

MARCH 27, 2020



COVID-19

**ECONOMIC IMPACT  
& SECTOR UPDATE**



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## **SPEAKERS | MARCH 27, 2020**

### **Jamie Lane**

Senior Managing Economist, CBRE Econometric Advisors,  
CBRE Hotels Research

### **Dr. Richard Barkham**

Global Chief Economist & Head of Americas Research

### **Matt Mowell**

Economist, CBRE Econometric Advisors

### **Bram Gallagher**

Economist, CBRE Econometric Advisors,  
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### **Dr. Jing Ren**

Economist, CBRE Econometric Advisors

### **Alex Krasikov**

Economist, CBRE Econometric Advisors

### **Nathan Adkins**

Economist, CBRE Econometric Advisors

### **Ibrahiim Bayaan**

Economist, CBRE Econometric Advisors

### **Jamie Lane**

Senior Managing Economist, CBRE Econometric Advisors,  
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## **Opening Remarks**

## **Global Economic Outlook**

## **Metro and 'Big-Picture' Real Estate Overview**

## **COVID-19 Implications for Lodging**

## **COVID-19 Implications for Retail**

## **COVID-19 Implications for Office**

## **COVID-19 Implications for Multifamily**

## **COVID-19 Implications for Industrial**

## **Q&A and Closing Comments**



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## OPENING REMARKS

JAMIE LANE, SR. MANAGING ECONOMIST,  
CBRE ECONOMETRIC ADVISORS | CBRE  
HOTELS RESEARCH

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# **GLOBAL ECONOMIC OUTLOOK**

**DR. RICHARD BARKHAM, GLOBAL CHIEF  
ECONOMIST, HEAD OF AMERICAS  
RESEARCH**



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## WHY HAVE WE CHANGED OUR FORECASTS

- Deteriorating data – weekly unemployment claims
- Anecdotal information on the scale of job losses
- The restrictions and lockdowns have proceeded more quickly than expected – both in the USA and elsewhere
- New data from China have revealed the impact of the lockdown and restrictions there on economic activity
- We aim not to be too far from the “consensus”. We were in line with the emerging consensus a week ago. The consensus view has deteriorated

## KEY UNCERTAINTIES (CBRE ASSUMPTIONS IN RED)

1. What will the peak (assumed to be Q2) impact be? – how will it vary by industry?

It will reduce GDP by almost 7% relative to base in Q2. Retail, wholesale, transport, leisure worst affected

2. How long will the economic impact last? - will lockdowns get more severe or ease off?

Peak by end of Q2. Some restrictions may ease back before then

3. How quick will the recovery kick in? – how long will it take to get back to base? – what could turn a Nike-shaped tick into a U or an L?

The recovery will kick in from Q3 accelerating in Q4

If the peak is well into Q3 the recovery will be delayed and the recovery slower (the U-shape)

4. What impact will policy have? – mitigate the downturn, facilitate the recovery or both?

- Calms financial markets in Q1/2

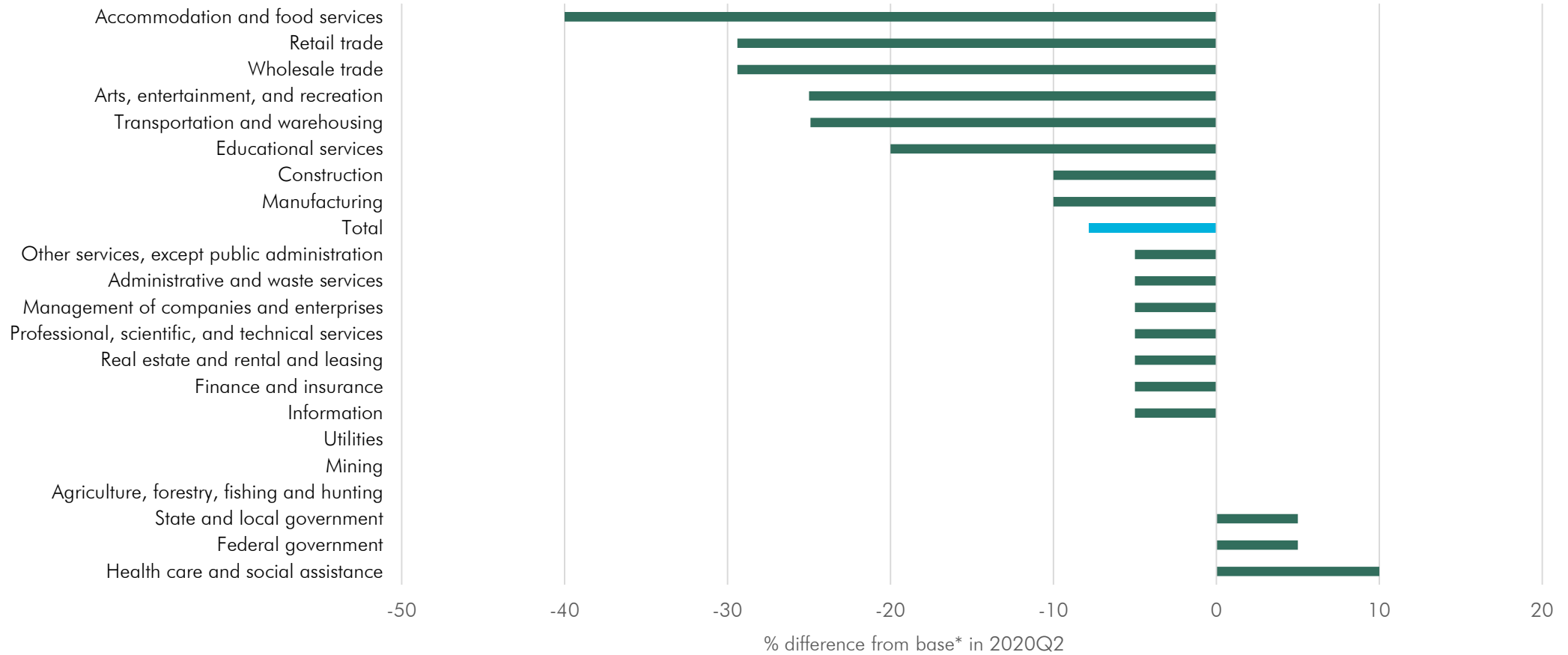
- Supports the supply side by stopping companies going bust allowing them to deliver the recovery in Q3

