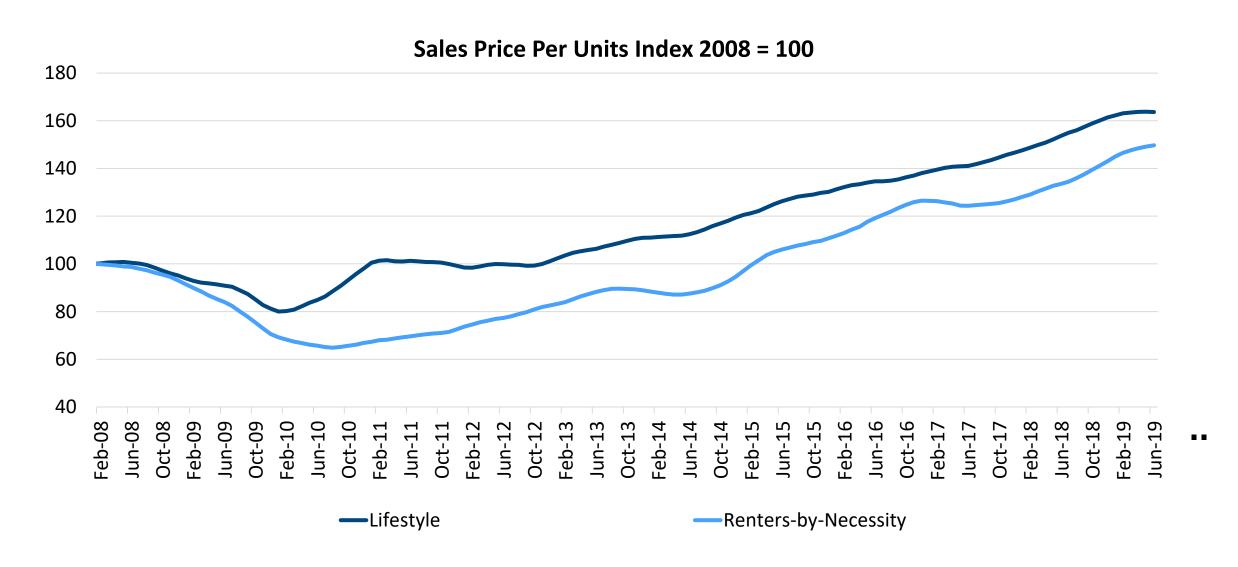






# National Multifamily Values Keep Rising



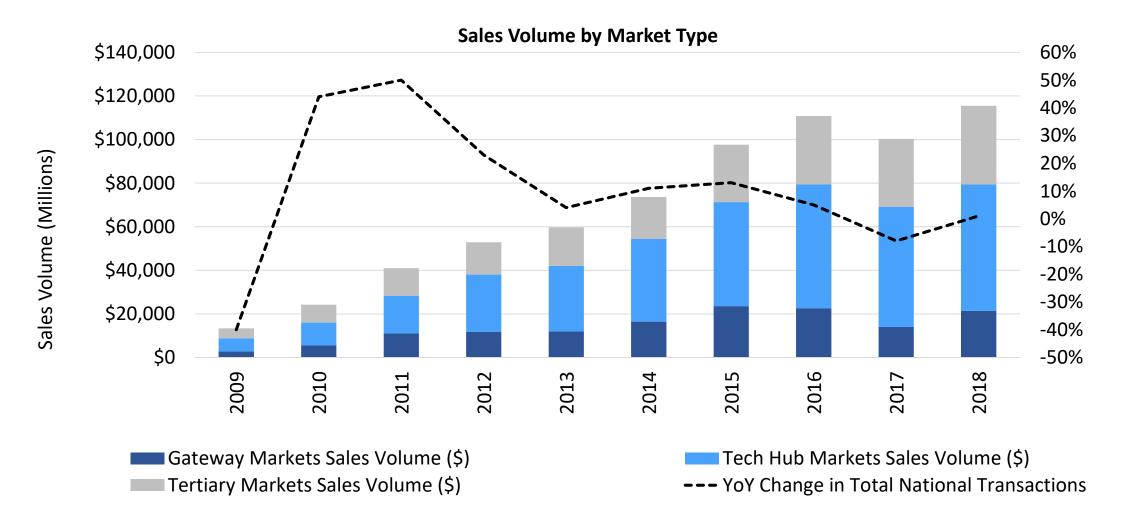








# Multifamily Transactions Fairly Stable Over Past Five Years, but With Higher Dollar Amounts



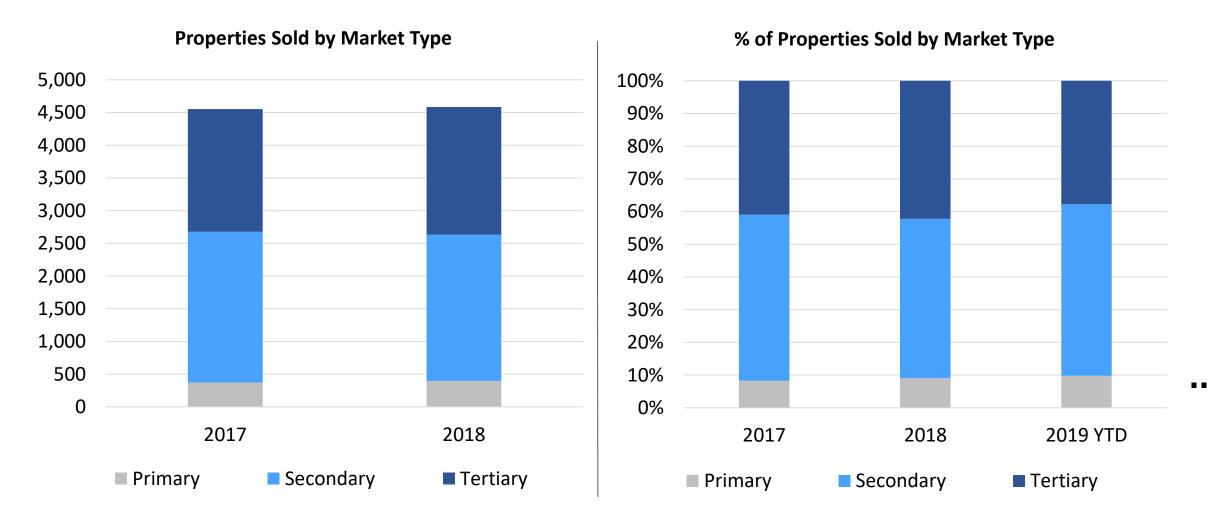




YoY Change in # of Transactions



# Multifamily Sales Are Concentrated in Tech Hub & Tertiary Markets

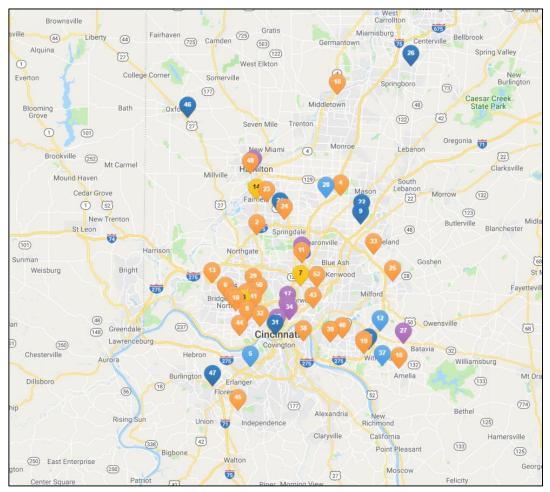






## Cincinnati Multifamily Transaction Composition in 2018





#### **Property Asset Class:**

Discretionary Upper Mid-Range Low Mid-Range Workforce - Upper Workforce - Lower Fully Affordable

2018 Transactions							
# % of Stock							
<b>Properties Sold</b>	53	7.5%					
<b>Units Sold</b> 9,180 8.4%							

2018 Sales Prices					
Avg. Sales Price per Unit	\$81,308				
Avg. Sales Price per Unit for Low Mid-Range Assets	\$82,286				
1-Year Sales Price Growth for Low Mid-Range Assets	-12.1%				
5-Year Sales Price Growth for Low Mid-Range Assets	-5.4%				







## Population Growth Is in Non-Gateway Markets



Market	2016 Pop. Growth	2017 Pop. Growth	2018 Pop. Growth	Overall Trend
Austin	3.0%	2.6%	2.5%	Decelerating
Orlando	2.7%	2.4%	2.4%	Steady
Las Vegas	2.0%	2.0%	2.2%	Accelerating
Raleigh	2.6%	2.3%	2.1%	Decelerating
Phoenix	2.1%	1.8%	2.0%	Accelerating
Dallas	2.2%	2.1%	1.8%	Decelerating
Charlotte	2.1%	2.0%	1.8%	Decelerating
Tampa	2.2%	1.9%	1.7%	Decelerating
Nashville	2.1%	1.8%	1.6%	Decelerating
Salt Lake City	1.7%	1.7%	1.4%	Decelerating
Denver	1.6%	1.2%	1.4%	Accelerating
Seattle	2.0%	1.8%	1.4%	Decelerating
Houston	2.0%	1.4%	1.3%	Decelerating
Atlanta	1.8%	1.5%	1.3%	Decelerating
Columbus	1.2%	1.5%	1.2%	Decelerating
Indianapolis	1.0%	1.1%	1.1%	Steady

