

## MULTIFAMILY NATIONAL OUTLOOK

SPRING 2022



### **PRESENTERS**



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### AGENDA

- Opening Remarks
- Macroeconomic Outlook
- Migration and Demographic Trends
   Impacting Housing Demand
- Multifamily Fundamentals and Forecasts
- Single-Family Rentals in Build-to-Rent Communities



## OPENING REMARKS



### Yardi Matrix House View – May 2022

#### MACROECONOMIC UPDATE

- The pandemic recovery has been rapid (V-shaped)
- Labor, goods and money supply have been disrupted
- The Fed has been too slow to react to soaring inflation, now they are playing catch-up
- The economy is at an inflection point as a result

#### **MULTIFAMILY INDUSTRY**

- Inflation, geopolitics, and the changing nature of work (COVID initiated) have impacted housing demand
- Two enduring themes: growth in e-commerce and work-from-anywhere
- Multifamily fundamentals are great, but...
- The capital markets are adjusting, since they are quicker to respond to disruptions
- Amplified changes in demographics will continue to benefit the multifamily industry, but less so

#### **OUTLOOK**

- We expect the economy and multifamily industry to continue their stellar growth, at a more moderate pace
- It'll be a bumpy ride for the next couple years until the next recession hits, which we are expecting in 2024-2025
- Amid all the noise, the key to success will still be thoughtful market and investment strategy selection



### Recent Multifamily Trends Appear to be Aligning with our Past Theses

THESIS FROM NOVEMBER WEBINAR	ACTUAL TREND
Markets will start to see some deceleration in rent growth	Multifamily rent growth overall is beginning to decelerate— with year-over-year growth falling 50 basis points in April. Tech hubs did see substantial rent growth through the third quarter of 2021; however, they have since seen the rate of rent growth moderate.
The return to office has been stalled	It appears the return to office has been slower than some anticipated. A slowdown in the return to offices has allowed workers continued flexibility to work from anywhere, which has helped fuel the spreading of the population, as reflected in recent migration numbers
Tech hub markets will continue to perform the strongest, however, most gateway markets will still see positive fundamental performance.	According to recent data, absorption and rent growth have been strongest in tech hub markets, primarily in the Sunbelt region. However, gateway markets, such as New York, have rebounded— seeing robust rent growth and an increase in occupancy on a year-over-year basis
Demand for single-family rentals has surged due to more demand for homes, with constraints to purchasing	Demand for single-family rentals appears to remain strong as rent growth is solid in all major markets and at the national level

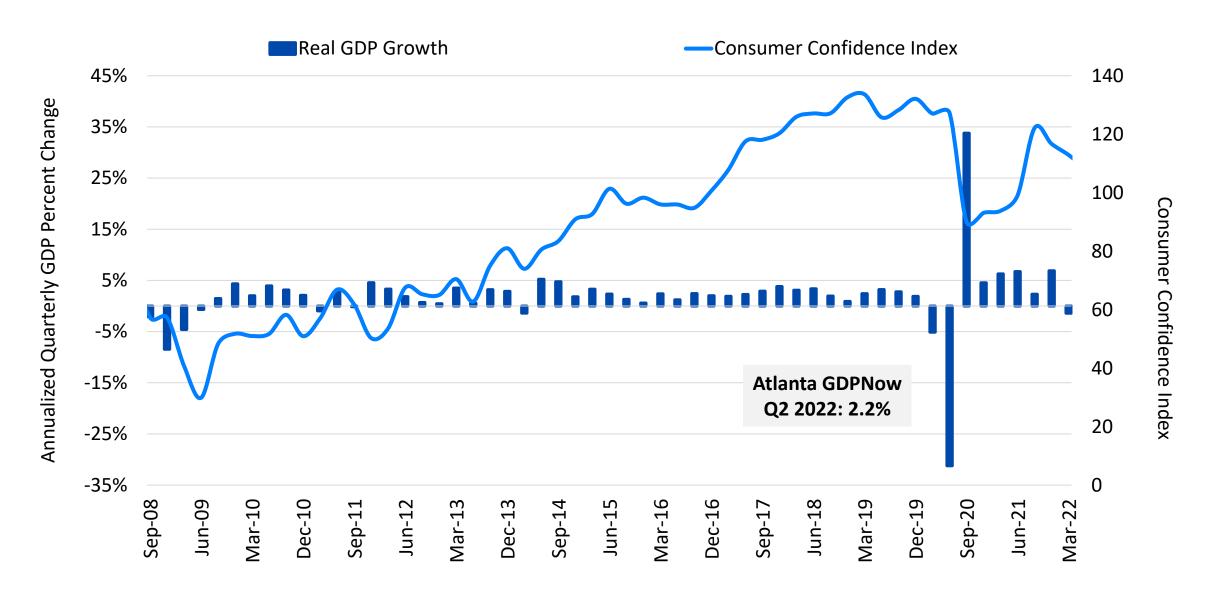


Source: Yardi Matrix

## MACROECONOMIC OUTLOOK

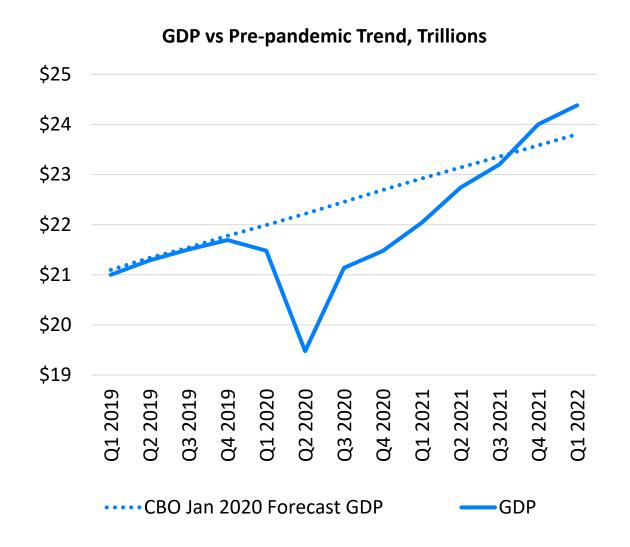


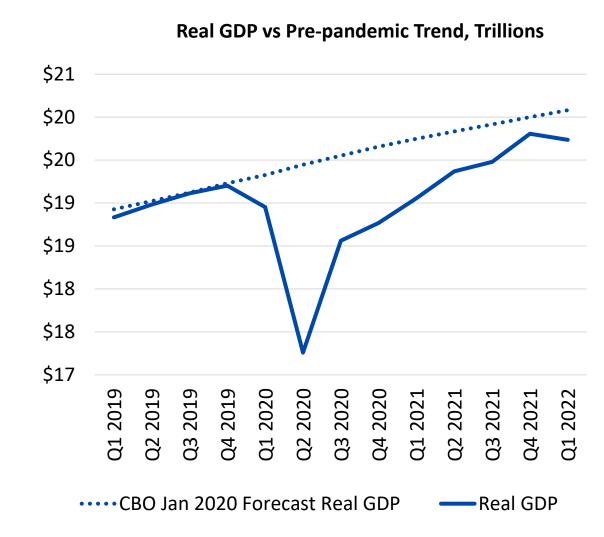
### Q1 GDP Fell, Largely Driven by Inventory Adjustments; Consumer Demand OK





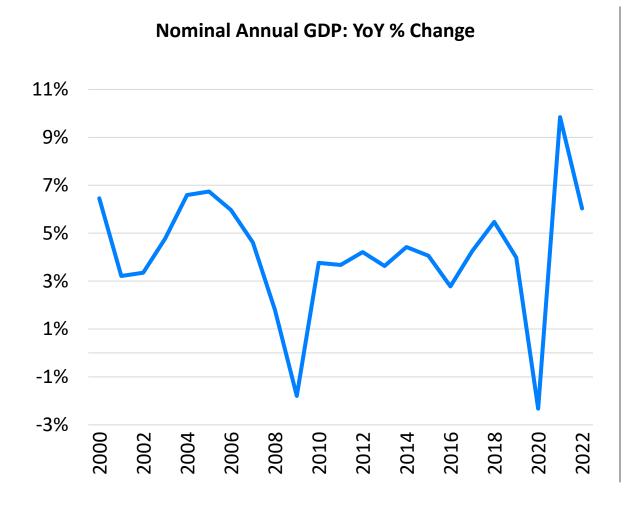
### GDP Has Surpassed Its Pre-Pandemic Trend While Real GDP Has Not







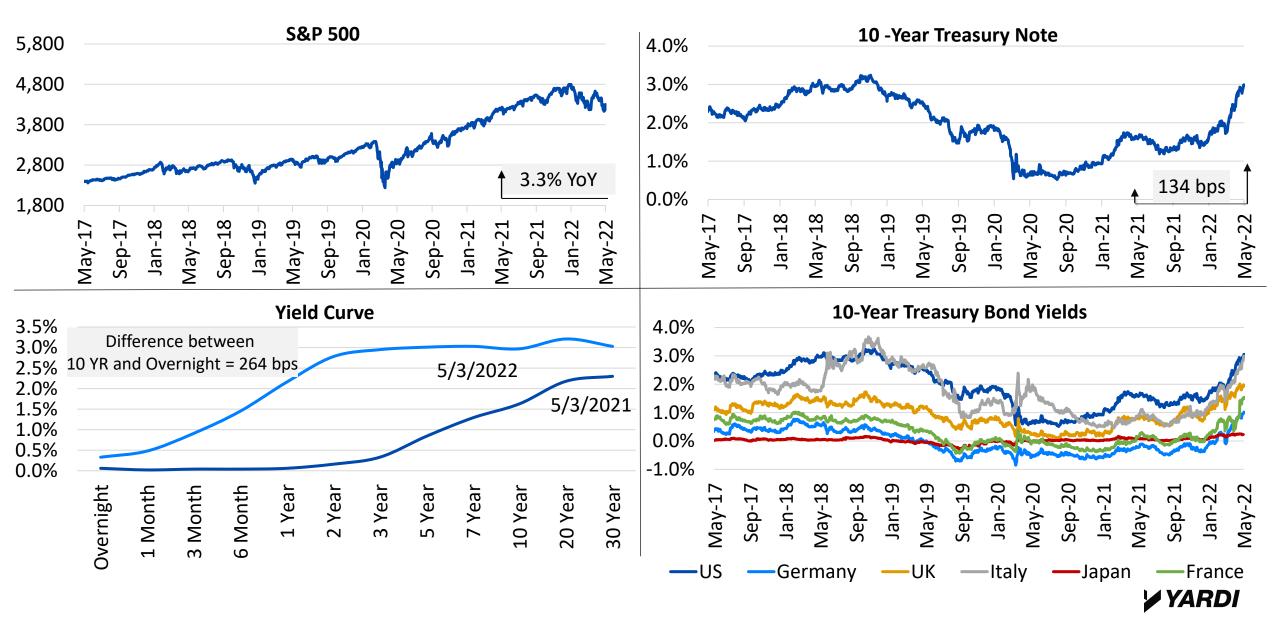
### The Recovery Out of COVID Has Been Rapid and V-Shaped



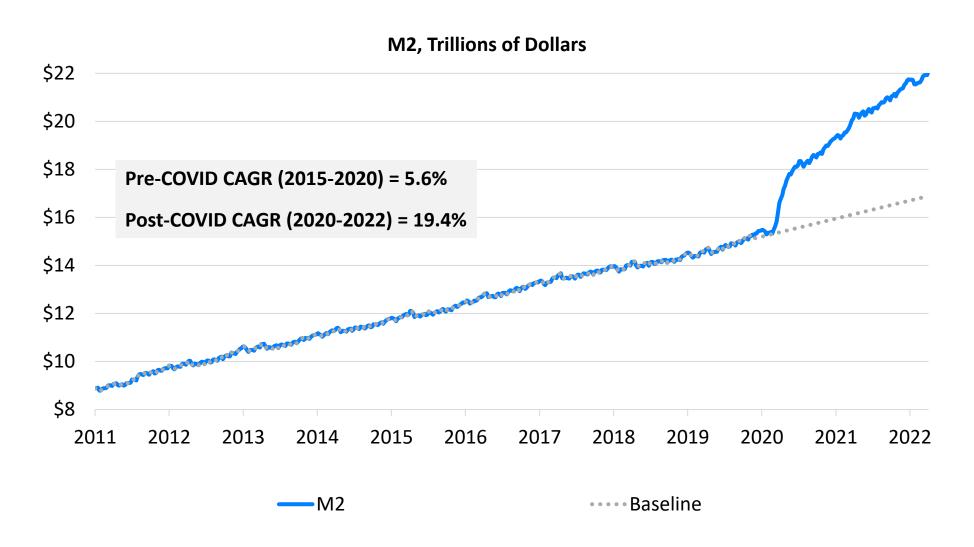
Evercore ISI / Yardi Matrix Economic Forecasts			
	2021	2022 Forecast	2023 Forecast
Real GDP: YoY % Change	5.5%	1.9%	2.5%
Nominal GDP: YoY % Change	11.8%	7.6%	6.0%
GDP Price Deflator: YoY % Change	5.9%	5.7%	3.5%
Fed Funds: End of Year	0.25%	2.75%	3.50%
<b>10 Yr Bond Yields:</b> End of Year	1.50%	3.50%	4.00%



### U.S. and International Financial Markets

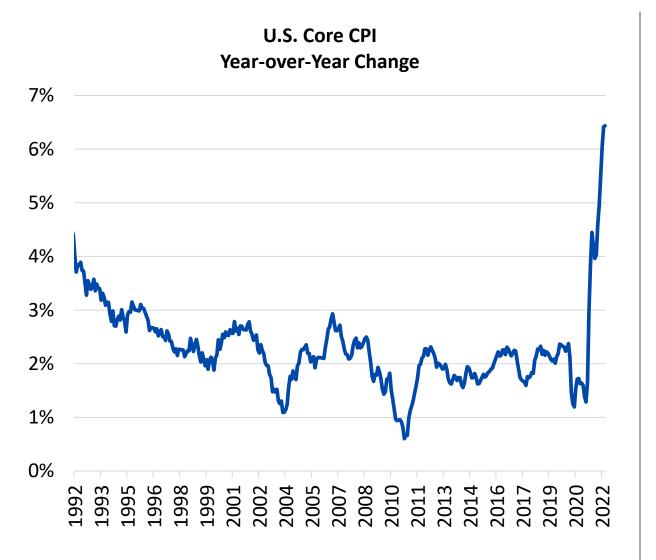


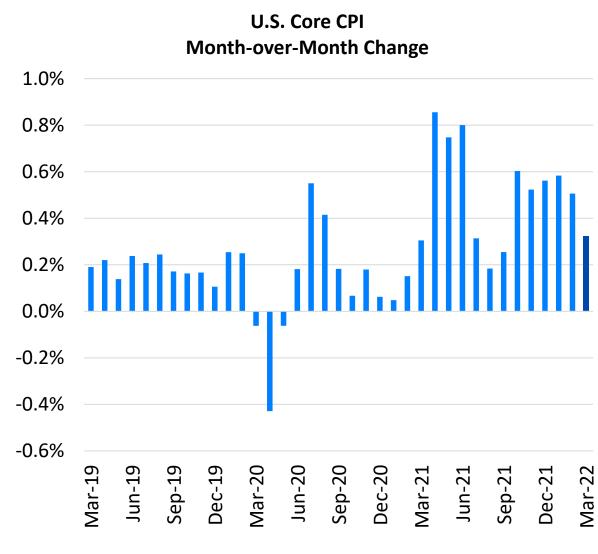
# Significant Expansion of the Money Supply Has Set Off Inflation, but has Started to Rapidly Decelerate





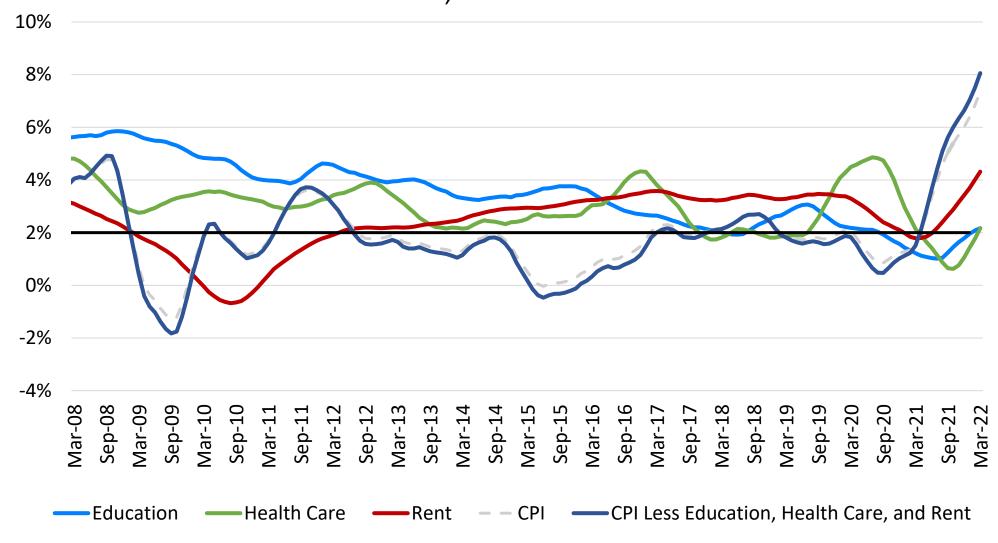
### CPI Gains on a Year-over-Year Basis Have Reached Multi-Decade Highs