- Support the demand side in the recovery by maintaining personal incomes now

5. What is the impact on price inflation?

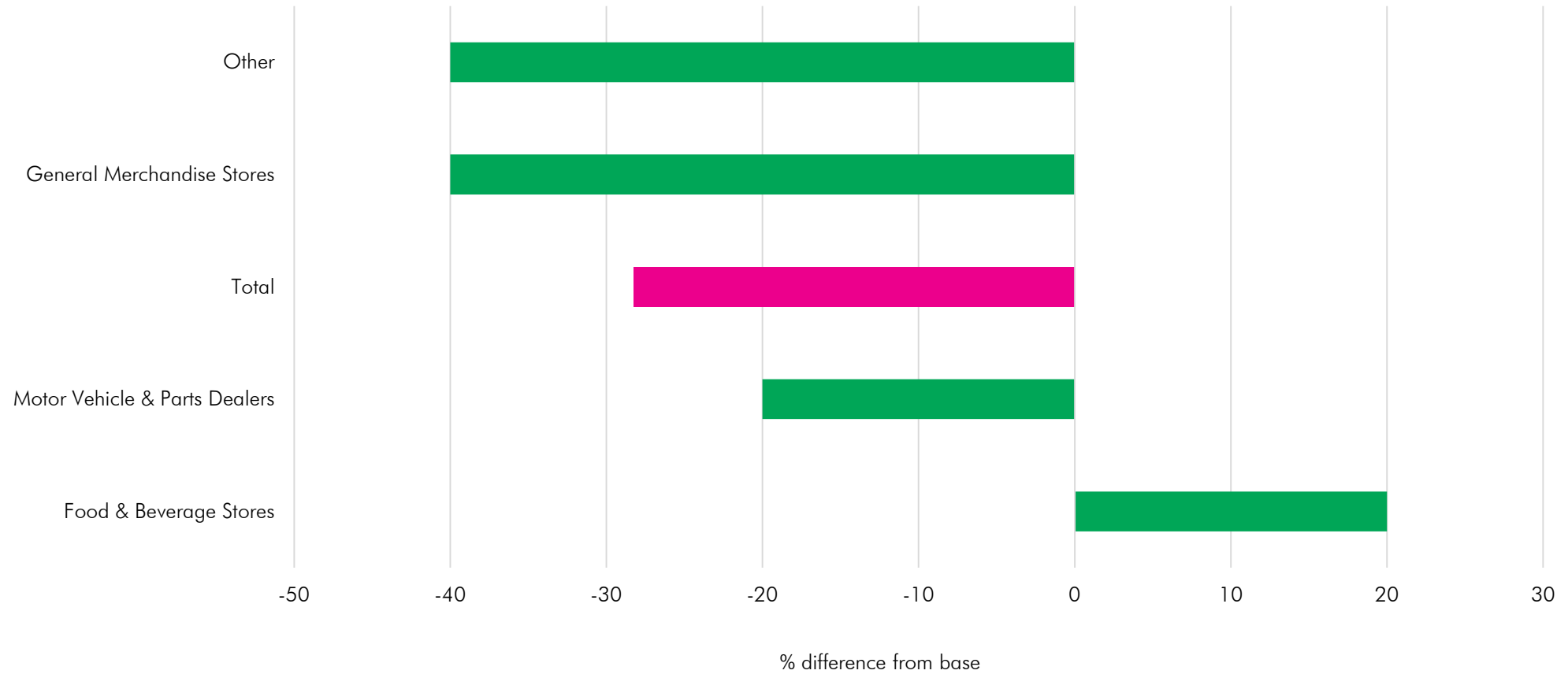
Short-term negative; may push inflation up during the recovery

# ASSUMED IMPACT BY INDUSTRY



Source: CBRE Research, March 2020. \*Base = February forecast.

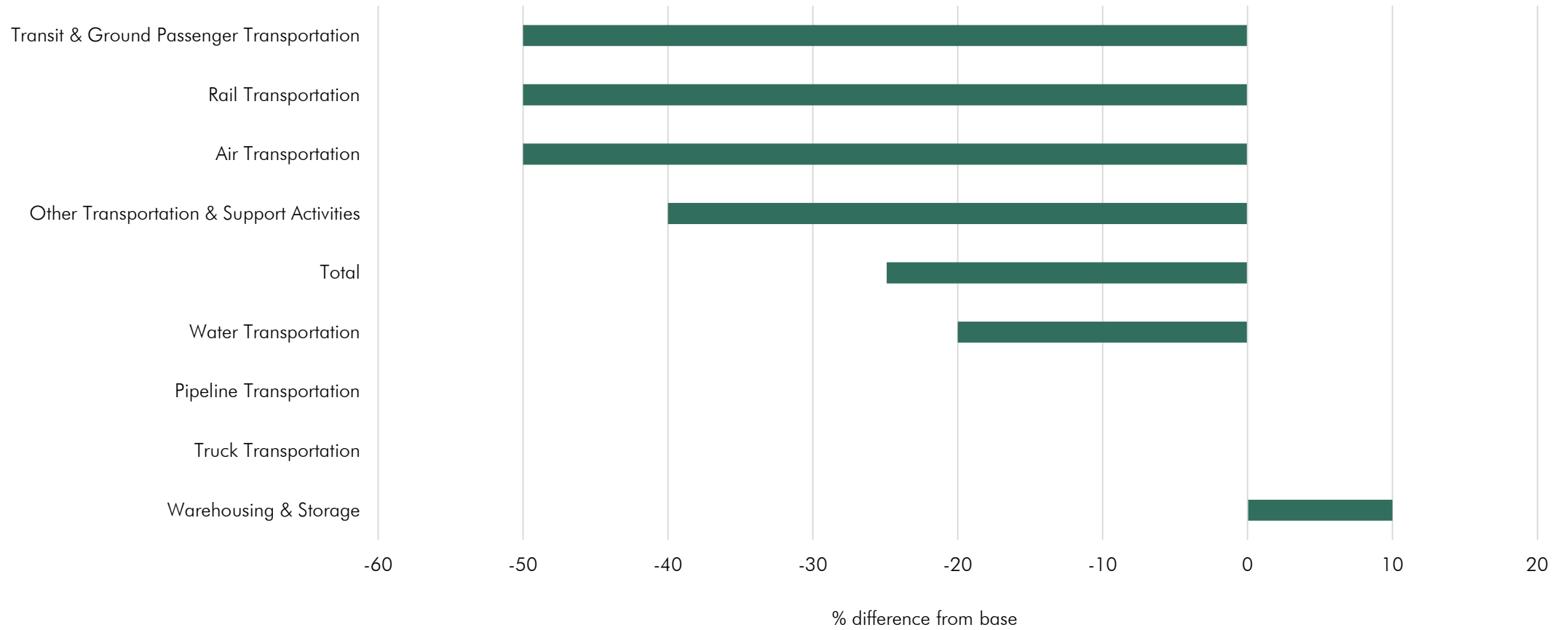
# ASSUMED IMPACT BY INDUSTRY: RETAIL DETAIL



Source: CBRE Research, March 2020.