Market	2016 Pop. Growth	2017 Pop. Growth	2018 Pop. Growth	Overall Trend
Sacramento	1.3%	1.2%	1.1%	Decelerating
Minneapolis	1.0%	1.1%	1.0%	Decelerating
Portland	1.9%	1.2%	0.9%	Decelerating
Washington DC	0.9%	1.0%	0.8%	Decelerating
Boston	0.8%	0.8%	0.6%	Decelerating
Miami	1.3%	0.8%	0.6%	Decelerating
San Diego	0.8%	0.5%	0.5%	Steady
Cincinnati	0.5%	0.5%	0.5%	Steady
San Francisco	0.7%	0.4%	0.3%	Decelerating
Philadelphia	0.2%	0.2%	0.3%	Accelerating
San Jose	0.7%	0.2%	0.3%	Accelerating
Detroit	0.1%	0.1%	0.1%	Steady
Cleveland	-0.1%	-0.1%	-0.1%	Steady/Negative
Los Angeles	0.2%	0.0%	-0.1%	Decelerating
New York	0.1%	-0.2%	-0.2%	Steady/Negative
Chicago	-0.2%	-0.2%	-0.2%	Steady/Negative

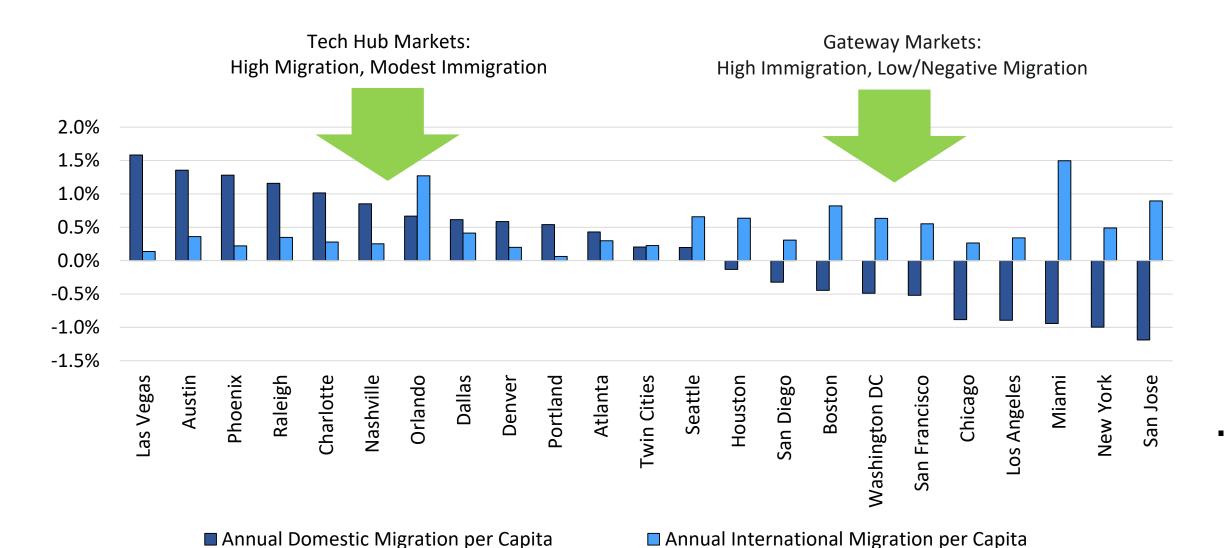




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### Immigration Is Key to Gateway Population Growth











# Tech Hub & Tertiary Markets Will Have Most Multifamily Rent Growth Over Next Couple Years

Market	YoY June 2018 - 2019	2019 (F)	2020 (F)	2021 (F)
Pensacola	9.1%	8.7%	4.3%	2.9%
Wilmington	8.1%	6.1%	4.6%	4.0%
Boise	6.9%	5.9%	5.2%	4.4%
Reno	3.5%	5.7%	6.0%	4.9%
Spokane	5.9%	5.7%	4.4%	4.3%
Midland - Odessa	-0.5%	5.4%	5.0%	4.6%
Las Vegas	8.4%	5.4%	5.0%	4.3%
Phoenix	8.1%	5.3%	3.7%	2.9%
Augusta	3.3%	5.2%	4.0%	3.3%
North Central Florida	6.4%	5.1%	4.6%	4.3%

Market	YoY June 2018 - 2019	2019 (F)	2020 (F)	2021 (F)
Tucson	6.1%	5.1%	4.0%	3.3%
Tacoma	5.7%	4.9%	5.3%	4.9%
Dayton	3.8%	4.8%	3.1%	3.1%
Central Valley	5.0%	4.8%	5.6%	5.2%
Atlanta - Suburban	4.5%	4.8%	4.4%	4.8%
Worcester - Springfield	4.2%	4.7%	3.7%	3.4%
Winston - Salem	4.8%	4.7%	4.9%	4.2%
Central Coast	4.3%	4.4%	4.1%	4.1%
Colorado Springs	5.1%	4.3%	4.6%	4.5%
Long Island	5.1%	4.3%	3.6%	3.7%







# Tertiary Markets & a Couple Gateway Markets Will Have Least Multifamily Rent Growth Over Next Couple Years

Market	YoY June 2018 - 2019	2019 (F)	2020 (F)	2021 (F)
Pittsburgh	3.3%	2.2%	3.6%	2.4%
Detroit	3.9%	2.2%	2.5%	2.7%
Bridgeport - New Haven	3.1%	2.1%	1.9%	1.7%
Baltimore	2.9%	2.0%	2.0%	1.8%
Central East Texas	1.9%	1.9%	0.9%	0.8%
Portland	2.8%	1.9%	3.3%	3.2%
Oklahoma City	2.8%	1.9%	2.0%	2.5%
San Diego	2.5%	1.8%	2.9%	2.5%
Houston - West	0.5%	1.7%	2.1%	2.6%
Rochester	3.9%	1.7%	1.9%	1.5%

Market	YoY June 2018 - 2019	2019 (F)	2020 (F)	2021 (F)
Tulsa	2.4%	1.6%	1.4%	1.0%
Des Moines	0.7%	1.5%	2.1%	1.7%
Little Rock	1.2%	1.4%	1.6%	1.4%
Wichita	2.5%	1.2%	1.7%	1.7%
Baton Rouge	-1.4%	1.1%	0.8%	0.8%
Manhattan	2.2%	0.9%	2.0%	1.7%
Amarillo	1.1%	0.8%	0.4%	0.5%
New Jersey - Central	1.9%	0.7%	1.7%	1.8%
Corpus Christi	1.4%	0.6%	1.0%	0.9%
El Paso	2.3%	0.1%	1.4%	1.0%







## Matrix Expert Multifamily Operating Data Per Unit



12-month period Ending May 2019	Cincinnati	Austin	Boston	Chicago	Denver	Los Angeles	Manhattan	Miami
Total Income	\$11,700.10	\$15,046.54	\$25,180.88	\$22,195.92	\$18,080.62	\$28,599.41	\$38,939.36	\$19,586.78
Payroll	\$1,442.66	\$1,380.42	\$1,969.58	\$2,033.78	\$1,596.67	\$1,826.80	\$3,591.82	\$1,337.26
Marketing & Advertising	\$142.12	\$257.14	\$323.12	\$391.54	\$227.74	\$263.40	\$593.95	\$254.30
Repairs & Maintenance	\$958.94	\$725.54	\$1,623.83	\$1,533.40	\$898.58	\$1,779.35	\$1,687.62	\$1,464.49
Administrative	\$215.16	\$312.38	\$800.76	\$780.38	\$377.63	\$752.02	\$1,357.66	\$652.66
Management Fees	\$434.93	\$358.21	\$786.01	\$636.56	\$507.34	\$757.48	\$802.97	\$434.59
Utilities	\$795.17	\$901.44	\$1,148.15	\$1,131.52	\$844.57	\$1,146.44	\$1,199.40	\$692.82
Real Estate & Other Taxes	\$793.09	\$2,871.88	\$2,303.34	\$2,096.16	\$1,313.30	\$2,508.01	\$2,920.75	\$1,806.55
Insurance	\$165.00	\$211.57	\$346.26	\$231.73	\$225.16	\$532.21	\$679.86	\$414.71
Total Operating Expense	\$4,947.13	\$7,050.42	\$9,438.92	\$9,013.98	\$6,012.86	\$9,982.68	\$13,026.25	\$7,173.91
Net Operating Income	\$6,752.97	\$7,996.12	\$15,741.96	\$13,181.94	\$12,067.75	\$18,616.73	\$25,913.11	\$12,412.87
Operating Margin	57.7%	53.1%	62.5%	59.4%	66.7%	65.1%	66.5%	63.4%
Cap Rate (May 2019)	8.0%	5.6%	4.8%	4.4%	5.0%	4.4%	3.6%	5.9%