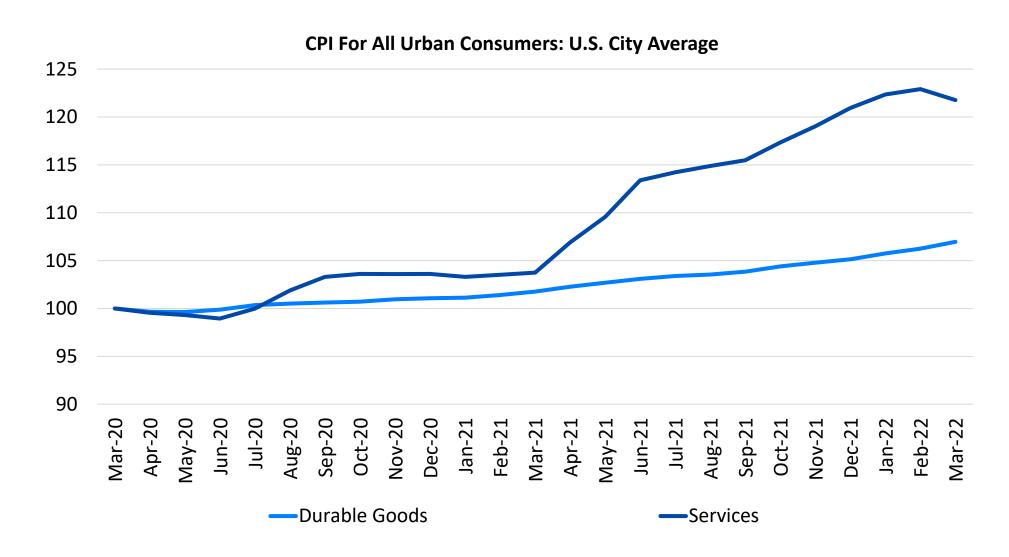


# Goods Inflation Has Taken Off, with Rent Soon to Follow; Even as Goods Inflation Decelerates, Rent will Pushback



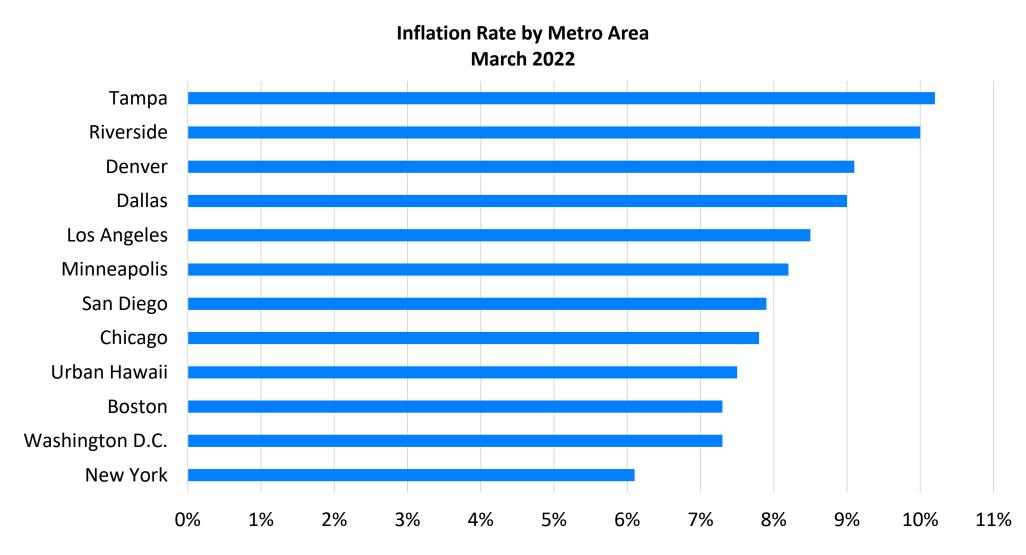


### Pandemic Set Off Surge in Services Inflation; Even as It Decelerates, Its Level will Still be Painful



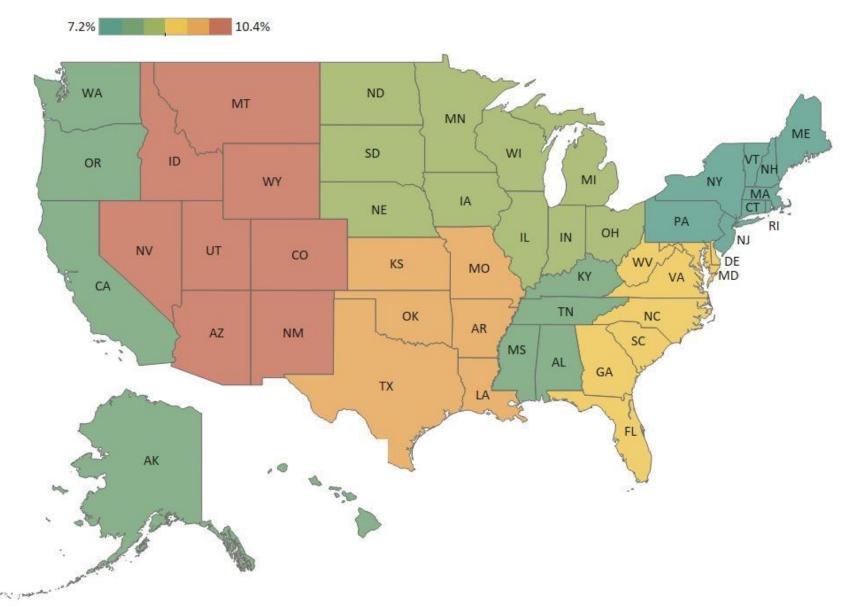


### Prices Are Rising Everywhere, Particularly in Sunbelt and Mountain Markets





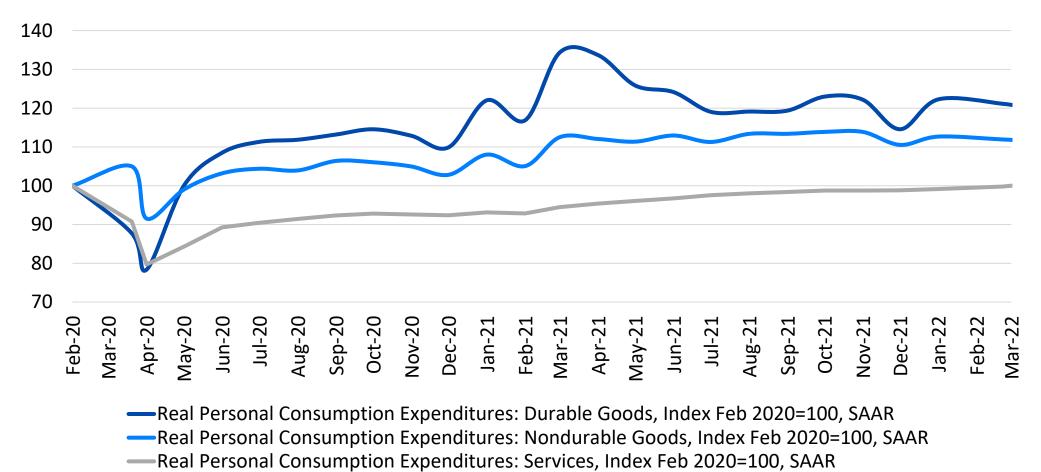
### Inflation Geography: Highest in Domestic Migration Favorites





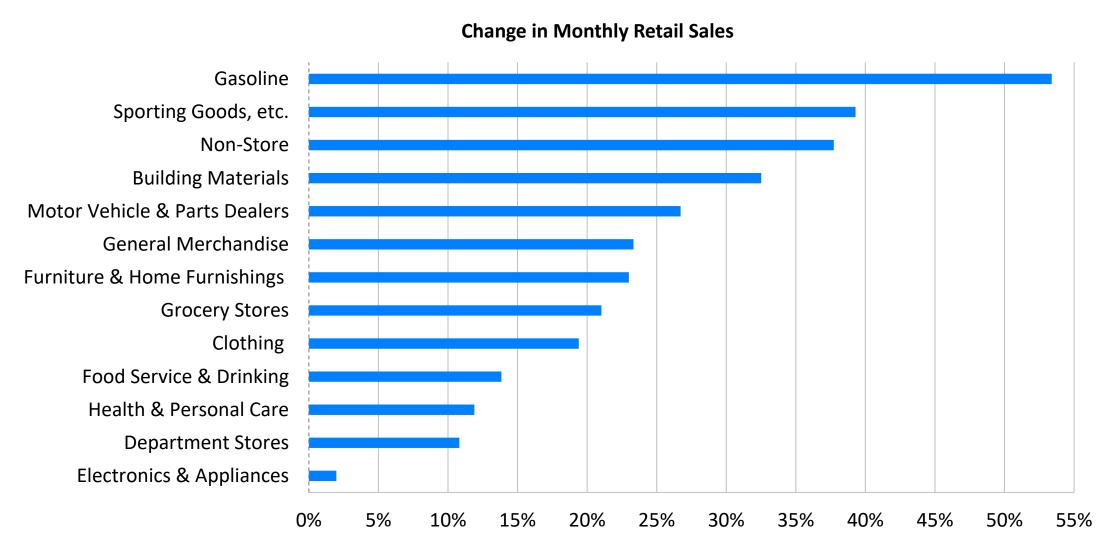
### Consumer Services Spending Back to Pre-Pandemic Levels; Durable Goods +20%

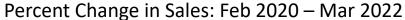






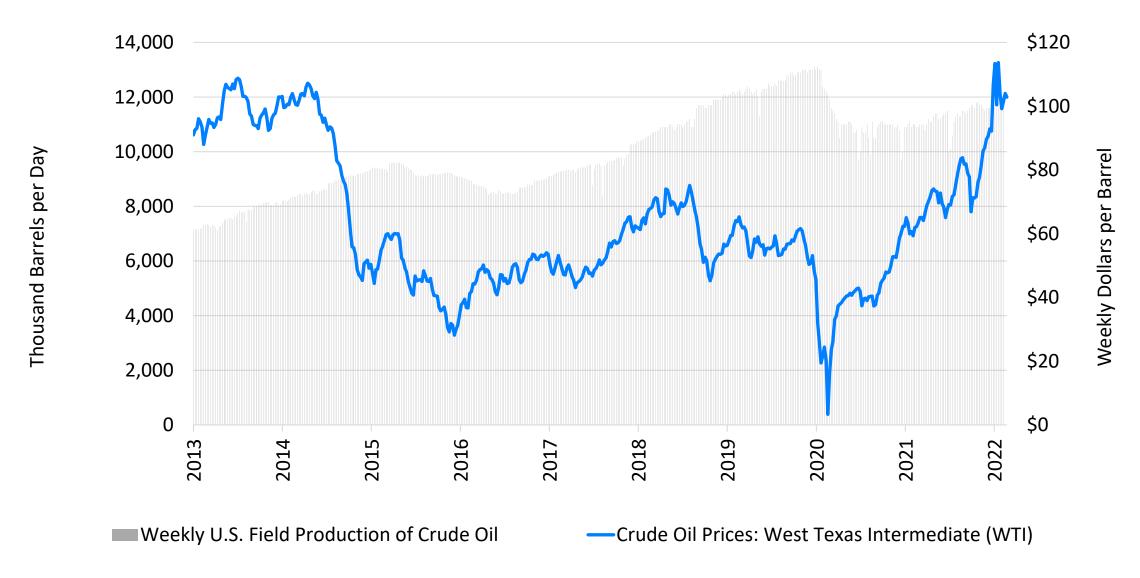
### Big Spending Gains on Gasoline, Non-Store Goods and Building Materials







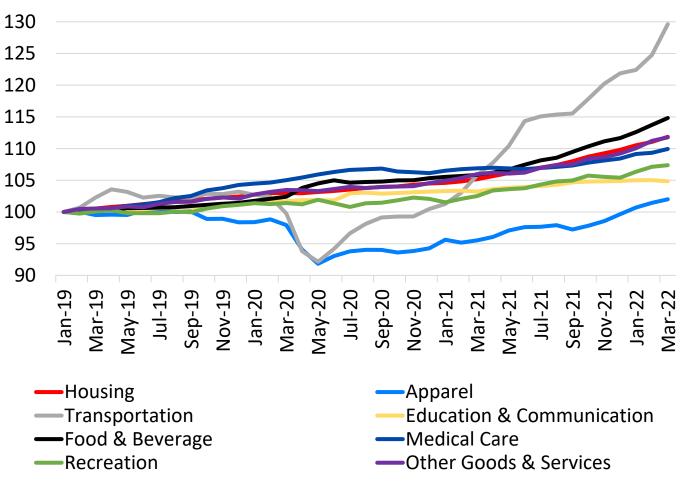
### Oil Prices Are High, Still Around \$100/Barrel





### Oil Prices: Significant Effect on CPI Growth



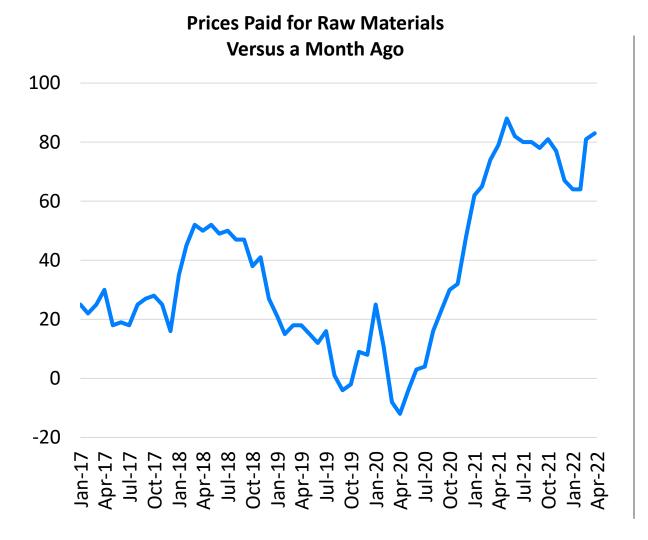


#### **Change in CPI Since January 2019**

Transportation	29.6%
Food and Beverage	14.8%
Housing	11.9%
Other Goods and Services	11.8%
Medical Care	9.9%
Recreation	7.4%
<b>Education and Communication</b>	4.9%
Apparel	2.0%



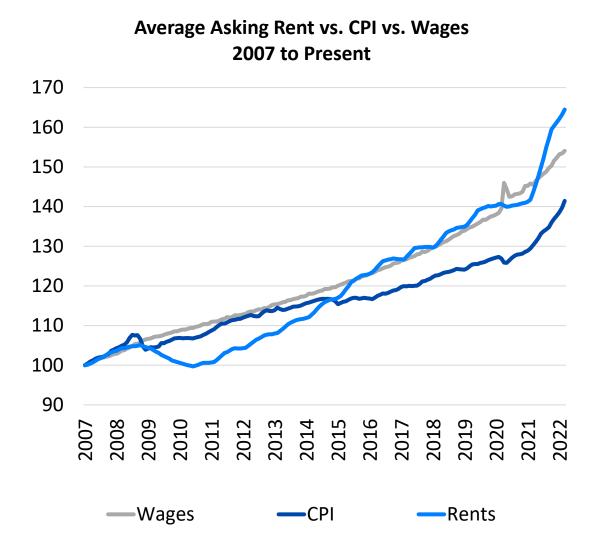
### Supply Chain Disruption Easing, but Still Impact Raw Materials Prices

