# COMMERCIAL REAL ESTATE UPDATE: IMPLICATIONS FOR MORTGAGE MARKETS

#### FHFA – FEBRUARY 23, 2021

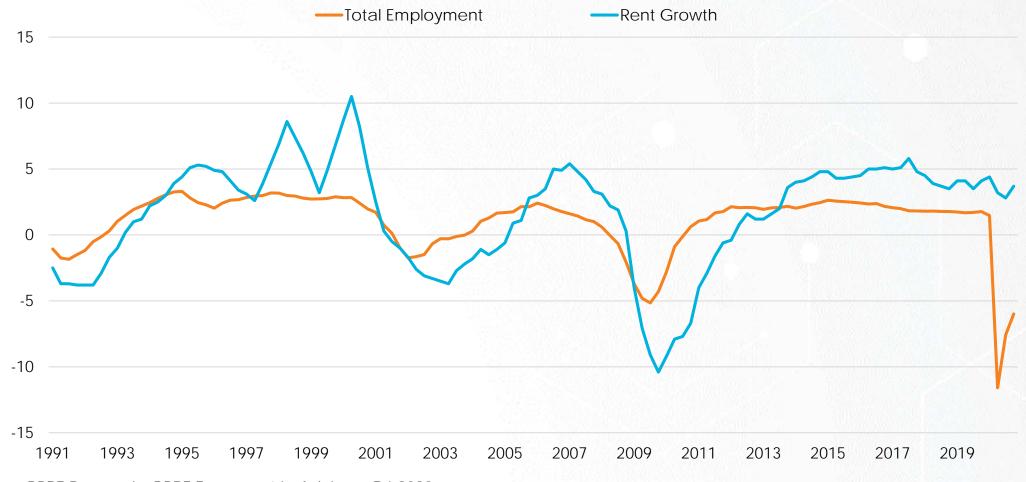


Dr. Richard Barkham Global Chief Economist & Head of Americas Research CBRE Research



#### **INDUSTRIAL CONTINUES TO FLY**

U.S. Industrial Rent vs. Warehouse Employment Growth

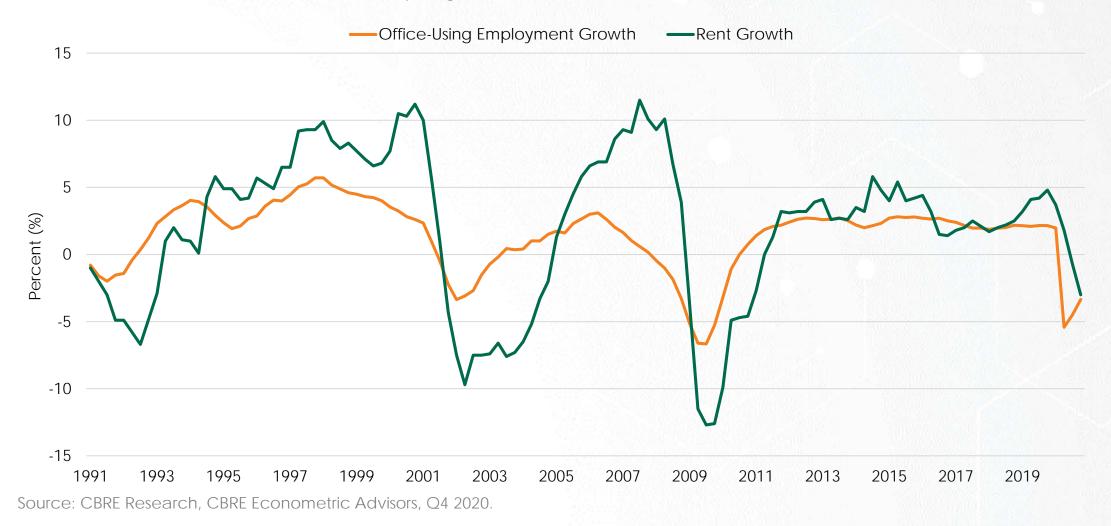


Source: CBRE Research, CBRE Econometric Advisors, Q4 2020.



#### **OFFICE FACES CYCLICAL AND SECULAR HEADWINDS**

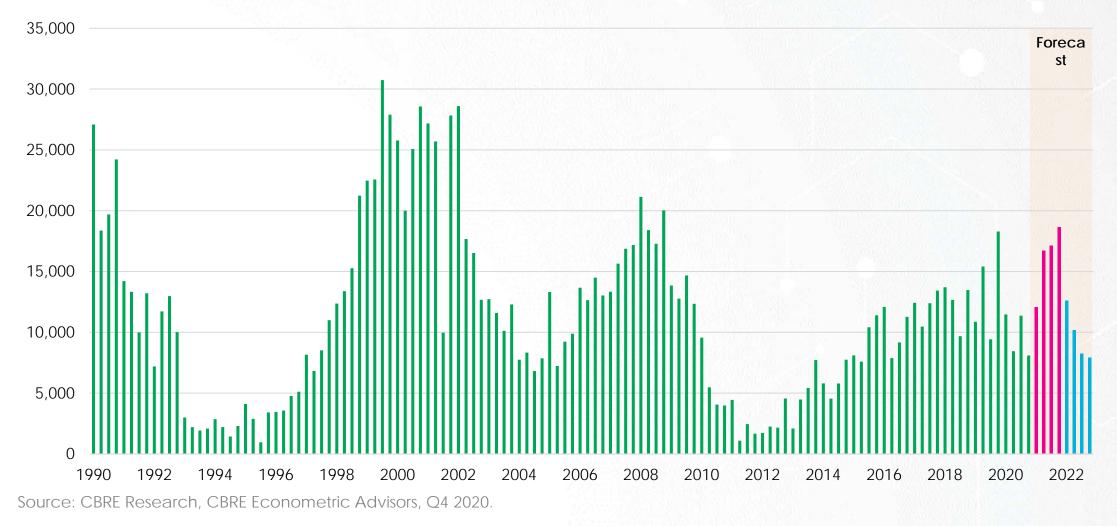
U.S. Office Rent vs. Office Employment Growth