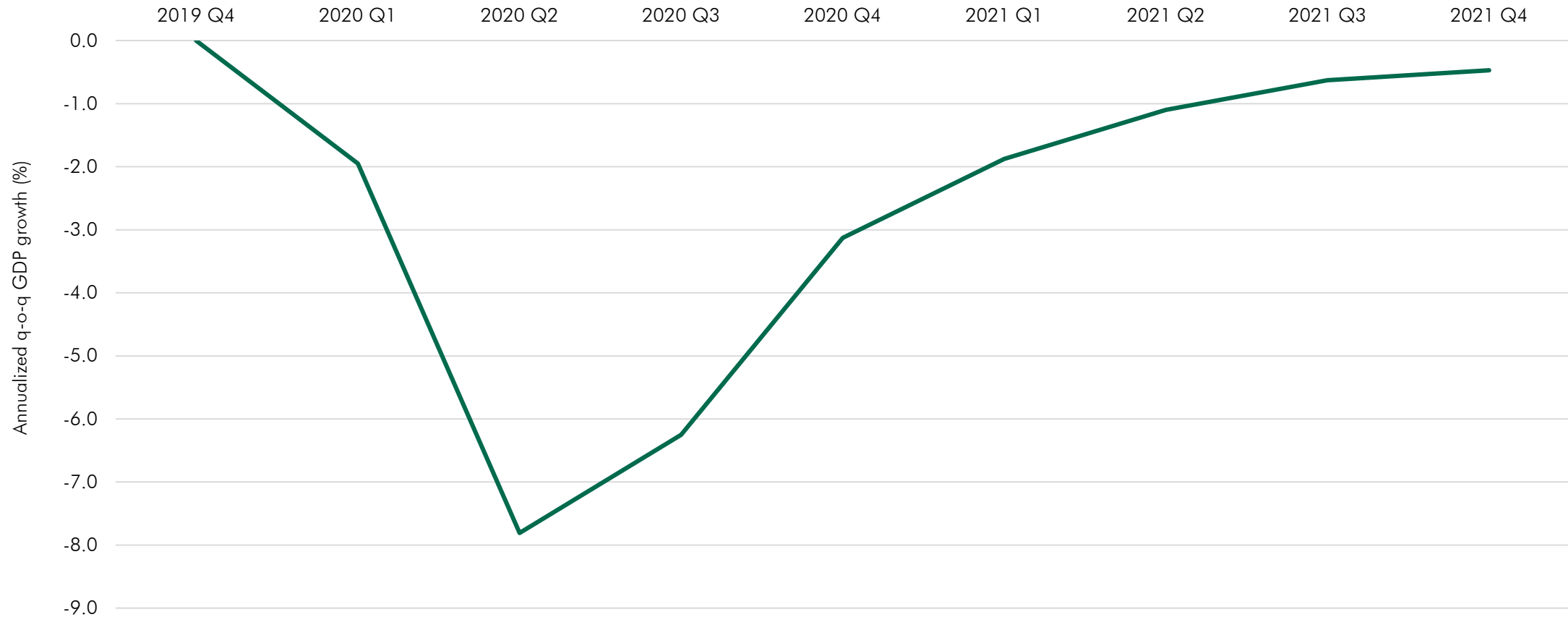


# ASSUMED IMPACT BY INDUSTRY: TRANSPORT & WAREHOUSING



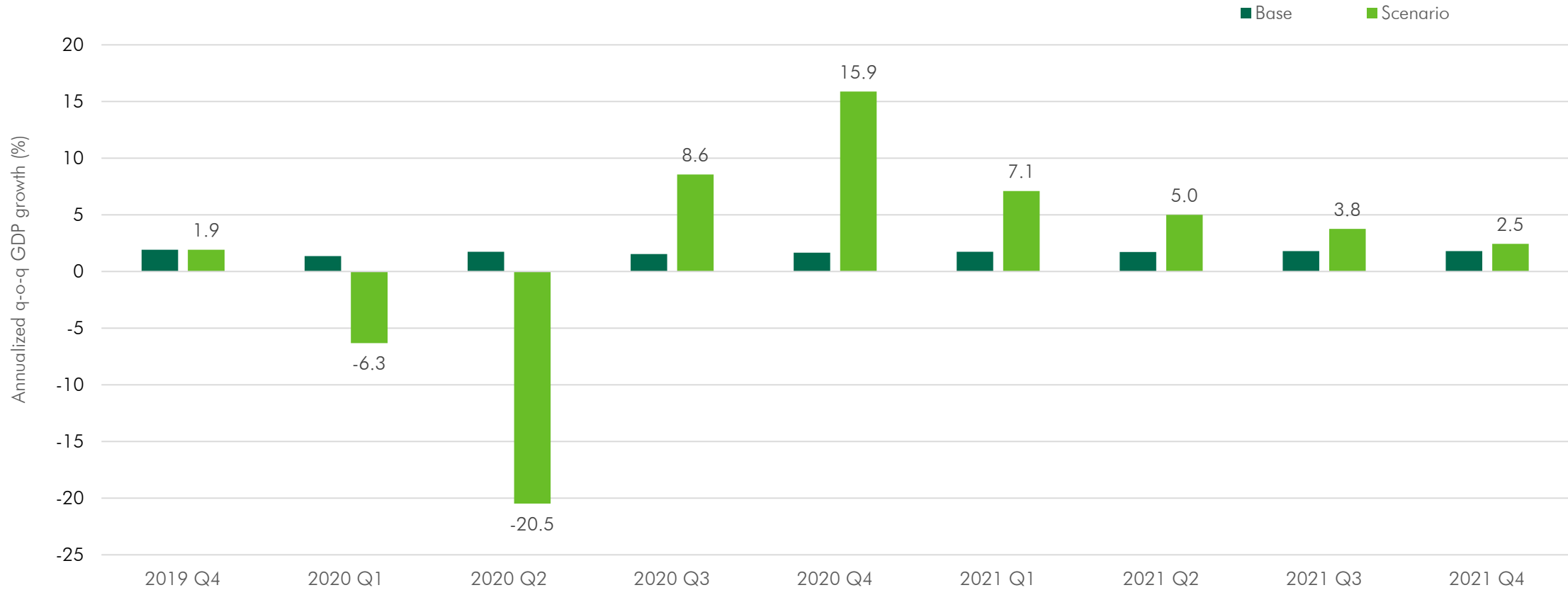
Source: CBRE Research, March 2020.

