

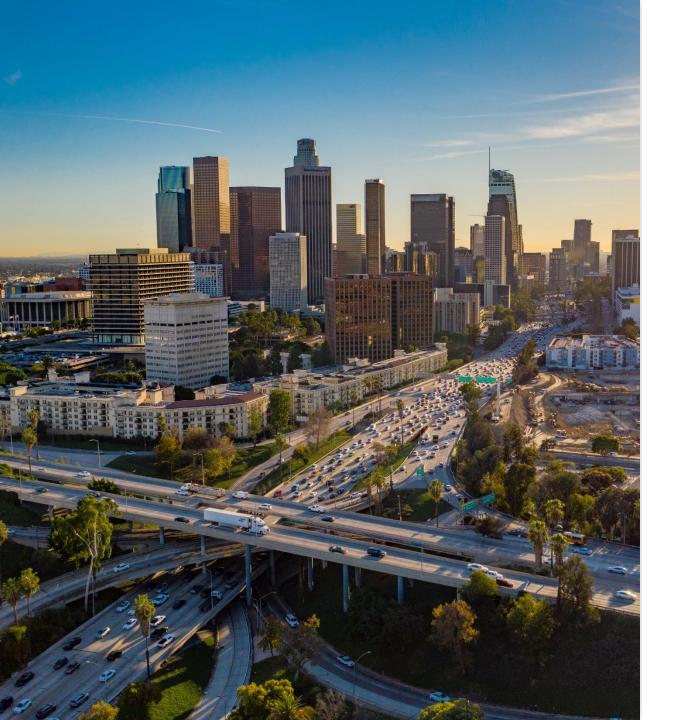


Los Angeles Thursday, November 21, 2019 Kimpton Everly Hotel

# MULTIFAMILY & COMMERCIAL MARKET UPDATE

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INDUSTRY PRINCIPAL, YARDI





## **AGENDA**

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



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#### **KEY TAKEAWAYS**





#### **ECONOMY**

The economy is in decent shape, with increasing cross-winds. GDP growth in Q3 was OK (~1.9%) and we expect Q4 to be a bit lower, with a lot more noise. Inflation is still relatively low around 2%. The labor market is extremely tight, and wages continue to rise – less so in manufacturing. The yield curve has been inverted for 5 months, but flattened and turned slightly positive following the September 18 and October 30 rate cuts. The European and Chinese economies are in poor shape. The manufacturing and farming sectors are struggling. There is a highly elevated risk of recession mid 2021.



### **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 and 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, but is beginning to show a declining trend. 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; 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 last year, but some have seen lease rates fall – Boston, Chicago, Seattle and Central Valley. 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 square foot have increased nationally since 2000, with tech hub markets having the most growth over the past ten years.





## 2019 OUTLOOK



- GDP growth will be slow moving into Q4, with a lot more noise.
- 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.



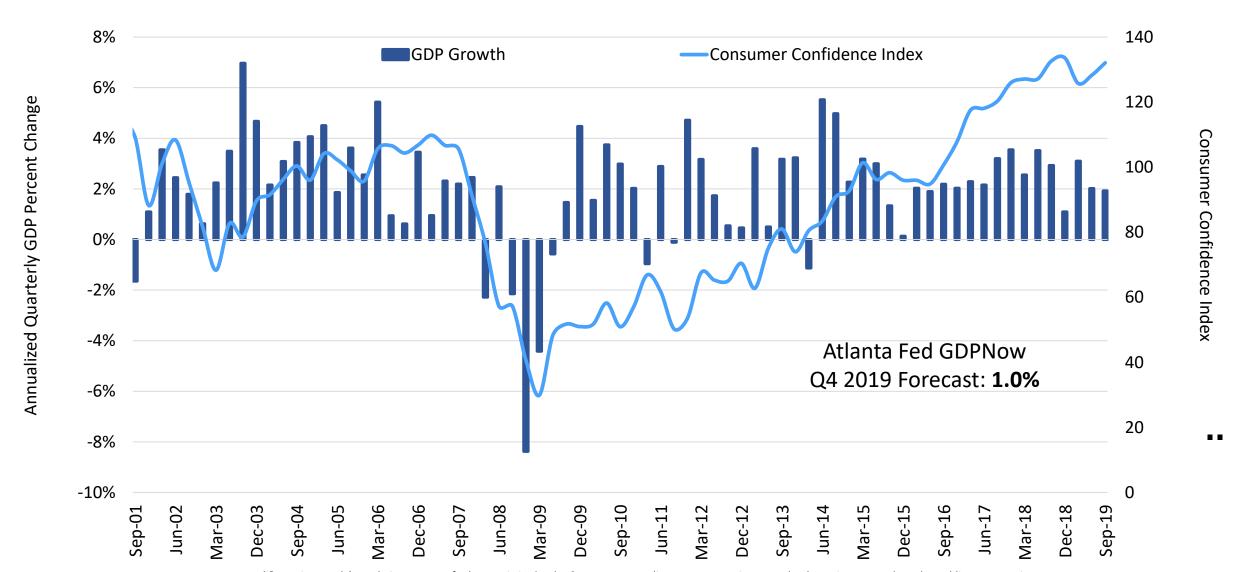




## MACROECONOMIC OUTLOOK

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





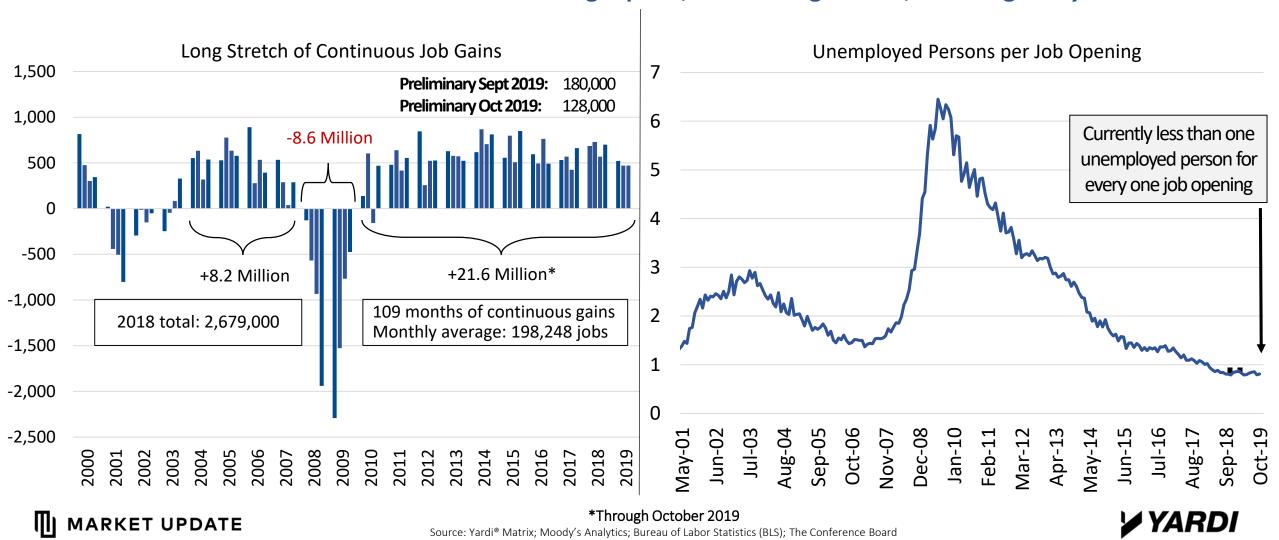


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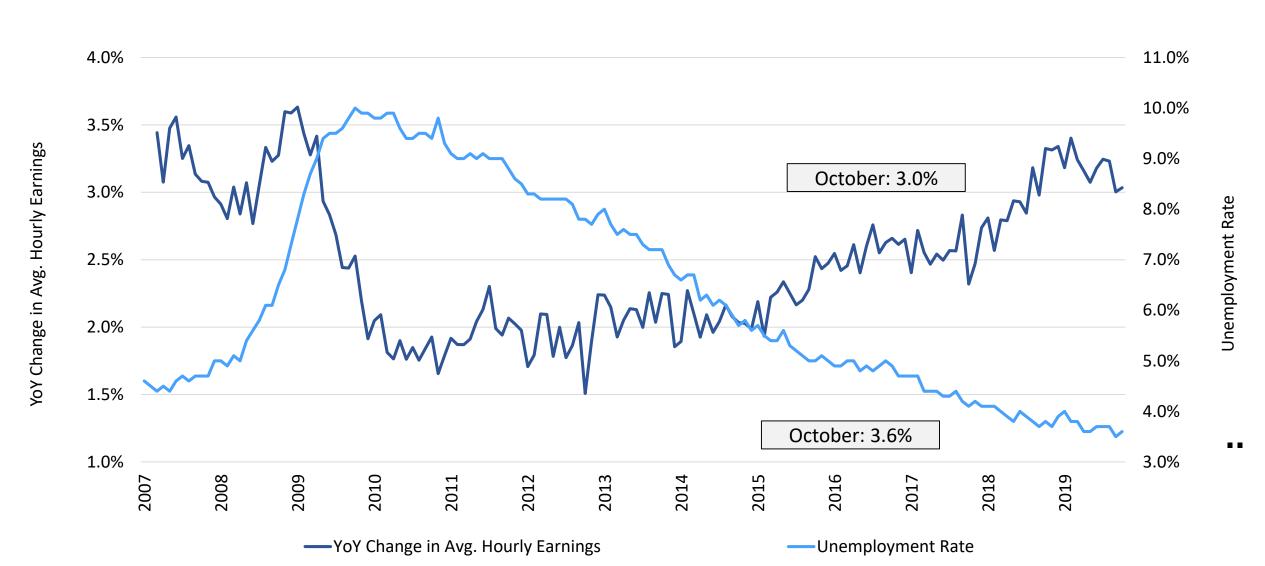
## Tight Labor Market, Pulling People Off the Sidelines

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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



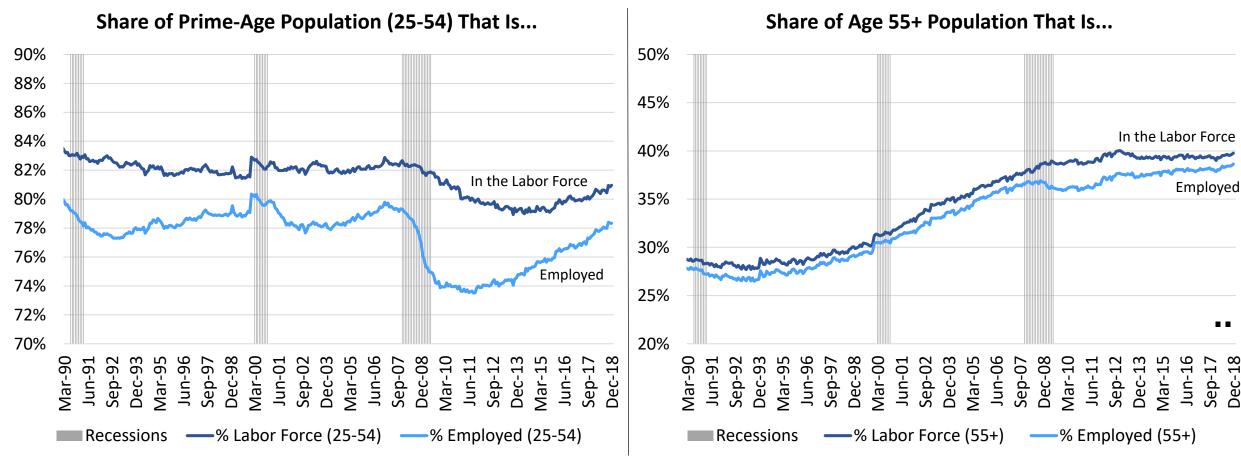






## Reserve Supply of Labor

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- Another 2.6% of the prime-age population could get engaged approximately 3.4 million people
- Participation rates for people age 55+ are rising buoying the expansion