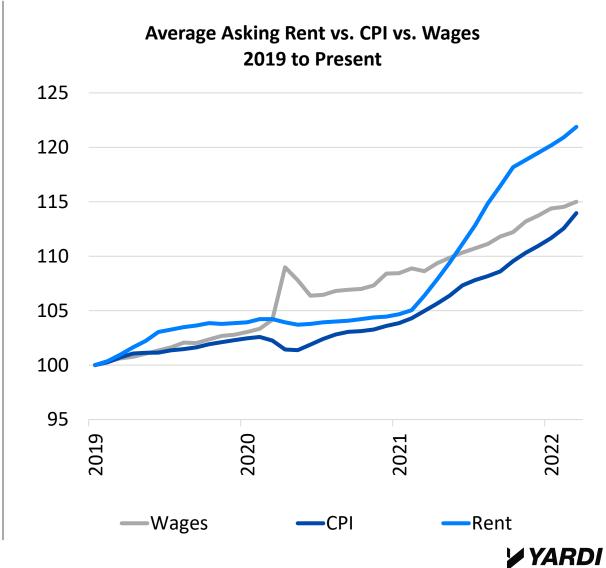




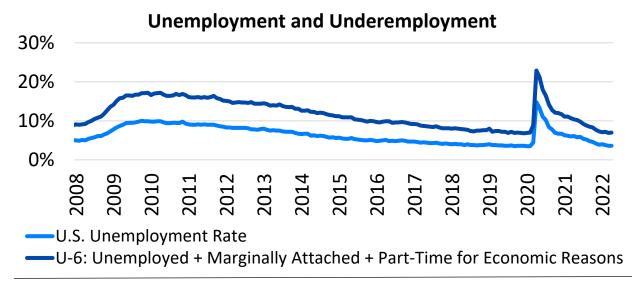


### Average Rents Rising Faster Than Inflation and Wage Growth



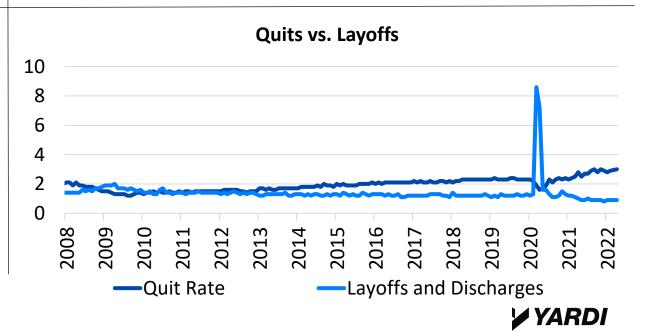


### Unemployment at Record Lows; Demand for Workers Remains High

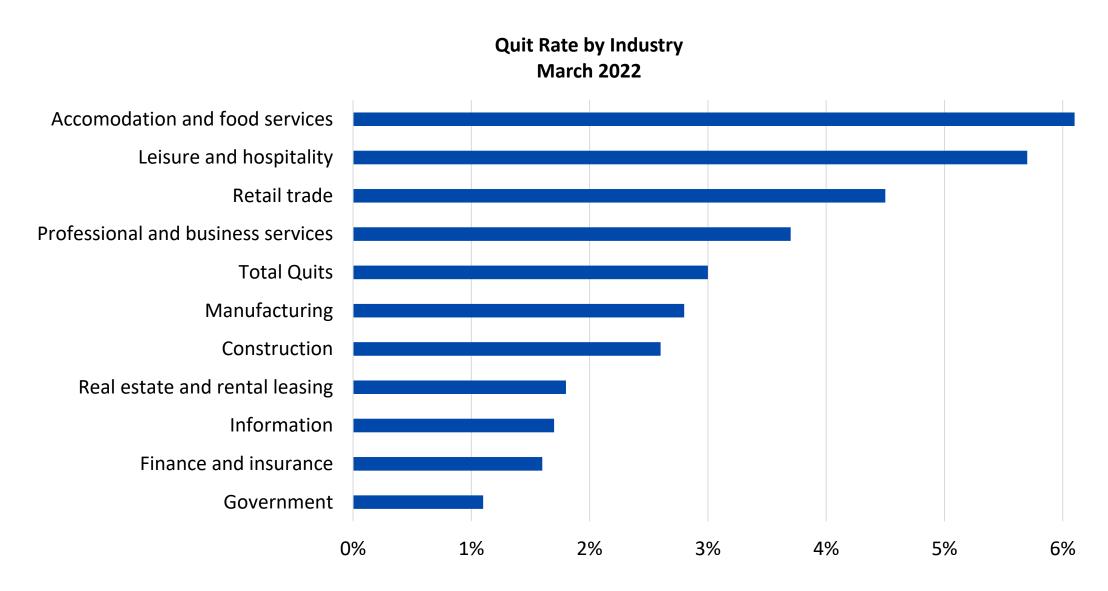








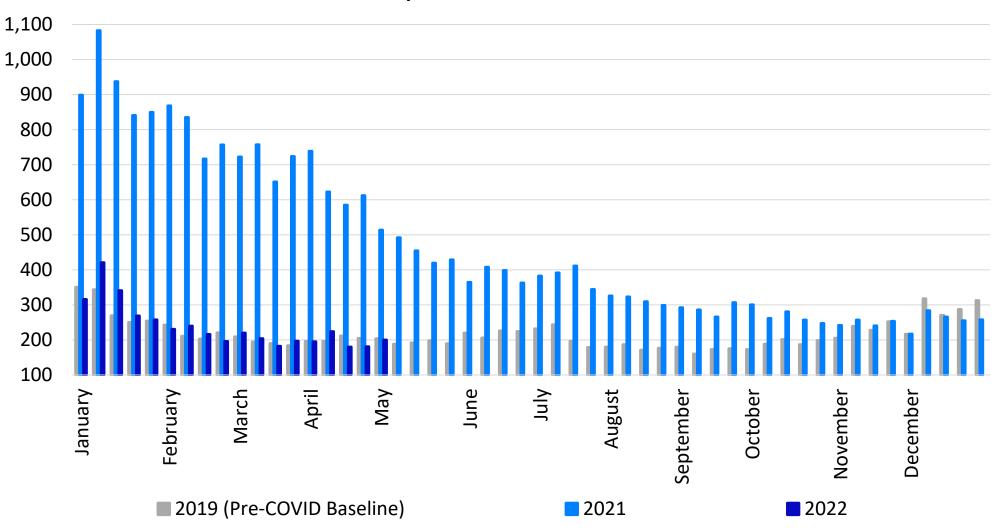
### Quit Rates Higher in Lower Wage Industries





### Initial Jobless Claims In Line With Pre-COVID Levels

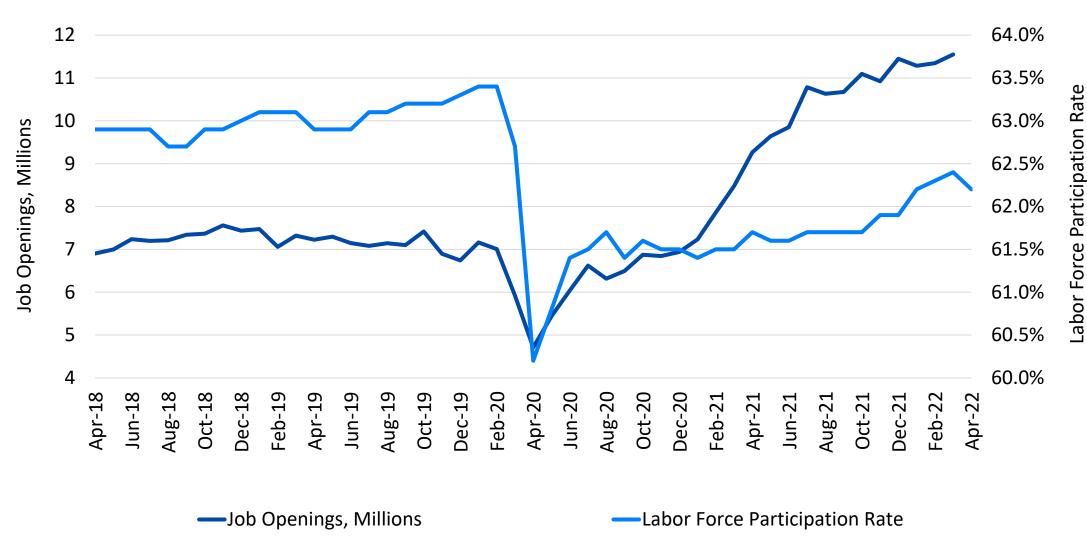






### Still a Significant Gap Between Labor Supply and Demand

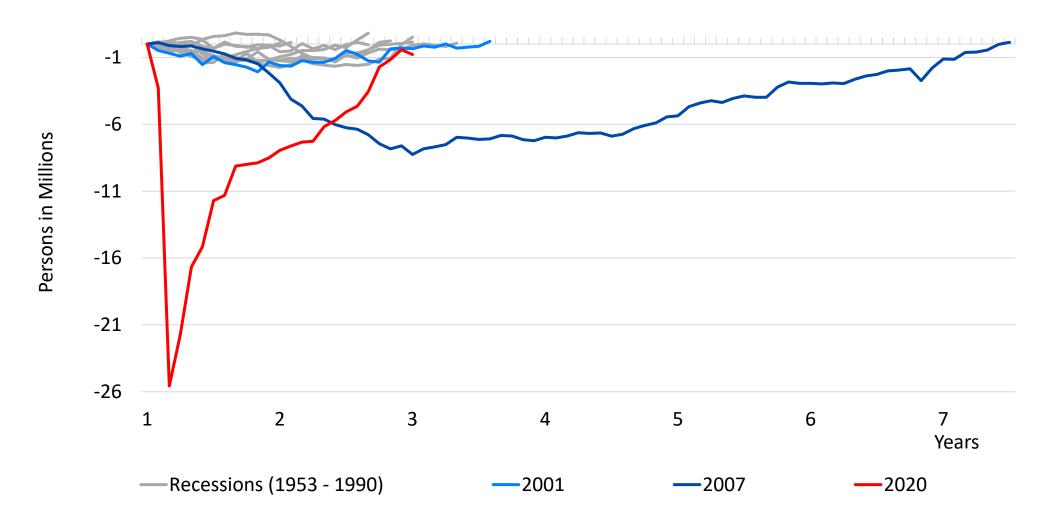
#### **Labor Supply and Demand**





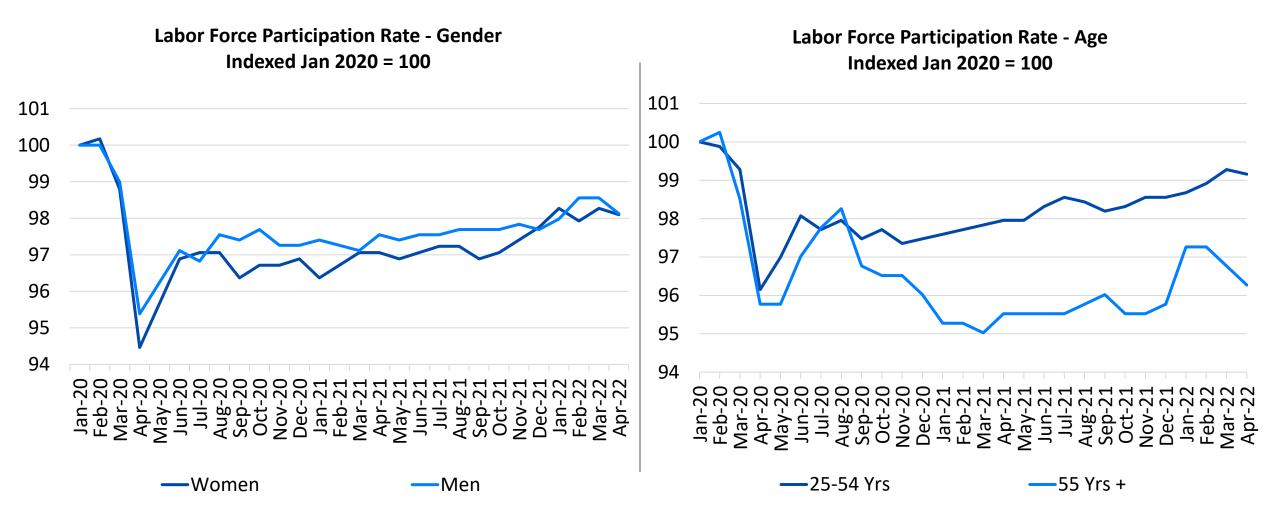
### US Employment Back to Pre-COVID Levels; It Was a "V"

Change in U.S. Employment from Beginning of Recession (1953-2021)





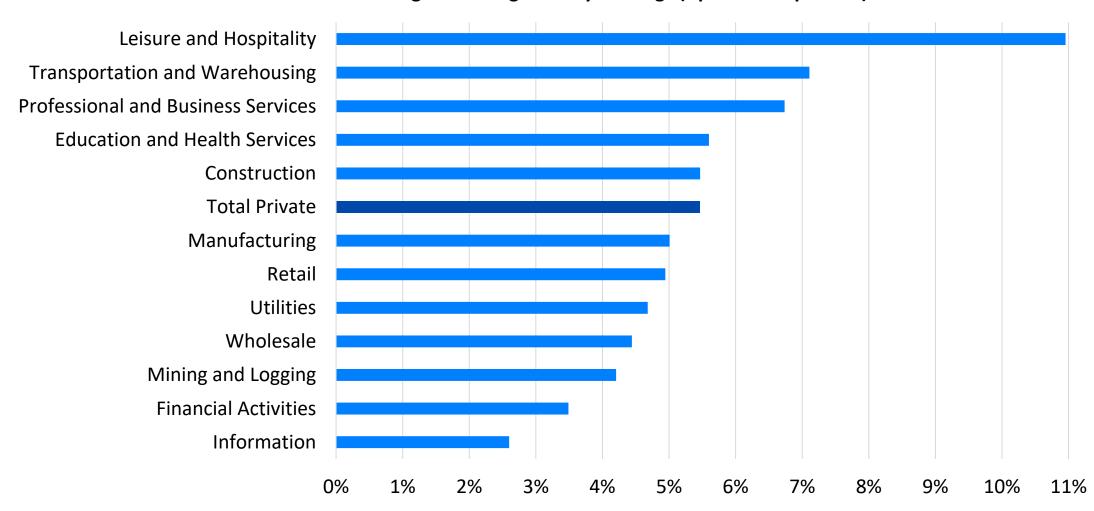
# Women and Men Returning to Workforce at Similar Rate; Workers Age 55+ Are Taking Time to Return





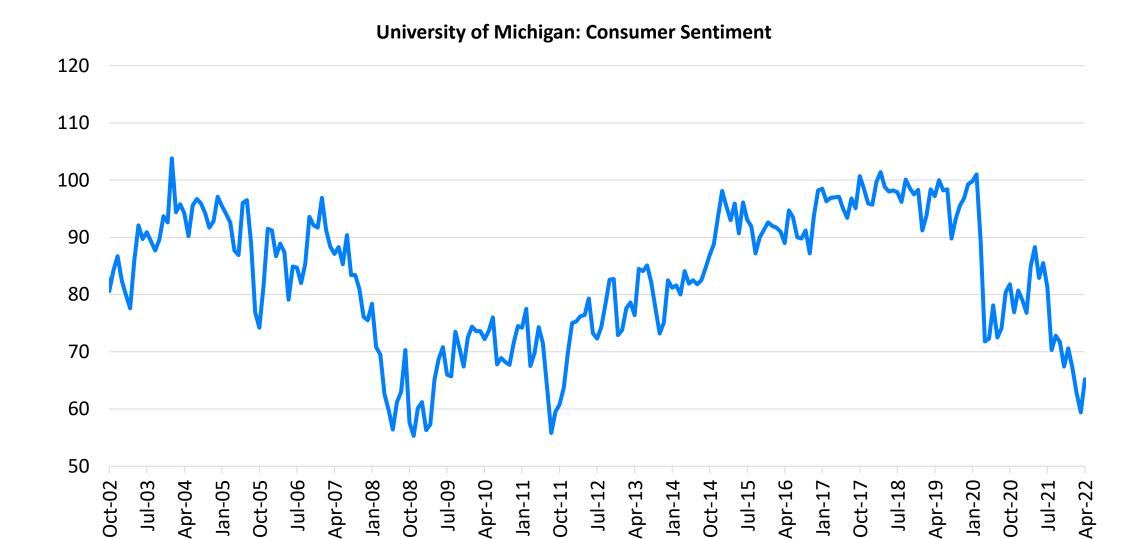
### Wage Growth Strongest at the Lower End in 2021

#### **Annualized Change in Average Hourly Earnings (Apr 2021 - Apr 2022)**





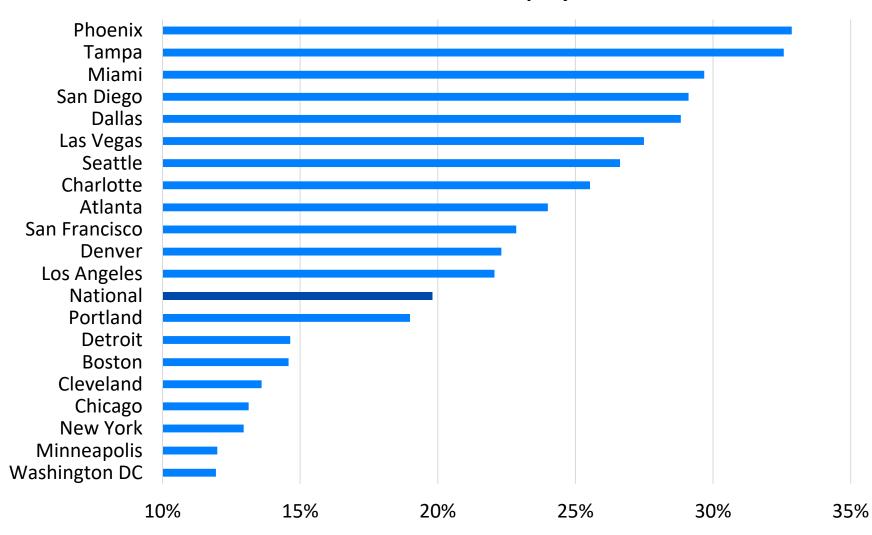
### Wages Not Keeping Up With Rising Prices; Consumer Sentiment Low