# IMPACT ON GDP: RELATIVE TO BASE



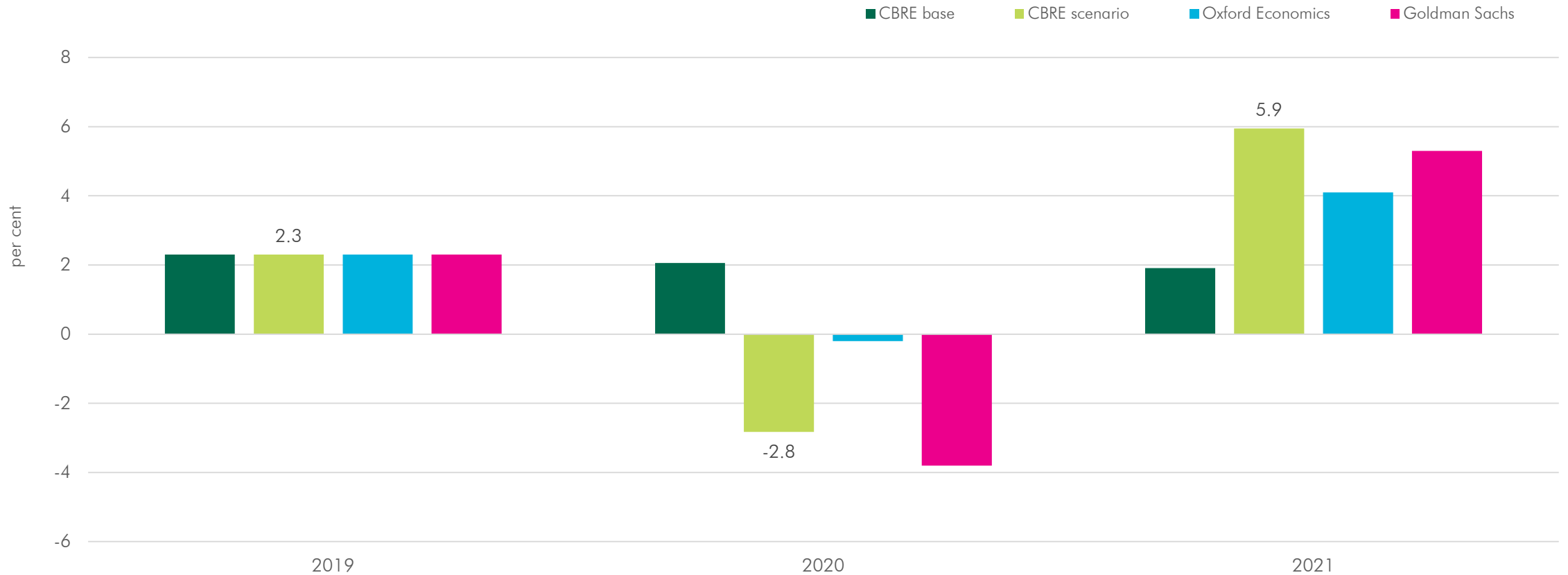
Source: CBRE Research, March 2020.

# QUARTERLY GROWTH PROFILE: SAAR



Source: CBRE Research, March 2020.

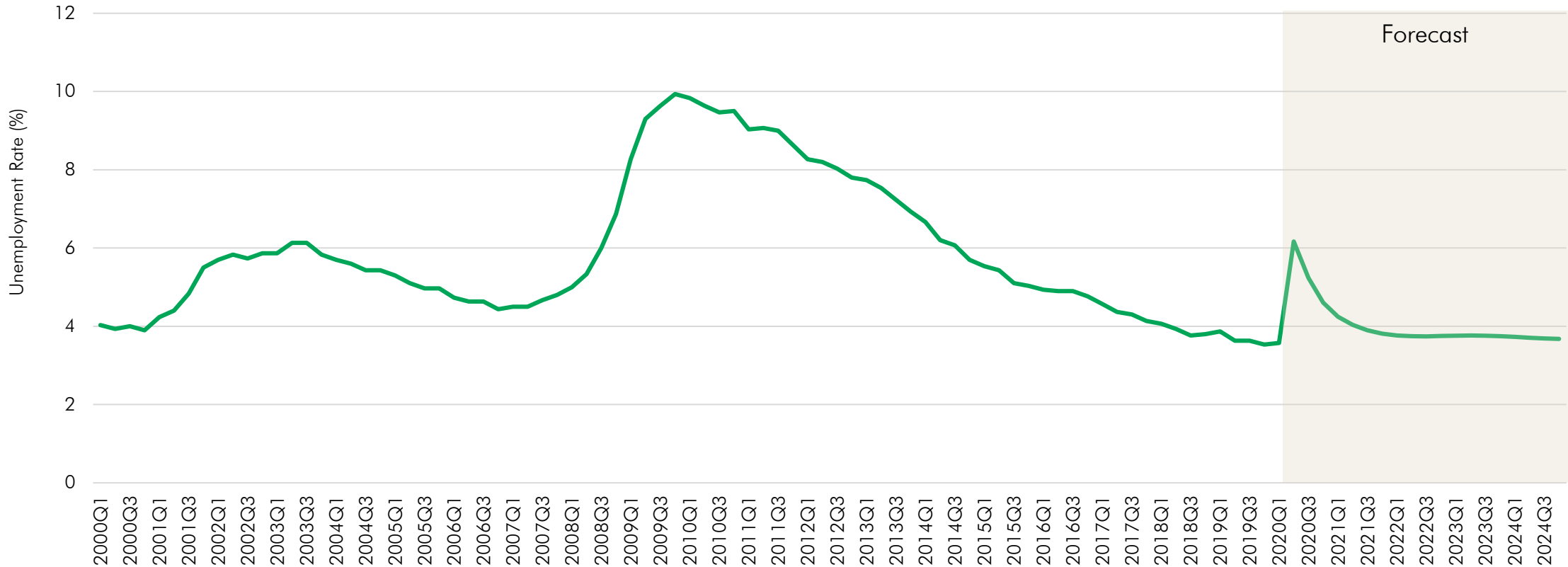
# IMPACT ON ANNUAL US GDP GROWTH



Source: Oxford Economics, Goldman Sachs, CBRE Research, March 2020.

# EMPLOYMENT TO FALL BY 8 MILLION

Unemployment rate to hit 6.1% but then to fall back rapidly from Q3



Source: BLS, CBRE Research, March 2020.