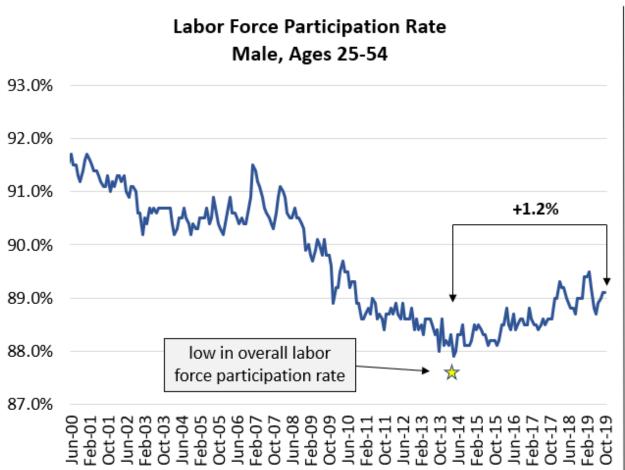


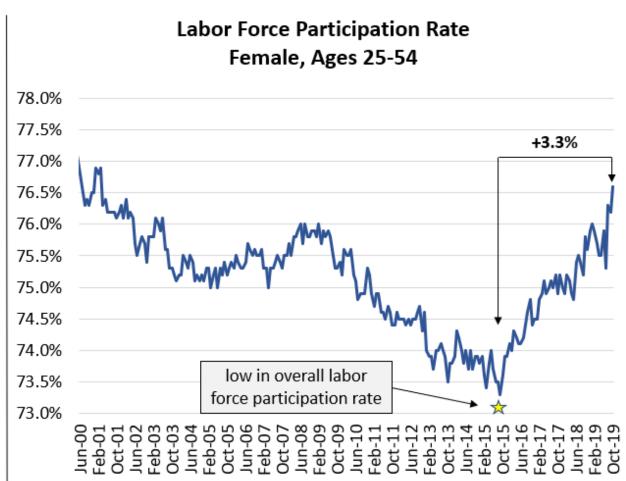






# Increase in Labor Force Participation Rate Among 25-54 Year-Olds Driven by Women



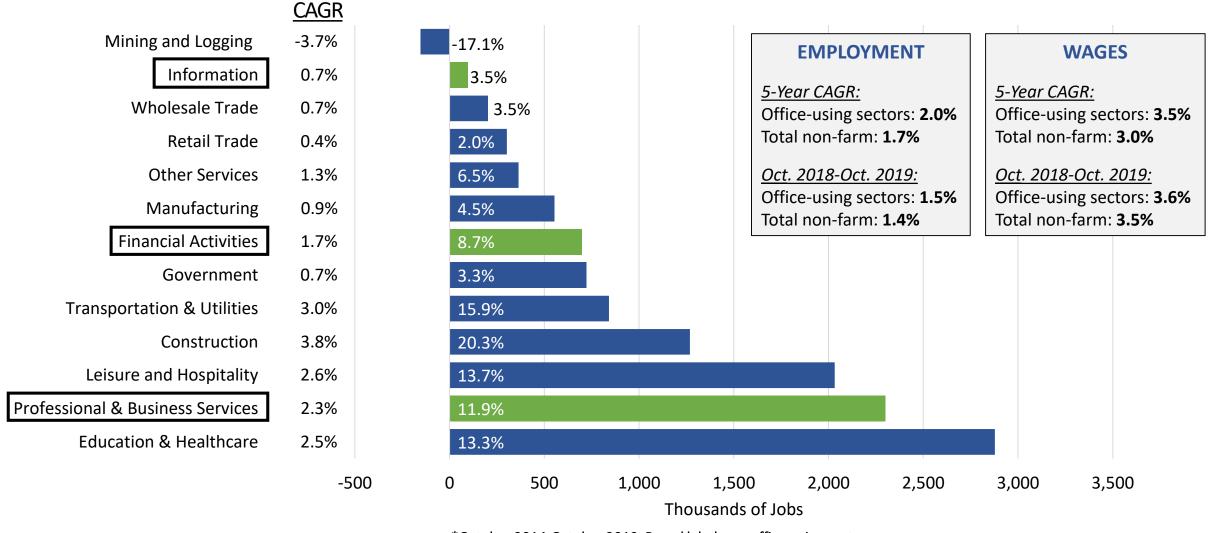








## Office-Using Sectors Outpaced Overall Job Growth Over Last Five Years



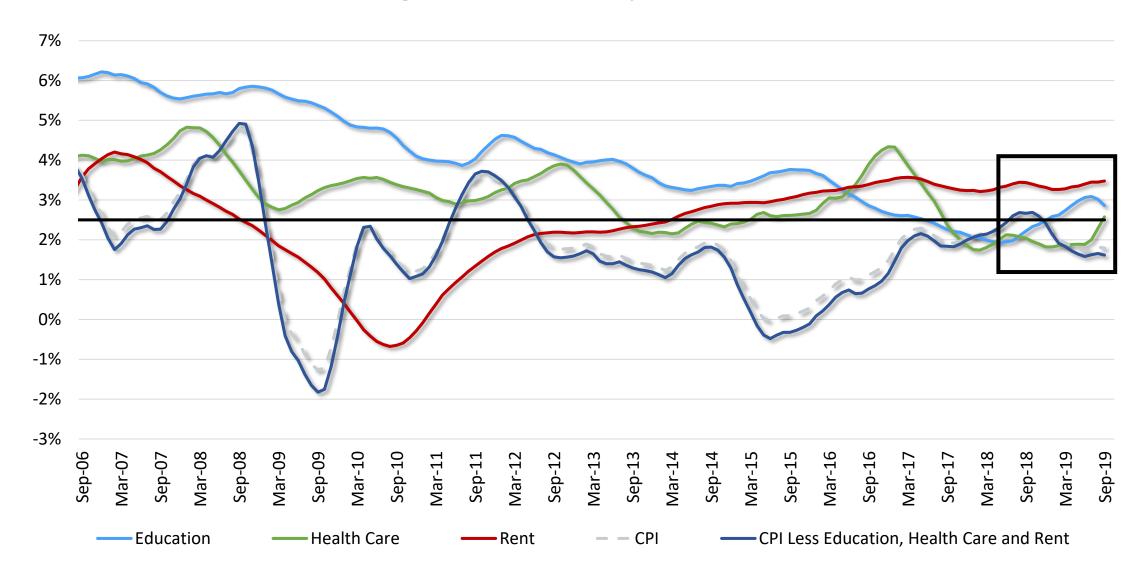






## Inflation Rising, But Unlikely to Break Out >2.5%





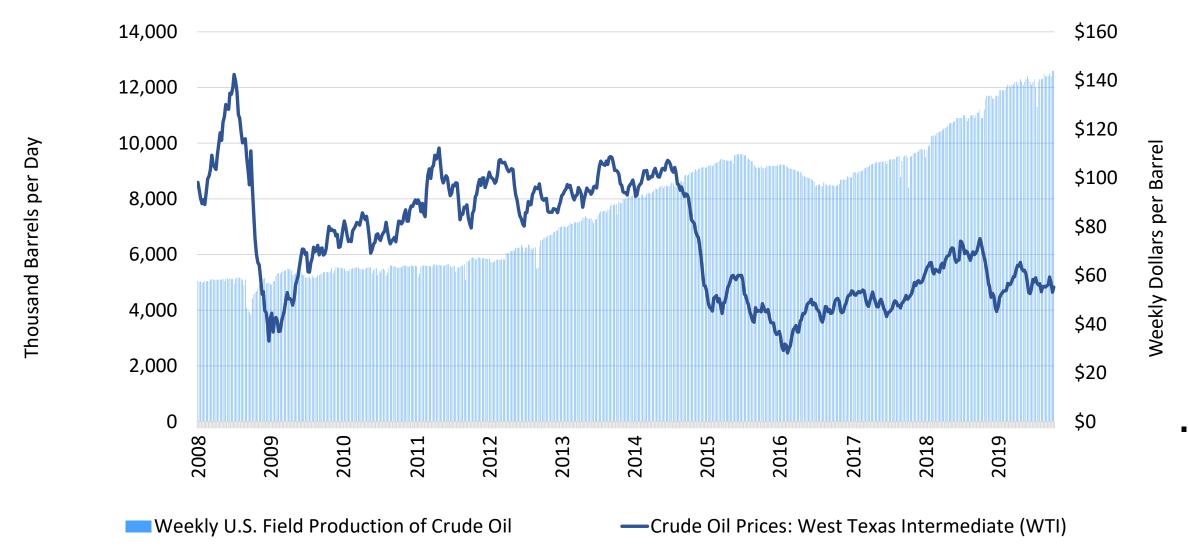




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## Why Is There No Inflation? U.S. Oil Is Flooding the Market







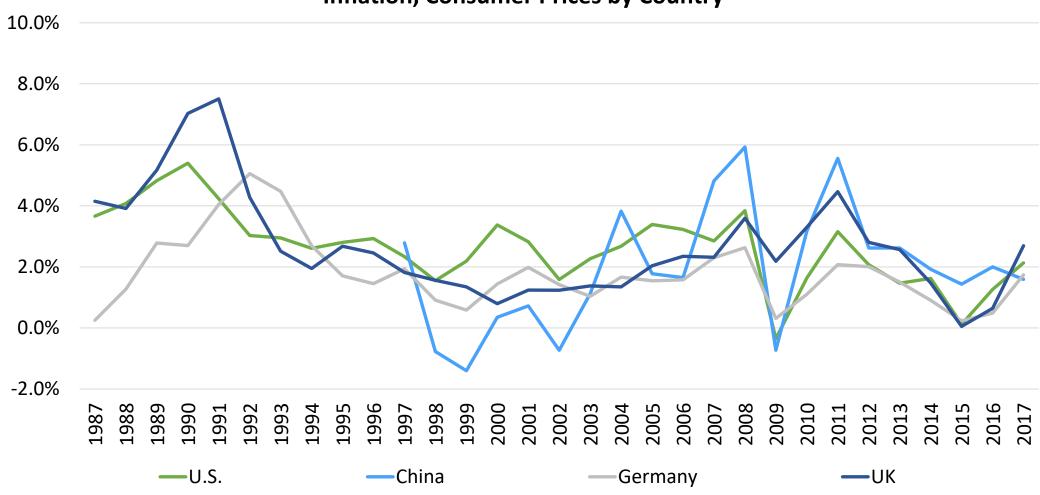




## Inflation Going Down Is a Global Phenomenon



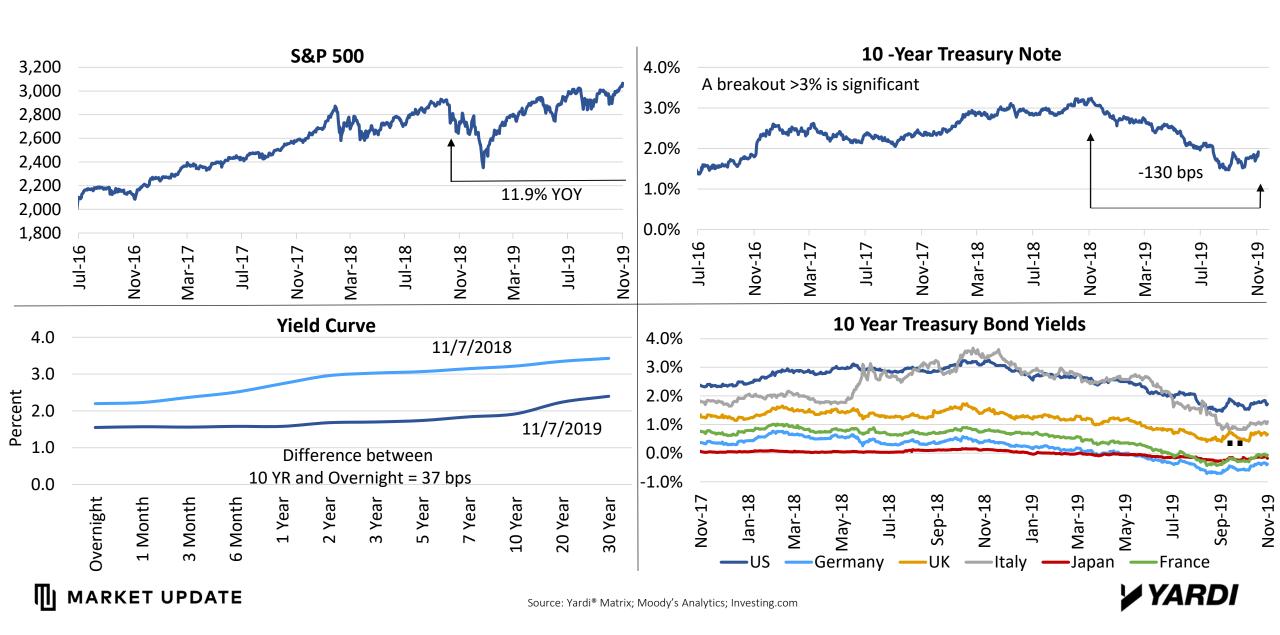








### U.S. & International Financial Market





## U.S. Federal Policy Mix is a Classic Glass Half Full/Glass Half Empty Situation

#### **PRO-GROWTH**

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

**GENERALLY** 

#### PRO-GROWTH BUT SLOW

- Infrastructure
- **Education Reform** 
  - German Model
- Healthcare Reform

PROGRESS IN TONE, **BUT NOT YET SUBSTANTIVE** 

#### **ANTI-GROWTH**

- **Immigration Control**
- Trade Renegotiation

RECENT TARIFF MOVE A POTENTIAL DRAG ON GROWTH

**POSITIVE PROGRESS** 





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### **SUMMARY**

- The U.S. economy is in decent shape, but growth is choppy and is slowing
- Unemployment remains very low & wage growth is good; September & October job gains were about average for this year
- 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 slightly positive
- 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

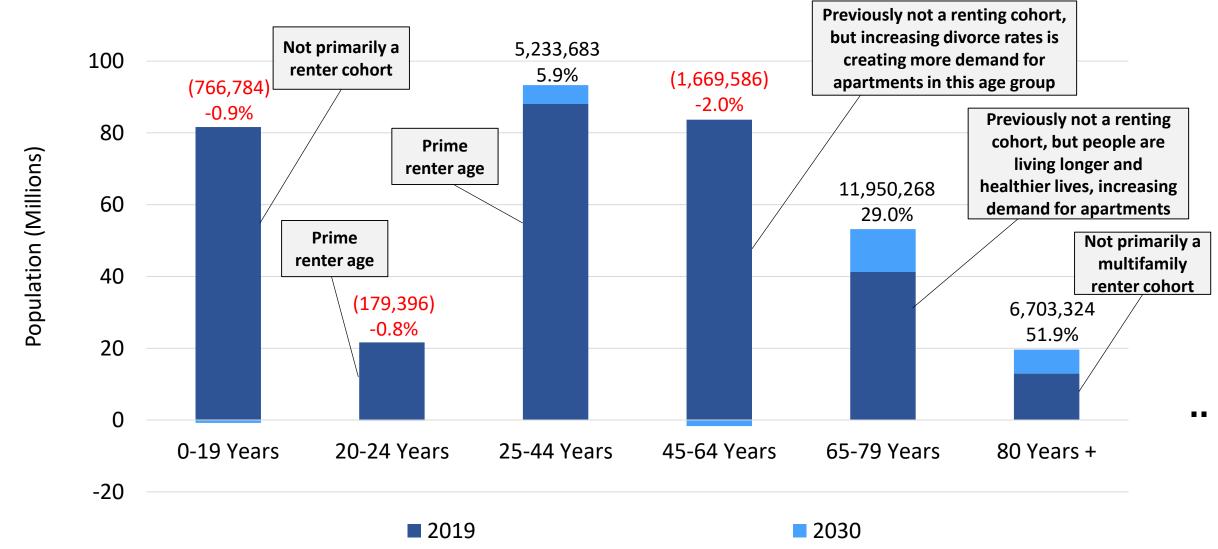




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## Within Each Age Group, There Are Drivers of Demand