#### **OFFICE – CYCLICAL PEAK IN COMPLETIONS**

U.S. Office Completions (Thousands of SF)





### **OFFICE – SECULAR SHIFT IN WORK PATTERNS**

32% Fall in Days in the Office, 9% Drop in Demand for Space

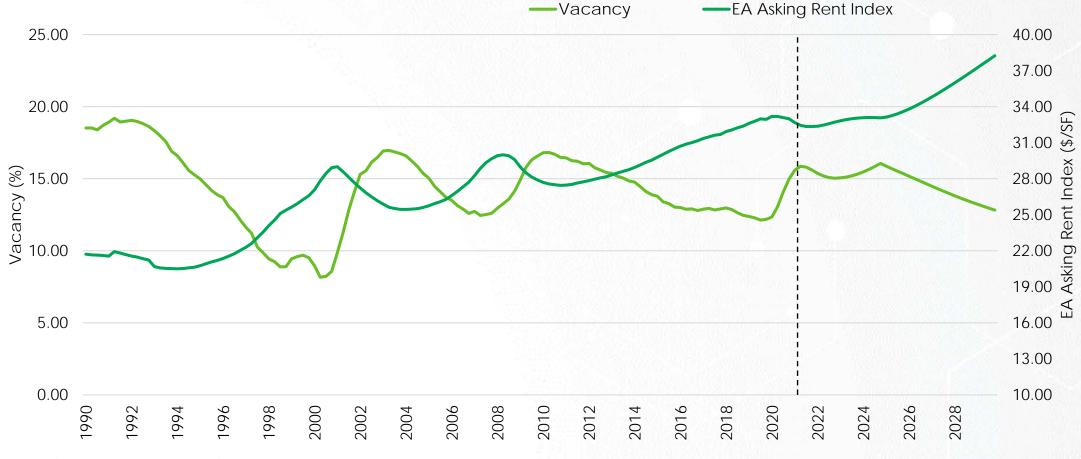
#### Example: Firm with 10,000 SF lease

#1 Average Days Per Week In the Office	
2019	4.29
Future	3.25
Impact (= 3.25/4.29)	0.76
Footprint	7,600 SF
2 Efficiency Factor	0.55
Net Effect of changing working patterns = $(1.00) - [(1.00 - 0.76) * (0.55)]$	0.87
Footprint	8,700 SF
#3 De-Densification Effect	0.05
Overall Net Impact = (0.87) * (1.05)	0.91
Overall Net Impact: Footprint	9,100 SF
	0,1000

**CBRE** Source: CBRE Econometric Advisors, February 2021.

#### **RENTS STAGNANT FOR 3 TO 4 YEARS – VACANCY ELEVATED**

U.S. Office Baseline Forecast for Vacancy Rate and Rents



Source: CBRE Econometric Advisors, Q4 2020.