### Home Prices Increasing More Than Rents in Most Locations Over Past Year

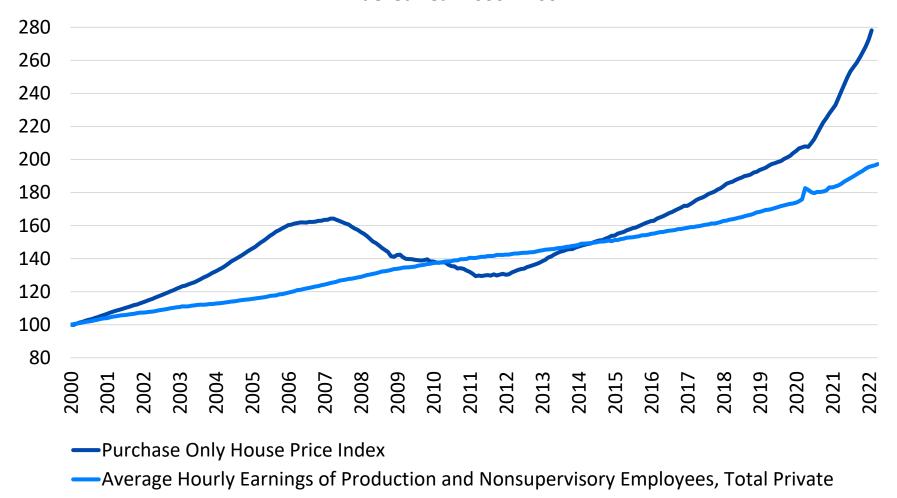






### Purchasing a Home is Becoming More Difficult







### The Regulatory Environment is Heating Up

#### **Arizona**

- Senate Bill 1099 would prohibit rent increases >5%, allowing cities and counties to establish lower rates; would bar a landlord from increasing rent more than once a year
- Senate Bill 1587 the max amount of rent increases would be the lesser of 10% of the lowest rent charged in the previous 12 months or 5% of lowest rate charged plus the rate of inflation

#### California

• Tenant Protection Act of 2019 – limits annual rent increases to 5%, plus the rate of inflation

#### Colorado

• Current proposals to cap mobile home rents by the greater of 3% or the local annual inflation rate

#### **Florida**

• Senator Victor Torres is proposing to overturn Florida's rent-control ban

#### **New York**

• Senate Bill S-3082 and Assembly Bill A-5573 – "Good Cause Eviction" – would prohibit landlords from evicting occupants without good cause; defines rent increase >3% of previous rental or 1.5% of consumer price index (CPI) as unreasonable

#### Oregon

• Senate Bill 608 – rents can only be changed once per year, limited to 7%, plus the annual change in CPI

#### **Emergency Rental Assistance Program (ERAP)**

• \$16.4 billion (66%) of ERA1 funding has been spent as of the most recent U.S. Department of Treasury report (Dec 31, 2021)



### The Regulatory Environment is Heating Up

#### **Boston, Massachusetts**

Rent Stabilization Advisory Committee created March 2022 to develop city rent stabilization plans

#### Los Angeles, California

• Extended COVID-19 eviction moratorium through March 2023, allowing for repayment of unpaid rents to be due May 31, 2023

#### Miami, Florida

County commission advanced study to slow rent increases

#### Pasadena, California

Ballot measure in November to limit rent increases to once a year with a maximum of 75% of the annual increase in the CPI

#### Takoma Park, Maryland

• Rent Stabilization Law – requires landlords to give at least a 2-month written notice of a rent increase; increases cannot exceed the city's rent stabilization allowance, currently 2.6% until June 30, 2022

#### Tampa, Florida

City council directed staff to "search for solutions" to slow city's rising rents

#### Santa Ana, California

Caps rent increases at 3% for apartments built before 1995

#### St. Paul, Minnesota

• Rent Stabilization and Rent Control Ordinances beginning May 1st—limit rent increases to no more than 3% in a 12-month period, regardless of change of occupancy



### Macroeconomic Summary & Outlook

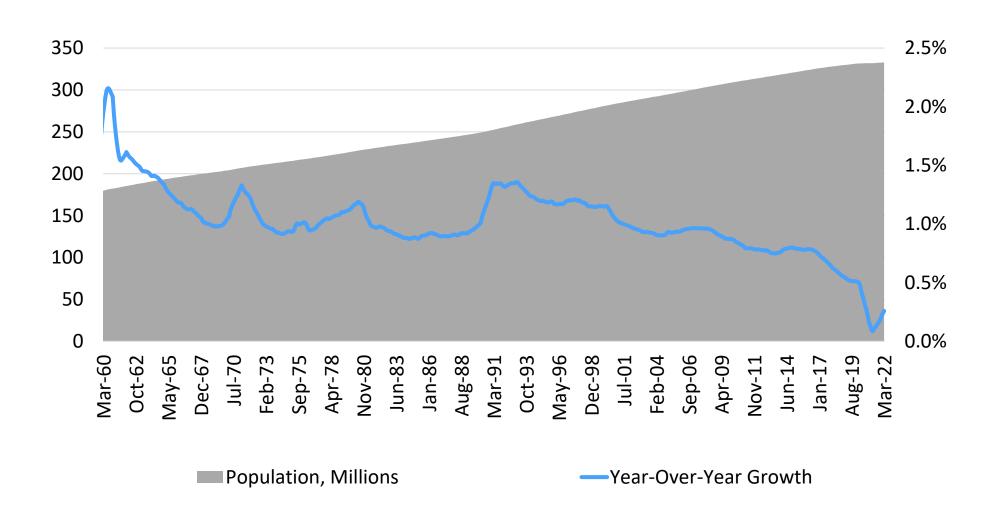
- GDP and labor force participation are coming back slowly
- Bottlenecks are still occurring
- Demand remains strong; disruption is on the supply side
- Supply chain disruptions, a tighter-than-ever labor market and other factors leading to growing inflation, and it's not transitory (as we expected)
- People are moving back to cities and urban centers
- Residential asset type returns are still far above pre-pandemic trends
- Disruptions are creating massive pressures; the Fed has caught on and is beginning a tightening cycle
- The Fed's actions to slow inflation will take a year or two to cool things down
- Fed increasing interest rates in 2022 will start the clock ticking to the next recession ... which we think is likely sometime in 2024



## MIGRATION AND DEMOGRAPHIC TRENDS IMPACTING HOUSING DEMAND

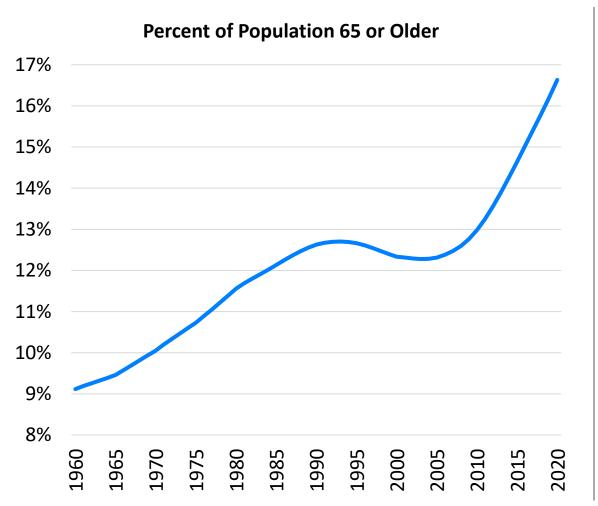


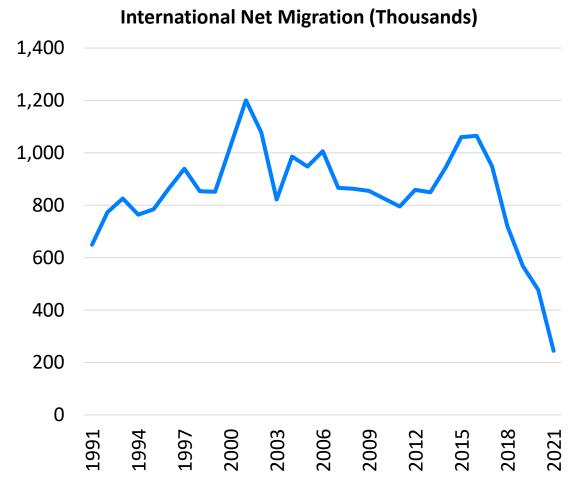
## Overall U.S. Population Growth is Declining as Birth Rates Fall and International Immigration Fails to Back-Fill





## The U.S. Population is Aging and International Immigration is Falling; Further Impacting the Labor Shortage

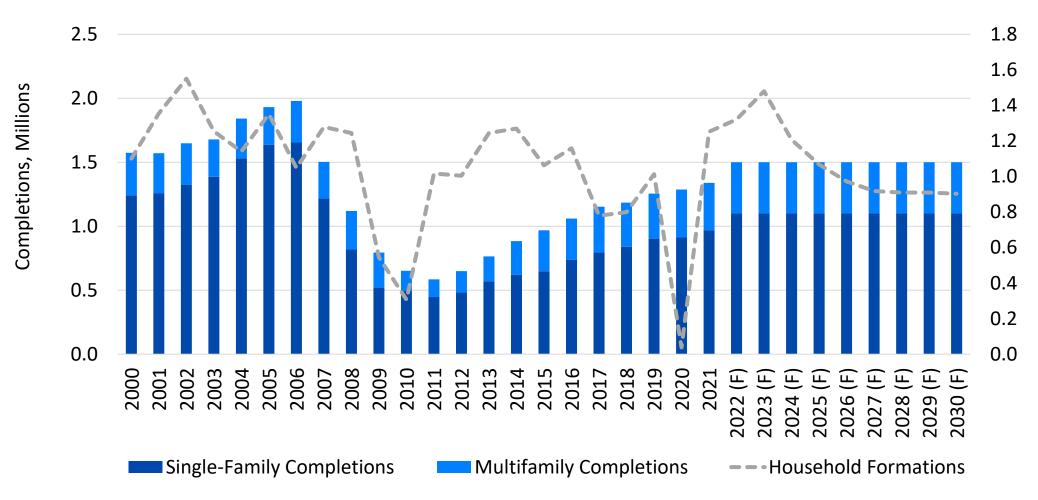






## Cumulative Deficit of Single-Family and Multifamily Housing Coming Out of the Great Recession is Pushing Prices Up

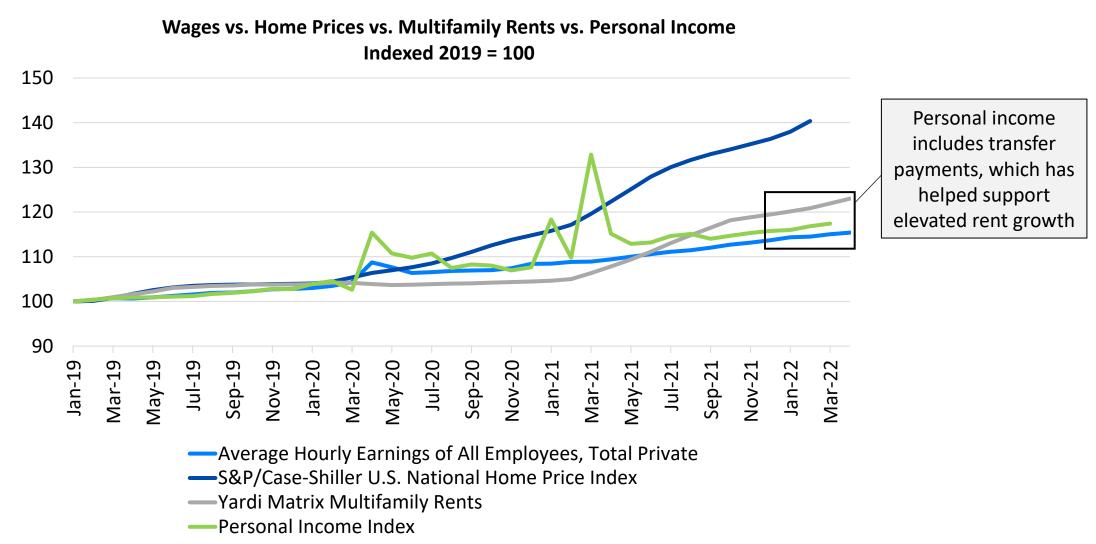
#### **Household Formations and Completions**





Formations, Millions

## Housing Supply/Demand Imbalances Keeping Rental Prices High in Multifamily and Single-Family; Wages and Income Not Keeping Up





#### Work From Anywhere Continues to Fuel Migration

- The work from home revolution has fundamentally changed where home base is for employees: work
  is not somewhere you go, but something you do
- Industries such as technology, insurance and marketing are better equipped to handle remote work
- Prior to the pandemic, about 10% of the U.S. labor force worked remotely full-time
  - As much as **25%** of the labor force is projected to work remotely full-time by the end of 2022
  - o Remote opportunities are expected to steadily increase through 2023
- Employees are taking the opportunity to move out of dense, costly metros to lower cost alternatives
  - The metro areas with the greatest gains in new residents are in the Sun Belt
- There has been an absolute decline in the aggregate size of the nation's major metros (those with a population exceeding 1 million)
  - The shift to remote work has given smaller cities and communities the opportunity to compete with coastal hubs for residents
  - Cities that have appealing lifestyle elements but have historically lacked access to great professional jobs have started to see in-migration



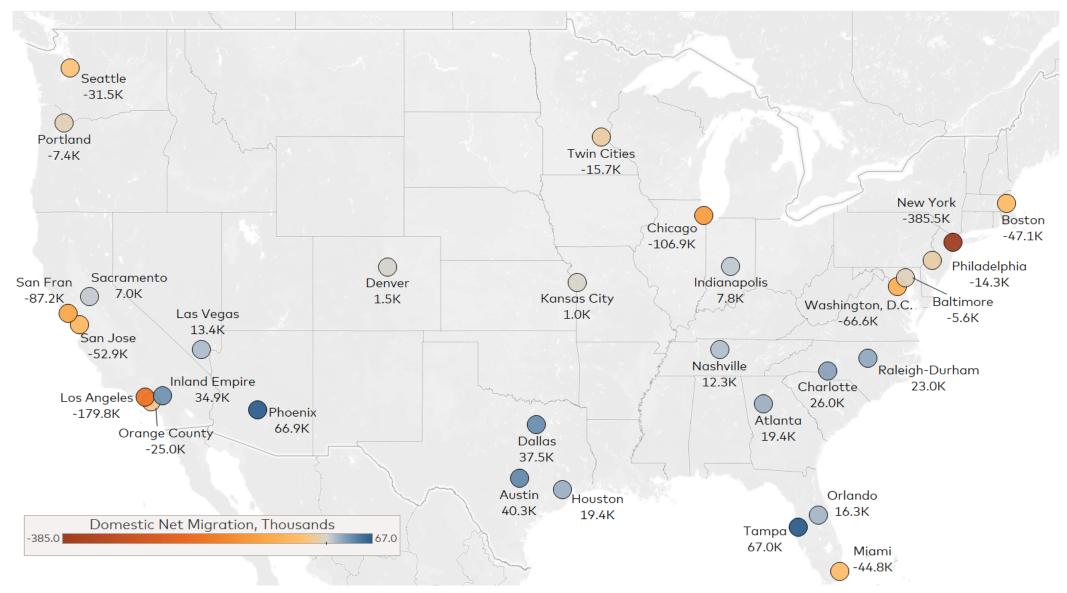
#### Migration Fueling Nationwide Rent Growth: San Francisco Model

San Francisco losing 2% of its population doesn't have a huge impact on the SF rental market, however that same 2% has a significant impact on the smaller markets where those out-migrants are moving to

Market	2021 Population	0.4% of San Francisco 2021 Population	23K as a % of Each Market's Population
Las Vegas	2,292,476	23,000	1.0%
Austin	2,352,426	23,000	1.0%
Salt Lake City	2,818,981	23,000	0.8%
Phoenix	4,946,145	23,000	0.5%
Dallas	7,833,306	23,000	0.3%
San Francisco (Total)	5,697,074	115,000	2.0%

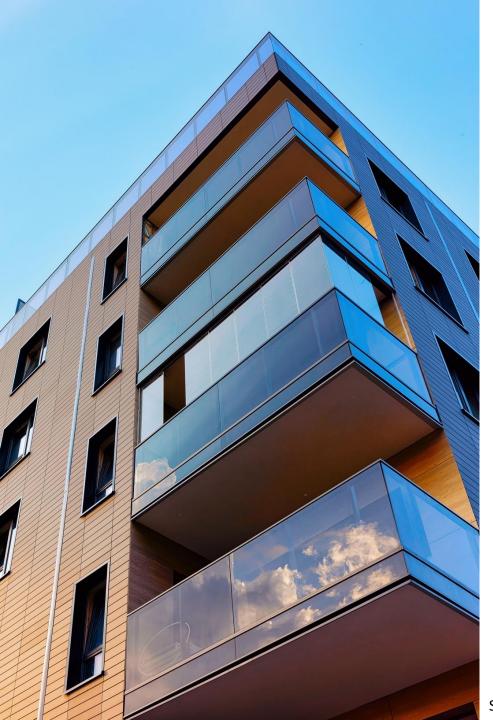


#### Migration Still Heavy Last Year in Southeast and Southwest





Source: Yardi Matrix; U.S. Census Bureau, "Annual Resident Population Estimates and Estimated Components of Resident Population Change: Net domestic migration in period 7/1/2020 to 6/30/2021"



#### Introduction to our Investment Risk Analysis

These demographic trends impact markets in different ways, and should be considered when making investment decisions