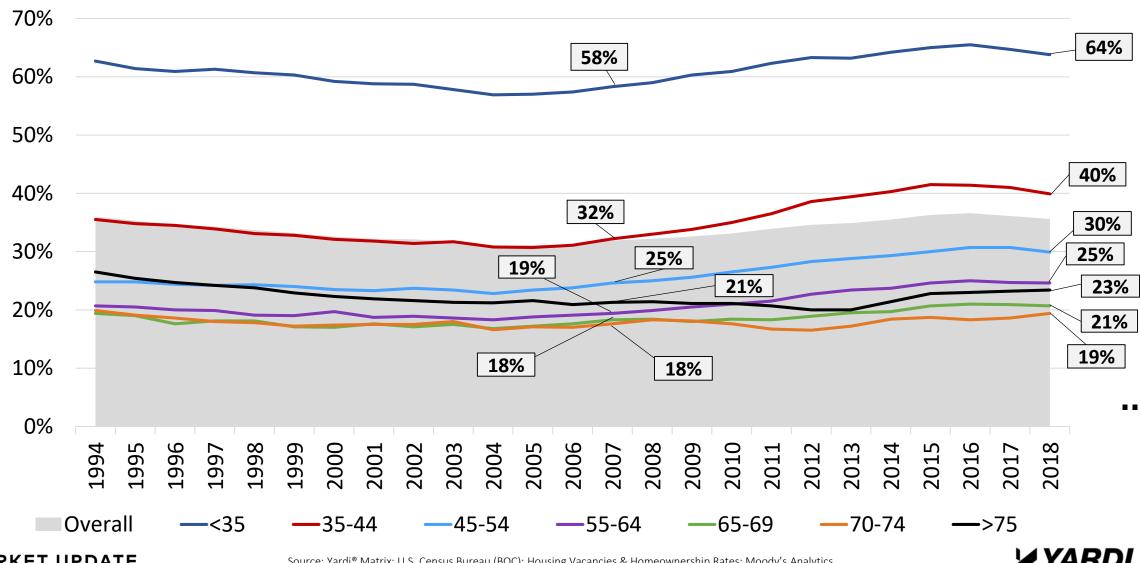




**YARDI** 



## Historic Rentership by Age Cohort

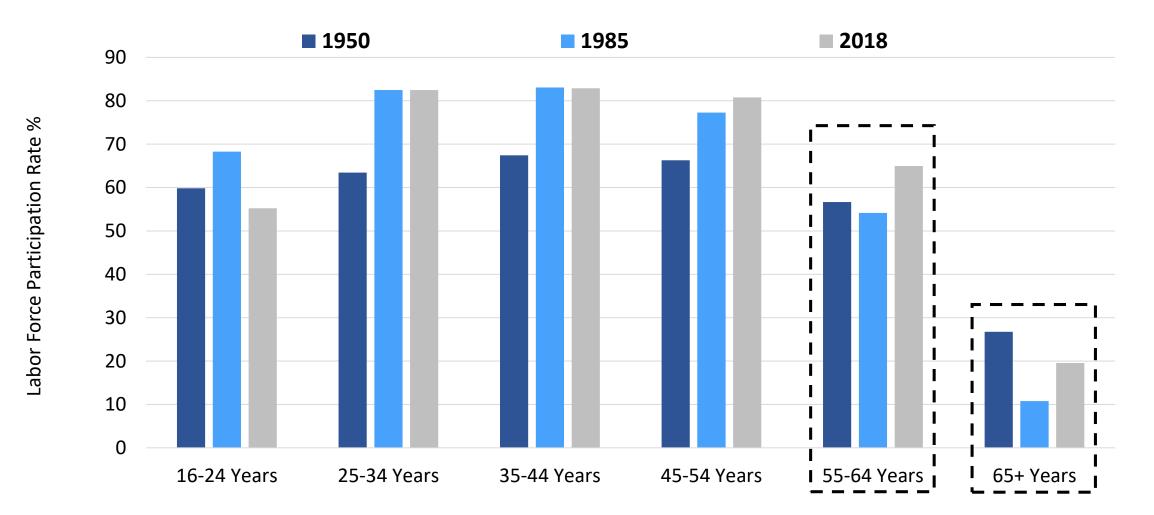








# More People Working Longer Impacts the Multifamily *and* Office Industries

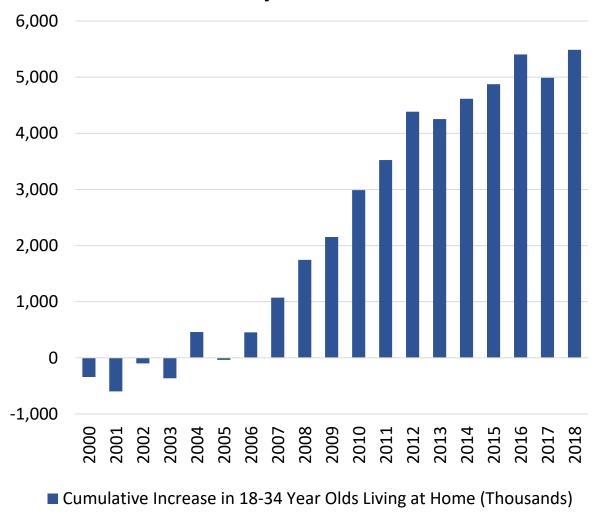


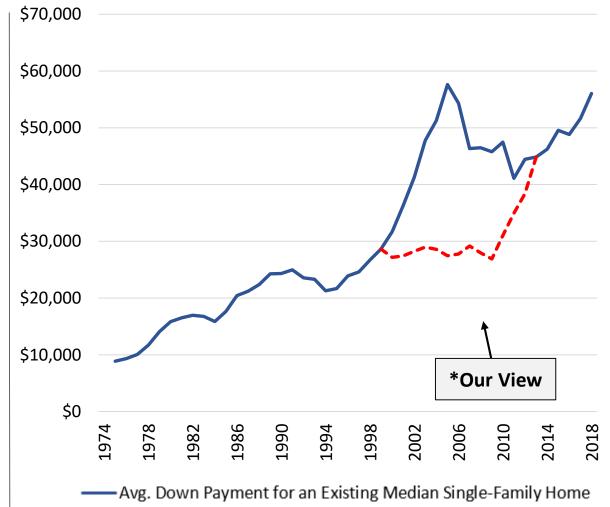




## More Young People Living at Home as Average





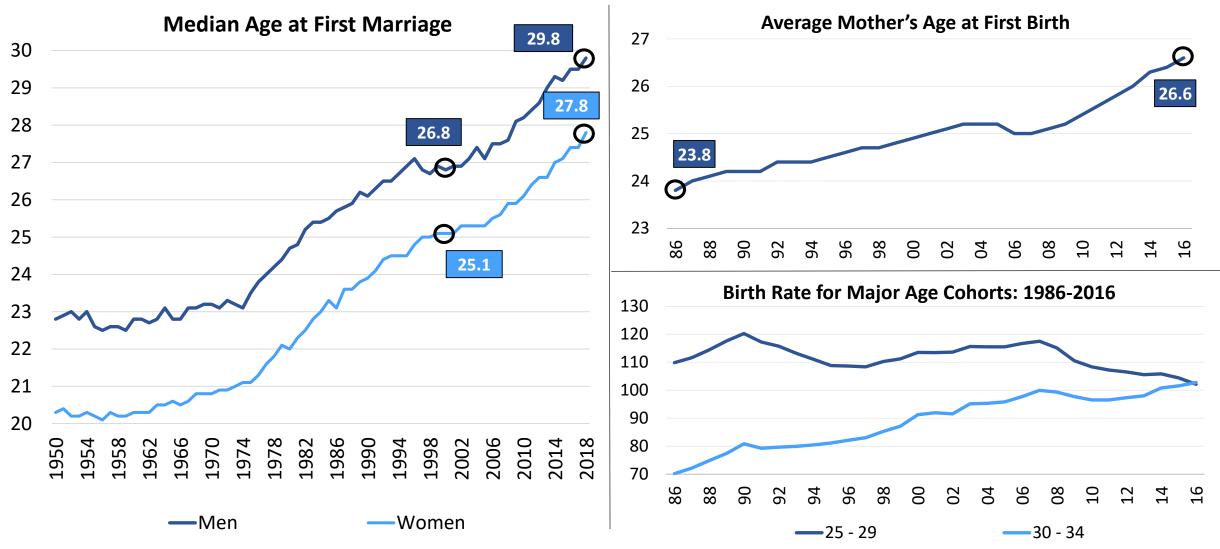






## Lifestyle Changes Fueling Strong Demand for Multifamily



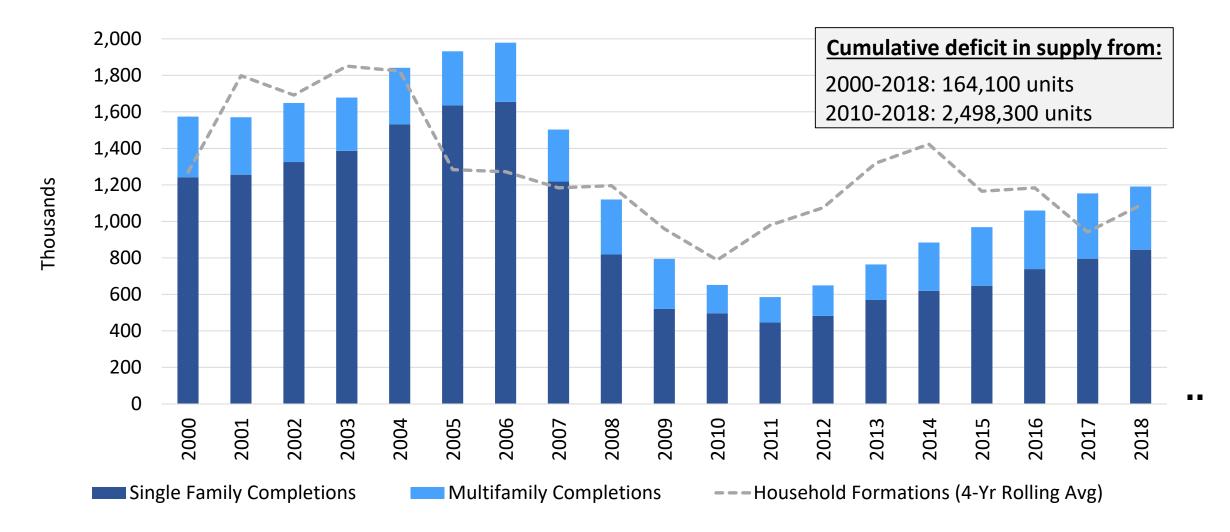








## Multifamily Construction Catching Up to New Household Formation

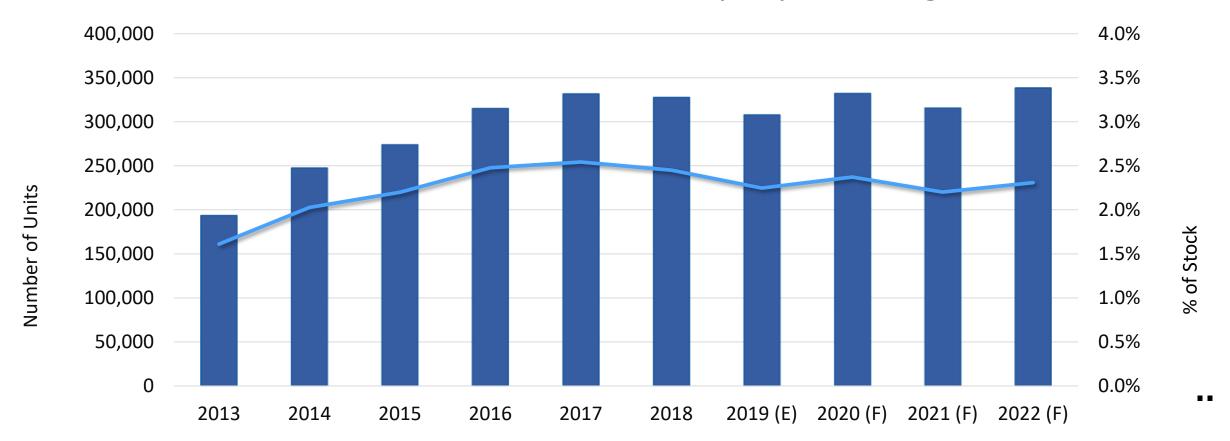








## Multifamily Supply Has Leveled Out; But We See Another Ramp Up Coming



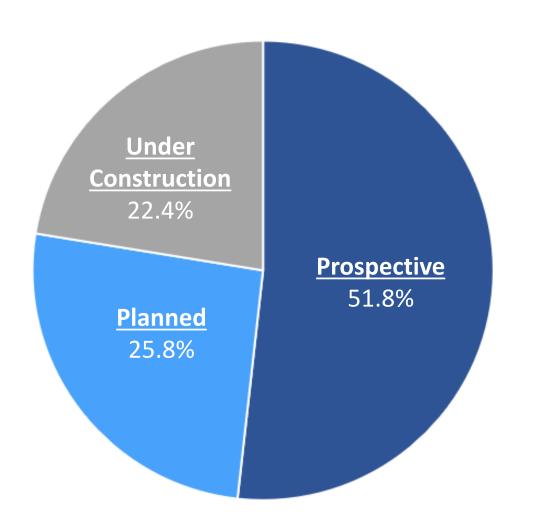








# Based Upon What We See, New Multifamily Supply Is Unlikely to Break Out Above 330K a Year



Property Status	Units	% of Total
Prospective	1,658,242	51.8%
Planned	826,485	25.8%
Under Construction	718,432	22.4%
TOTAL:	3,203,159	100.0%

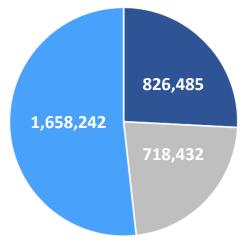




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## Where Is Future Multifamily Supply Concentrated?