#### **SUMMARY**

Demand is strong, but there are constraints on supply due to construction delays and financing

Rent growth continues to hum along, with lower asset classes outperforming

Sales prices continue to rise, and most transactions occur in tech hub and tertiary markets, where population is also growing

Rent growth will continue to grow the most in tech hub and tertiary markets with the support of strong population and employment fundamentals





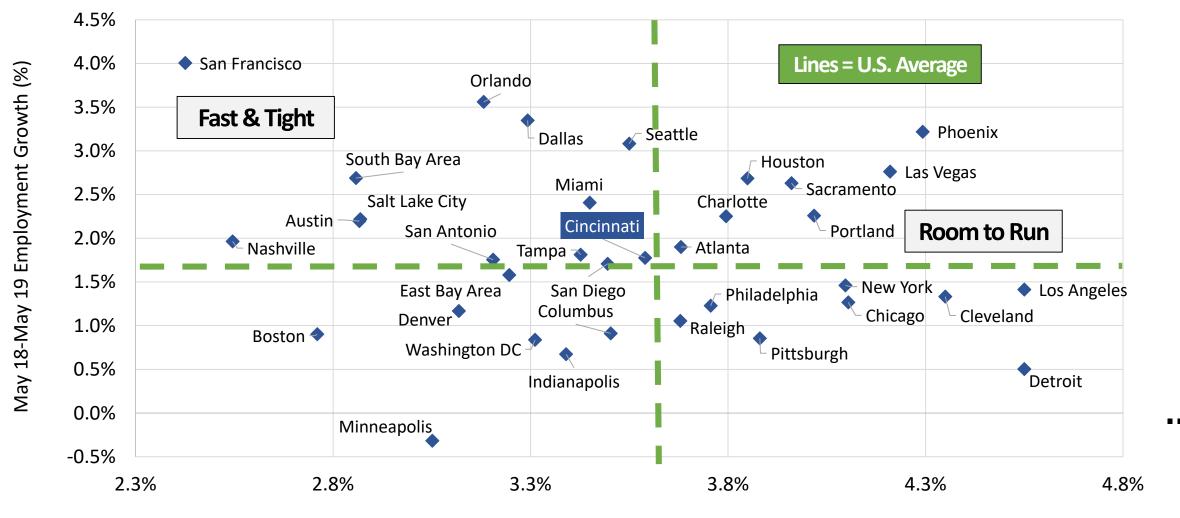


## OFFICE FUNDAMENTALS



## Tech Hub Markets Have Most Dynamic Job Growth





May 2019 Unemployment Rate (%)



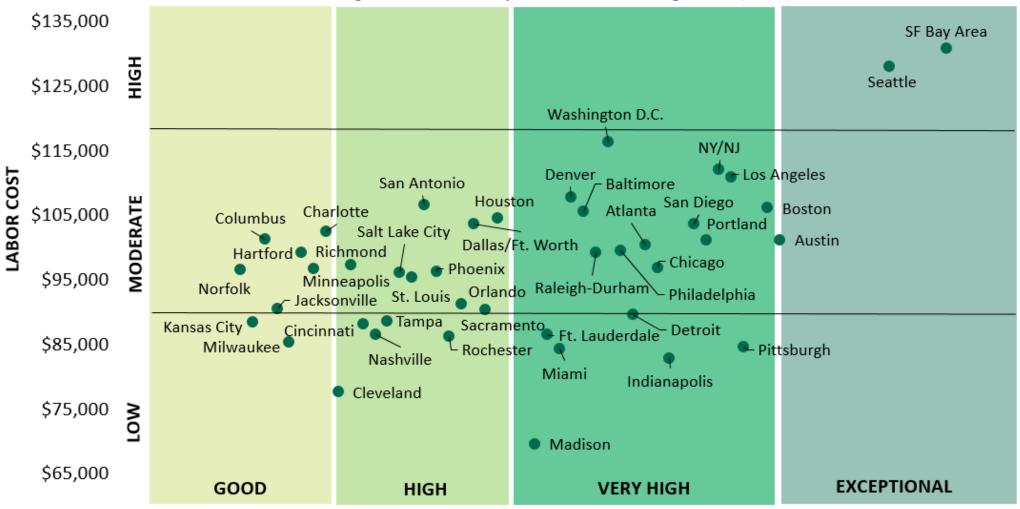




### Tech Talent Quality vs. Cost Analysis



Average Annual Salary for Software Engineer (USD)







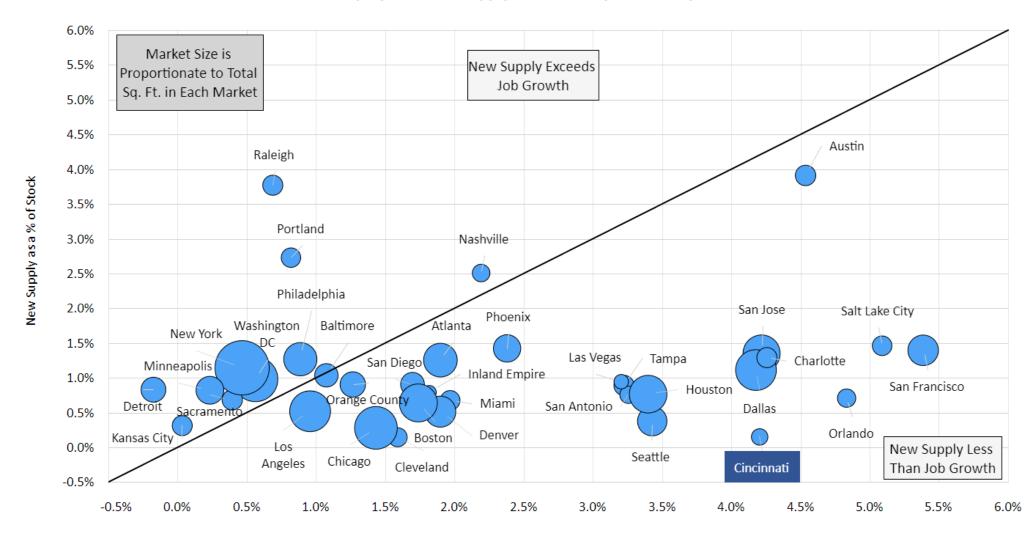




### Most Markets Are Absorbing Office Space

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Employment and Supply Growth: May 2018 - May 2019









## Office Fundamentals Improving in Tech Hub Markets

#### **Top 10 Markets**

Market	6-Month Change in Full-Service Equivalent Asking Rents	6-Month Change in Vacancy Rate	June Full-Service Equivalent Asking Rent	June Vacancy Rate	New Supply as a % of Stock Last 12 months
San Francisco	22.4%	-1.4%	\$71.4	8.1%	1.4%
Brooklyn	11.4%	1.3%	\$55.2	8.4%	2.8%
Bay Area	9.7%	0.5%	\$47.2	15.4%	1.3%
Tampa - St. Petersburg	5.9%	1.0%	\$26.8	12.0%	0.9%
Raleigh - Durham	4.4%	-0.8%	\$25.8	12.9%	3.8%
West Palm Beach	3.9%	1.3%	\$33.7	13.5%	0.7%
Nashville	3.7%	1.2%	\$31.9	11.0%	2.5%
Austin	3.1%	-1.3%	\$38.9	9.0%	3.9%
Fort Lauderdale	3.1%	-0.8%	\$29.3	12.4%	0.7%
Columbus	2.8%	-0.9%	\$20.1	14.3%	2.0%