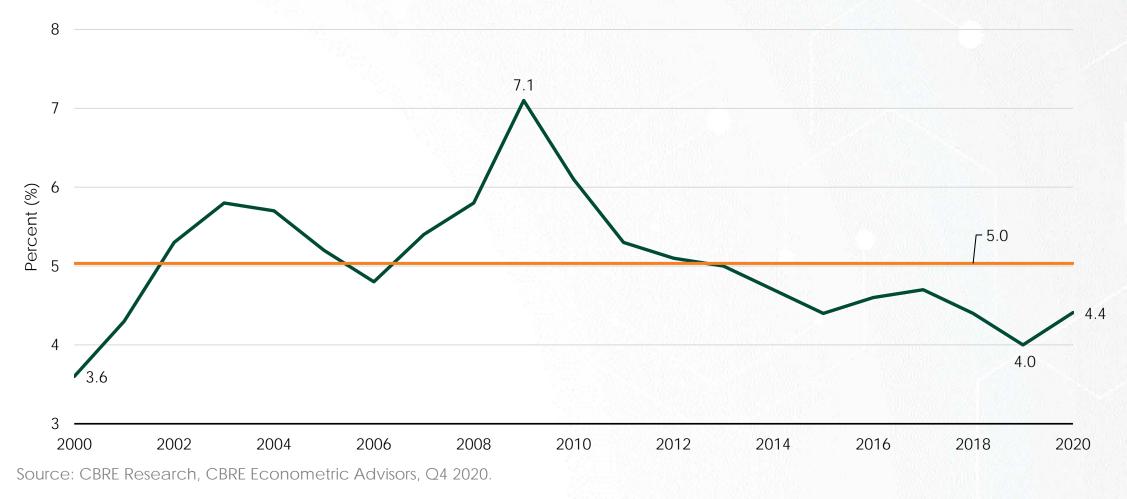
#### APARTMENT – CYCLICAL HEADWIND, SECULAR TAILWIND

U.S. Apartment Rent vs. Total Employment Growth



#### **APARTMENT VACANCY HAS REMAINED RELATIVELY LOW**

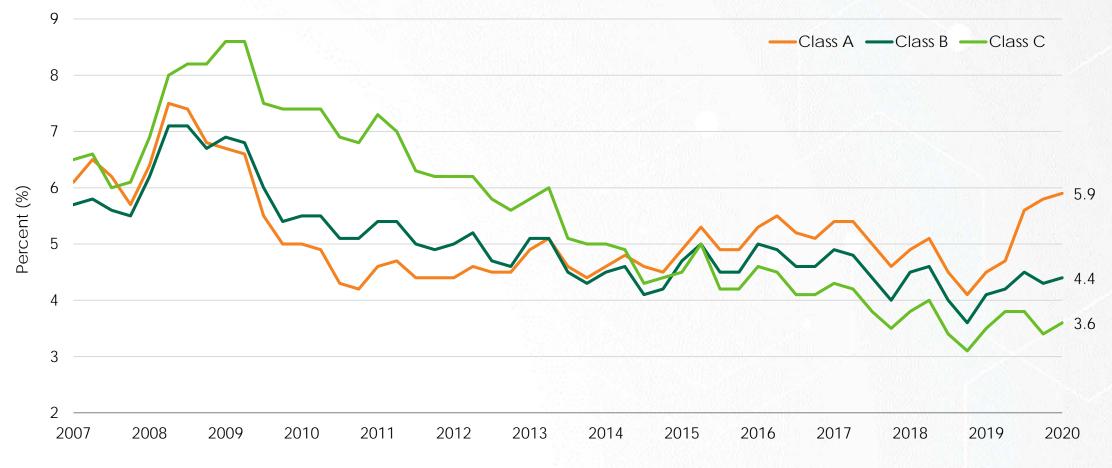
U.S. Apartment Historical Vacancy - Annual Averages





#### CLASS A VACANCY HAS RISEN BUT NOT BY MUCH

U.S. Apartment Historical Vacancy by Class



Source: CBRE Research, CBRE Econometric Advisors, Q4 2020.



#### **HIGH-RISE MOST AFFECTED**

U.S. Apartment Vacancy by Community Type: High-Rise vs. Garden



Source: CBRE Research, CBRE Econometric Advisors, Q4 2020. Mid-rise is a separate category not included in these statistics. Garden = 1-2 stories, mid-rise = 3-5 stories, high-rise = 6+.

#### **BIG CITY CORES THE WEAKEST**

U.S. Apartment Urban Core vs. Suburban Submarkets - Vacancy

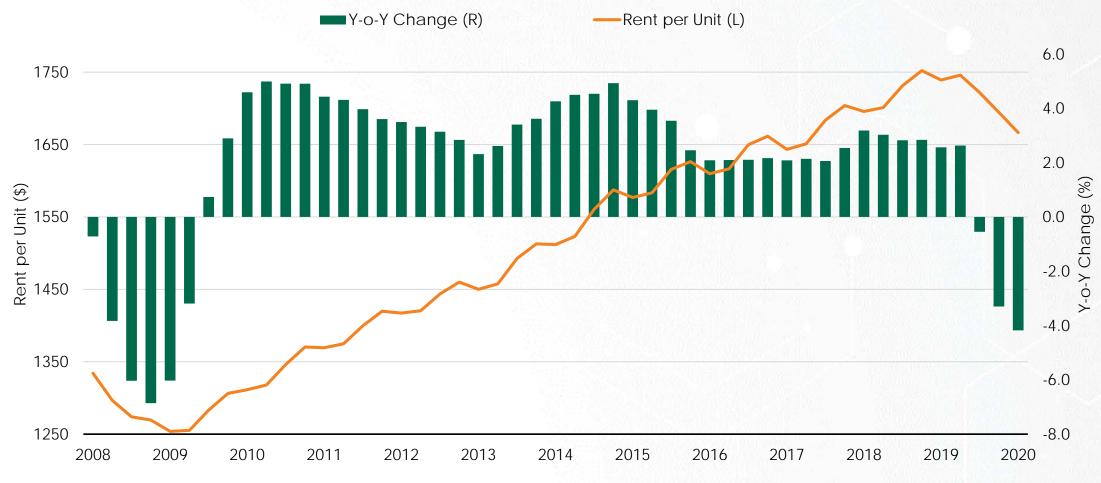


Source: CBRE Research, CBRE Econometric Advisors, Q4 2020.



#### **RENT – HISTORICAL EFFECTIVE RENTS & RENT CHANGE**

U.S. Apartment Historical Rent Average and Rent Growth



Source: CBRE Research, CBRE Econometric Advisors, Q4 2020.

#### METRO LEADERS AND LAGGARDS

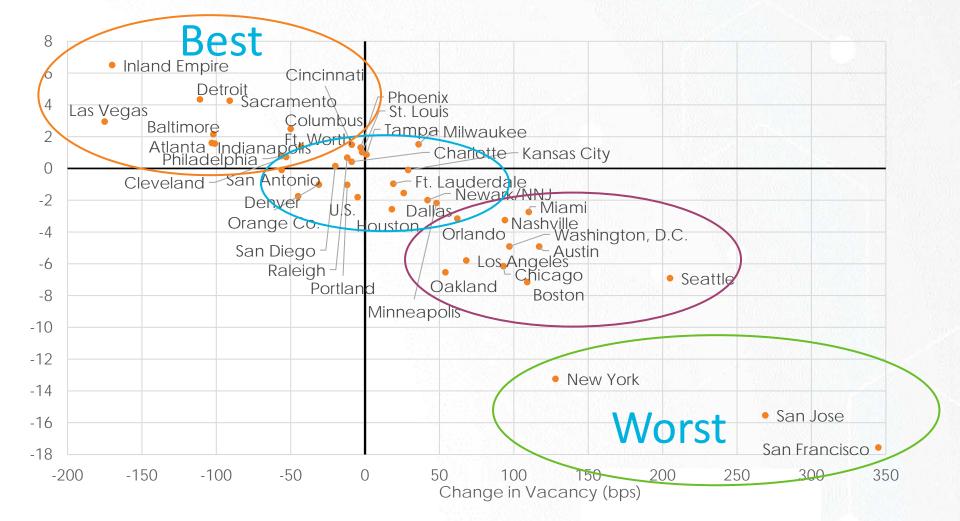
U.S. Apartment Metro Leaders & Laggards By Region