## SUMMARY

- Big hit in Q2: -17.9% GDP growth
- Big bounce back, particularly in Q4
- -2.8% GDP growth in 2020; +5.9% in 2021
- Unemployment up to 6.1%; employment falls by 5.3% or 8m in Q2
- Policy responses:
  - Calms financial markets in Q1&2
  - Supports the supply side by stopping companies going bust allowing the recovery in Q3
  - Support the demand side for recovery by maintaining personal incomes now

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# **COVID-19 IMPLICATIONS FOR INDUSTRIES AND CITIES**

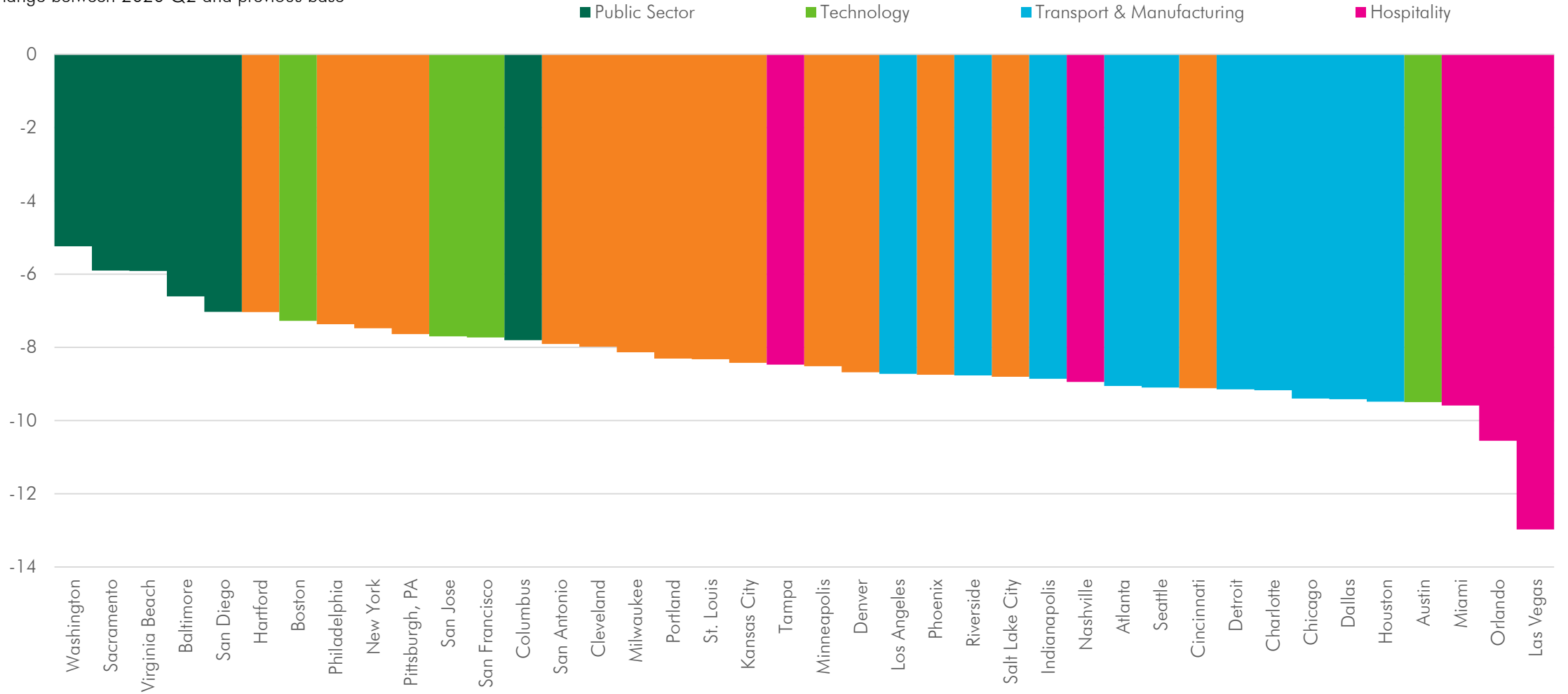
**MATT MOWELL, ECONOMIST, CBRE  
ECONOMETRIC ADVISORS**



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# WHICH US CITIES COULD BE HARDEST HIT FROM COVID-19

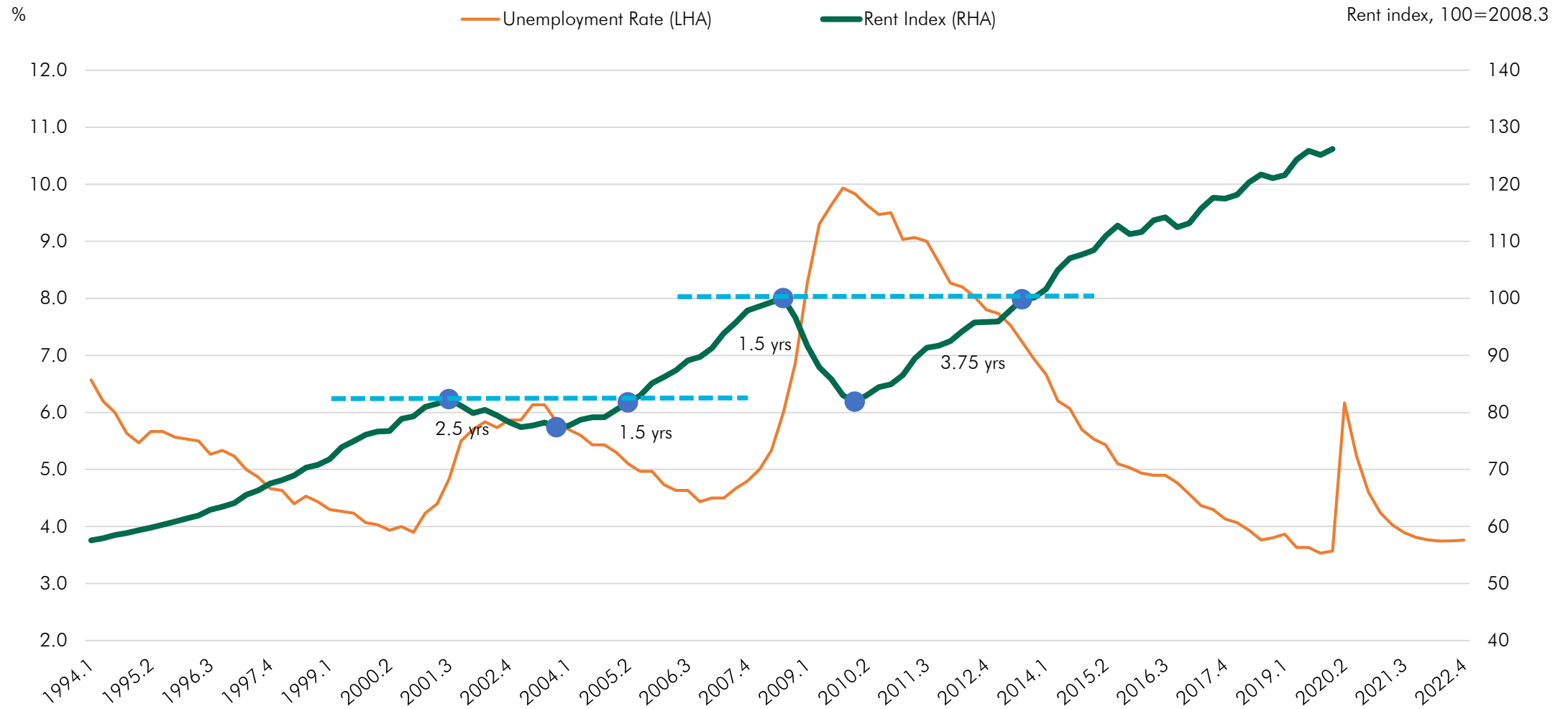
% change between 2020 Q2 and previous base