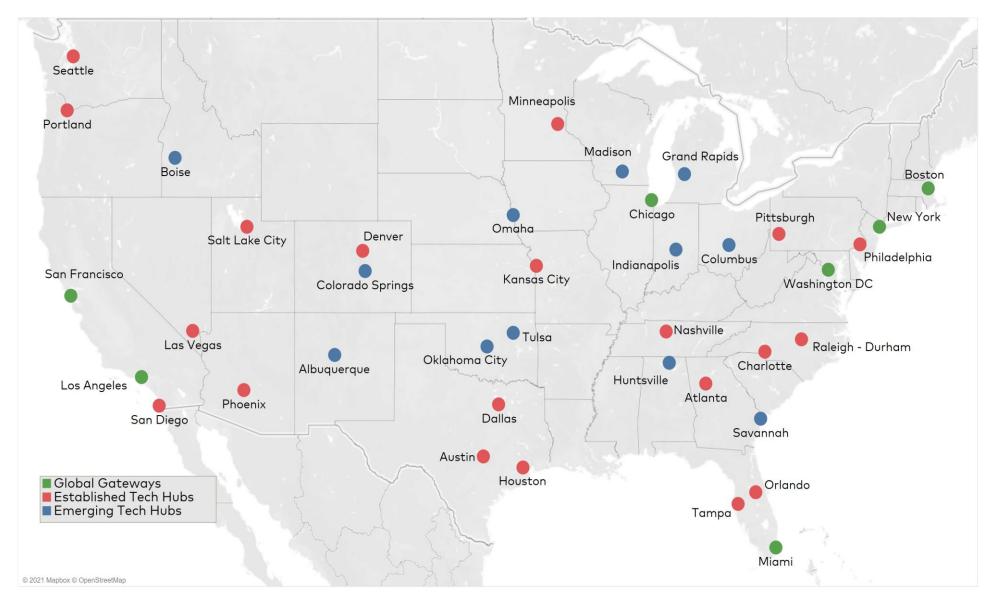
The Investment Risk Analysis combines our previously released national analyses of political risk, infrastructure and environmental risk

Interactive workbook available for subscribers



Source: Yardi Matrix

### Our Market Universe for Investment Strategy Analysis





Weighting		25%		25%			25%		25%		100%			
	FUI	NDAMENT	ALS		INFRAST	RUCTURE		PC	DLITICAL R	ISK	ENVIRONMENTAL RISK			
MARKET	Historical Supply/Demand	Quality of Tech Labor Market	Affordability	Water	Energy	Transportation	Schook	Philosophy Toward Affordability	Urban Policing/ Security	Tax Burden/ Pension Liability	Natural Disasters	Pollution (Air & Water)	State & Local Government	OVERALL RATING
Los Angeles	1	2	1	1	1	3	1	0.5	2	2	1	2	2	1.50
San Francisco	1	3	1	1	1	1	2	0.5	1	1	1	3	3	1.52
Houston	1	1	2	1	1	3	2	3	1	3	1	1	1	1.60
Tulsa	1	1	3	2	2	1	1	3	1	2	2	1	1	1.63
Chicago	1	1	2	3	3	1	1	2	1	1	3	2	2	1.75
Dallas	1	2	2	2	1	2	3	2	2	2	2	1	1	1.75
Miami	1	1	1	1	1	3	3	3	1	2	1	3	2	1.75
Washington D.C.	1	3	1	3	2	2	1	0.5	3	2	1	1	3	1.79
San Diego	2	2	1	2	1	2	1	1	3	1	1	3	3	1.79
Las Vegas	1	1	2	2	3	2	2	2	1	2	3	1	2	1.81
New York	1	3	1	3	1	2	1	1	2	2	1	3	3	1.85
Nashville	1	2	2	3	3	2	2	2	2	2	2	1	1	1.88
Albuquerque	2	1	3	1	3	1	1	3	1	2	3	1	2	1.88
Atlanta	3	2	2	2	3	3	1	2	1	1	2	1	2	1.90
Savannah	1	2	3	2	2	2	2	3	2	2	1	2	1	1.92
Seattle	1	3	1	3	2	2	1	1	1	3	2	2	3	1.92
Portland	1	3	1	2	2	3	2	0.5	1	3	3	2	2	1.94
Orlando	2	2	2	1	1	3	1	2	2	3	2	3	1	1.96
Colorado Springs	3	3	2	1	3	1	2	2	1	1	2	3	2	2.02
Huntsville	2	3	3	3	2	1	1	3	1	1	2	2	2	2.02
Boston	1	3	1	3	3	2	2	1	3	2	1	2	3	2.04
Philadelphia	3	3	2	1	1	1	2	2	3	1	2	2	3	2.06
Kansas City	2	1	3	2	1	3	3	3	1	2	3	1	2	2.06
Denver	1	3	1	2	2	1	3	2	3	2	2	2	3	2.08
Omaha	3	1	3	2	3	1	2	3	2	2	3	1	1	2.08
Pittsburgh	2	2	3	1	2	2	2	3	3	1	2	2	2	2.10
Columbus	2	1	3	3	2	1	1	3	2	2	3	1	3	2.10
Phoenix	2	2	2	1	3	3	3	2	2	1	3	2	2	2.13
Austin	1	3	2	2	2	3	3	3	2	2	1	3	1	2.13
Tampa	3	2	2	3	1	2	2	2	3	3	1	3	1	2.17
Charlotte	1	2	3	3	3	3	3	3	1	3	2	1	1	2.17
Oklahoma City	3	1	3	3	1	2	3	3	1	3	2	2	2	2.23
Minneapolis	1	2	2	3	3	3	3	2	1	2	3	2	3	2.25
Grand Rapids	1	3	3	2	1	1	3	3	2	2	3	3	2	2.27
Raleigh-Durham	1	3	2	3	3	2	2	3	3	3	2	2	2	2.38
Indianapolis	3	1	3	3	3	2	3	3	2	3	2	2	2	2.44
Salt Lake City	2	3	2	2	2	3	3	3	3	3	3	1	2	2.46
Boise	3	3	2	3	3	3	3	3	3	3	3	2	2	2.75
Madison	3	2	3	3	3	1	3	3	3	3	3	3	3	2.79

Investment Risk

Base Case Scenario:
Ranked by Score

#### LEGEND

Red = High Investment Risk

Yellow = Mild Investment Risk

Green = Low Investment Risk



Source: Yardi Matrix

Weighting		40%		40%			10%			10%			100%	
	FUI	NDAMENT	ALS		INFRAST	RUCTURE		PC	DLITICAL R	ISK	ENVIR	ONMENT	AL RISK	
MARKET	Historical Supply/Demand	Quality of Tech Labor Market	Affordability	Water	Energy	Transportation	Schook	Philosophy Toward Affordability	Urban Policing/ Security	Tax Burden/ Pension Liability	Natural Disasters	Pollution (Air & Water)	State & Local Government	OVERALL RATING
Los Angeles	1	2	1	1	1	3	1	0.5	2	2	1	2	2	1.45
San Francisco	1	3	1	1	1	1	2	0.5	1	1	1	3	3	1.48
Houston	1	1	2	1	1	3	2	3	1	3	1	1	1	1.57
Tulsa	1	1	3	2	2	1	1	3	1	2	2	1	1	1.60
Miami	1	1	1	1	1	3	3	3	1	2	1	3	2	1.60
San Diego	2	2	1	2	1	2	1	1	3	1	1	3	3	1.67
Chicago	1	1	2	3	3	1	1	2	1	1	3	2	2	1.70
New York	1	3	1	3	1	2	1	1	2	2	1	3	3	1.77
Dallas	1	2	2	2	1	2	3	2	2	2	2	1	1	1.80
Las Vegas	1	1	2	2	3	2	2	2	1	2	3	1	2	1.80
Albuquerque	2	1	3	1	3	1	1	3	1	2	3	1	2	1.80
Washington D.C.	1	3	1	3	2	2	1	0.5	3	2	1	1	3	1.82
Orlando	2	2	2	1	1	3	1	2	2	3	2	3	1	1.83
Seattle	1	3	1	3	2	2	1	1	1	3	2	2	3	1.87
Denver	1	3	1	2	2	1	3	2	3	2	2	2	3	1.93
Portland	1	3	1	2	2	3	2	0.5	1	3	3	2	2	1.95
Savannah	1	2	3	2	2	2	2	3	2	2	1	2	1	1.97
Columbus	2	1	3	3	2	1	1	3	2	2	3	1	3	1.97
Nashville	1	2	2	3	3	2	2	2	2	2	2	1	1	2.00
Philadelphia	3	3	2	1	1	1	2	2	3	1	2	2	3	2.00
Boston	1	3	1	3	3	2	2	1	3	2	1	2	3	2.07
Pittsburgh	2	2	3	1	2	2	2	3	3	1	2	2	2	2.07
Kansas City	2	1	3	2	1	3	3	3	1	2	3	1	2	2.10
Atlanta	3	2	2	2	3	3	1	2	1	1	2	1	2	2.13
Colorado Springs	3	3	2	1	3	1	2	2	1	1	2	3	2	2.13
Huntsville	2	3	3	3	2	1	1	3	1	1	2	2	2	2.13
Omaha	3	1	3	2	3	1	2	3	2	2	3	1	1	2.13
Grand Rapids	1	3	3	2	1	1	3	3	2	2	3	3	2	2.13
Tampa	3	2	2	3	1	2	2	2	3	3	1	3	1	2.17
Austin	1	3	2	2	2	3	3	3	2	2	1	3	1	2.20
Phoenix	2	2	2	1	3	3	3	2	2	1	3	2	2	2.20
Oklahoma City	3	1	3	3	1	2	3	3	1	3	2	2	2	2.27
Minneapolis	1	2	2	3	3	3	3	2	1	2	3	2	3	2.30
Raleigh-Durham	1	3	2	3	3	2	2	3	3	3	2	2	2	2.30
Charlotte	1	2	3	3	3	3	3	3	1	3	2	1	1	2.37
Salt Lake City	2	3	2	2	2	3	3	3	3	3	3	1	2	2.43
Indianapolis	3	1	3	3	3	2	3	3	2	3	2	2	2	2.50
Madison	3	2	3	3	3	1	3	3	3	3	3	3	3	2.67
Boise	3	3	2	3	3	3	3	3	3	3	3	2	2	2.80

# Investment Risk **Alternative Scenario:**Ranked by Score

#### **LEGEND**

Red = High Investment Risk

Yellow = Mild Investment Risk

Green = Low Investment Risk



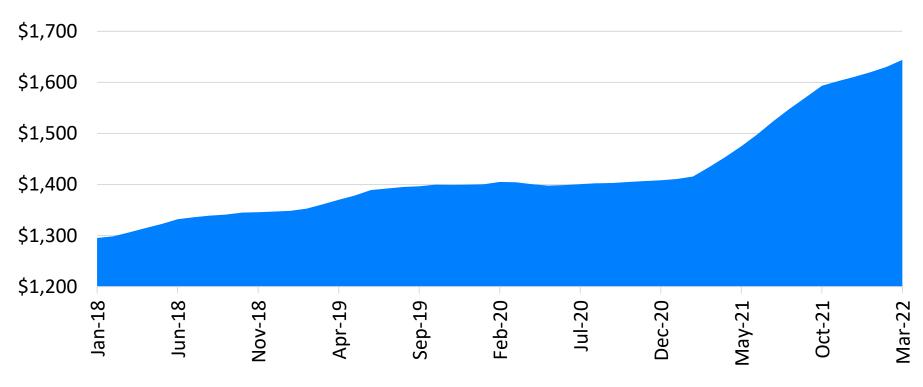
Source: Yardi Matrix

### MULTIFAMILY FUNDAMENTALS



### National Multifamily Rents Have Surged, But Growth is Moderating

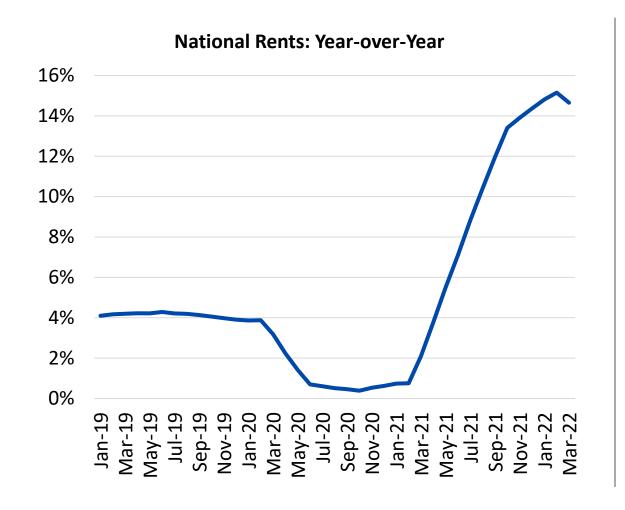
#### **National Average Rents**

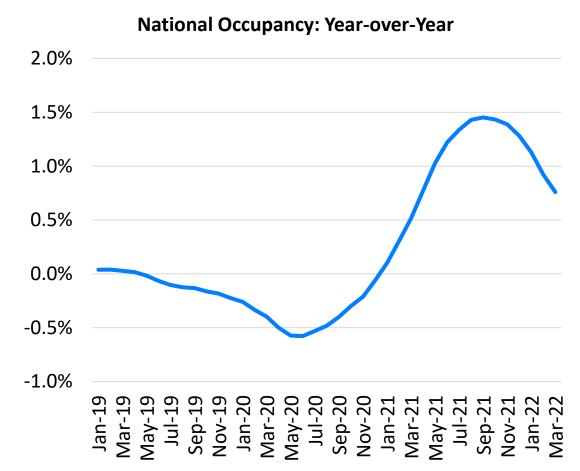


	% Change	\$ Change
Year-over-Year: Mar '21 – Mar '22	14.7%	\$210.10
Month-over-Month: Feb '22 – Mar '22	0.9%	\$13.89
Pre-pandemic to Current: Mar '20 – Mar '22	17.1%	\$239.60



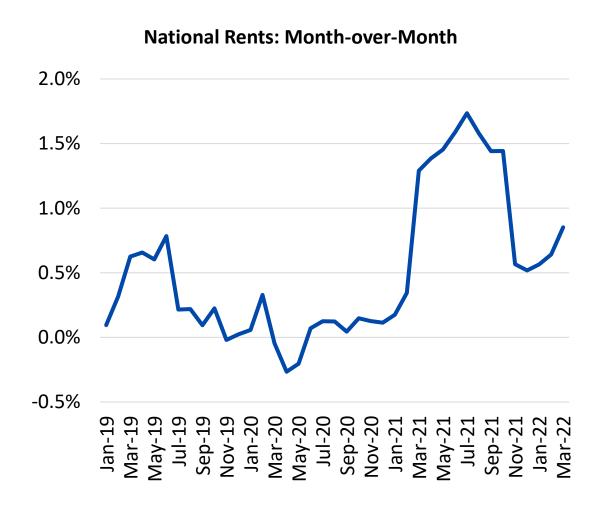
## On a Year-over-Year Basis, Rents and Occupancy Slowing Only Slightly Over the Last Couple of Months

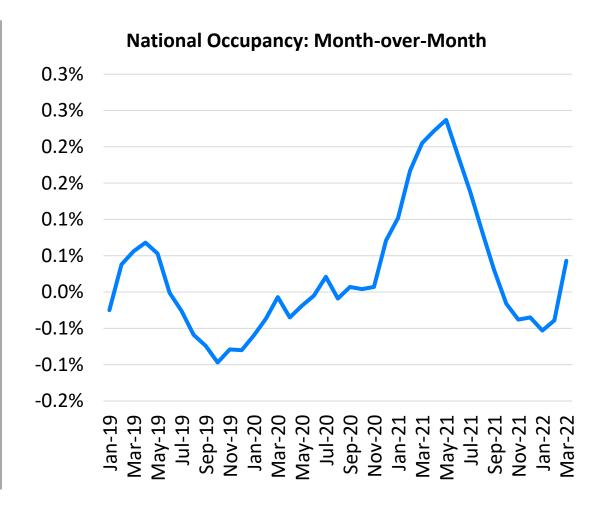






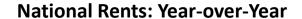
## Sequential Rents and Occupancy Have Been Trending Upwards Since the Start of 2022