Rank	Market	Rent Change Y-o-Y (%)	Rank	Market	Rent Change Y-o-Y (%)	Rank	Market	Rent Change Y-o-Y (%)
	ALL MARKET			SOUTH CENTRAL			MIDWES	ST
	Sum of Markets	-4.2	1	Tulsa	4.5	(1)	Detroit	3.5
	PACIFIC		2	Oklahoma City	2.4	2	Indianapolis	3.5
1	Inland Empire	8.2	3	El Paso	1.8	3	Columbus	3.3
2	Sacramento	6.4	4	Ft. Worth	1.7	4	Cincinnati	2.7
3	Ventura	3.7	5	Corpus Christi	0.9	5	Dayton	2.1
4	San Diego	0.6	6	San Antonio	-0.8	6	Cleveland	1.9
5	Portland	-0.1	7	Dallas	-1.2	7	St. Louis	1.8
6	Orange County	-0.9	8	Houston	-2.6	8	Kansas City	1.5
7	Honolulu	-1.1	9	Austin	-4.7	9	Omaha	1.5
8	Seattle	-3.9	1	SOUTHEAST	-4./	10	Milwaukee	1.2
9	Oakland	-5.0				11	Madison	0.9
10	Los Angeles	-5.5		Norfolk	5.1	12	Minneapolis	-1.4
11	San Jose	-14.6	2	Memphis	5.1	13	Chicago	-4.6
12	San Francisco	-18.0	3	Richmond	4.9		NORTHEAST/MID	ATLANTIC
	MOUNTAIN WEST		4	Greensboro Lexington	4.5 3.6	1	Providence	3.8
1	Albuquerque	6.3	6	Jacksonville	3.3	2	Hartford	3.1
2	Tucson	6.2	7	Tampa	3.0	3	Long Island	2.7
3	Phoenix	4.5	8	Birmingham	2.8	4	Baltimore	2.7
4	Colorado Springs	4.1	9	Atlanta	2.0	5	Philadelphia	1.4
5	Las Vegas	3.7	10	Greenville	1.4	6	Newark	-0.4
6	Salt Lake City	1.6	11	Charlotte	1.3	7	Pittsburgh	-1.0
7	Denver	-1.8	12	West Palm Beach	1.1	8	Washington, D.C.	-4.8
			13	Louisville	1.0	9	Boston	-6.4
lotor P	ased on effective "same-s	toro	14	Raleigh	0.8	10	New York	-9.7
ents.	used on enective same-s	1016	15	Ft. Lauderdale	-0.4			
	CBRE Research, CBRE Ec	onometric	16	Miami	-2.8			
Advisor	s, Q4 2020.		17	Nashville	-2.8			
CBRE	RESEARCH		18	Orlando	-3.0			

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#### METROS – RENT & VACANCY CHANGE MARCH TO OCTOBER

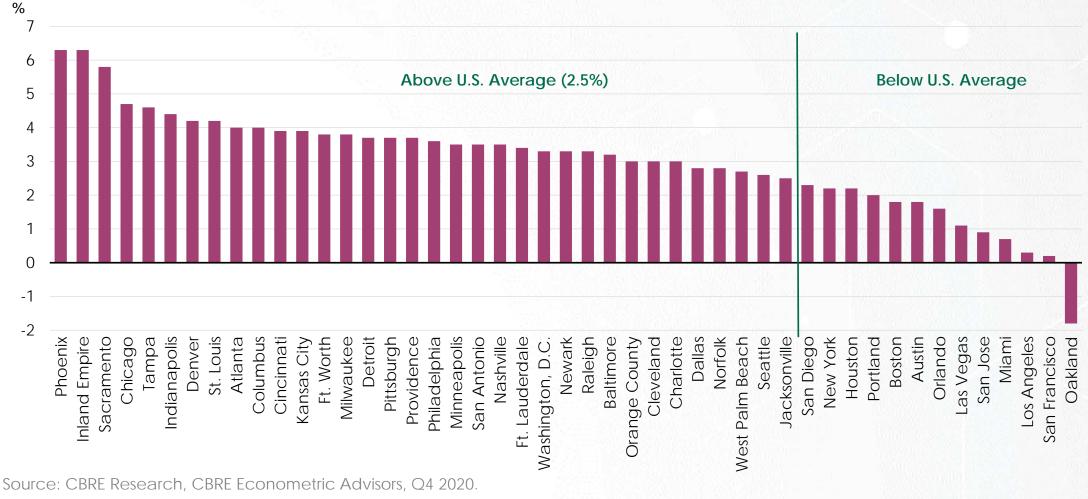
Change in Effective Rents (%)



**CBRE** Source: CBRE Research, RealPage, Q4 2020. 44 metros with 150,000+ units...

#### **OUTLOOK – PROJECTED 2021 RENTAL GROWTH**

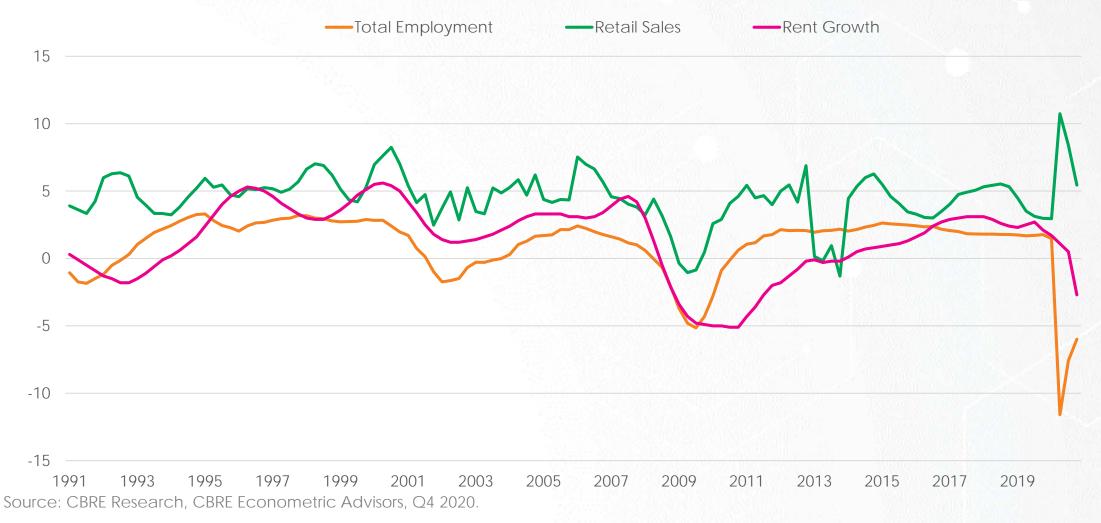
U.S. Apartment 2021 Metro Rent Projections (%)