## Office Fundamentals Improving in Tech Hub Markets

#### **Bottom 10 Markets**

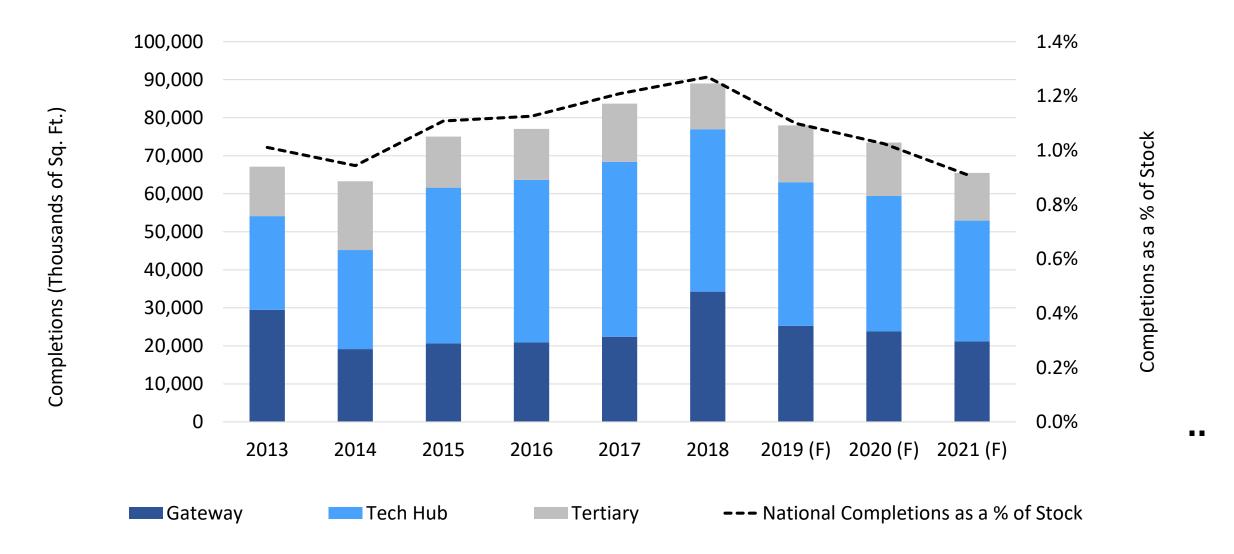
Market	6-Month Change in Full-Service Equivalent Asking Rents	6-Month Change in Vacancy Rate	June Full-Service Equivalent Asking Rent	June Vacancy Rate	New Supply as a % of Stock Last 12 months
Boston	-7.6%	0.1%	\$35.6	9.9%	0.6%
Central Valley	-5.4%	2.2%	\$23.8	9.7%	0.3%
Seattle	-4.3%	-0.3%	\$36.6	8.3%	0.4%
Birmingham	-3.9%	1.5%	\$19.3	17.1%	0.3%
Baltimore	-2.4%	0.6%	\$24.6	13.1%	1.0%
Cleveland - Akron	-2.4%	2.2%	\$19.8	17.4%	0.2%
Cincinnati	-2.4%	-1.2%	\$17.3	19.3%	0.2%
Las Vegas	-2.3%	0.2%	\$24.9	16.3%	0.9%
Orlando	-2.0%	0.4%	\$21.4	11.9%	0.7%
Salt Lake City	-1.8%	1.2%	\$23.6	11.3%	1.5%







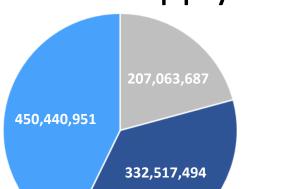
### Office Supply Additions Peaked in 2018







## Where Is Future Office Supply Concentrated?



■ Under Construction Sq. Ft.

Top 10 Markets	Sq. Ft. UC	UC as a % of
	(MM)	<b>Existing Stock</b>
Brooklyn	5.1	15.1%
Queens	2.3	12.4%
Nashville	5.4	9.4%
Austin	7.0	8.8%
South Bend	0.6	7.8%
Seattle	11.8	7.5%
Charlotte	5.3	7.1%
San Francisco	11.7	6.8%
El Paso	0.4	5.2%
Northern Central Florida	0.4	4.6%

■ Planned Sq. Ft.

Top 10 Markets	Sq. Ft. Planned	Planned as a % of		
	(MM)	<b>Existing Stock</b>		
Austin	16.1	20.3%		
Brooklyn	5.1	14.9%		
Miami	8.8	12.4%		
San Francisco	20.1	11.7%		
Seattle	16.4	10.3%		
Wilmington	0.4	9.6%		
Dallas – Fort Worth	29.0	9.4%		
Bay Area	23.9	9.4%		
Mobile	0.6	9.4%		
Atlanta	19.5	9.3%		

Prospective Sq. Ft.

	Sq. Ft.	Prospective	
Top 10 Markets	Prospective	as a % of	
	(MM)	<b>Existing Stock</b>	
Nashville	14.6	25.2%	
Bay Area	43.4	16.9%	
Austin	11.6	14.7%	
West Palm Beach	4.9	14.0%	
Long Island	7.3	13.6%	•
Pensacola	1.0	12.2%	
Central East Texas	1.0	12.1%	
Fort Lauderdale	5.3	12.0%	
Washington D.C.	44.1	11.9%	
Milwaukee	5.7	11.8%	







### Top 20 Largest Office Projects Under Construction

Property Name	Market	Square Footage
50 Hudson Yards	Manhattan	2,900,000
The Post Office	Chicago	2,800,000
The Spiral	Manhattan	2,800,000
One Manhattan West	Manhattan	2,200,000
3 Hudson Blvd	Manhattan	2,000,000
Two Manhattan West	Manhattan	1,840,000
Robert L. Crandall Global Support Campus	Dallas - Fort Worth	1,800,000
One Vanderbilt	Manhattan	1,755,814
Winthrop Center	Boston	1,612,400
110 North Wacker	Chicago	1,565,909
First Street Tower of Oceanwide Center	San Francisco	1,491,019
California Market Center	Los Angeles	1,296,360
The Dayton's Project	Minneapolis - St. Paul	1,200,000
The Jacx	Queens	1,200,000
State Farm at Park Center - Phase II	Atlanta	1,160,000
Pioneer Natural Resources Headquarters	Dallas - Fort Worth	1,125,000
Rufus 2.0 - Block 20	Seattle	1,117,000
Charlotte Metro Tower	Charlotte	1,025,000



One Congress at Bulfinch Crossing

Nike World Headquarters – Serena Williams Building



1,012,000

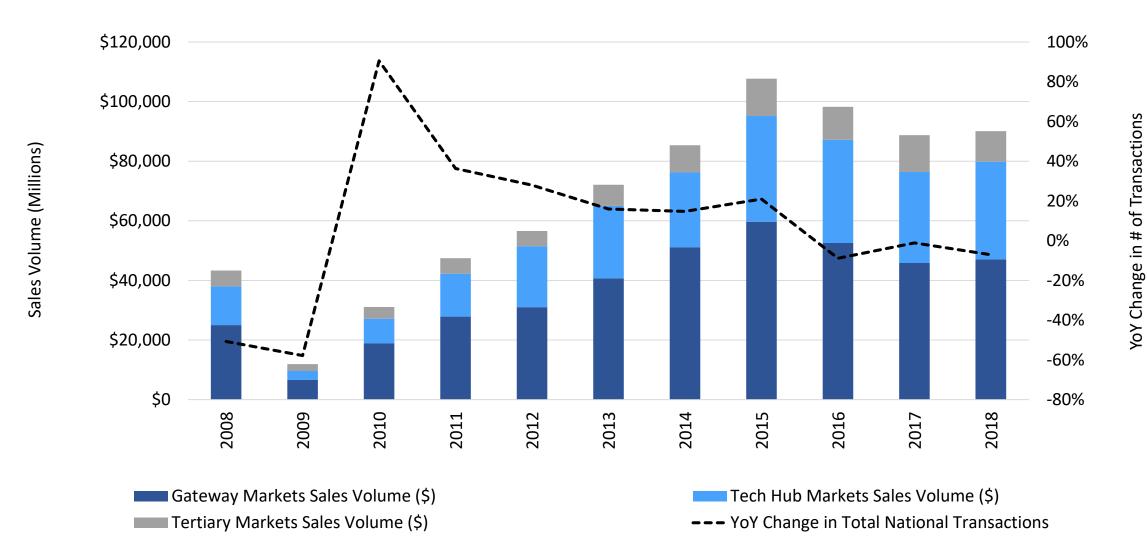
1,000,000

**Boston** 

**Portland** 

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### Office Sales Volume Dropping in Each Market Category





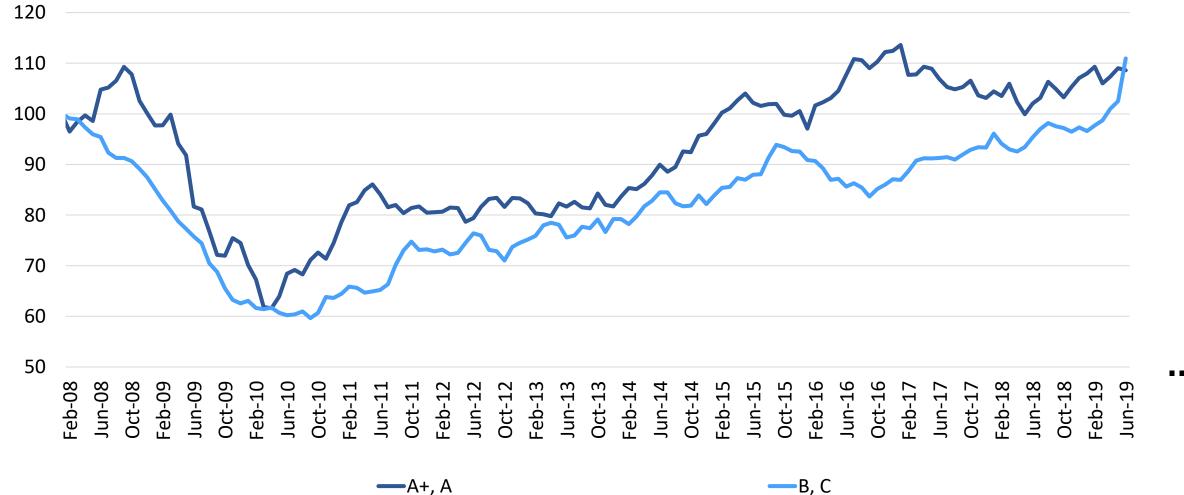


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### Since the Recession, Class A Has Outperformed B/C