Units Under Construction

Top 10 Markets	Units	UC as a % of Existing Stock
Asheville	2,336	14.6%
Reno	4,837	12.7%
Miami	15,834	12.4%
Metro Los Angeles	20,066	11.2%
Salt Lake City	11,152	11.1%
Boston	24,481	11.0%
Wilmington	2,098	10.7%
Austin	25,217	10.7%
Queens	10,650	10.7%
Southwest Florida Coast	6.737	10.4%

Units Planned

		Planned
Top 10 Markets	Units	as a % of
		<b>Existing Stock</b>
Miami	26,742	20.9%
Southwest Florida Coast	13,361	20.6%
Urban Chicago	33,910	19.7%
Wilmington	3,594	18.4%
Asheville	2,875	18.0%
Northern New Jersey	38,695	17.7%
Orlando	29,701	13.8%
Huntsville	4,582	13.5%
West Palm Beach	8,982	13.5%
Fort Lauderdale	13,463	13.4%

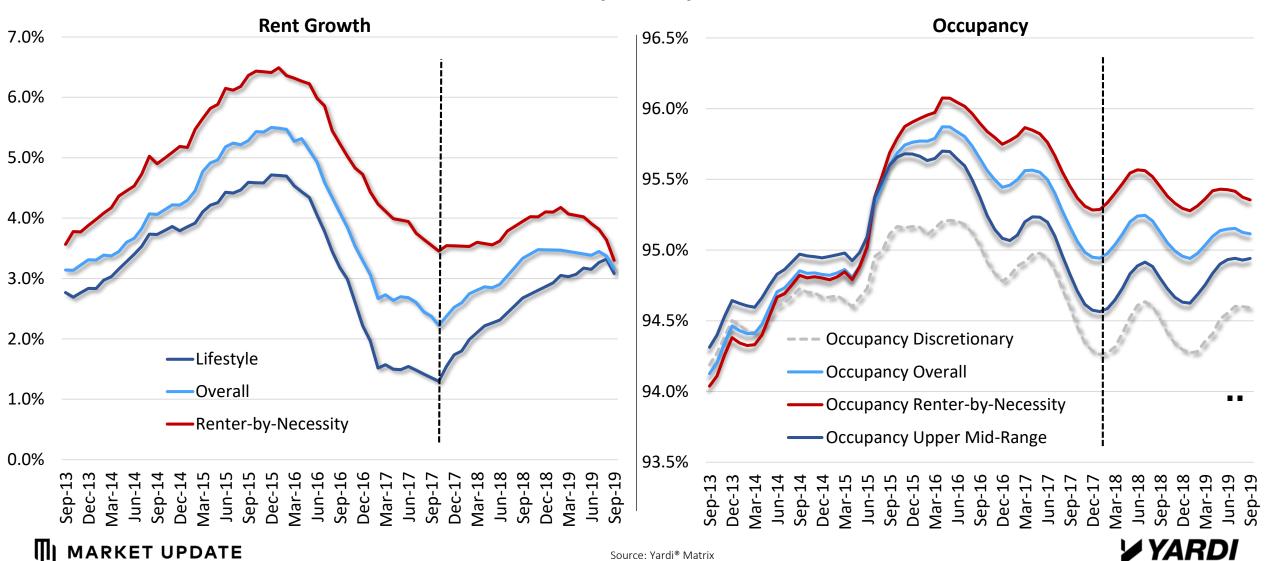
Prospective Units

Top 10 Markets	Units	Prospective as a % of Existing Stock
Miami	79,450	62.1%
San Francisco - Peninsula	49,285	41.0%
Bay Area - South Bay	43,825	34.9%
Southwest Florida Coast	21,468	33.1%
Bay Area - East Bay	44,620	33.1%
Metro Los Angeles	57,474	32.1%
Northern Virginia	61,872	28.2%
West Palm Beach	17,037	25.6%
Fort Lauderdale	24,775	24.6%
Washington DC	75,233	24.4%



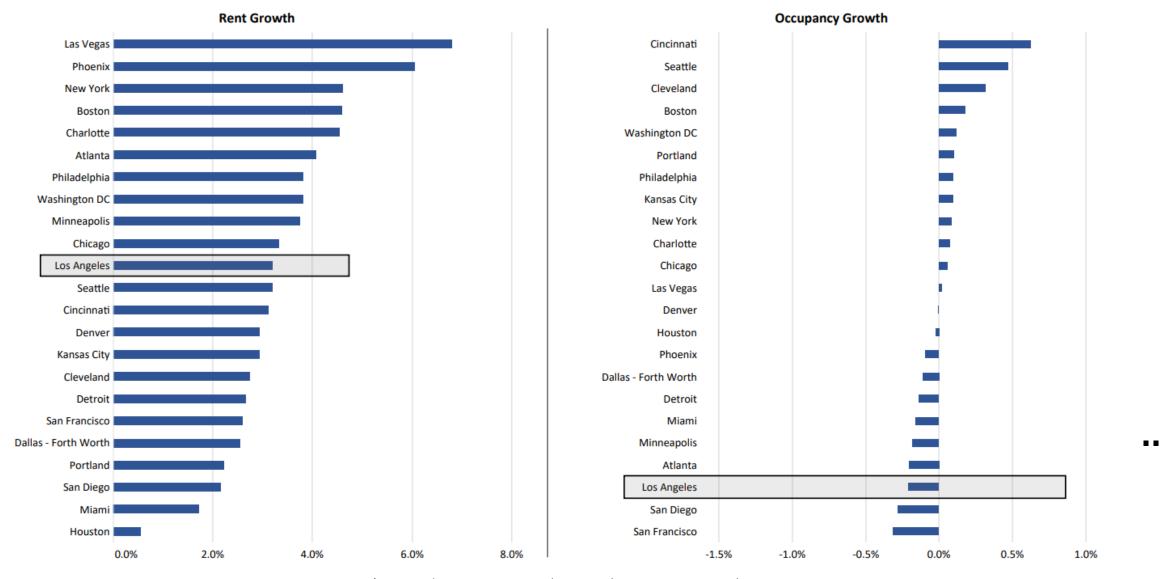


# Multifamily Rent Growth Has Fallen While Occupancy Levels Off



## Major Market Multifamily Rent & Occupancy Growth



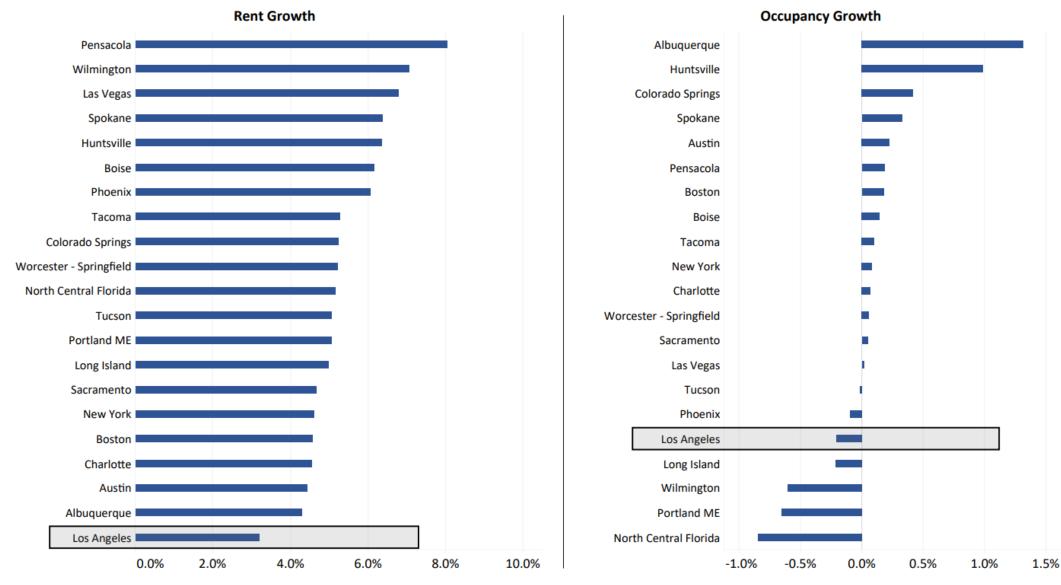






## Ranked Multifamily Rent & Occupancy Growth





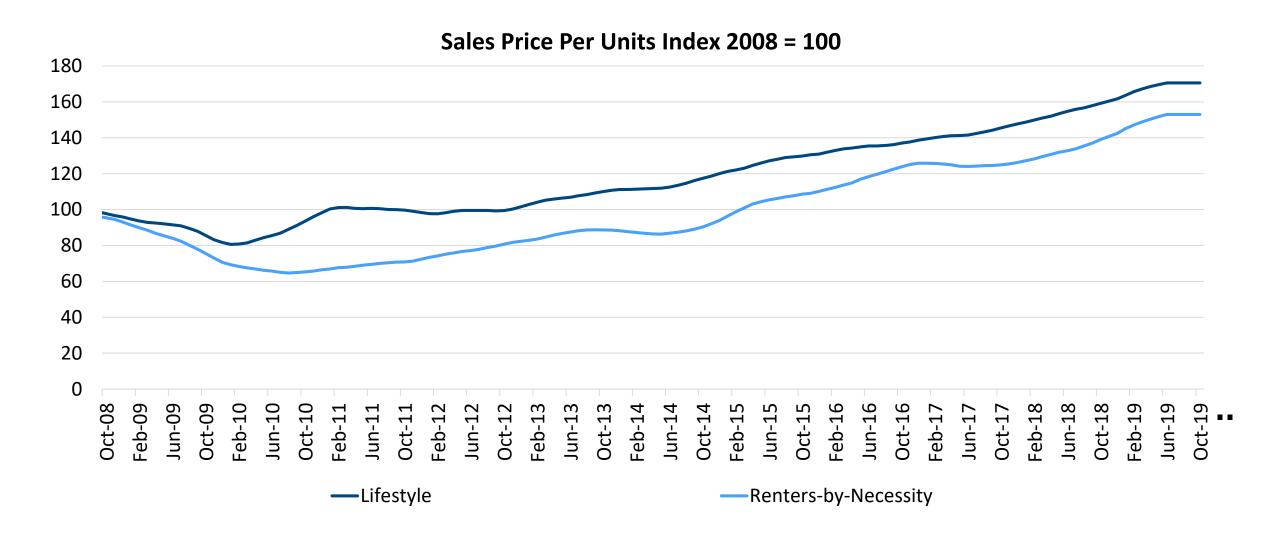






## National Multifamily Values Keep Rising



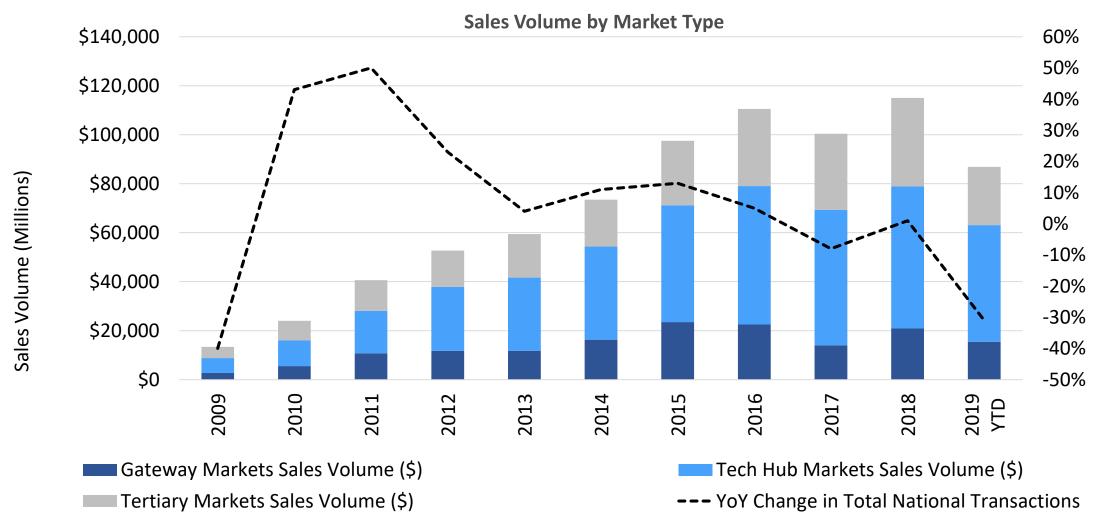






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# Multifamily Transactions Fairly Stable Over Past Five Years, but With Higher Dollar Amounts



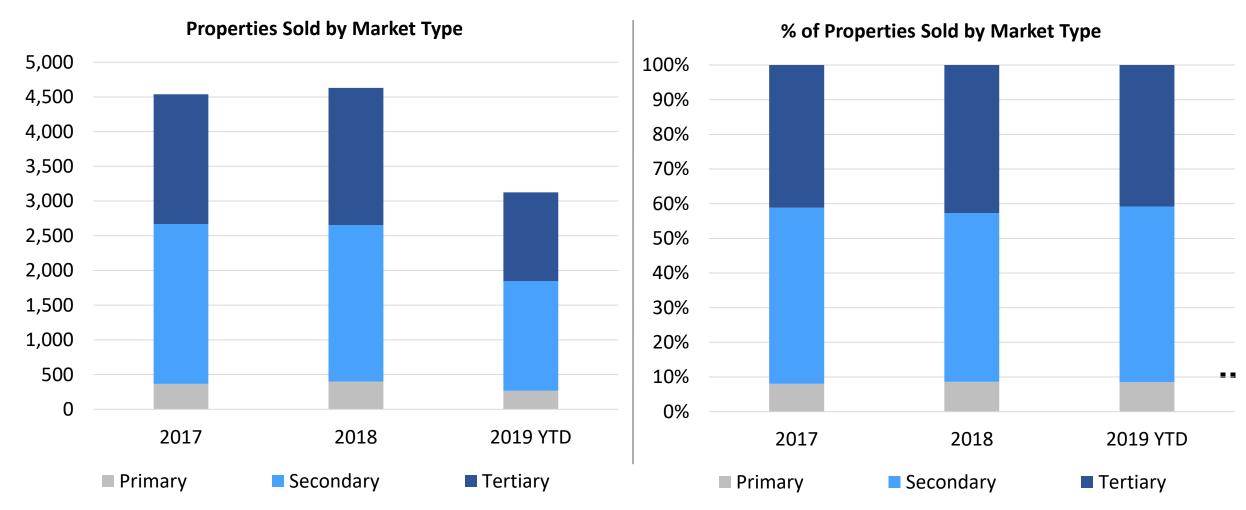




YoY Change in # of Transactions



# Multifamily Sales Are Concentrated in Tech Hub & Tertiary Markets

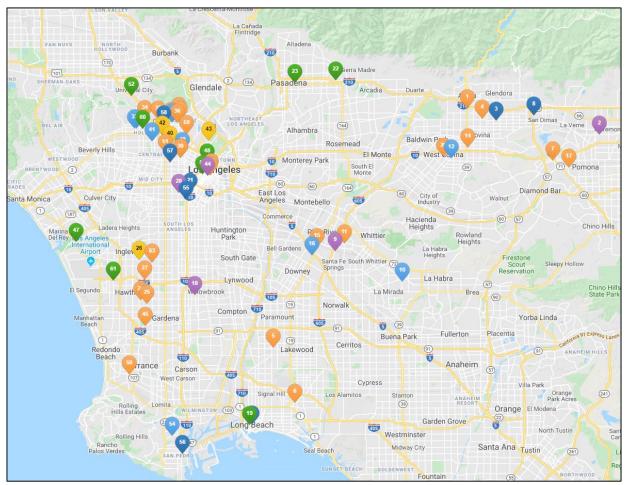






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# Los Angeles Multifamily Transaction Composition in 2018