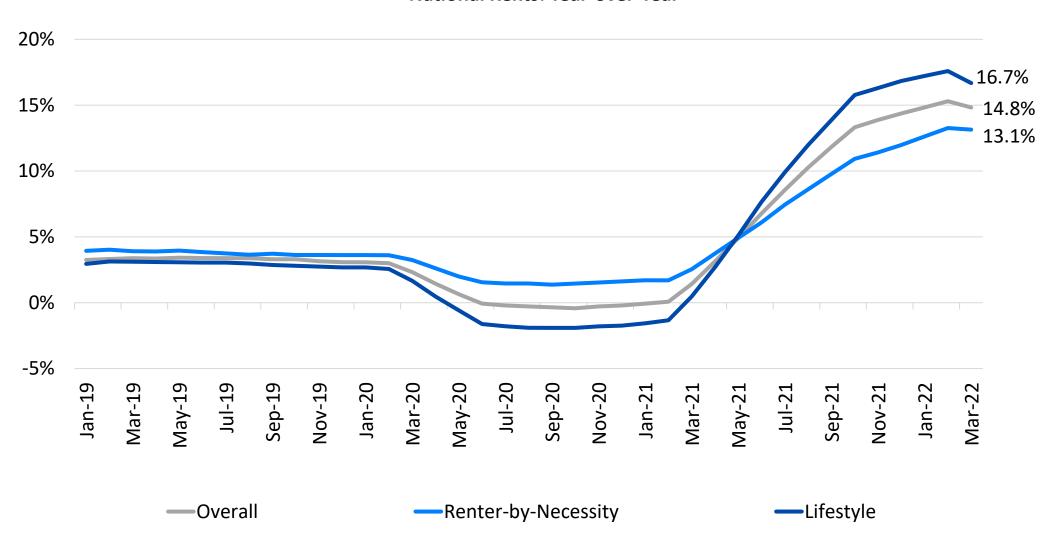






#### Rents Are up Across the Board, Particularly for Lifestyle Units

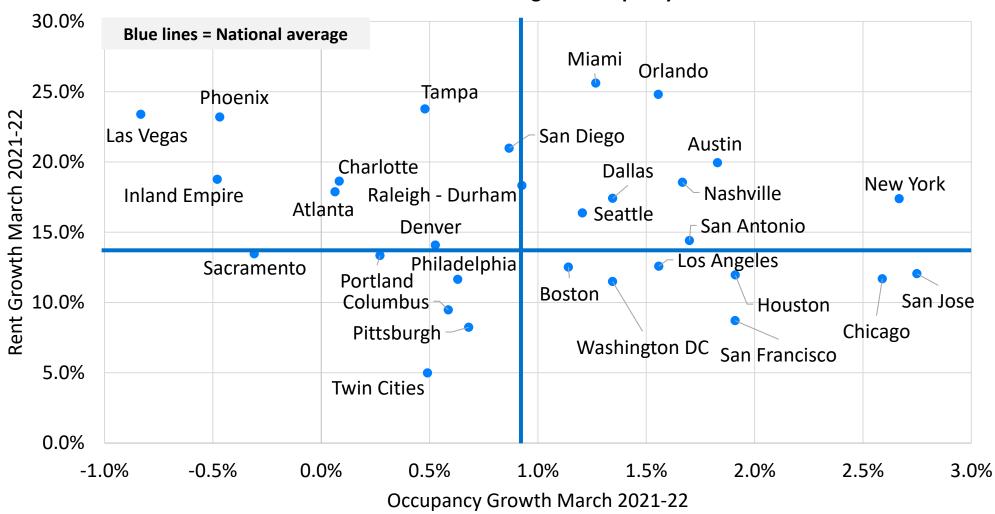






## Rent & Occupancy Growth Highest in Emerging Tech Hub Markets, with New York Bouncing Back

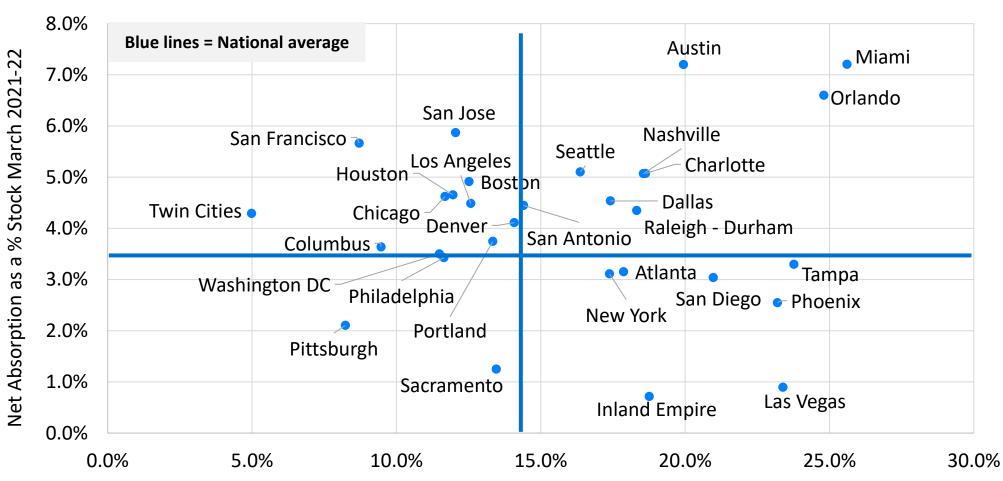
#### **Rent Growth vs Change in Occupancy**





## Absorption and Rent Growth Have Been Strongest in Tech Hub Markets, Primarily in the Sunbelt

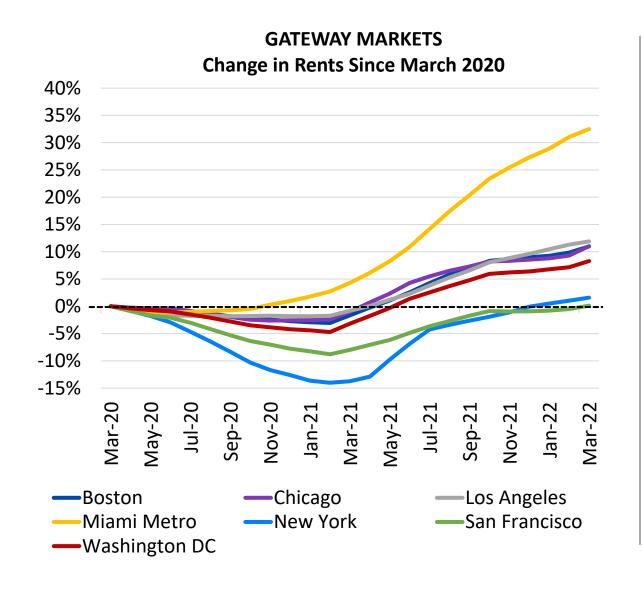
#### **Rent Growth vs Net Absorption as a % Stock**

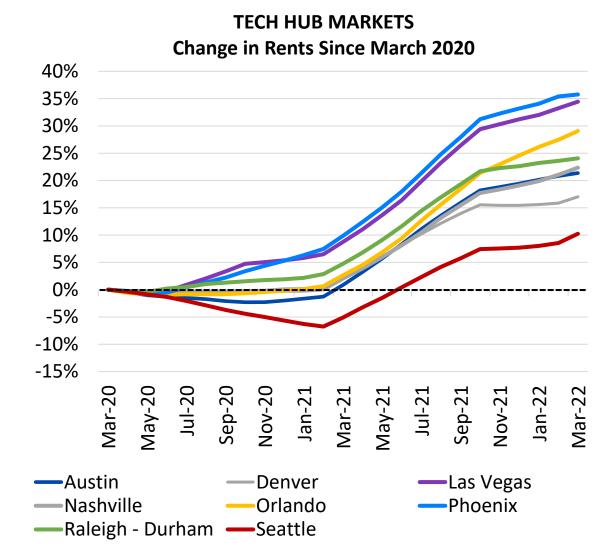






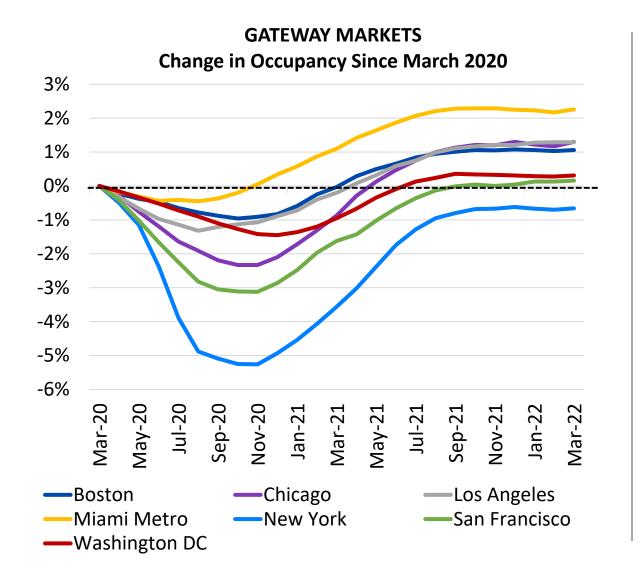
#### Rent Growth Recovered Quicker in Tech Hub than Gateway Markets

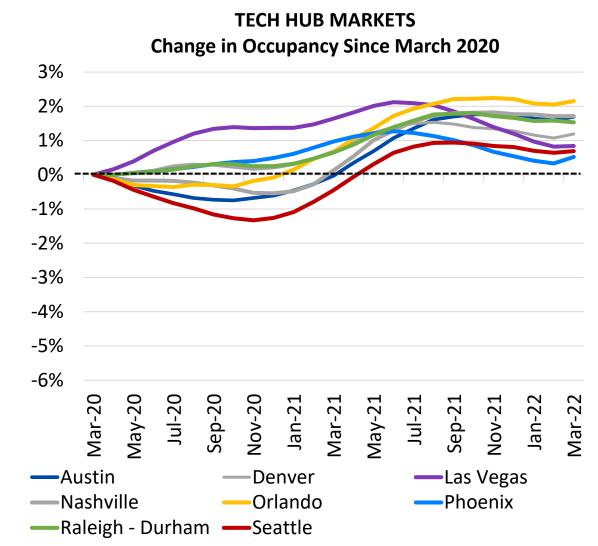






#### Occupancy in Tech Hub Markets Also Outperforming Gateway Markets







### There is a Huge Spread Between New and Renewal Rents in Most Markets

#### Tampa, FL Example

Rental Rates		Current Month	Annual Average
12-month period ending April 2022 Unit Type	In-Place	Renewal	New Leases
Studio	\$1,291	\$1,251	\$1,545
Year Change (%)	+ 11.9%	+ 8.0%	+ 29.8%
1 Bed / 1 Bath	\$1,232	\$1,239	\$1,485
Year Change (%)	+ 11.0%	+ 11.5%	+ 27.5%
2 Bed / 1 Bath	\$1,220	\$1,251	\$1,434
Year Change (%)	+ 9.4%	+ 11.2%	+ 23.1%
2 Bed / 2 Bath	\$1,518	\$1,527	\$1,828
Year Change (%)	+ 11.1%	+ 11.2%	+ 28.3%
3 Bed / 2 Bath	\$1,675	\$1,677	\$2,005
Year Change (%)	+ 11.0%	+ 10.3%	+ 26.2%
Total Average	\$1,399	\$1,409	\$1,677
Year Change (%)	+ 10.7%	+ 11.1%	+ 26.8%

#### **Rental Rate Trends**





#### Increased Price Difference Leading to Less Turnover and More Renewals

#### Tampa, FL Example

Current Month | Annual Average

#### Operational Metrics

12-month period ending April 2022

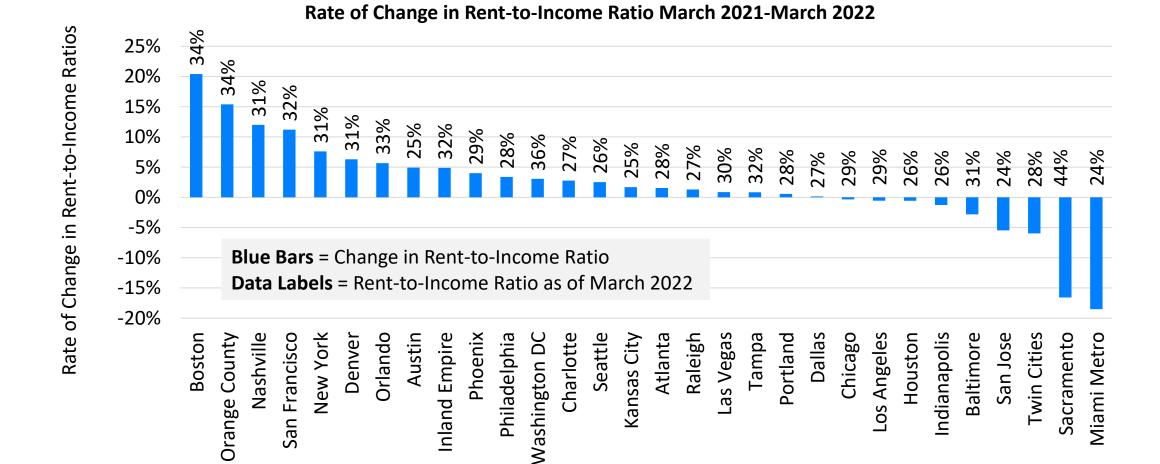
			Avg Lea	se Term	Resident Length
Unit Type	Renewal (%)	Turnover (%)	New (mo.)	Renewal (mo.)	of Stay (mo.)
Studio	66.6 %	46.8 %	12.4	12.0	19.2
Year Change (%)	+ 18.8%	- 15.0%	+ 0.4%	- 0.5%	- 2.1%
1 Bed / 1 Bath	67.2 %	42.0 %	12.1	11.9	22.2
Year Change (%)	+ 4.8%	- 11.6%	- 0.5%	+ 1.1%	+ 5.9%
2 Bed / 1 Bath	69.5 %	37.2 %	12.0	11.9	25.0
Year Change (%)	+ 3.3%	- 8.7%	- 0.4%	+ 1.5%	- 0.2%
2 Bed / 2 Bath	69.0 %	39.6 %	12.2	11.9	22.1
Year Change (%)	+ 7.4%	- 12.2%	- 0.9%	+ 1.8%	+ 1.7%
3 Bed / 2 Bath	67.5 %	40.8 %	12.0	12.0	21.6
Year Change (%)	+ 5.5%	- 11.4%	- 0.5%	+ 2.2%	+ 0.8%
Total Average	68.1 %	40.8 %	12.1	11.9	22.3
Year Change (%)	+ 6.1%	- 11.9%	- 0.6%	+ 1.5%	+ 3.1%

#### Operational Metric Trends



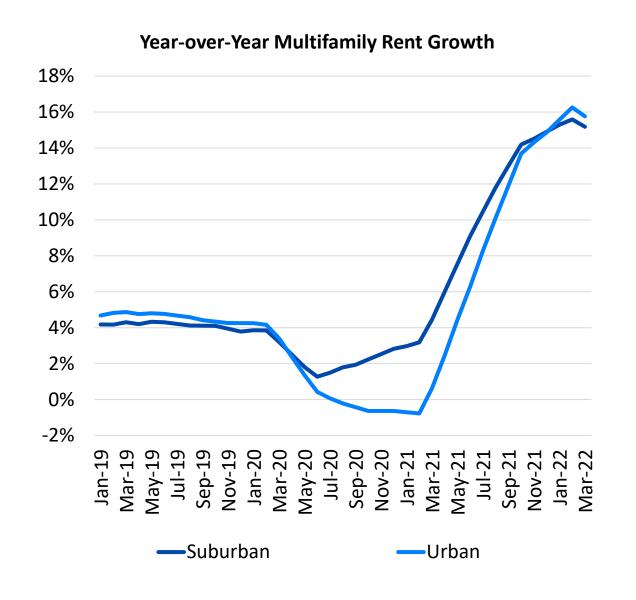


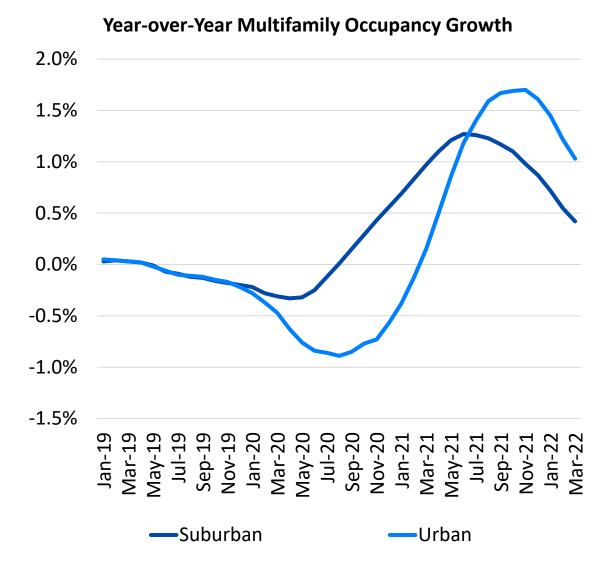
### Changes in Rent-to-Income Ratios Indicate Ability to Absorb Moderate Increases in Rents