#### PHYSICAL RETAIL TAKES ANOTHER BLOW

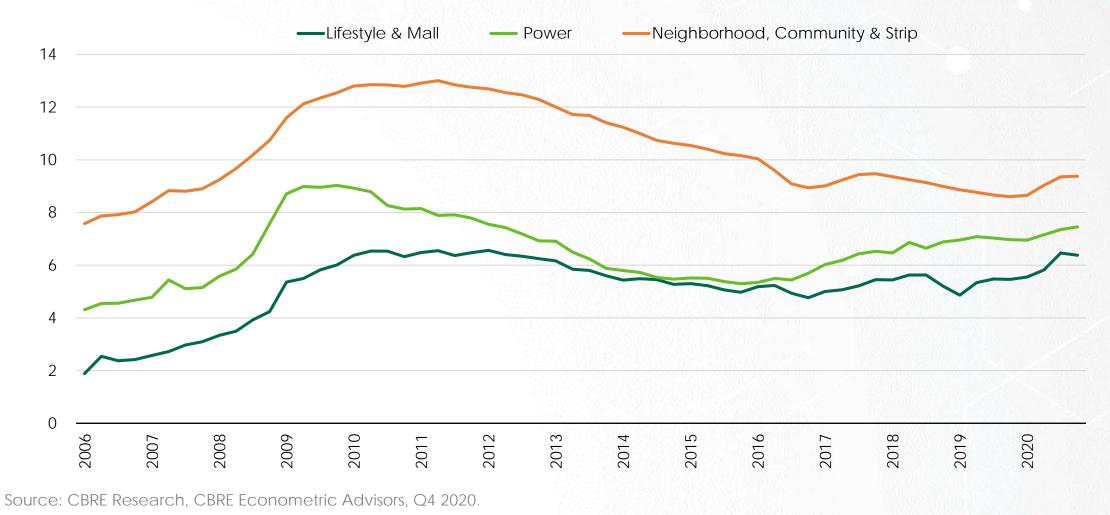
U.S. Retail Rent vs. Total Employment Growth and Retail Sales



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#### POWER MALLS HAVE BEEN AFFECTED

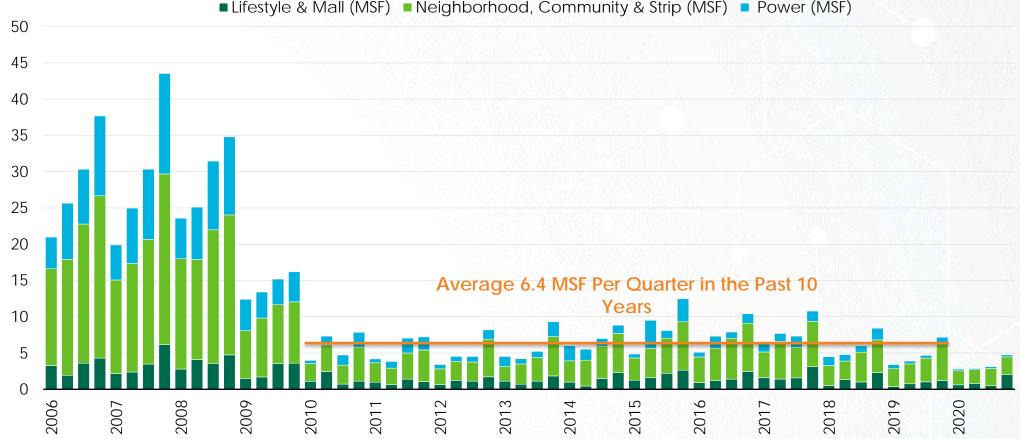
U.S. Retail Availability Rate by Retail Type



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### **NO NEW RETAIL SUPPLY**

U.S. Retail Completions by Retail Type



■ Lifestyle & Mall (MSF) ■ Neighborhood, Community & Strip (MSF) ■ Power (MSF)

Source: CBRE Research, CBRE Econometric Advisors, Q4 2020.



#### **RETAIL BANKRUPTCIES ELEVATED IN 2020**

U.S. Retail - National & large regional bankruptcies (excl. small business)



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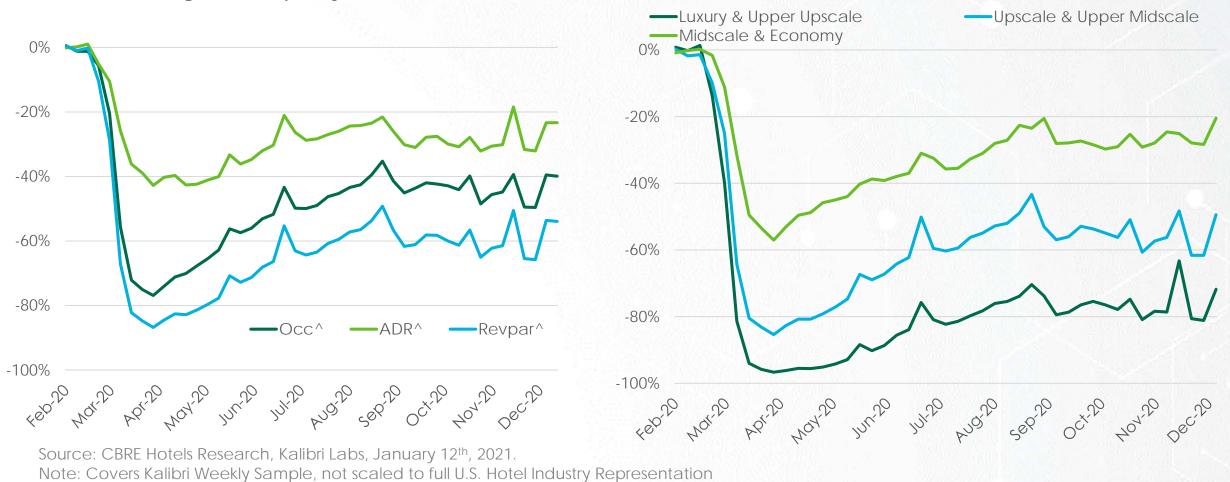
#### HOTELS IMPROVED BUT GOING SIDEWAYS