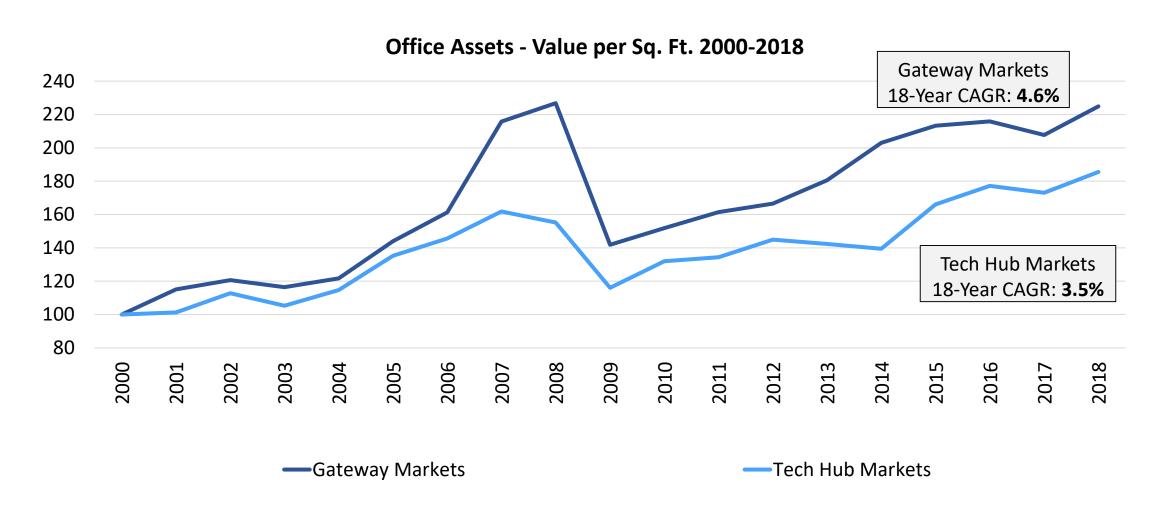








## Office Assets in Gateway Markets Have Outperformed Since 2000, But...



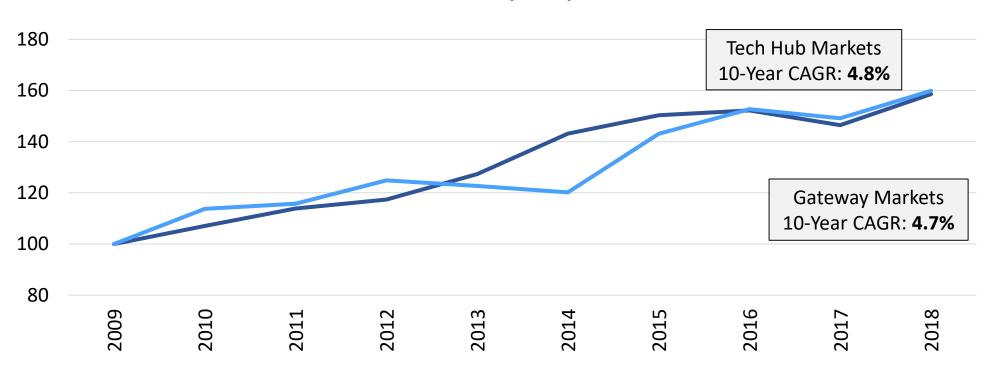


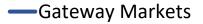




# Office Assets in Tech Hub Markets Have Performed In Line With Gateway Markets Since 2009

Office Assets - Value per Sq. Ft. 2009-2018





—Tech Hub Markets

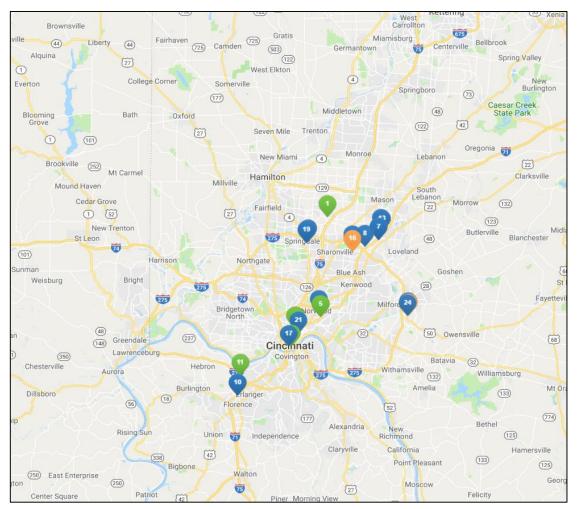




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### Cincinnati Office Transaction Composition in 2018





2018 Transactions							
# % of Stock							
<b>Properties Sold</b>	25	7.8%					
Sq. Ft. Sold	3,326,917	6.8%					

2018 Sales Prices						
Avg. Sales Price per Sq. Ft.	\$100.05					
Avg. Sales Price per Sq. Ft. for Class A+/A Assets	\$132.17					
1-Year Sales Price per Sq. Ft. Growth for Class A+/A Assets	-26.7%					
5-Year Sales Price per Sq. Ft. Growth for Class A+/A Assets	85.6%					

**Building Class:** 







#### Secular Pressures Continue to Alter the Office Market

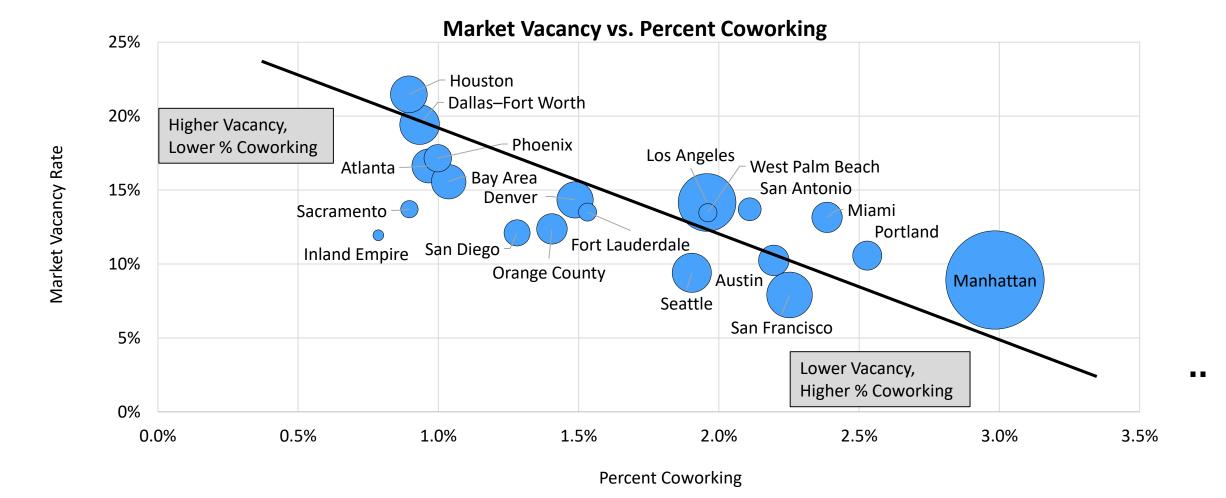
- Coworking
  - Pulls roughly 1-3% of market demand from traditional office leases
  - More highly concentrated in dense, high cost gateway markets
  - More players have entered the market: CBRE, JLL, Tishman, Savills
- Decreasing square foot per employee
  - Specifically in CBD and high-cost metros
- Talent pool for office using employment office is becoming more about the experience
  - Diversifying and moving to lower cost markets
- Capital expenditures are rising in office assets as the labor market tightens and office occupiers view space
  as a part of HR strategy, and most markets still have a lot of space to absorb
- Technological advancements are coming that will change the way we invest in and manage office properties







## Markets With Lower Vacancy Rates Have Higher Proportion of Coworking Space





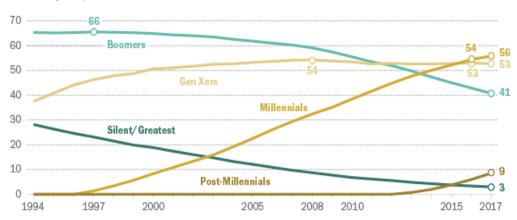


## The Office Has Become an Experience Much Like Retail

#### • •

#### Millennials became the largest generation in the labor force in 2016

U.S. labor force, in millions

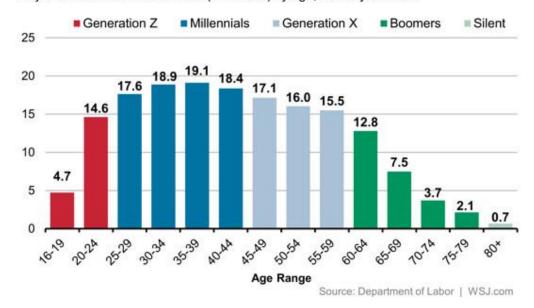


Note: Labor force includes those ages 16 and older who are working or looking for work. Annual averages shown. Source: Pew Research Center analysis of monthly 1994-2017 Current Population Survey (IPUMS).