#### Urban Multifamily Has Completely Recovered



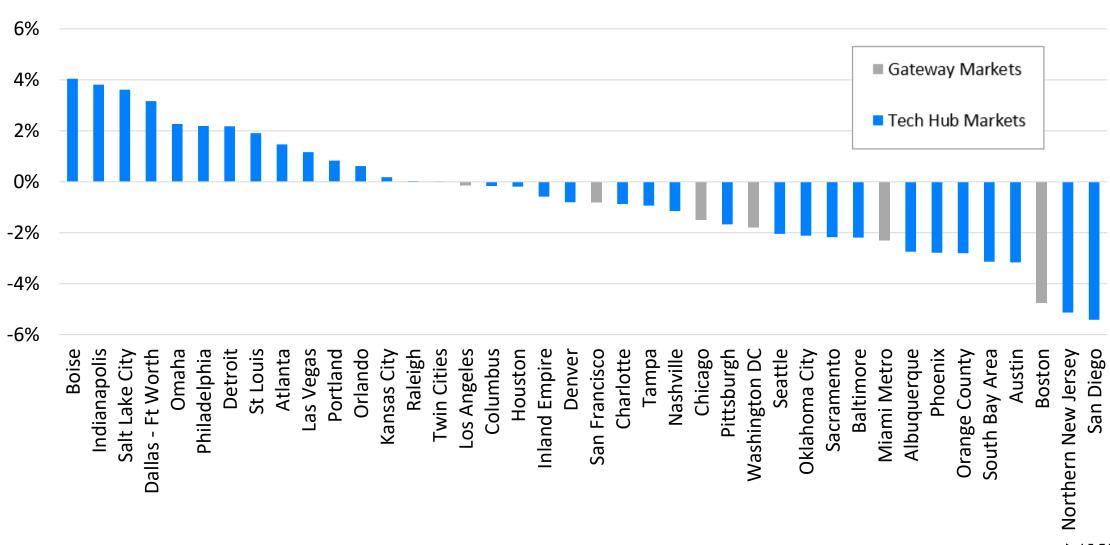




Source: Yardi Matrix

#### Movement Back to Urban Cores

#### Difference Between Suburban and Urban Rent Growth March 2021-2022



### Tertiary Markets Performing Exceptionally Well, Likely Fueled by Growing Ability to Work from Anywhere

Market	Mar 2021 Rent	Mar 2022 Rent	YOY Rent Growth
Southwest Florida Coast	\$1,443	\$2,009	39.2%
Jacksonville	\$1,216	\$1,494	22.8%
Savannah - Hilton Head	\$1,238	\$1,517	22.6%
Tucson	\$1,025	\$1,233	20.2%
Pensacola	\$1,272	\$1,513	19.0%
Spokane	\$1,120	\$1,320	17.8%
Central Valley	\$1,279	\$1,490	16.5%
Huntsville	\$966	\$1,112	15.1%
El Paso	\$837	\$955	14.0%
Grand Rapids	\$1,066	\$1,213	13.8%
Richmond - Tidewater	\$1,232	\$1,400	13.7%
Tulsa	\$792	\$899	13.5%
Colorado Springs	\$1,315	\$1,493	13.5%
Tacoma	\$1,495	\$1,690	13.0%
Reno	\$1,403	\$1,582	12.8%

Market	Mar 2021 Rent	Mar 2022 Rent	YOY Rent Growth
Cincinnati	\$1,059	\$1,188	12.2%
Central East Texas	\$1,045	\$1,167	11.8%
Birmingham	\$1,082	\$1,205	11.4%
Baton Rouge	\$1,029	\$1,145	11.2%
Dayton	\$889	\$988	11.2%
New Orleans	\$1,055	\$1,169	10.7%
Little Rock	\$812	\$897	10.5%
Milwaukee	\$1,191	\$1,315	10.4%
Lansing - Ann Arbor	\$1,078	\$1,190	10.3%
Bridgeport - New Haven	\$1,592	\$1,753	10.1%
Cleveland - Akron	\$994	\$1,083	9.0%
Louisville	\$990	\$1,074	8.6%
Madison	\$1,269	\$1,371	8.0%
Cincinnati	\$1,059	\$1,188	12.2%
Central East Texas	\$1,045	\$1,167	11.8%



Source: Yardi Matrix

### Takeaways from Our April 2022 Multifamily Rent and Occupancy Forecast

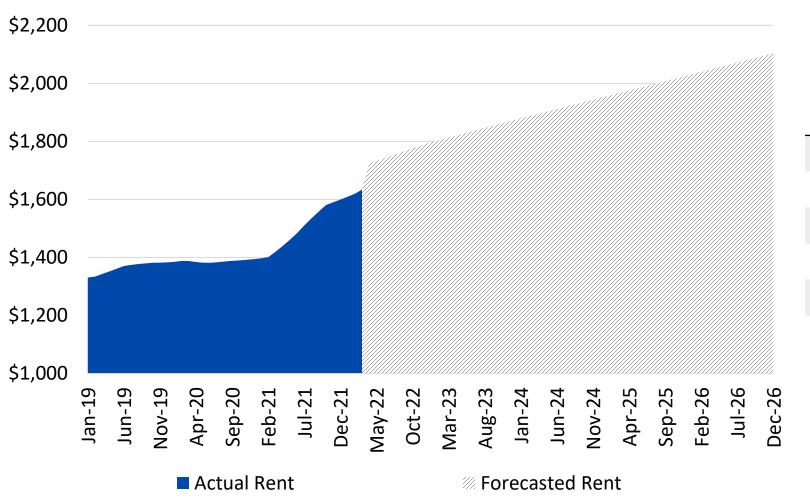
- Multifamily rent growth is beginning to decelerate, with year-overyear growth falling 0.4% to 14.7% in March
- It is difficult to tell at this point whether this deceleration is the beginning of a larger slowdown or just a temporary aberration in the historic growth seen over the past year
- Our forecast remains positive, although the Fed's reaction to the current economy and the war in Ukraine could have possible adverse effects that will cause turbulence and disrupt growth trajectories
- If the Fed manages to lower inflation without triggering a deep recession, then multifamily should remain in a good position.
   Demand will remain strong as rising mortgage rates limit the pool of prospective single-family buyers and supply will remain constrained as developers can't build fast enough to keep up with rising demand



Source: Yardi Matrix

### Rents Forecasted to Keep Increasing, Albeit at More Moderate Pace; Multifamily Growth Should Continue to Be Strong

#### **Historical & Forecasted National Rents**



Year	Rent Growth Forecast	Occupancy Forecast
2022	6.5%-9.0%	96.1%
2023	4.4%	96.1%
2024	4.1%	96.1%
2025	3.9%	96.1%
2026	3.8%	96.1%

Based on YTD '22, we expect to revise upward our forecasts in the next few weeks, most likely to ~+9%



## Tech Hub and Gateway Markets Alike Forecasted For Another Year of Strong Multifamily Rent Growth

Market	YoY Rent Growth Year-End 2022	Occupancy Year-End 2022	YoY Rent Growth Year-End 2023	Occupancy Year-End 2023	Market	YoY Rent Growth Year-End 2022	Occupancy Year-End 2022	YoY Rent Growth Year-End 2023	Occupancy Year-End 2023
Miami Metro	9.9%	96.8%	5.8%	96.4%	Phoenix	7.7%	95.9%	4.7%	95.7%
San Diego	9.4%	97.7%	4.1%	97.7%	Sacramento	7.7%	96.6%	5.1%	96.7%
Salt Lake City	9.2%	96.8%	4.9%	96.5%	Atlanta	7.6%	95.5%	4.4%	95.8%
Inland Empire	9.1%	97.8%	5.3%	97.6%	Portland	7.6%	96.2%	6.4%	95.3%
Orlando	9.1%	96.2%	5.4%	96.1%	Indianapolis	7.2%	95.6%	3.4%	95.5%
Las Vegas	8.5%	95.7%	5.0%	96.1%	Los Angeles	7.0%	97.0%	4.6%	97.5%
Austin	8.3%	95.6%	5.3%	95.4%	Nashville	7.0%	96.0%	4.4%	96.4%
Charlotte	8.1%	96.1%	5.7%	95.7%	Raleigh-Durham	7.0%	95.8%	5.5%	95.9%
Tampa	8.1%	96.8%	5.0%	97.0%	Columbus	6.8%	95.6%	4.2%	95.7%
Boise	8.0%	96.7%	5.8%	95.7%	Seattle	6.7%	96.5%	4.0%	96.7%
San Francisco	7.8%	96.7%	4.8%	96.5%	Detroit	6.6%	96.6%	4.5%	96.3%



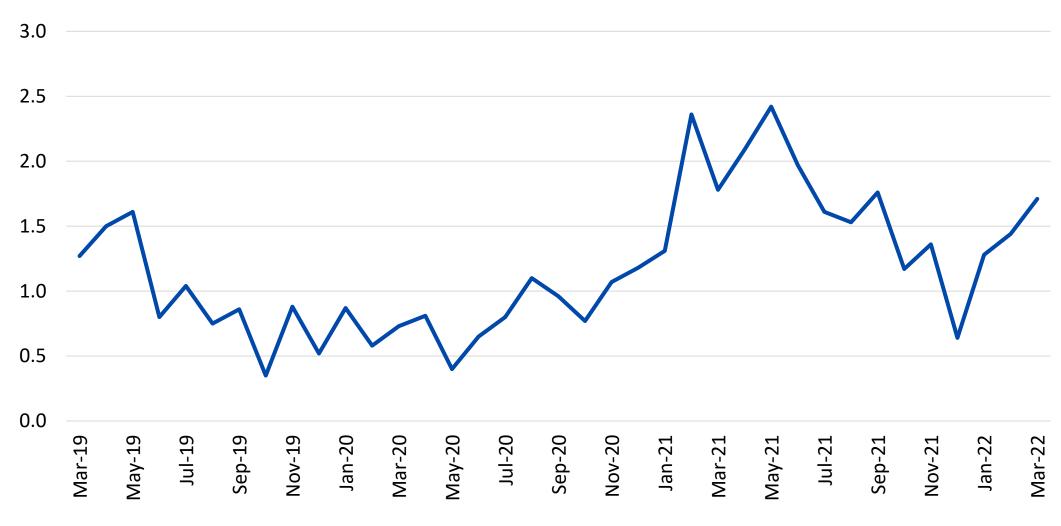
#### Weakest Markets Still Forecasted to Have 3%-Plus Rent Growth

Market	YoY Rent Growth Year-End 2022	Occupancy Year-End 2022	YoY Rent Growth Year-End 2023	Occupancy Year-End 2023	Market	YoY Rent Growth Year-End 2022	Occupancy Year-End 2022	YoY Rent Growth Year-End 2023	Occupancy Year-End 2023
South Bay Area	6.4%	95.8%	6.0%	96.3%	Albuquerque	5.3%	96.3%	5.8%	96.2%
Omaha	6.4%	96.6%	4.4%	96.7%	Philadelphia	5.3%	96.7%	3.8%	96.6%
Orange County	6.2%	97.1%	3.5%	97.2%	Chicago	5.1%	95.1%	3.9%	94.9%
Dallas - Ft Worth	5.9%	95.7%	4.4%	95.7%	N. New Jersey	5.1%	97.2%	4.9%	97.2%
New York	5.9%	97.8%	4.0%	98.4%	Pittsburgh	4.7%	95.6%	4.5%	95.7%
Denver	5.8%	95.6%	5.7%	95.8%	Oklahoma City	4.6%	94.5%	3.7%	94.7%
Houston	5.7%	93.6%	3.9%	93.5%	Washington DC	4.0%	95.8%	3.8%	96.1%
Kansas City	5.7%	95.5%	3.9%	95.7%	St Louis	3.9%	95.2%	2.9%	95.1%
Baltimore	5.4%	96.0%	4.1%	95.7%	Twin Cities	3.5%	96.4%	3.3%	97.0%
Boston	5.4%	96.5%	4.4%	97.2%					
Long Island	5.4%	96.8%	3.4%	96.3%					



### Multifamily Absorption Continued to Increase During First Quarter







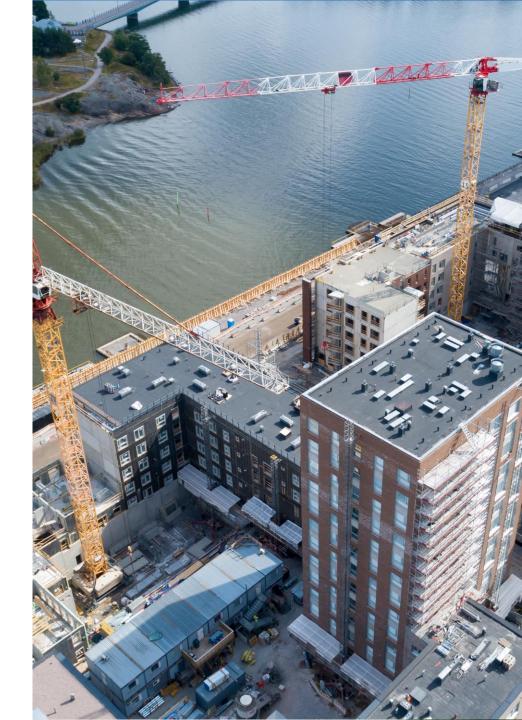
## Diverse Set of Markets Have the Highest Absorption-to-Completions Ratio

Market	Net Absorption Q1 2021		Net Absorption Q1 2022	Absorption to Completions Ratio Q1 2022	Change in Absorption to Completions Ratio Q1 2021 – Q1 2022	
Columbus	1,940	1.5	556	7.1	5.6	
Savannah - Hilton Head	817	2.8	1,030	6.3	3.5	
Las Vegas	584	0.6	762	3.5	3.0	
Philadelphia	2,833	3.8	1,794	6.2	2.5	
North Central Florida	733	0.9	868	2.8	1.9	
Salt Lake City	1,846	2.9	1,640	4.7	1.8	
Grand Rapids	-30	-0.1	341	1.3	1.4	
SW Florida Coast	1,866	1.6	1,713	2.7	1.0	
Nashville	1,081	0.7	1896	1.6	0.9	
Tampa	2,450	1.2	1,942	2.0	0.9	
Birmingham	229	0.7	315	1.5	0.8	
Raleigh	1,610	0.6	1,845	1.2	0.6	
St Louis	895	2.2	235	2.8	0.5	
Tulsa	170	2.3	201	2.8	0.5	
Austin	3,514	1.4	3,761	1.8	0.4	



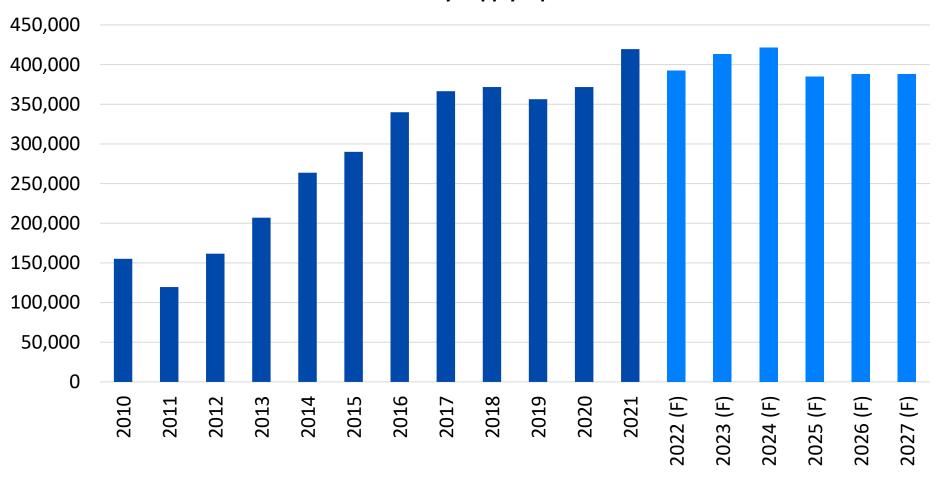
### Takeaways from Our Q2 2022 Multifamily Supply Forecast

- Multifamily development activity continues at an elevated level
- Lengthening completion times are tapering the pace of deliveries
- Despite longer construction timeframes, full year 2022 deliveries are forecast to total approx. 392,000 units, a 3.7% increase over the Q1 forecast
- Multifamily development remains elevated, with March 2022 completions above 500,000 for the first time
- Rent growth and economic expansion and a still-favorable financing environment suggest multi-family construction starts will remain robust, supporting completions through 2027 at or above 2.3% of inventory



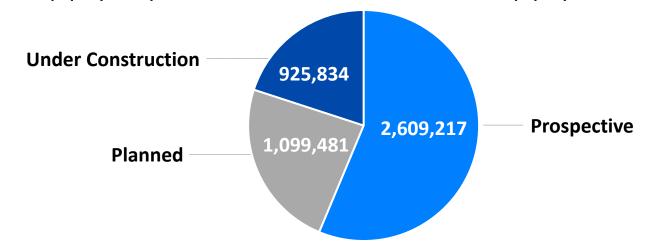
### New Multifamily Supply is Expected to Stabilize, But Will Remain Higher Than Pre-Pandemic Years







### New Supply Pipeline: Where is New Supply Concentrated?



Tau 40 Maulanta	1 to the	UC
Top 10 Markets	Units	as a % of Existing Stock
Huntsville	6,853	16.9%
Boise	4,015	15.2%
Austin	41,415	14.5%
Madison	7,530	13.8%
Miami	20,656	12.8%
Pensacola	4,734	12.6%
Nashville	18,878	12.3%
Salt Lake City	14,089	12.0%
Montana	1,854	11.8%
NW Arkansas	4,612	11.8%

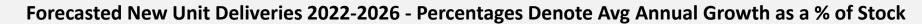
		Planned
Top 10 Markets	Units	as a % of
		<b>Existing Stock</b>
Fort Lauderdale	27,021	24.3%
Portland, ME	3,375	23.4%
Miami	34,871	23.2%
Chicago - Urban	40,870	21.3%
Colorado Springs	7,570	17.6%
Northern NJ	43,037	17.6%
Asheville	3,311	16.5%
LA Metro	31,368	15.8%
Boise	3,751	15.8%
White Plains	11,424	15.3%