Prope	rty Asse	t Class:
	,	

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

2018 Transactions						
# % of Stock						
<b>Properties Sold</b>	104	4.8%				
<b>Units Sold</b> 15,291 3.7%						

2018 Sales Prices					
Avg. Sales Price per Unit	\$373,266				
Avg. Sales Price per Unit for Low Mid-Range Assets	\$316,639				
1-Year Sales Price Growth for Low Mid-Range Assets	-1.3%				
5-Year Sales Price Growth for Low Mid-Range Assets	22.9%				







# 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
Kansas City	1.0%	0.9%	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
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

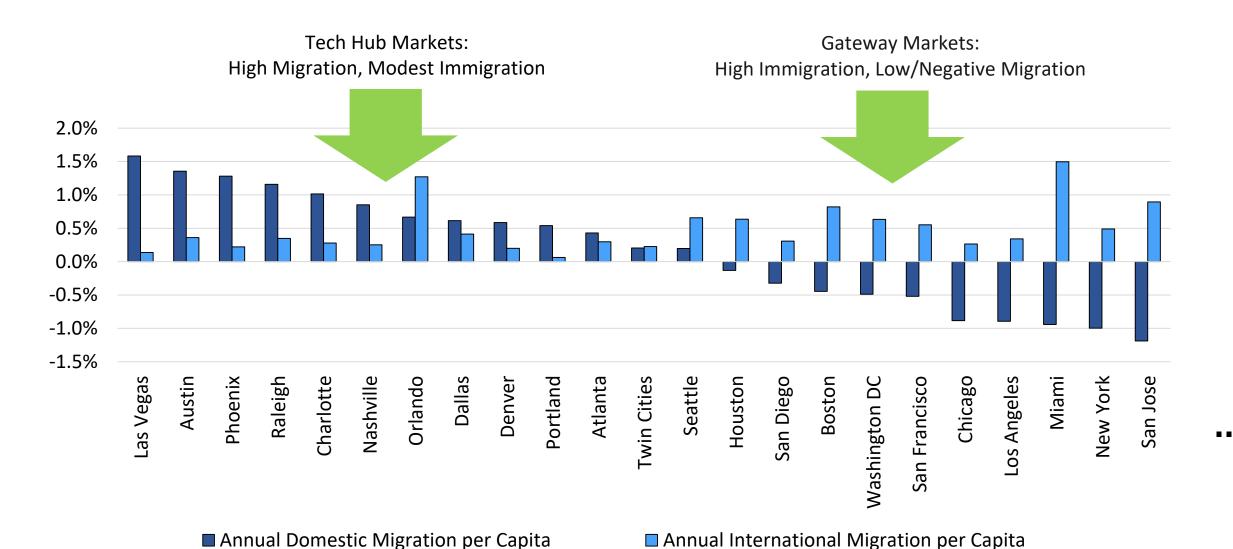




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## Immigration Is Key to Gateway Population Growth











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

Market	2019 Forecast	2020 Forecast	2021 Forecast
Pensacola	9.8%	10.3%	9.3%
Reno	8.5%	7.1%	7.3%
Boise	6.1%	5.7%	5.2%
Spokane	5.8%	4.6%	4.2%
Tacoma	5.6%	4.8%	4.3%
Las Vegas	5.6%	6.7%	4.9%
North Central Florida	5.6%	5.2%	5.0%
Orlando	5.6%	6.0%	4.8%
Suburban Atlanta	5.5%	4.7%	4.3%
Eugene	5.2%	3.9%	3.2%

Market	2019 Forecast	2020 Forecast	2021 Forecast
Central Valley	5.2%	4.0%	3.1%
Huntsville	5.1%	4.8%	5.0%
Seattle	5.0%	4.8%	4.7%
Bay Area - East Bay	4.9%	3.9%	3.0%
Colorado Springs	4.9%	4.1%	4.6%
Tucson	4.9%	4.5%	4.1%
Bay Area - South Bay	4.9%	5.3%	5.7%
Suburban Twin Cities	4.9%	4.5%	4.4%
Austin	4.9%	4.5%	4.0%
Central Coast	4.9%	5.4%	5.6%









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

Market	2019 Forecast	2020 Forecast	2021 Forecast
Baton Rouge	-1.1%	-0.8%	0.4%
Jacksonville	0.6%	2.8%	3.0%
Lubbock	0.6%	0.9%	0.2%
Amarillo	0.9%	1.7%	1.2%
El Paso	1.0%	0.9%	1.8%
Savannah - Hilton Head	1.0%	1.6%	1.3%
Little Rock	1.2%	0.9%	0.7%
Central East Texas	1.5%	1.3%	0.8%
Toledo	1.5%	1.4%	1.2%
Corpus Christi	1.6%	0.2%	1.0%

Market	2019 Forecast	2020 Forecast	2021 Forecast
Tulsa	1.7%	1.0%	0.7%
Southwest Florida Coast	1.9%	1.5%	1.1%
Albany	1.9%	2.1%	2.2%
Bridgeport - New Haven	1.9%	2.2%	2.0%
Jackson	2.0%	2.5%	2.5%
Richmond - Tidewater	2.0%	2.6%	2.3%
Oklahoma City	2.0%	1.4%	1.1%
Wichita	2.5%	2.1%	1.7%
Baltimore	2.5%	1.9%	1.4%
Knoxville	2.6%	2.1%	2.0%









# Matrix Expert Multifamily Operating Data Per Unit



12-month period Ending September 2019	Los Angeles	Atlanta	Austin	Boston	Chicago	Denver	Manhattan	Phoenix
Total Income	\$28,061	\$15,684	\$15,125	\$25,276	\$22,736	\$17,918	\$37,354	\$12,896
Total Operating Expense	\$11,273	\$7,189	\$7,593	\$10,323	\$10,569	\$6,233	\$18,560	\$4,956
Net Operating Income	\$16,788	\$8,494	\$7,532	\$14,953	\$12,167	\$11,685	\$18,755	\$7,941
Operating Margin	59.8%	54.2%	49.8%	59.2%	53.5%	65.2%	50.2%	61.6%
Cap Rate (September 2019)	4.0%	7.2%	5.3%	4.9%	3.9%	4.8%	2.5%	5.1%







### **SUMMARY**

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

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

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

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





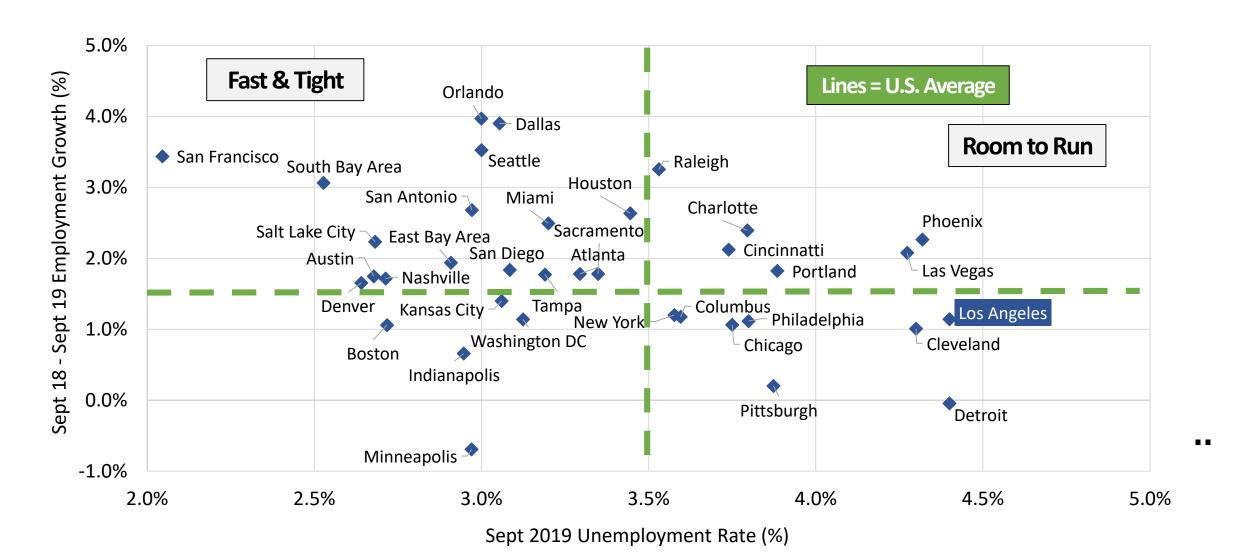


# OFFICE FUNDAMENTALS



# Tech Hub Markets Have Most Dynamic Job Growth





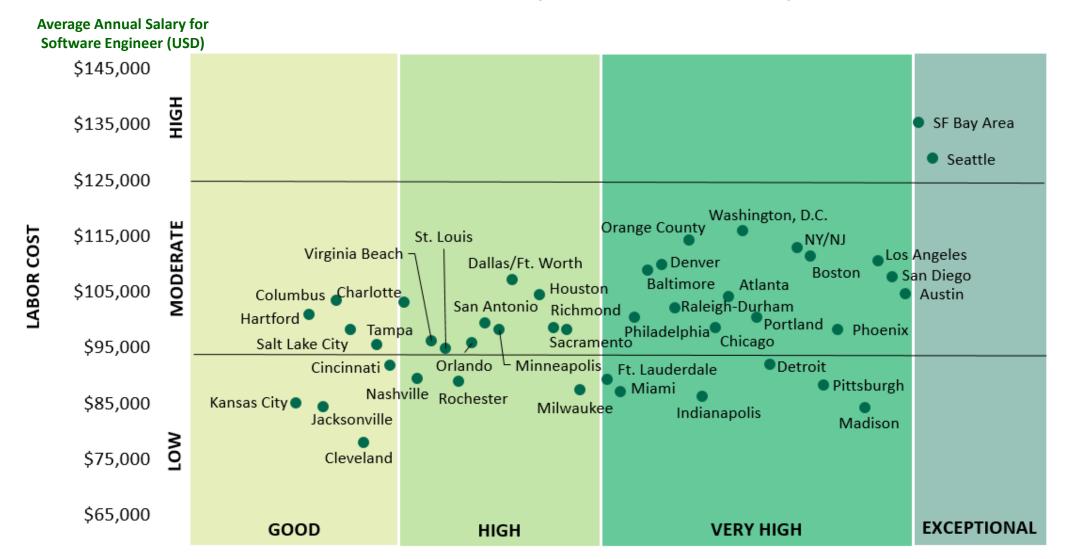


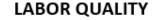


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# Tech Talent Quality vs. Cost Analysis









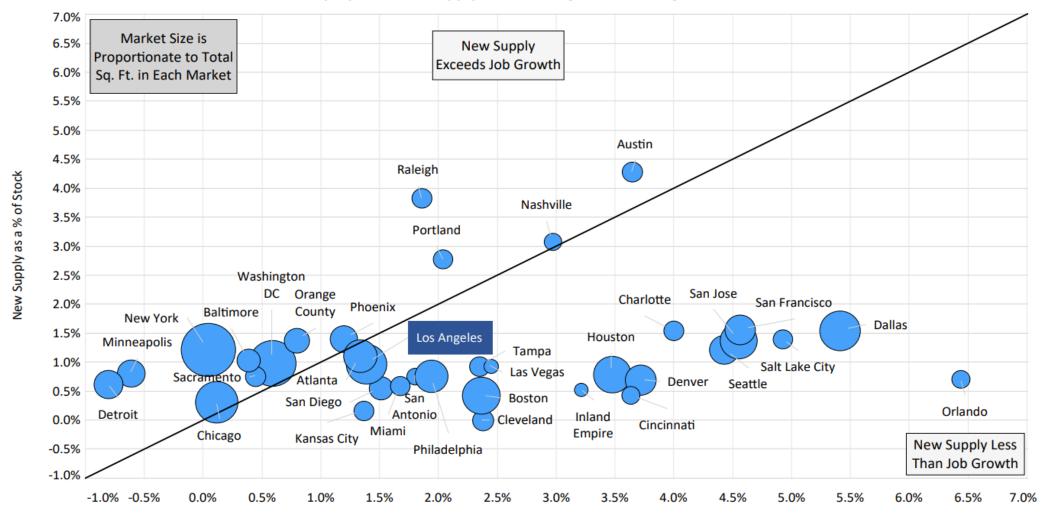




## Most Markets Are Absorbing Office Space



#### Employment and Supply Growth: August 2018 - August 2019









## Office Fundamentals Improving in Tech Hub Markets



Market	12-Month Change in Full-Service Equivalent Asking Rents	12-Month Change in Vacancy Rate	October Full-Service Equivalent Asking Rent	October Vacancy Rate	New Supply as a % of Stock Last 12 months
San Francisco	21.9%	-1.2%	\$71.1	7.8%	2.7%
Tampa - St. Petersburg	20.4%	0.4%	\$29.8	11.6%	0.9%
West Palm Beach	14.3%	0.9%	\$35.4	12.8%	0.7%
Brooklyn	13.6%	3.1%	\$59.6	12.1%	6.8%
Manhattan	11.9%	-2.0%	\$84.9	7.7%	1.5%
Bay Area	10.3%	-0.8%	\$47.8	14.1%	2.0%
Fort Lauderdale	7.2%	0.5%	\$31.1	12.8%	0.6%
Pittsburgh	4.7%	1.8%	\$24.7	14.3%	0.8%
Miami	4.6%	-0.9%	\$40.2	12.2%	0.7%
San Diego	3.8%	-0.9%	\$38.5	12.0%	0.7%