PEW RESEARCH CENTER

#### The Workforce in 2025

Projected size of U.S. labor force (in millions) by age, for the year 2025



#### From Commercial Property Executive: "Gen-Z's Impact on Workplace Design"

- Gen-Z will comprise 30% of the workforce by 2030
- In the reception area, 100% of participants preferred a personal connection over a strictly digital one
- 86% of Gen-Z indicated that office setting would influence the acceptance of a job offer





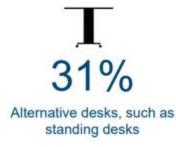


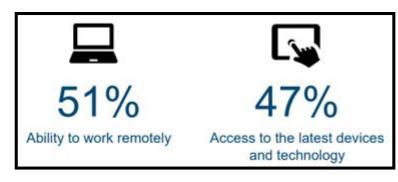
## Capital One 2018 Work Environment Survey

## **Attracting Talent:**

## **Meeting Expectations**







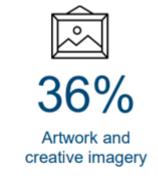




#### **Office Design: Elements That Matter**











and relaxation



**Bold colors** 







# Capital Expenditures Rising as Office Space Becomes Draw for Top Talent

MULTIFAMILY	Cincinnati	Atlanta	Austin	Boston	Manhattan	Miami	San Diego	Seattle	Washington D.C.
Net Operating Income	\$6,382	\$8,451	\$7,303	\$14,505	\$19,056	\$11,638	\$14,444	\$13,377	\$11,144
СарЕх	\$1,575	\$2,041	\$1,410	\$1,818	\$2,068	\$1,226	\$1,540	\$1,397	\$1,475
CapEx as a % of NOI	24.7%	24.2%	19.3%	12.5%	10.9%	10.5%	10.7%	10.4%	13.2%

OFFICE	Cincinnati	Atlanta	Austin	Boston	Manhattan	Miami	San Diego	Seattle	Washington D.C.
Net Operating Income	\$10.25	\$12.77	\$18.42	\$21.94	\$31.21	\$18.72	\$18.17	\$23.87	\$20.74
СарЕх	\$1.79	\$4.60	\$4.00	\$5.38	\$6.49	\$4.51	\$4.87	\$4.70	\$4.49
CapEx as a % of NOI	17.5%	36.0%	21.7%	24.5%	20.8%	24.1%	26.8%	19.7%	21.6%







## Matrix Expert Office Operating Data Per Sq. Ft.

12-month period ending May 2019	Cincinnati	Atlanta	Austin	Boston	Chicago	Denver	Los Angeles	Manhattan
Total Income	\$18.72	\$22.46	\$32.08	\$38.33	\$25.69	\$24.42	\$33.24	\$59.95
Payroll	\$0.74	\$1.00	\$1.00	\$1.08	\$1.24	\$1.00	\$1.43	\$2.96
Marketing & Advertising	\$0.02	\$0.08	\$0.05	\$0.08	\$0.07	\$0.08	\$0.07	\$0.10
Repairs & Maintenance	\$2.24	\$2.08	\$2.29	\$2.98	\$2.89	\$2.35	\$3.14	\$4.64
Administrative	\$0.58	\$1.12	\$0.79	\$1.28	\$1.30	\$0.79	\$1.58	\$2.21
Management Fees	\$0.56	\$0.72	\$0.85	\$0.97	\$0.76	\$0.79	\$0.94	\$1.44
Utilities	\$1.50	\$1.88	\$1.88	\$2.83	\$1.34	\$1.68	\$2.46	\$3.11
Real Estate & Other Taxes	\$2.62	\$2.46	\$6.42	\$6.59	\$6.00	\$4.42	\$3.13	\$12.82
Insurance	\$0.13	\$0.17	\$0.17	\$0.25	\$0.24	\$0.19	\$0.56	\$0.50
Total Operating Expense	\$8.47	\$9.70	\$13.66	\$16.39	\$13.97	\$11.41	\$13.64	\$28.74
Net Operating Income	\$10.25	\$12.77	\$18.42	\$21.94	\$11.72	\$13.01	\$19.60	\$31.21
Operating Margin	54.8%	56.9%	57.4%	57.2%	45.6%	53.3%	59.0%	52.1%
Cap Rate (May 2019)	9.1%	6.6%	7.4%	6.4%	6.3%	6.0%	5.4%	3.9%





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#### **SUMMARY**

New supply peaked in 2018, and various factors are reducing demand for office space

 Coworking, telecommuting, outsourcing 2

Both gateway and tech hub markets saw rising asking rents over the past six months, with the highest growth in San Francisco, Brooklyn, Bay Area, Tampa and Raleigh

Source: Yardi® Matrix

3

Transactions are falling nationally, but sales prices have been increasing

Sales prices per sq. ft.
 increased the most in
 gateway markets since 2000,
 however, tech hub markets
 have performed in line with
 gateways since 2008, further
 indicating that the timing of
 investment is key









## **CITY SPOTLIGHT**

### What Helps a City Reach Its Critical Point to Succeed?

#### ALL EXISTING TECH MARKETS HAVE THESE CHARACTERISTICS TO SOME DEGREE

PUBLIC & PRIVATE PARTNERSHIPS

FRIENDLY BUSINESS ENVIRONMENT

COMMUNITY & AMENITIES THAT RETAIN & DRAW IN TALENT

EDUCATED WORKFORCE







## What's Going on in Cincinnati?

#### --

#### **PUBLIC & PRIVATE PARTNERSHIPS**

- The Banks \$2.5 billion partnership between the City of Cincinnati, Hamilton County and private developer Carter/Dawson
  - 120 acres of residential and commercial development on Cincinnati's Central Riverfront
- "Smart Cincy" vision partnership between the City of Cincinnati and Cincinnati Bell
  - Free Wi-Fi to downtown along the 3.6-mile route

## COMMUNITY & AMENITIES THAT RETAIN & DRAW IN TALENT

- \$250 million mixed-use development under construction in the Uptown Innovation Corridor
  - Phase I includes 360K sq. ft. of office space, a
     1,350-space underground parking garage and a
     150-room Hilton Homewood Suites Hotel
  - The University of Cincinnati has signed a lease for 180K sq. ft. of space to house its digital futures building

#### FRIENDLY BUSINESS ENVIRONMENT

- State Rank #20
- Job Creation Tax Credits (JCTC) and Property Investment Reimbursements (PIR): income tax incentives provided to a company that commits to expand or relocate in the City of Cincinnati
- AssureCare: will create 100 new jobs and build headquarters in Cincinnati – received a 2.2%, 9-year tax credit, estimated at \$1.8 million

#### **EDUCATED WORKFORCE**

 35% of adults in the City of Cincinnati have a bachelor's degree or higher

University	Approx. Enrollment 2018
University of Cincinnati	45,949
Miami University	19,752
Northern Kentucky University	14,488
Xavier University	7,132
Mount St. Joseph University	2,017