U.S. Hotel Occupancy, ADR, and RevPAR (YoY Change)

Y-o-Y Change in Occupancy, ADR and RevPAR

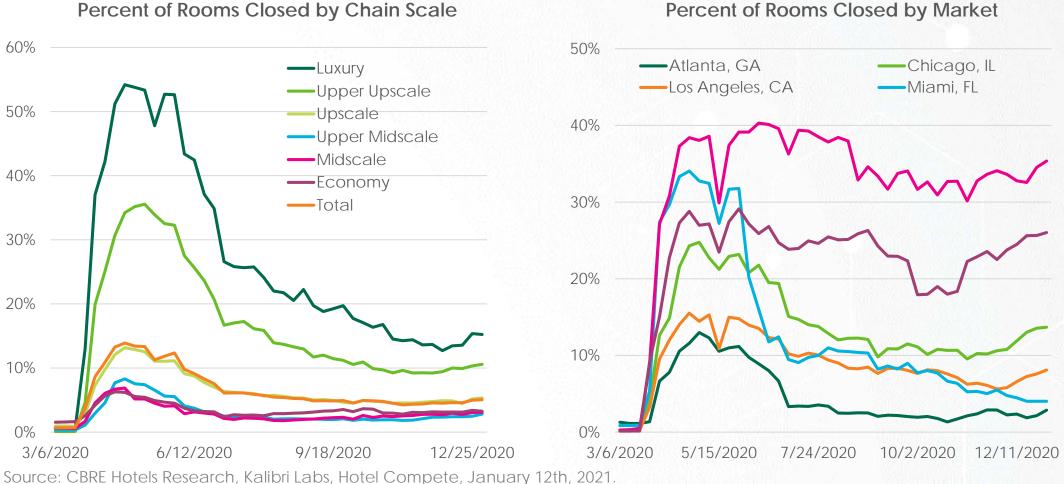
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Y-o-Y Change in RevPAR



#### **HIGH END AND BIG CITY HARD HIT**

U.S. Hotel Percent of Rooms Closed by Chain Scale and Market

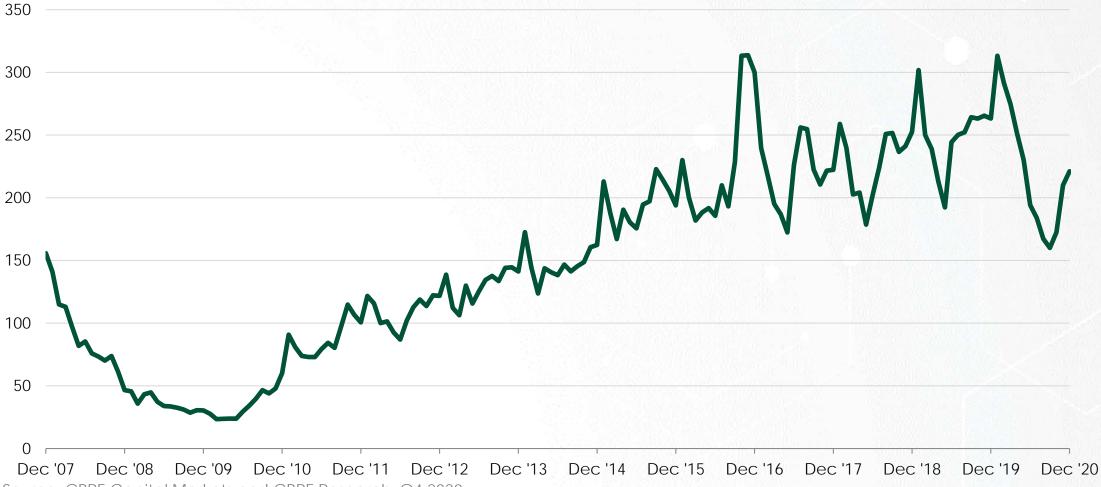


Percent of Rooms Closed by Market



#### **REAL ESTATE LENDING PICKING UP AGAIN**

**CBRE Lending Momentum Index** 

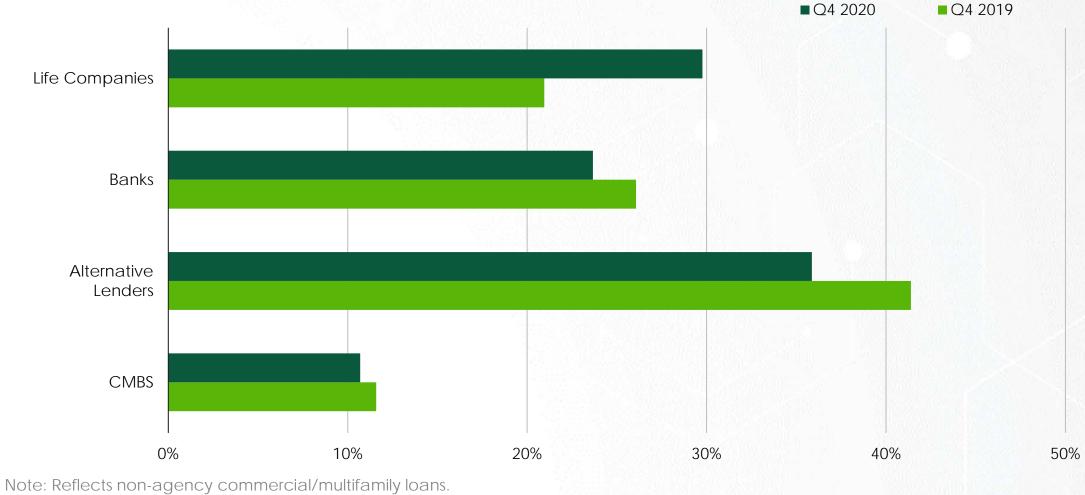


Source: CBRE Capital Markets and CBRE Research, Q4 2020.