\*As of October 2019





<sup>\*</sup>Listings with high full-service equivalent rents that have been added over the last year in San Francisco, Tampa, Brooklyn, Bay Area and Manhattan are contributing to large YoY rent changes

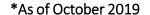
Source: Yardi® Matrix



# Office Fundamentals Improving in Tech Hub Markets

### **Bottom 10 Markets**

Market	12-Month Change in Full-Service Equivalent Asking Rents	12-Month Change in Vacancy Rate	October Full-Service Equivalent Asking Rent	October Vacancy Rate	New Supply as a % of Stock Last 12 months
Boston	-8.7%	0.7%	\$34.6	10.3%	0.7%
Chicago	-7.1%	1.1%	\$28.2	14.9%	0.3%
Seattle	-5.9%	-0.5%	\$36.8	8.4%	2.9%
Central Valley	-4.8%	3.0%	\$23.9	10.7%	0.6%
South Carolina	-2.4%	2.2%	\$21.8	13.6%	0.7%
Orlando	-1.9%	0.7%	\$21.2	12.3%	0.5%
Salt Lake City	-0.9%	3.0%	\$23.9	12.2%	1.7%
St. Louis	-0.8%	0.7%	\$21.1	11.7%	0.7%
Baltimore	-0.6%	0.5%	\$25.0	13.0%	0.4%
New Jersey	-0.5%	0.3%	\$31.7	20.9%	0.2%



<sup>\*</sup>Listings with high full-service equivalent rents that have been removed over the last year in Boston, Chicago, Seattle and Orlando are contributing to large YoY asking rent changes



MARKET UPDATE

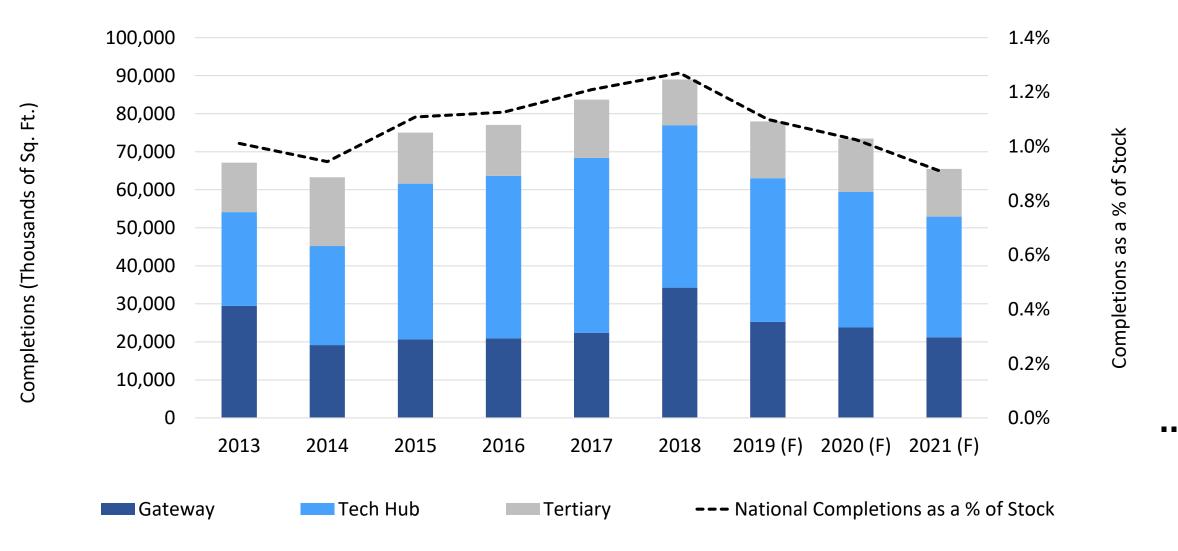








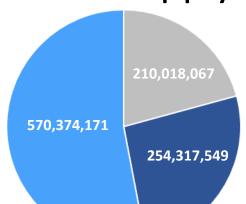
## Office Supply Additions Peaked in 2018







# Where Is Future Office Supply Concentrated?



■ Under Construction Sq. Ft.

Top 10 Markets	Sq. Ft. UC (MM)	UC as a % of Existing Stock
Brooklyn	4.6	12.5%
Austin	8.5	10.6%
Queens	2.1	10.1%
Nashville	5.0	8.6%
South Bend	0.6	8.0%
San Francisco	10.5	6.0%
El Paso	0.4	5.7%
Seattle	9.2	5.5%
Buffalo	1.4	5.5%
North Central Florida	0.4	4.7%

■ Planned Sq. Ft.

Top 10 Markets	Sq. Ft. Planned	Planned as a % of
	(MM)	<b>Existing Stock</b>
Austin	15.8	19.7%
Brooklyn	3.7	9.9%
Seattle	14.2	8.6%
Miami	6.1	8.5%
Mobile	0.5	8.1%
Wilmington	0.3	7.9%
Dallas - Fort Worth	23.2	7.5%
Bay Area	18.0	6.9%
Fort Wayne	0.6	6.7%
Charlotte	5.1	6.7%

Prospective Sq. Ft.

Top 10 Markets	Sq. Ft. Prospective (MM)	Prospective as a % of Existing Stock	
Nashville	15.4	26.2%	
Austin	15.4	19.3%	
Bay Area	46.9	18.1%	
Jacksonville	7.1	17.2%	
West Palm Beach	5.8	15.9%	•
Fort Lauderdale	7.1	15.2%	
Brooklyn	5.6	15.1%	
Atlanta	31.6	15.0%	
Washington, D.C.	58.4	14.2%	
San Francisco	23.8	13.5%	







# Top 20 Largest Office Projects Under Construction

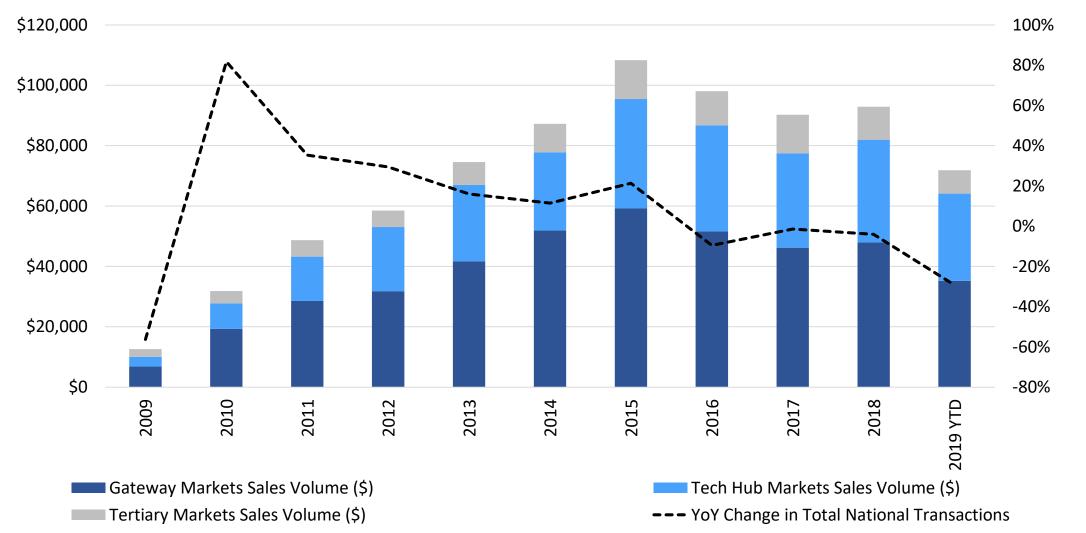
Property Name	Market	Square Footage
50 Hudson Yards	Manhattan	2,900,000
The Spiral	Manhattan	2,800,000
The Post Office	Chicago	2,800,000
One Manhattan West	Manhattan	2,077,557
Two Manhattan West	Manhattan	1,840,000
One Vanderbilt	Manhattan	1,755,814
Winthrop Center	Boston	1,612,400
110 North Wacker	Chicago	1,565,909
3 Hudson Blvd	Manhattan	1,538,210
First Street Tower of Oceanwide Center	San Francisco	1,491,019
Seneca One Tower	Buffalo	1,348,964
Google Hudson Square - 550 Washington Street	Manhattan	1,300,000
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
Texas Tower	Houston	1,155,000
The David H. Koch Center for Cancer Care	Manhattan	1,153,000
Pioneer Natural Resources Headquarters	Dallas - Fort Worth	1,125,000
One Congress at Bulfinch Crossing	Boston	1,012,000