Source: CBRE.



# IMPACT ON THE PROPERTY MARKET WILL BE SHARP BUT ARGUABLY SHORT



Source: CBRE, Bureau of Labor Statistics.

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## COVID-19 IMPLICATIONS FOR LODGING

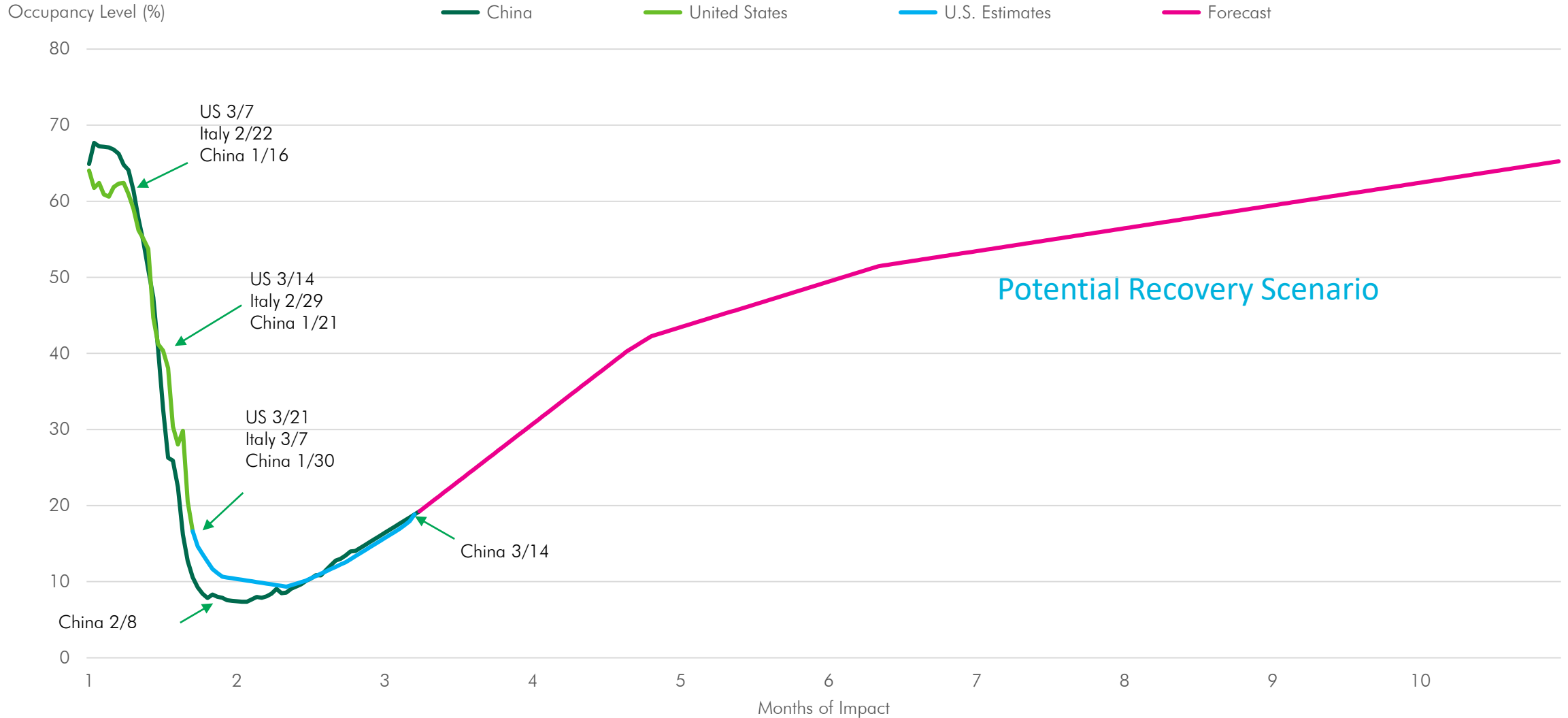
BRAM GALLAGHER, ECONOMIST, CBRE  
ECONOMETRIC ADVISORS | HOTELS  
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# DISRUPTION CURVE – HOTEL OCCUPANCY



Source: CBRE Hotels Research, STR, March 21, 2020.