#### LIFE COMPANIES TAKING A BIGGER SHARE

Alternative Lenders & Life Companies Top Q4 Originations



Source: CBRE Capital Markets and CBRE Research, Q4 2020.

#### MORTGAGE LOAN SPREADS TIGHTENED IN Q4

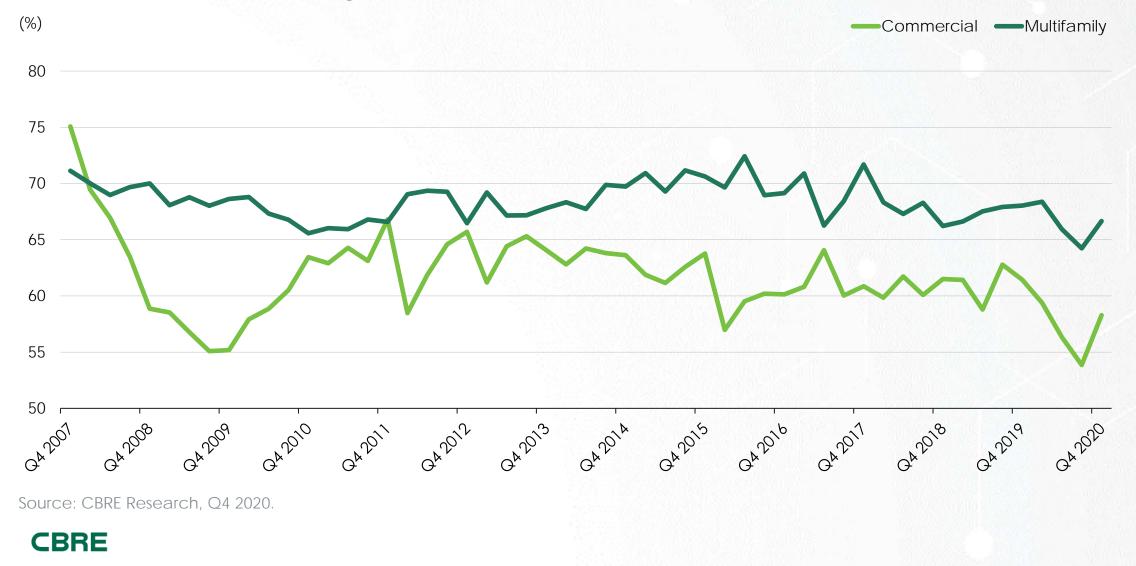
Commercial & Multifamily Mortgage Loan Spreads to U.S. Treasury (BPS)



Note: Reflects average spreads on 7-10 year, 55%-65% LTV, permanent fixed-rate loans closed by CBRE Capital Markets. Source: CBRE Capital Markets and CBRE Research, Q4 2020.

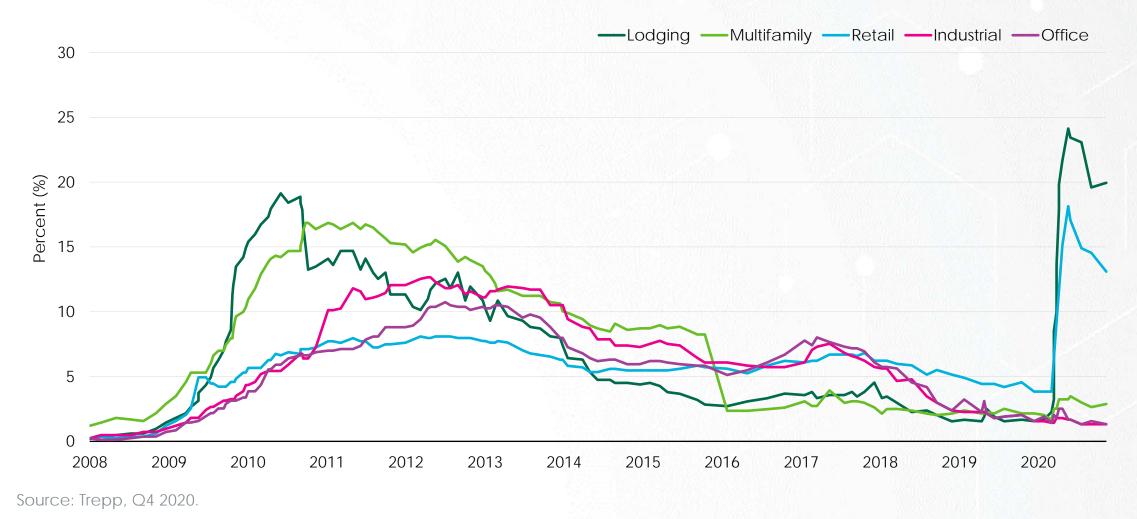
#### **COMMERCIAL & MULTIFAMILY LTVS RISE AT YEAR-END**