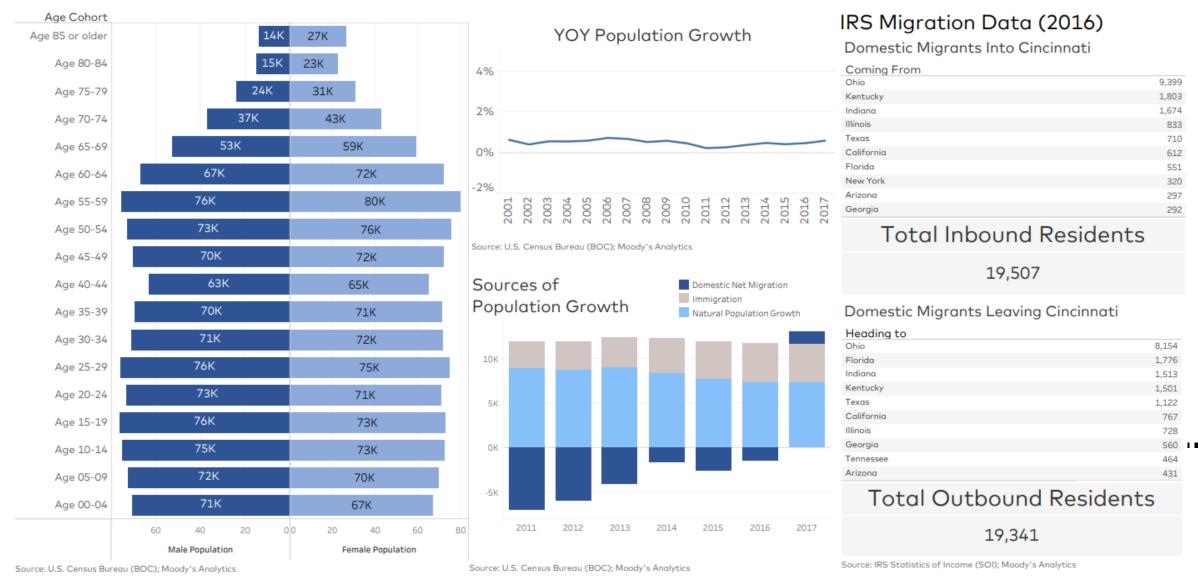






### Cincinnati Demographics Overview



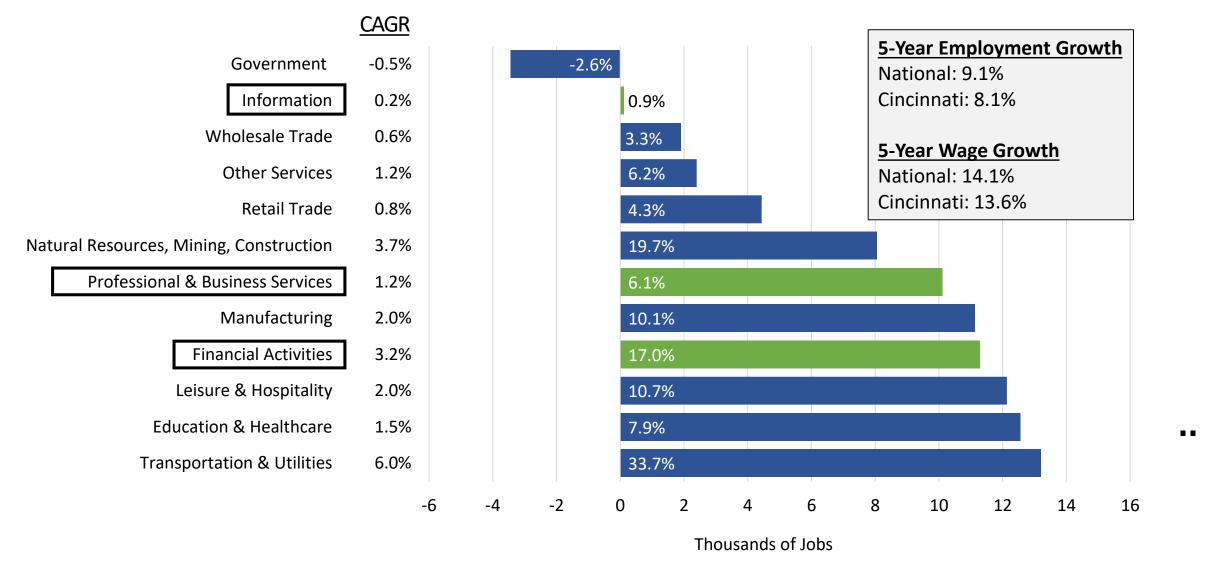






### Cincinnati Employment Growth May 2014 – May 2019



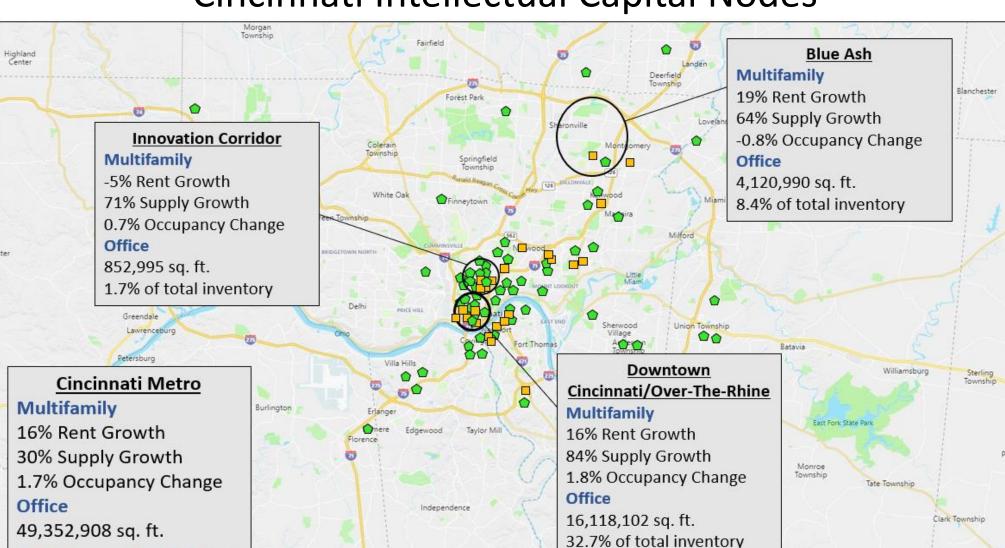








### Cincinnati Intellectual Capital Nodes



Office Development

Multifamily Development



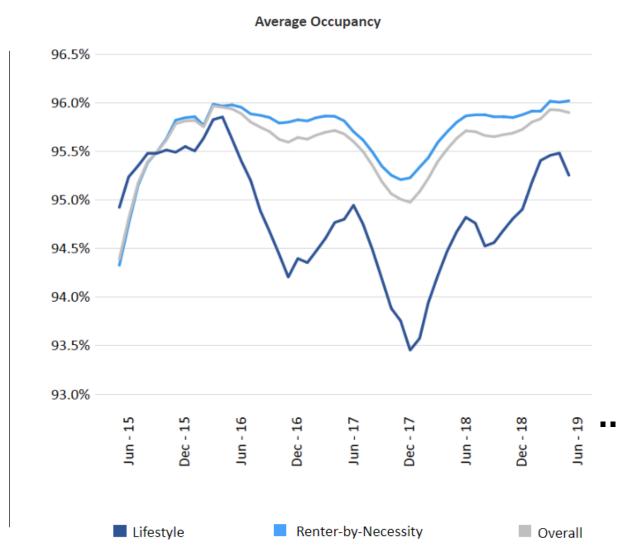


## Multifamily Rents & Occupancy: Cincinnati





Asset Class	Rent CAGR 2015-2019	Rent Growth 2018-2019
Lifestyle	2.2%	3.3%
Renter-by-Necessity	3.7%	4.9%
Overall	3.2%	4.4%









# Cincinnati Top 5 Submarkets Multifamily Rent & Occupancy Forecasts

		2018		:	2019 Forecast	:		2020 Foreca	st
Submarket	Rent Growth	Avg Rent	Occupancy	Rent Growth	Rent	Occupancy	Rent Growth	Rent	Occupancy
Cincinnati - Clifton	2.1%	\$847	95.9%	6.8%	\$905	94.9%	2.4%	\$927	95.1%
Amelia\Batavia	3.9%	\$729	94.3%	6.6%	\$777	94.5%	2.5%	\$797	94.6%
Cincinnati - Roselawn	4.0%	\$745	95.7%	5.3%	\$785	94.8%	2.2%	\$802	94.9%
West Chester - west	6.2%	\$1,155	94.3%	5.0%	\$1,213	95.4%	2.3%	\$1,240	95.6%
Fairfield	3.0%	\$877	94.8%	4.7%	\$919	94.7%	2.2%	\$939	95.0%
Cincinnati	3.6%	\$963	95.7%	2.8%	\$987	95.7%	2.3%	\$1,010	95.9%







## Cincinnati Office Fundamentals

Asset Class	Count	Sq. Ft. (Thous.)	Direct Sq. Ft. Available (Thous.)	Sublease Sq. Ft. Available (Thous.)	Total Sq. Ft. Available (Thous.)	Direct Asking Rate	Market Asking Rate	Direct Vacancy	Sublease Vacancy	Overall Vacancy
A & A+	110	22,100	2,397	281	2,678	\$19.41	\$19.11	14.0%	1.5%	15.5%
В	207	24,896	3,517	128	3,645	\$16.85	\$16.85	22.7%	0.8%	23.6%
С	6	665	99	0	99	\$10.87	\$10.87	22.3%	0.0%	22.3%
TOTAL	323	47,661	6,013	409	6,422	\$17.24	\$17.31	18.2%	1.2%	19.3%





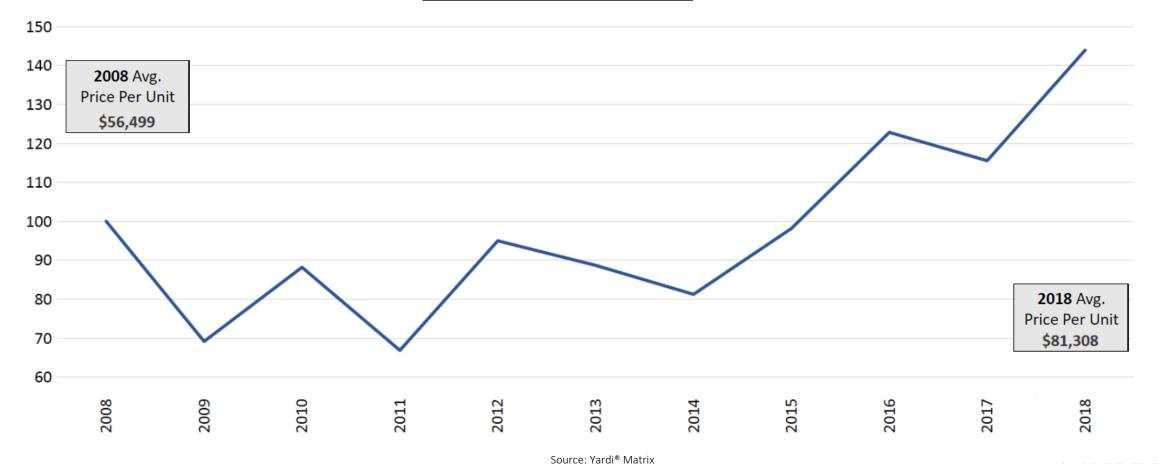


## Multifamily Sales Prices: Cincinnati

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Price Per Unit Index 2008 = 100