# Expect 2019 Office Sale Volume to be in Line With the Past Two Years





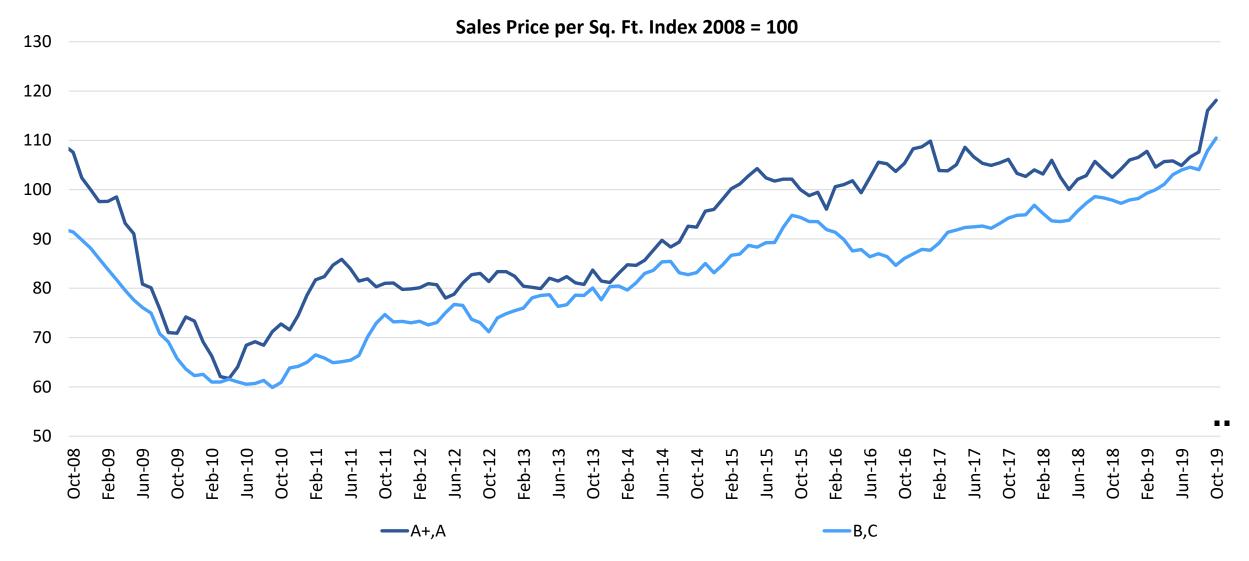


YoY Change in # of Transactions

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



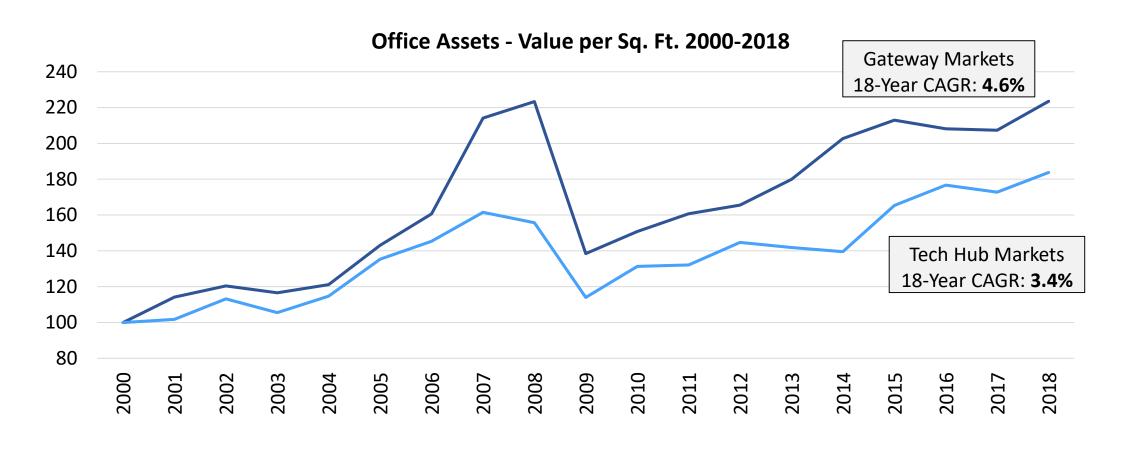


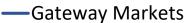






# Office Assets in Gateway Markets Have Outperformed Since 2000, But...





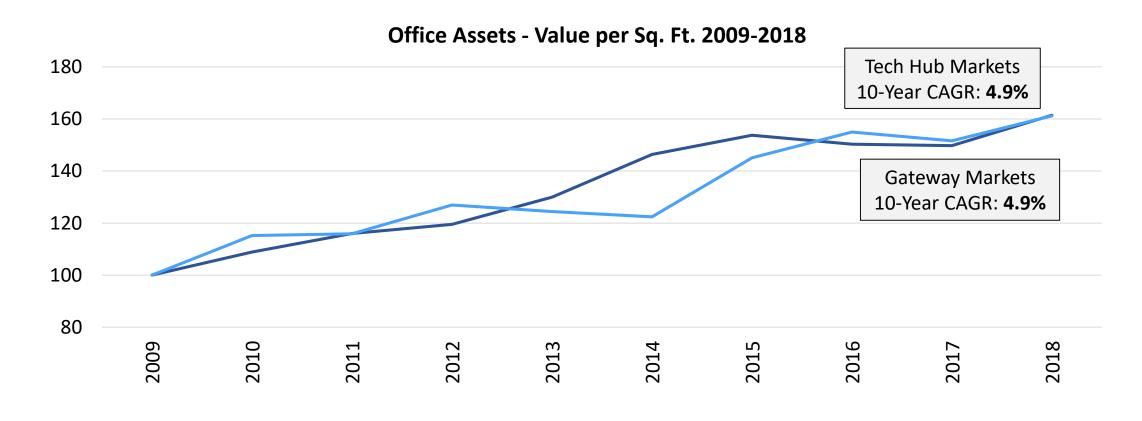
—Tech Hub Markets







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



—Gateway Markets

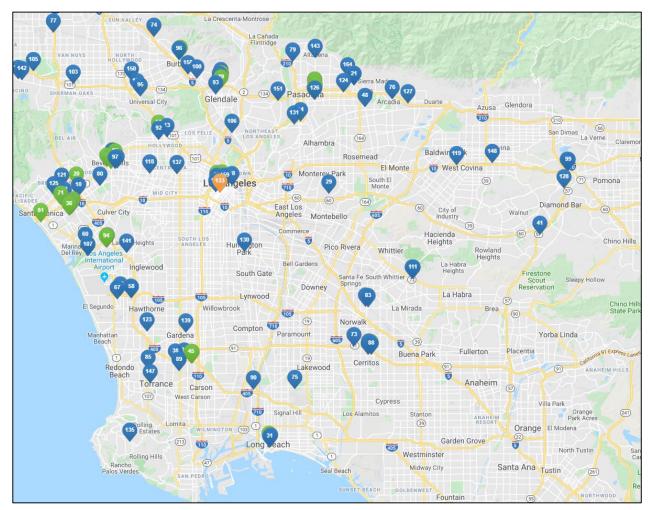




—Tech Hub Markets

# Los Angeles Office Transaction Composition in 2018





2018 Transactions							
# % of Stock							
<b>Properties Sold</b>	164	6.1%					
<b>Sq. Ft. Sold</b> 17,889,090 5.9%							

2018 Sales Prices					
Avg. Sales Price per Sq. Ft.	\$338.03				
Avg. Sales Price per Sq. Ft. for Class A+/A Assets	\$496.97				
1-Year Sales Price per Sq. Ft. Growth for Class A+/A Assets	-9.3%				
5-Year Sales Price per Sq. Ft. Growth for Class A+/A Assets	17.3%				

**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

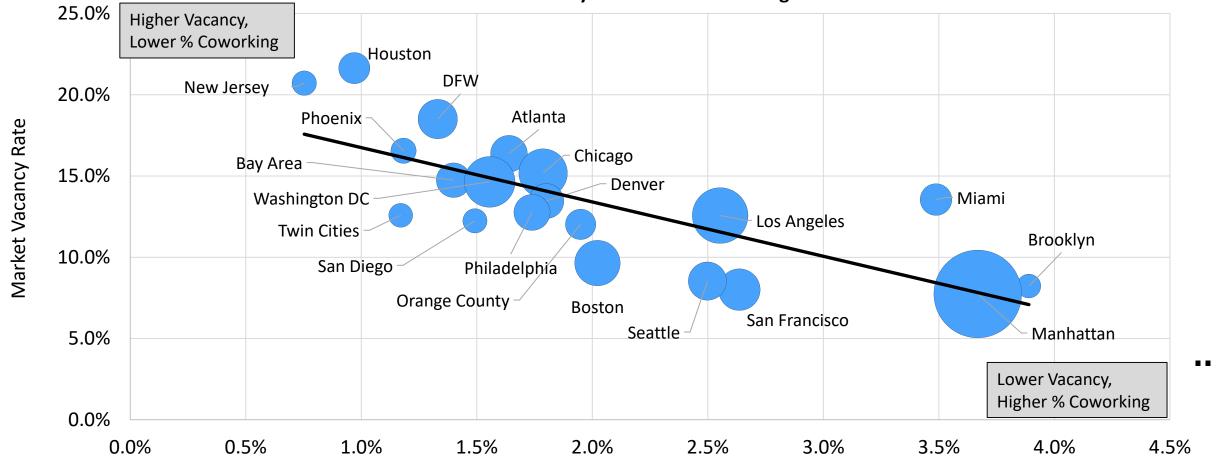






# Markets With Lower Vacancy Rates Have Higher Proportion of Coworking Space







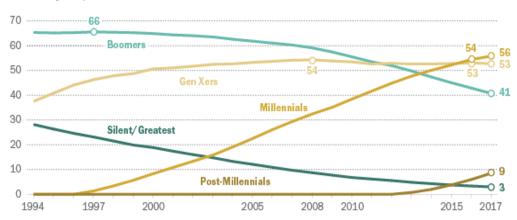


# The Office Has Become an Experience Much Like Retail

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

U.S. labor force, in millions

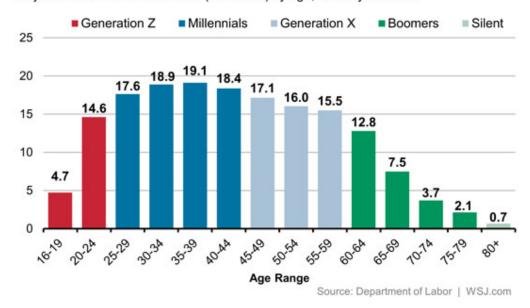


Note: Labor force includes those ages 16 and older who are working or looking for work. Annual averages shown. Source: Pew Research Center analysis of monthly 1994-2017 Current Population Survey (IPUMS).

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**

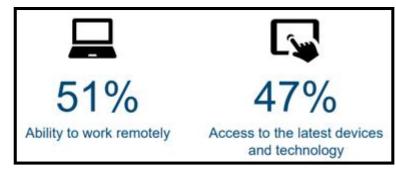
**(** 

58%

Flexible hours

**1** 31%

3170 Alternative desks, such as standing desks





On-site fitness centers



# Office Design: Elements That Matter



57%

Natural light



37%

Easily reconfigurable furniture and spaces



36%

Artwork and creative imagery



30%

Collaborative spaces



25%

Spaces for rest and relaxation



25%

**Bold colors** 







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

MULTIFAMILY	Los Angeles	Atlanta	Austin	Boston	Dallas	Manhattan	Miami	San Francisco	Washington D.C.
Net Operating Income	\$12,167	\$8,494	\$7,532	\$14,953	\$7,200	\$18,755	\$11,550	\$20,872	\$11,252
СарЕх	\$2,281	\$2,134	\$1,501	\$1,935	\$1,692	\$2,243	\$1,291	\$1,525	\$1,508
CapEx as a % of NOI	18.7%	25.1%	19.9%	12.9%	23.5%	12.0%	11.2%	7.3%	13.4%

OFFICE	Los Angeles	Atlanta	Austin	Boston	Dallas	Manhattan	Miami	San Francisco	Washington D.C.
Net Operating Income	\$12.41	\$13.15	\$18.37	\$21.92	\$10.72	\$32.60	\$18.16	\$36.47	\$20.42
СарЕх	\$6.29	\$4.20	\$4.50	\$5.02	\$4.15	\$5.58	\$4.46	\$6.24	\$5.04
CapEx as a % of NOI	50.7%	31.9%	24.5%	22.9%	38.7%	17.1%	24.6%	17.1%	24.7%







# Matrix Expert Office Operating Data Per Sq. Ft.

Er	12-month period nding September 2019	Los Angeles	Atlanta	Austin	Boston	Chicago	Denver	Manhattan	Seattle	
Tota	l Income	\$33.49	\$22.64	\$31.99	\$38.00	\$26.48	\$24.10	\$61.72	\$35.82	
Tota	l Operating Expense	\$13.62	\$9.49	\$13.62	\$16.08	\$14.08	\$11.23	\$29.11	\$11.47	
Net	Operating Income	\$19.87	\$13.15	\$18.37	\$21.92	\$12.41	\$12.86	\$32.60	\$24.35	
Ope	rating Margin	59.3%	58.1%	57.4%	57.7%	46.9%	53.4%	52.8%	68.0%	
Сар	Rate (September 2019)	5.1%	6.9%	6.9%	6.3%	6.8%	5.8%	3.8%	5.6%	••





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### **SUMMARY**

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

 Coworking, telecommuting, outsourcing Both gateway & tech hub markets saw rising asking rents over the past year, with the highest growth in San Francisco, Tampa, West Palm Beach, Brooklyn & Manhattan

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 Los Angeles?

### • •

#### PUBLIC & PRIVATE PARTNERSHIPS

- \$4.9 billon people mover tram at LAX to be privately funded through partnership between LINXS (LAX Integrated Express Solutions) & Los Angeles World Airports
- The Grand Development in Downtown Los Angeles funded through a partnership of Los Angeles Grand Avenue Authority & the City and County of Los Angeles
  - 400 residential units, 20% low-income
  - Shopping areas & public art on display

# COMMUNITY & AMENITIES THAT RETAIN & DRAW IN TALENT

- Revitalization of Downtown Los Angeles
- \$5 billion LA Stadium & Entertainment District at Hollywood Park under construction:
  - 70,240-seat stadium & 6,000-seat performance center
  - 298-acre complex of medical buildings, shops restaurants, residential units, hotels & parks

#### FRIENDLY BUSINESS ENVIRONMENT

- State Rank #29
- California Competes Tax Credit provides an income tax credit for businesses choosing to come to or stay in California
- The City of Los Angeles Green Business Program (LAGBP)
   provides businesses with free resources & voluntary assistance
   to help businesses become greener & more sustainable

#### **EDUCATED WORKFORCE**

33% of adults in the City of Los Angeles have a bachelor's degree or higher

University	Approx. Enrollment 2018
University of Southern California	47,500
University of California, Los Angeles	45,507
California State University, Los Angeles	27,685
California State Polytechnic University	25,894
Loyola Marymount University	9,695

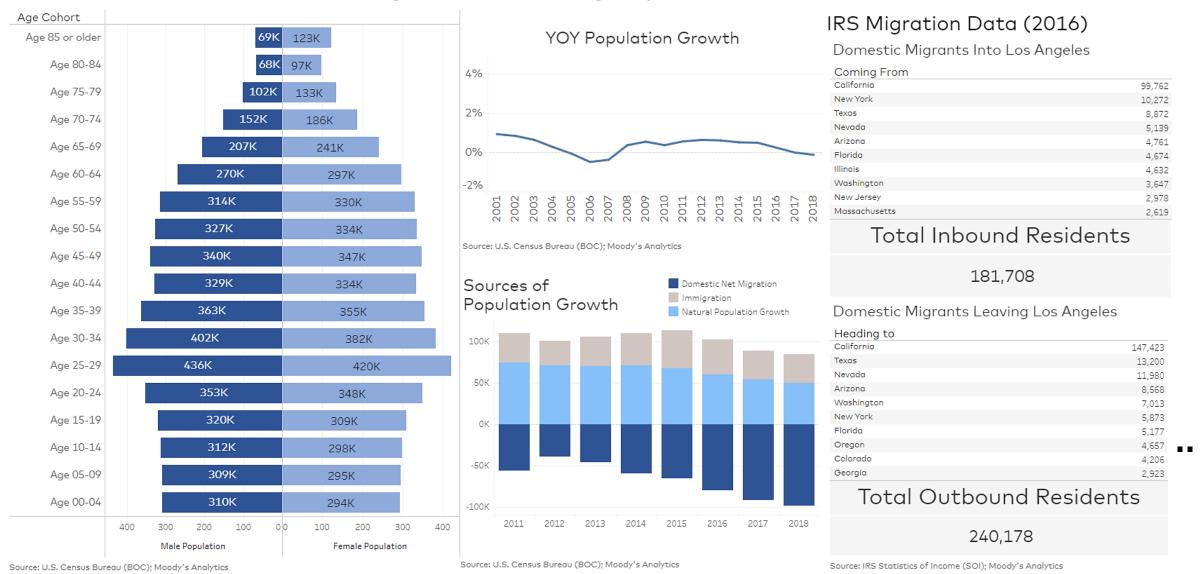






## Los Angeles Demographics Overview

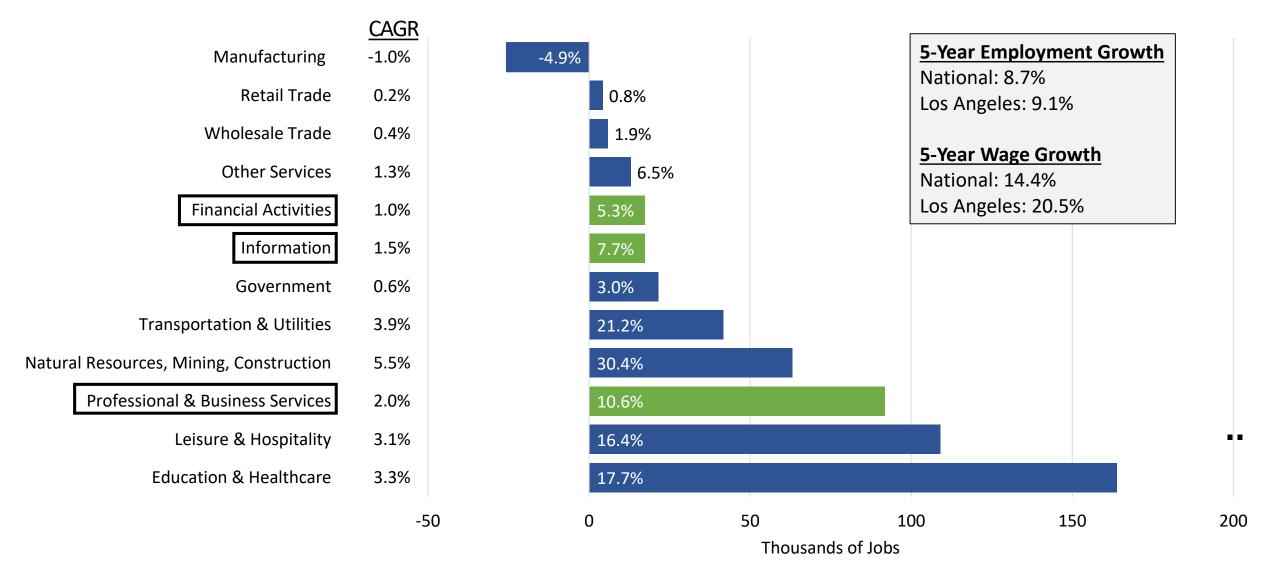






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# Los Angeles Employment Growth Sept 2014 – Sept 2019