Commercial & Multifamily Loan-to-Values



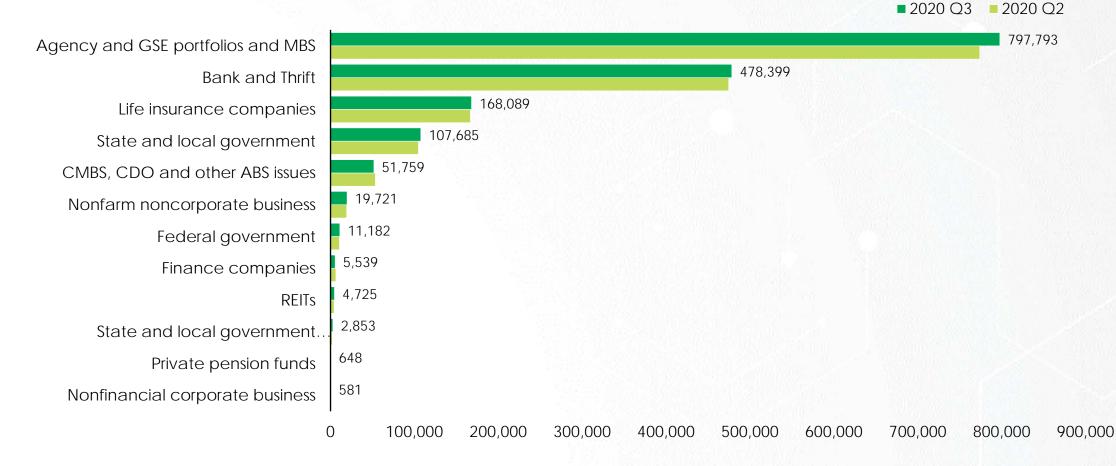
## CMBS DELINQUENCY RATES UP IN LODGING AND RETAIL

CMBS Delinquency Rates



#### CMBS IS A RELATIVELY SMALL PART OF THE MARKET

Total Multifamily Mortgage Debt Outstanding by Sector (USD Millions)

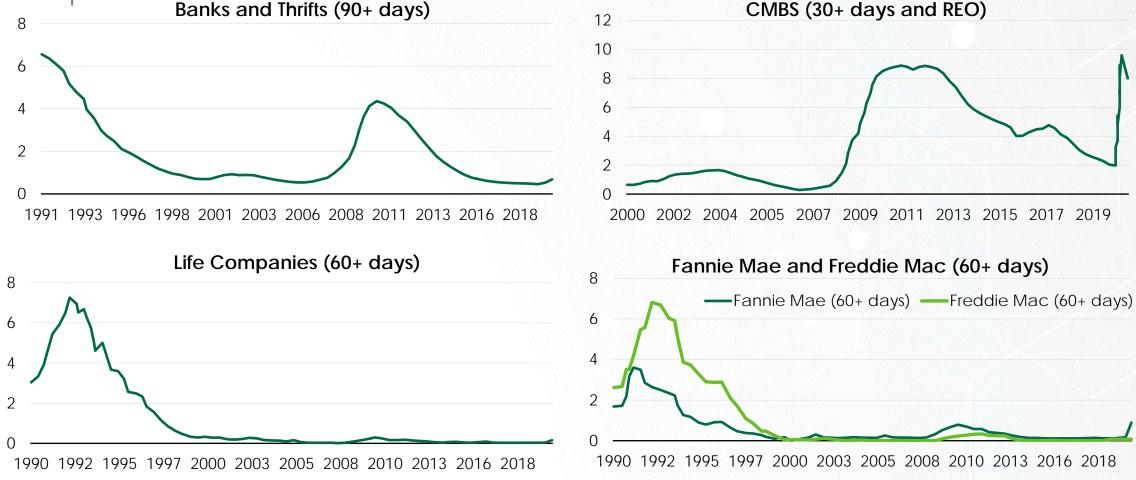


Source: MBA, Federal Reserve Board of Governors, Trepp LLC, Wells Fargo Securities, Intex Soluitions, FDIC.



#### **CMBS GENERALLY LOWER QUALITY COVENANT**

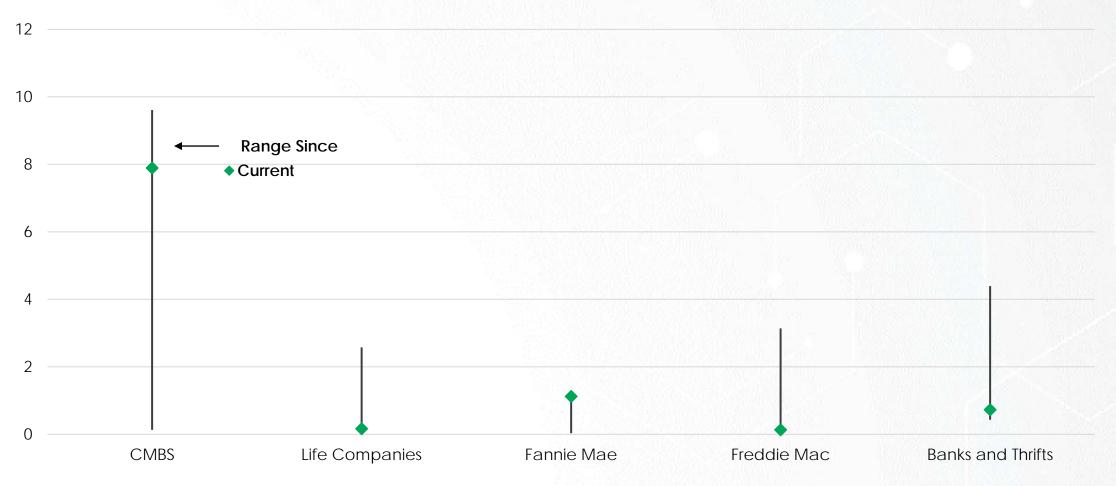
Commercial/Multifamily Mortgage Delinquency Rates Among Major Investor Groups



CBRE Source: Trepp LLC, Wells Fargo Securities, Intex Solutions, American Council of Life Insurers, Fannie Mae, Freddie Mac, OFHEO, FDIC

#### LATEST DELINQUENCY RATES AND RANGE

Latest Delinquency Rates and Range Since 1996



Source: MBA, Federal Reserve Board of Governors, Trepp LLC, Wells Fargo Securities, Intex Soluitions, FDIC.



# THANK YOU!PLEASE DON'T HESITATE TO CONTACT US.

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