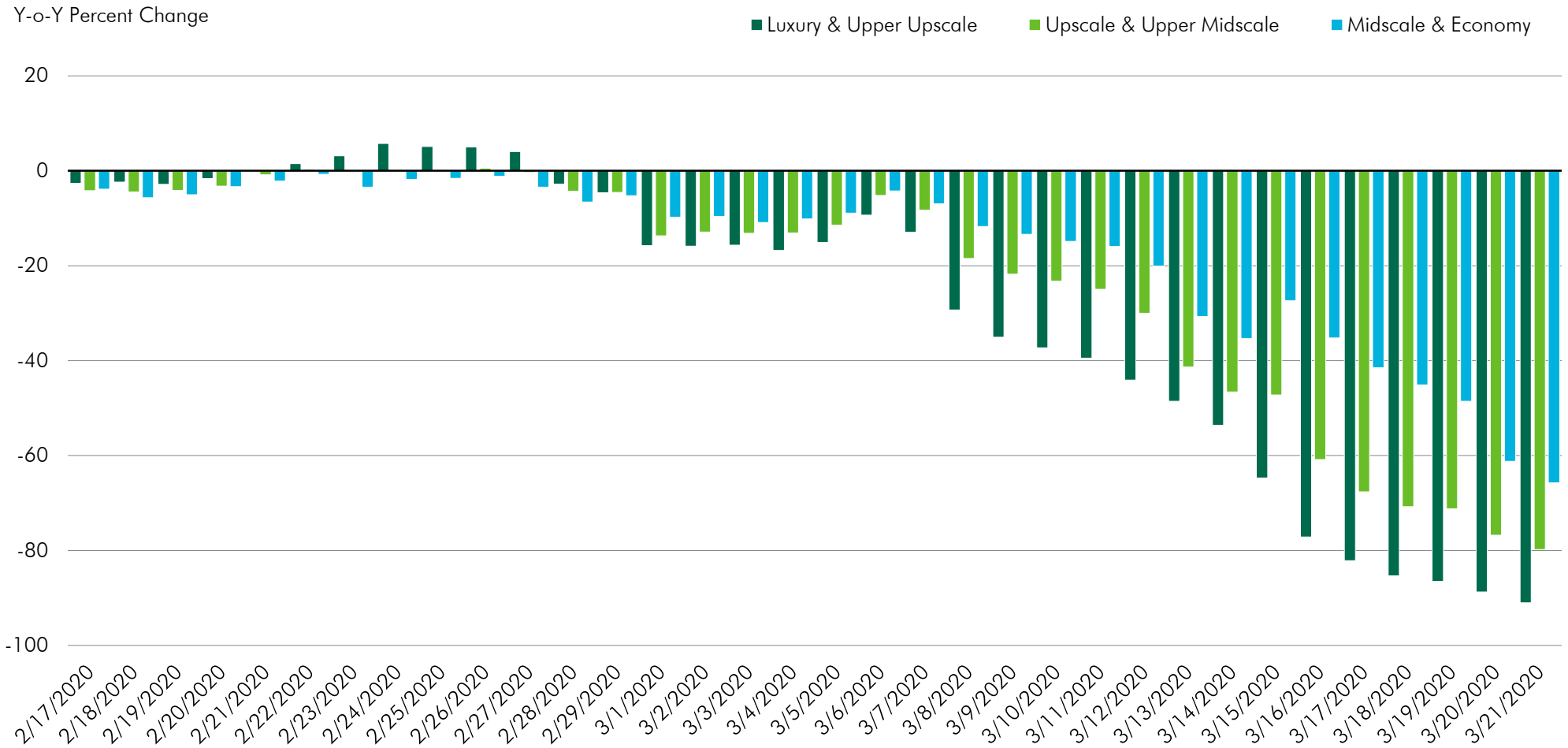
## UPDATED DOWNSIDE FORECAST

Occupancy recovers faster than ADR

| Year | Occ   | ΔOcc   | ADR      | ΔADR   | RevPAR  | ΔRevPAR | Supply    | ΔSupply | Demand    | ΔDemand |
|------|-------|--------|----------|--------|---------|---------|-----------|---------|-----------|---------|
| 2016 | 65.4% | 0.1%   | \$124.06 | 3.0%   | \$81.14 | 3.1%    | 5,021,012 | 1.4%    | 3,283,828 | 1.5%    |
| 2017 | 65.9% | 0.7%   | \$126.81 | 2.2%   | \$83.52 | 2.9%    | 5,106,199 | 1.7%    | 3,363,052 | 2.4%    |
| 2018 | 66.1% | 0.4%   | \$129.96 | 2.5%   | \$85.94 | 2.9%    | 5,206,614 | 2.0%    | 3,442,727 | 2.4%    |
| 2019 | 66.1% | 0.0%   | \$131.20 | 1.0%   | \$86.73 | 0.9%    | 5,311,653 | 2.0%    | 3,511,367 | 2.0%    |
| 2020 | 46.8% | -29.3% | \$117.09 | -10.8% | \$54.76 | -36.9%  | 5,411,741 | 1.9%    | 2,530,899 | -27.9%  |
| 2021 | 60.2% | 28.7%  | \$125.78 | 7.4%   | \$75.72 | 38.3%   | 5,495,484 | 1.5%    | 3,308,350 | 30.7%   |
| 2022 | 64.0% | 6.4%   | \$134.15 | 6.7%   | \$85.89 | 13.4%   | 5,515,177 | 0.4%    | 3,531,190 | 6.7%    |
| 2023 | 65.1% | 1.6%   | \$138.46 | 3.2%   | \$90.08 | 4.9%    | 5,569,023 | 1.0%    | 3,623,162 | 2.6%    |

Source: CBRE Hotels Research, STR, March 20, 2020.

# HIGHER THE ADR, LARGER THE Y-O-Y PERCENT DECLINE



Source: CBRE Hotels Research, STR, March 21, 2020.

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## COVID-19 IMPLICATIONS FOR RETAIL

DR. JING REN, ECONOMIST,  
CBRE ECONOMETRIC ADVISORS



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# IMPACT ON CONSUMERS AND RETAILERS

## Consumer

- Immediate impact – avoidance of physical stores
  - Top three venues people are avoiding: movie theaters, restaurants/bars/coffee shops, shopping malls
- Deferred impact – rising unemployment erodes consumer confidence
  - Consumers cut back non-essential spending which leads to a decline in demand

## Retailer

- Liquidity
  - Some retailers started to draw down their line of credit
  - Retailers with strong balance sheets and omni channel strategies will outperform
- Will consumers come back to stores as before?

## LENGTH OF THE IMPACT

| Consumer         |  | Short-term | Medium-term | Long-term |
|------------------|--|------------|-------------|-----------|
| Immediate impact |  | Yes        | 0           | 0         |
| Deferred impact  |  | Yes        | Partial     | 0         |

| Retailer     | Scenario       | Short-term   | Medium-term   | Long-term           |
|--------------|----------------|--------------|---------------|---------------------|
| Liquidity    |                | Credit lines | Scale back    | Fully recovered     |
| Foot traffic | Back to Normal | Zero or weak | Recovery      | Fully recovered     |
| Foot traffic | New Normal     | Zero or weak | Slow recovery | Not fully recovered |