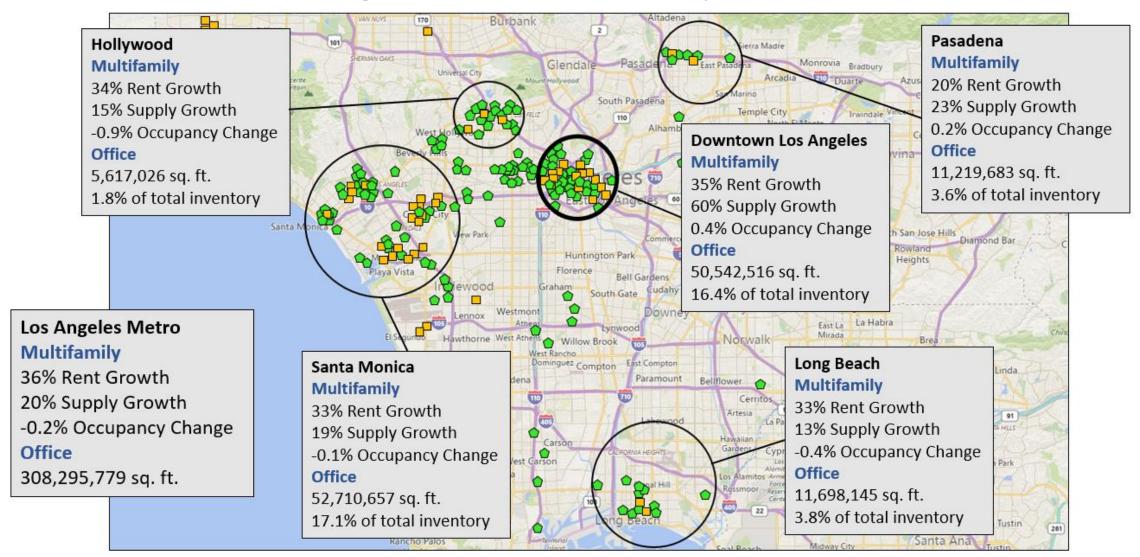








## Los Angeles Intellectual Capital Nodes



■ Office Development

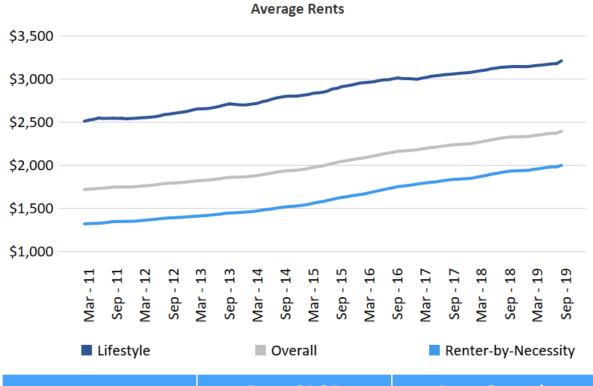
Multifamily Development



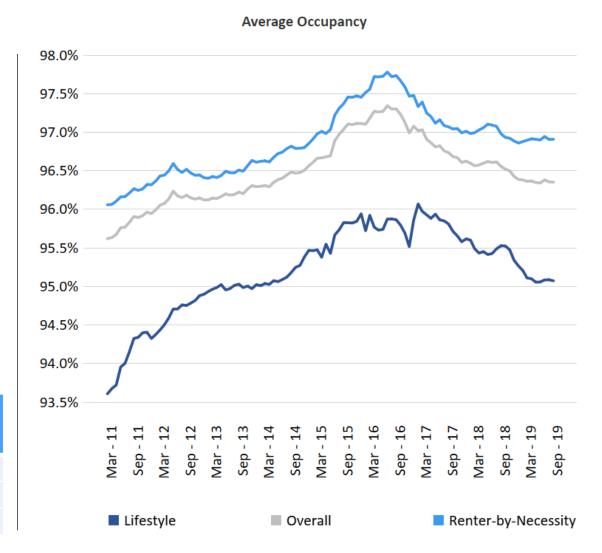


# Multifamily Rents & Occupancy: Los Angeles





Asset Class	Rent CAGR 2011-2019	Rent Growth 2018-2019
Lifestyle	3.1%	2.3%
Renter-by-Necessity	5.3%	3.9%
Overall	4.2%	3.2%









# Los Angeles Top 5 Submarkets Multifamily Rent & Occupancy Forecasts

	2018			2019 Forecast			2020 Forecast		
Submarket	Rent Growth	Avg Rent	Occupancy	Rent Growth	Rent	Occupancy	Rent Growth	Rent	Occupancy
East Los Angeles South	2.6%	\$2,530	98.6%	11.2%	\$2,812	98.0%	0.6%	\$2,830	97.9%
Century City	0.8%	\$6,932	97.5%	9.8%	\$7,614	94.5%	0.9%	\$7,682	94.7%
Compton	11.8%	\$1,233	98.5%	9.8%	\$1,354	98.1%	0.7%	\$1,363	97.9%
Beach Cities	1.8%	\$2,329	96.7%	7.7%	\$2,508	97.3%	1.7%	\$2,550	97.4%
Hawthorne	5.0%	\$1,527	97.6%	6.9%	\$1,631	98.2%	1.9%	\$1,662	98.4%
Los Angeles	3.8%	\$2,330	96.4%	4.0%	\$2,368	96.4%	1.5%	\$2,402	96.4%







# Los Angeles 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+	652	136,996	13,474	1,066	14,540	\$45.56	\$46.23	10.6%	0.9%	11.4%
В	2,008	153,504	15,005	403	15,408	\$32.68	\$33.00	13.6%	0.3%	13.9%
С	71	5,849	616	13	629	\$25.96	\$25.96	16.2%	0.3%	16.6%
TOTAL	2,731	296,349	29,095	1,482	30,577	\$37.87	\$38.58	12.0%	0.6%	12.7%



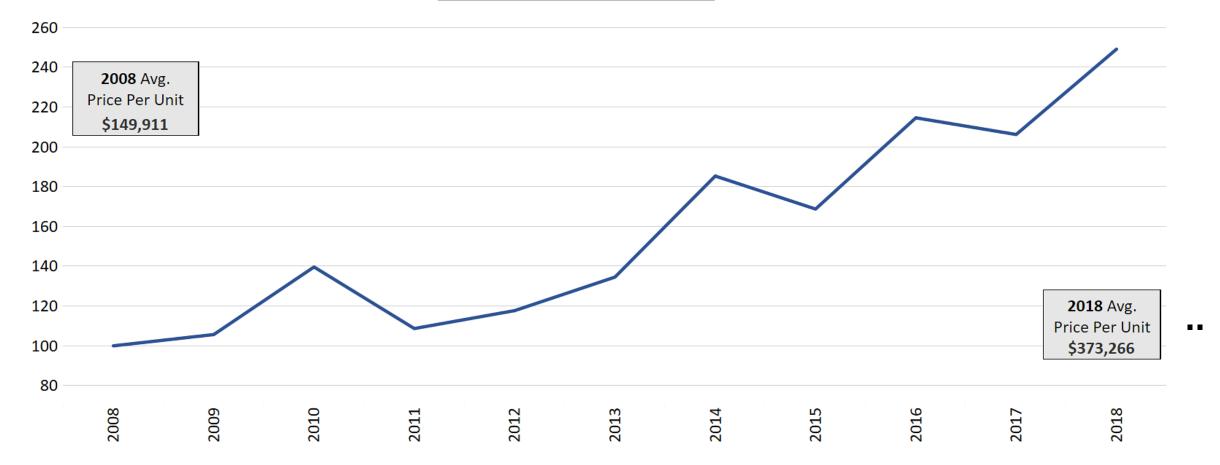


# Multifamily Sales Prices: Los Angeles

- -

Price Per Unit Index 2008 = 100

**10-Year Growth:** 149.0% **10-Year CAGR:** 9.6%



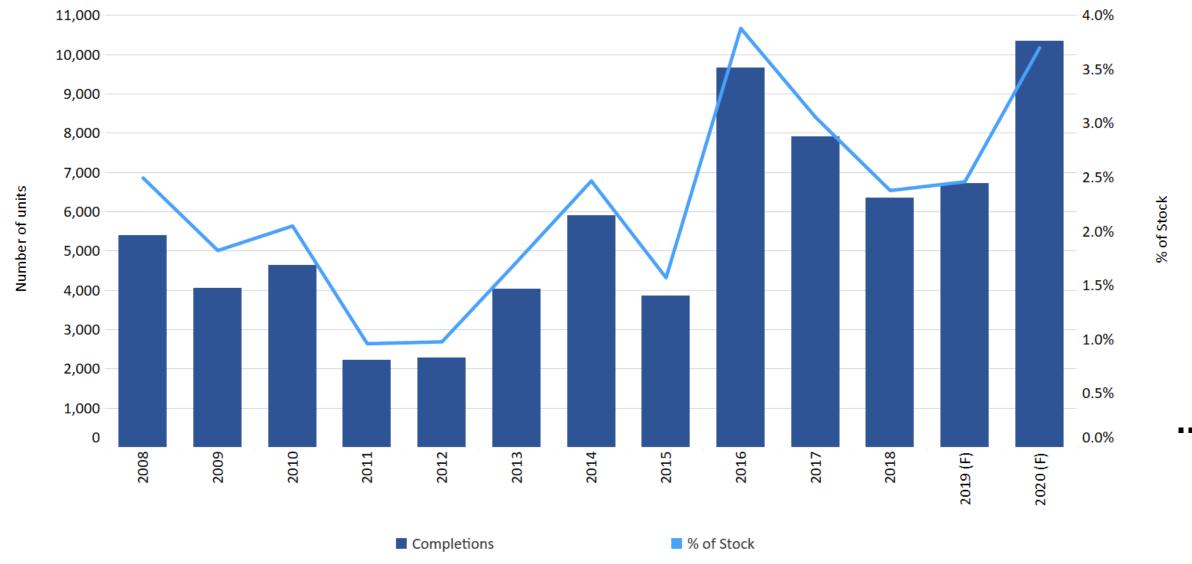






# Multifamily Supply Pipeline: Los Angeles











# Los Angeles Development Pipeline

### **Multifamily**



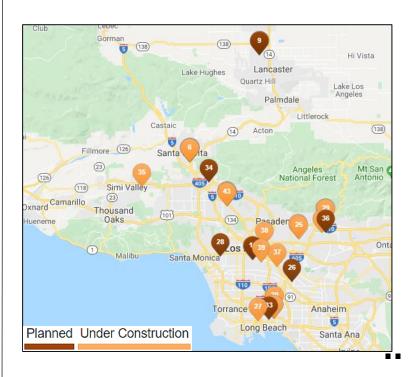
Property Status	# of Units	% of Existing Stock
Under Construction	23,760	8.6%
Planned	23,616	8.5%

### Office



Property Status	Sq. Ft.	% of Existing Stock
<b>Under Construction</b>	10,026,562	3.3%
Planned	5,587,699	1.8%

### **Industrial**



Property Status	Sq. Ft.	% of Existing Stock
Under Construction	5,536,853	1.5%
Planned	2,230,078	0.6%





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## Top 5 Los Angeles Submarkets With Construction Activity

• •

### **Multifamily**

### **Office**

### <u>Industrial</u>

Submarket	Units Under Construction	% of Existing Stock	Submarket	Sq. Ft. Construction	% of Existing Stock	Submarket	Sq. Ft. Construction	% of Existing Stock
East Hollywood	1,820	56.0%	Culver City	1,192,167	18.7%	Burbank	1,014,887	53.0%
Hyde Park	1,282	48.1%	Hollywood	988,763	16.3%	Long Beach	1,022,018	18.1%
Koreatown	2,108	33.9%	North Hollywood	283,826	9.2%	Santa Clarita	904,453	9.7%
SW Long Beach	1,524	31.6%	Marina Del Rey	162,031	9.1%	Simi Valley	211,715	5.0%
Westwood	860	28.9%	West Los Angeles	789,461	8.0%	San Gabriel Valley	2,095,980	2.7%
Los Angeles	23,760	8.6%	Los Angeles	10,026,562	3.3%	Los Angeles	5,536,853	1.5%







### **SUMMARY**

Domestic migration into Los Angeles has been declining for the last few years, but is offset by international immigration. Employment & wage growth in Los Angeles is above the national average, over a five-year period.

Multifamily rents are rising, primarily in the lifestyle asset class. Occupancy for Renter-by-Necessity assets is currently outpacing Lifestyle asset class occupancy by about 2%. Overall occupancy has hovered between 96%-97% for the last few years. Multifamily completions peaked in 2016 & there are still a number of projects in the pipeline.

Office fundamentals remain positive, with class A & A+ asking rates significantly higher than B & C assets. Los Angeles has about 3.3% of office sq. ft. under construction as a percentage of existing stock, & most of that new supply will be added in the Culver City & Hollywood submarkets.







# 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 growth will be slow moving into Q4, with a lot more noise.
- 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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