**10-Year Growth:** 43.9% **10-Year CAGR:** 3.7%



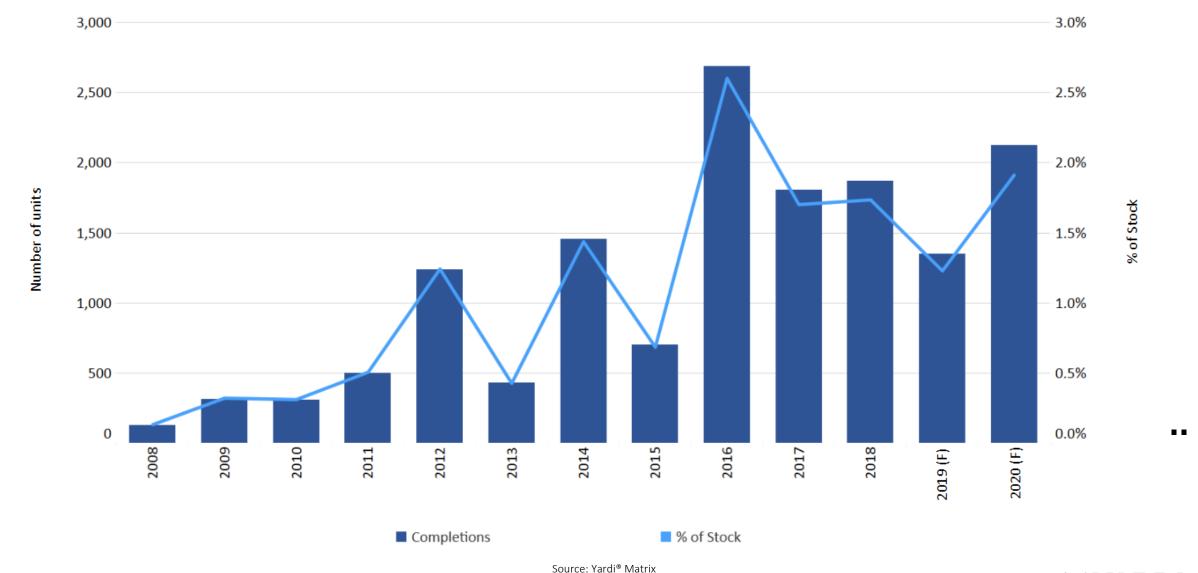


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## Multifamily Supply Pipeline: Cincinnati





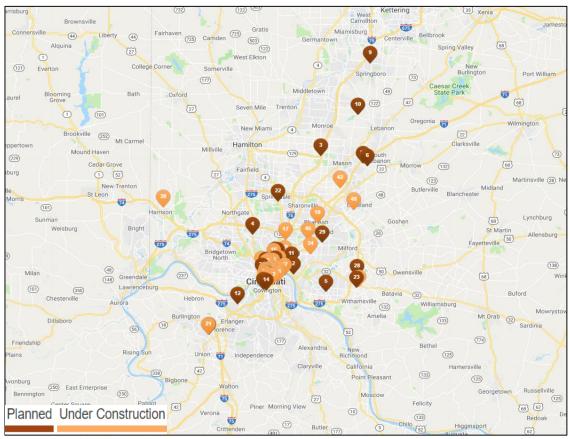




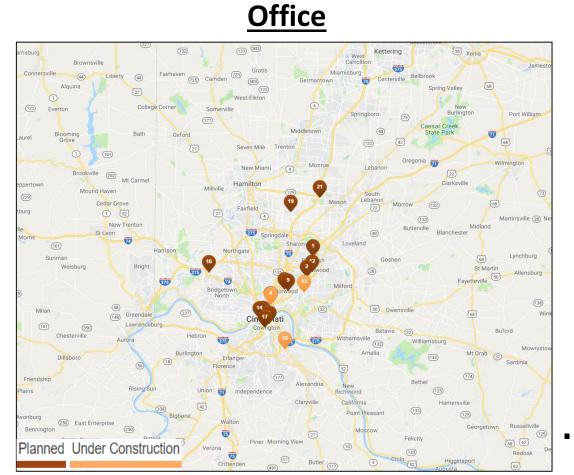


## Cincinnati Development Pipeline





Property Status	# of Units	% of Existing Stock
Under Construction	3,980	3.6%
Planned	3,513	3.2%



Property Status	Sq. Ft.	% of Existing Stock
Under Construction	755,355	1.5%
Planned	2,577,000	5.2%







## Top 5 Cincinnati Submarkets With Construction Activity

### - -

## **Multifamily**

Submarket	Units Under Construction	% of Existing Stock
Cincinnati-CUF	351	24.0%
Covington/Newport	581	21.4%
Cincinnati-Mt. Auburn/Corryville	369	16.6%
Cincinnati-Avondale	175	15.6%
Cincinnati-Downtown	615	13.8%
Cincinnati	3,980	3.6%

## **Office**

Submarket	Sq. Ft. Construction	% of Existing Stock	
Cincinnati Midtown- West	360,000	20.8%	
Newport	65,000	14.4%	
Cincinnati-Midtown East	258,355	6.0%	
West Chester	50,000	3.0%	
Cincinnati-CBD	22,000	0.1%	
Cincinnati	755,355	1.5%	





Source: Yardi® Matrix



### **SUMMARY**

Domestic migration out of Cincinnati has been unfavorable for multifamily and office demand, but in 2017 domestic migration turned positive.

Employment and wage growth in Cincinnati was slightly below national rates over the past five years.

Multifamily rents are rising, primarily in the Renter-by-Necessity asset class. Overall occupancy has been rising fairly steadily since late 2017, but Lifestyle occupancy has fluctuated a lot during that same period. Multifamily completions peaked in 2016, but there are still a number of projects in the pipeline.

Office fundamentals remain positive, with class A & A+ asking rates significantly higher than B and C assets. Cincinnati only has about 1% of sq. ft. under construction as a percentage of existing stock, and most of that new supply will be added in the Newport submarket.







## NEW TECHNOLOGIES EMERGING



## Technology's Impact on Commercial Real Estate

#### **ALREADY IN PROGRESS**

#### UTILITY OPTIMIZATION

Independent monitoring of HVAC and all associated system and independent correction, optimization and fault notification

#### SMART HOME/BUILDING

Automate locks, rekeying, maintenance, guest entry

#### VIRTUAL & AUGMENTED REALITY

Sell, inspect, repair pre-completion and post completion

#### AI: MACHINE LEARNING

Prescriptive recommendations based on learned patterns and predicted outcomes

#### **COMING SOON**

#### **DIGITAL ASSISTANTS**

Alexa, Google Home, Smart AI that will enable digital actions: pay bills, appointments, etc.

## MACHINE LEARNING: EVERYTHING

Everything that is developed and deployed will have some form of machine learning behind it: investments, asset management, operations, maintenance, construction

#### **CHAT BOTS**

Artificial intelligence natural language interactions: calls, emails, chat, helpers

#### RESEARCH & DEVELOPMENT

## AUTONOMOUS TRANSPORTATION

Deliveries, parking, ride-sharing

#### **ENERGY**

Batteries and solar energy











## Technology Risks to Keep in Mind





#### **Security**

Regulatory burden is so high, people will look to third party providers to manage security of their IoT and AI networks



#### **Privacy**

What is considered "private" and what isn't?

It's a fluid definition

Need to default to a conservative view of privacy



#### **Operational Management**

Who's going to manage all the connected devices?

Who fields support calls?

What happens when something gets disconnected?

## ALTHOUGH TECHNOLOGY ENABLES A PLUG AND PLAY ABILITY:

Selecting, implementing and managing an enterprise wide "smart" technology platform needs a planned, thoughtful and process oriented approach to be successful.





## 2019 OUTLOOK



- GDP and employment will continue to grow, but at a slower, choppier pace.
- Supply/demand conditions in multifamily will continue to favor mild rate growth, with higher rates in the tech hub and tertiary markets.
- A decent economy coupled with the demographic shift of jobs will continue to create office demand in tech hub cities, providing a solid base for office-using sectors.
- For new investments, it's a **sharpshooter's game** to find the right deal at the right price.
- On the operational side its about <u>finding revenue</u> and <u>cost trimming</u> opportunities to grow your NOI from your existing assets.
- The use of new technology is already impacting commercial space in help with costs, especially around utility consumption. This will accelerate as the technologies are more widely adopted.





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## THANK YOU

FOR ANY QUESTIONS PLEASE FEEL FREE TO CONTACT ME

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