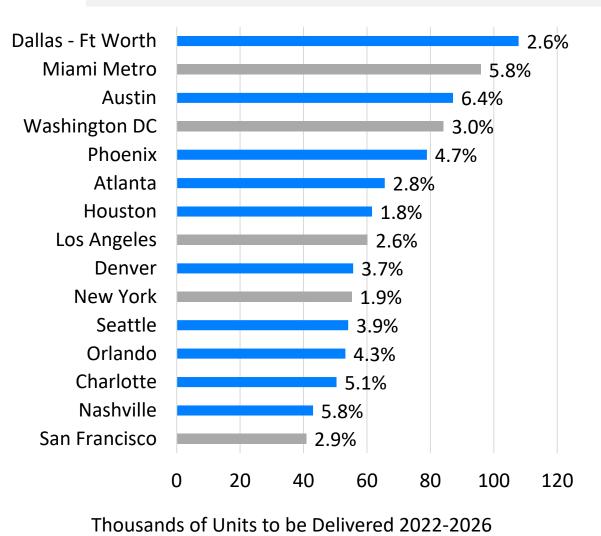
Top 10 Markets	Units	Prospective as a % of Existing Stock
Miami	104,834	69.9%
Boise	14,032	59.1%
Wilmington	11,697	50.2%
SW Florida Coast	36,110	44.3%
San Fran Peninsula	54,707	42.0%
Raleigh - Durham	63,759	37.2%
Pensacola	13,067	35.4%
Orlando	86,880	35.3%
Nashville	47,276	31.6%
South Bay Area	43,043	31.4%

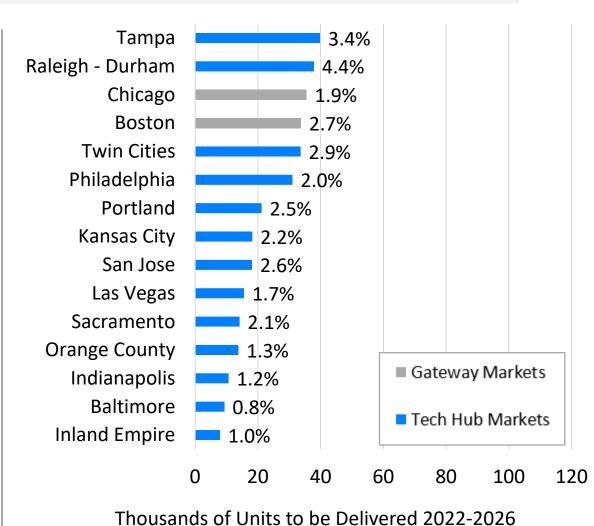


Source: Yardi Matrix

## The Few Markets with Multifamily Supply >5%/Yr Also Have Lot of Migration







# SINGLE-FAMILY RENTALS IN BUILD-TO-RENT COMMUNITIES



### National Housing Snapshot

Total U.S. Housing Units 142.5 **MILLION UNITS Total Occupied Households** 127.4 **MILLION UNITS** 44.0 Renter Occupied Households **MILLION UNITS** ~20M Professionally Managed Multifamily 17.0 **MILLION UNITS SFRs** ~500K Institutional Owned SFR ~135K SFR in Built-to-Rent Communities



## Over \$50 Billion of Capital Flooded the SFR Sector Since 2020 and There is Still Another \$30 Billion of Capital Waiting to be Invested, but Meeting Resistance

#### **SFR & BTR ANNOUNCEMENTS IN 2022:**

Date	Action	Companies	Value
Jan-22	SFR Partnership	Heitman, Sylvan Road	\$640,000,000
Jan-22	Joint Venture	Harrison Street, CORE Spaces	\$1,500,000,000
Jan-22	Add 3,500 New Homes	Transcendent Investment Management, Electra America	\$1,250,000,000
Jan-22	Choice Lease Program to Reduce Rents	Home Partners of America, Blackstone	\$1,000,000,000
Jan-22	Joint Venture	Pretium, Onyx East	\$600,000,000
Jan-22	Debt Facility	The Promise Homes Company	\$200,000,000
Feb-22	Launch Initial BFR Development in Venice	Coastal Ridge Real Estate, Halstatt Real Estate Partners	N/A
Feb-22	Expansion of 1,000+ BTR Units Across TX	Wan Bridge, Land Tejas	N/A
Feb-22	SFR Partnership	Advenir Oakley Capital, Oakley Group	N/A
Mar-22	Joint Venture	InvitationHomes, Rockpoint Group	\$300,000,000
Mar-22	Joint Venture	Magnolia Capital, Principal Real Estate Investors	N/A
Apr-22	Investment	Monroe Capital, Second Avenue Group	\$250,000,000
Apr-22	Investment	BLG, Second Avenue Group	\$150,000,000
Apr-200	Investment	Waterton, Second Avenue Group	\$500,000,000



## Single-Family Rentals in Build-to-Rent Communities Are now a Part of the Yardi Matrix Data Service!

#### **Yardi Matrix Single-Family Rental Coverage Map**

Status	Properties	Units
Completed	720	94,997
Under Construction	172	24,793
Planned	76	12,937
Prospective	74	14,721
TOTALS	1,042	147,448

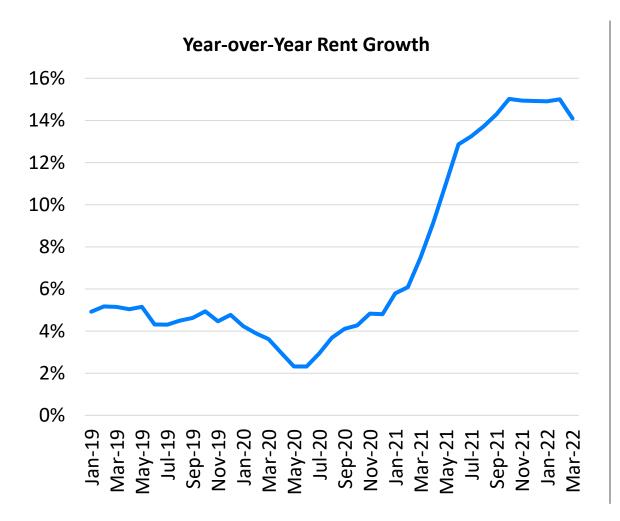




\*Yardi Matrix coverage include single-family rentals and built-to-rent over 50 units. Complete explanation of our definition is available upon request

Source: Yardi Matrix

## Single-Family Rental Fundamentals Are Strong

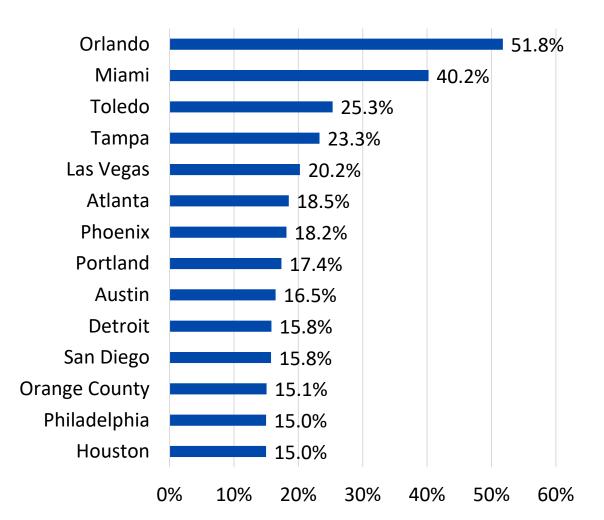




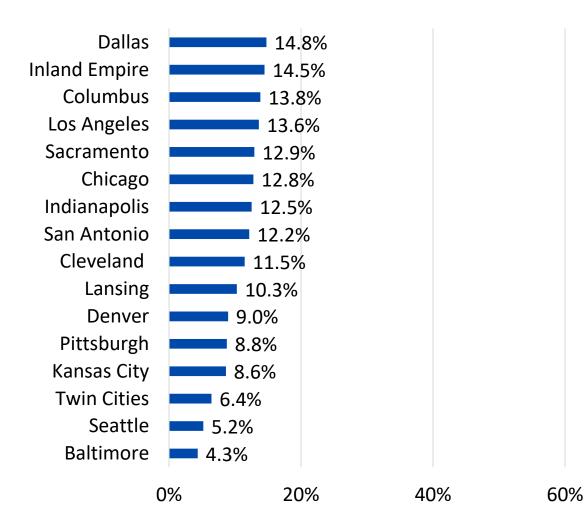


## Single-Family Rent Growth is Solid in All Major Markets

#### March Year-over-Year Rent Growth



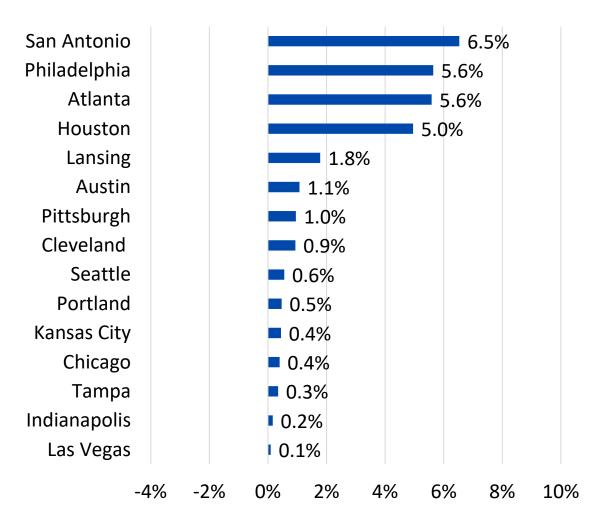
#### March Year-over-Year Rent Growth



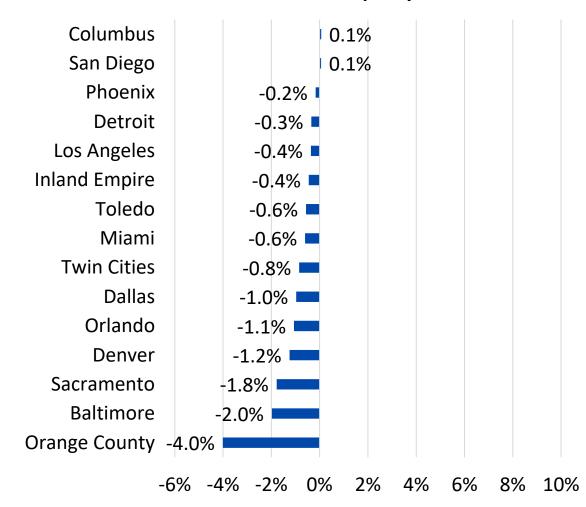


## However; There is More Disparity in Occupancy

#### March Year-over-Year Occupancy Growth



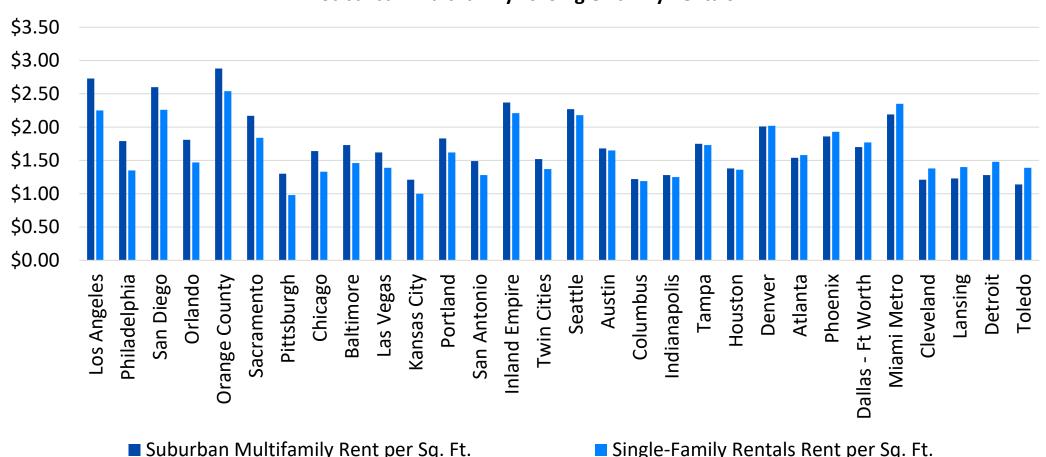
#### March Year-over-Year Occupancy Growth





## Rents per Sq. Ft. Are Higher for Suburban Multifamily Rentals Than Single-Family Rentals in Most Markets

March 2022 Rent per Sq. Ft. Suburban Multifamily vs. Single-Family Rentals





## New Single-Family Rental Supply Pipeline: Where is New Supply Concentrated?

Status	<b>Properties</b>	Units
Under Construction	172	24,793
Planned	76	12,937
Prospective	74	14,721
TOTAL NEW SUPPLY	322	52,451
Completed	720	94,997
<b>NEW SUPPLY AS A % OF EXISTING STOCK</b>	44.7%	55.2%

Top 10 Markets	Units	UC as a % of Existing Stock
Chattanasa	252	
Chattanooga	252	393.8%
Raleigh - Durham	673	382.4%
SW Florida Coast	720	313.0%
Colorado Springs	168	233.3%
Charlotte	1,182	191.9%
Atlanta - Suburban	848	176.7%
Winston-Salem	190	158.3%
Pensacola	610	145.6%
Tampa	989	127.6%
Huntsville	222	124.7%

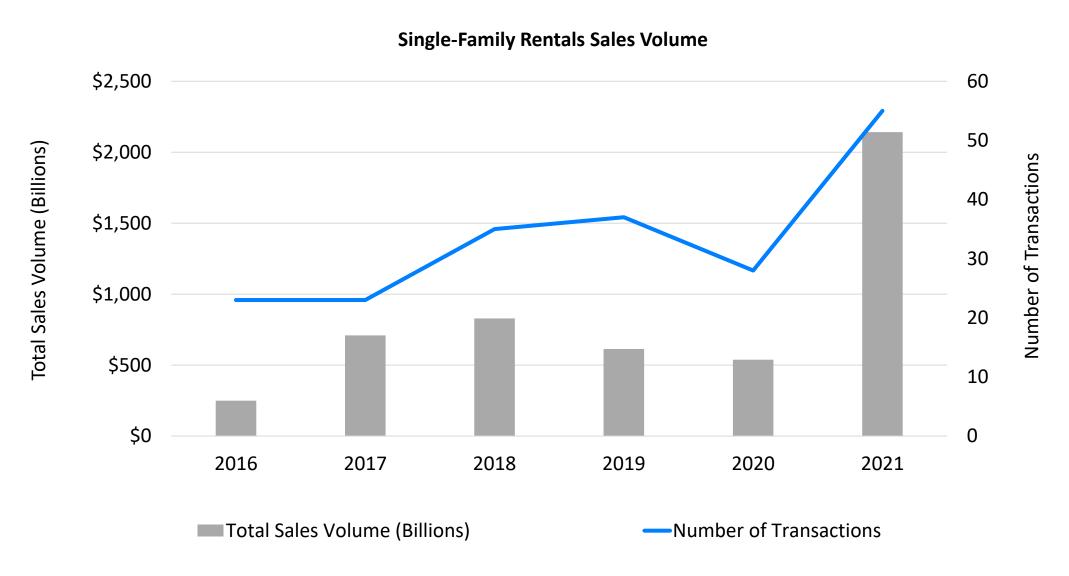
		Planned
Top 10 Markets	Units	as a % of
		<b>Existing Stock</b>
Orlando	965	288.1%
SW Florida Coast	424	184.3%
Birmingham	359	144.8%
Raleigh - Durham	254	144.3%
Huntsville	236	132.6%
New Orleans	396	119.3%
Richmond	320	89.6%
Atlanta - Suburban	390	81.3%
Albany	260	74.9%
Charlotte	434	70.5%

Top 10 Markets	Units	Prospective as a % of Existing Stock
Bay Area - East Bay	752	1,212.9%
Raleigh - Durham	1,379	783.5%
SW Florida Coast	612	266.1%
Bay Area - South Bay	114	228.0%
Omaha	108	216.0%
Charlotte	1078	175.0%
Boise	252	115.1%
Athens	311	109.5%
San Antonio	974	95.5%
Atlanta - Suburban	451	94.0%



Source: Yardi Matrix

## Like Multifamily, Single-Family Rental Sales Volume Surged Last Year





### Yardi Matrix House View – May 2022

#### **MACROECONOMIC UPDATE**

- The recovery out of the pandemic has been rapid (V-shaped)
- There has been a lot of disruption as a result in labor, goods and money supply
- Inflation is soaring, and the Fed has been too slow to react, so now they are playing catch up
- The economy is at an inflection point as a result

#### **MULTIFAMILY INDUSTRY**

- Inflation, geopolitics and the changing nature of work have all impacted housing demand
- There are two enduring themes we continue to see: growth in e-commerce and work-from-anywhere
- Multifamily fundamentals are great, but the capital markets are going crazy since they are quicker to respond to disruptions
- The amplified changes in demographics will continue to benefit the multifamily industry, but less so

#### **OUTLOOK**

- We expect the economy and multifamily industry to continue their stellar growth, just at a more moderate pace
- It'll be a bumpy ride for the next couple years until the next recession hits, which we are expecting in 2024-2025
- Amid all the noise, the key to success will still be thoughtful market selection





## THANK YOU

Feel free to contact me with any questions

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