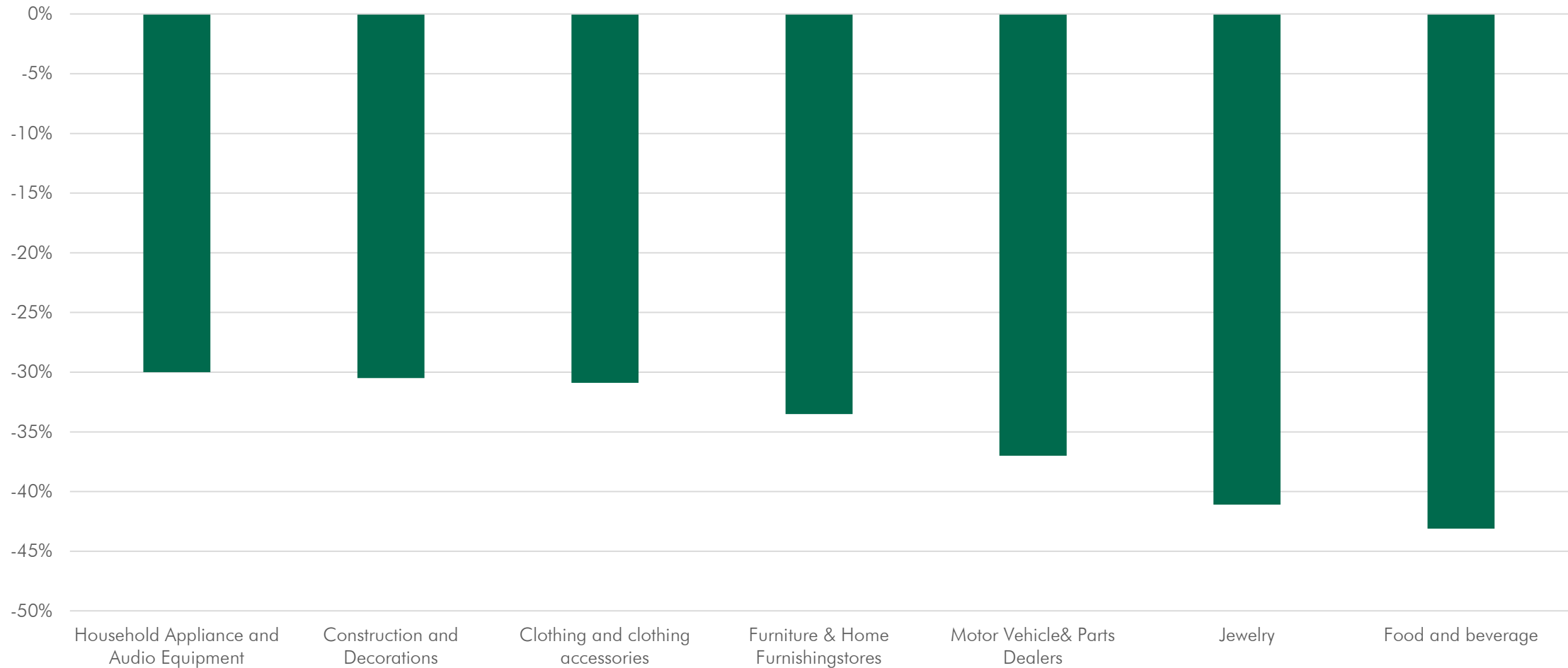
# WHAT CAN WE LEARN FROM THE PAST RECESSIONS



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# WHICH RETAIL SECTORS WILL BE AFFECTED MOST?

Y-O-Y retail sales growth in China: January and February



Source: China National Bureau of Statistics.

# OPEN TABLE SURVEY SHOWS HOW F&B ARE DOING NOW

|                 | 5-Mar | 6-Mar | 7-Mar | 8-Mar | 9-Mar | 10-Mar | 11-Mar | 12-Mar | 13-Mar | 14-Mar | 15-Mar | 16-Mar | 17-Mar | 18-Mar | 19-Mar | 20-Mar | 21-Mar | 22-Mar | 23-Mar | 24-Mar | 25-Mar |
|-----------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Atlanta         | -9    | -2    | 1     | 13    | 1     | -14    | -14    | -26    | -35    | -34    | -44    | -78    | -93    | -96    | -97    | -99    | -100   | -100   | -100   | -100   | -100   |
| Austin          | -6    | 0     | -13   | -23   | -41   | -31    | -30    | -27    | -35    | -36    | -54    | -71    | -99    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -99    |
| Baltimore       | 8     | 8     | 14    | -4    | -17   | -34    | -22    | -30    | -30    | -39    | -48    | -75    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Boston          | 11    | 7     | -1    | 10    | -14   | -29    | -30    | -47    | -56    | -64    | -70    | -81    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Calgary         | -2    | 2     | -10   | -4    | -11   | -8     | -7     | -27    | -48    | -51    | -54    | -73    | -96    | -99    | -99    | -99    | -100   | -100   | -100   | -100   | -100   |
| Charlotte       | -7    | 4     | -5    | -10   | -8    | -12    | -18    | -30    | -35    | -34    | -36    | -68    | -97    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Chicago         | -11   | -8    | 4     | 13    | -25   | -23    | -27    | -31    | -37    | -49    | -53    | -75    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Cincinnati      | -6    | -21   | -14   | -23   | -18   | -13    | -20    | -19    | -37    | -52    | -53    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Columbus        | -10   | -9    | -5    | 3     | -26   | -19    | -19    | -37    | -38    | -53    | -49    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Dallas          | 0     | 3     | -1    | -2    | -15   | -10    | -12    | -25    | -35    | -35    | -42    | -61    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Denver          | -10   | -9    | -6    | 2     | -20   | -19    | -4     | -17    | -46    | -46    | -50    | -56    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Fort Lauderdale | -11   | -13   | -3    | -14   | -15   | -19    | -15    | -25    | -28    | -30    | -44    | -46    | -88    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Honolulu        | -13   | -12   | -9    | -18   | -15   | -16    | -17    | -20    | -18    | -22    | -32    | -40    | -55    | -75    | -83    | -99    | -100   | -100   | -100   | -100   | -100   |
| Houston         | 7     | 6     | 10    | 7     | -14   | -17    | -8     | -24    | -33    | -34    | -40    | -61    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Indianapolis    | 2     | 0     | 1     | -1    | -29   | -20    | -25    | -35    | -47    | -58    | -49    | -71    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Las Vegas       | -9    | -8    | -7    | -8    | -11   | -19    | -13    | -20    | -32    | -36    | -48    | -58    | -88    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Los Angeles     | -5    | 1     | -2    | -15   | -27   | -23    | -26    | -38    | -48    | -47    | -57    | -82    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Louisville      | -7    | -7    | -5    | 3     | -22   | -21    | -24    | -30    | -33    | -52    | -57    | -75    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Miami           | -2    | -11   | -2    | 10    | -9    | -15    | -18    | -22    | -27    | -30    | -36    | -46    | -78    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Miami Beach     | -16   | -8    | -3    | -10   | -11   | -17    | -20    | -22    | -21    | -24    | -23    | -43    | -71    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Minneapolis     | -13   | -6    | 61    | 23    | -19   | -14    | -17    | -28    | -22    | -35    | -33    | -76    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Nashville       | -3    | 0     | 5     | -4    | -13   | -7     | -21    | -30    | -37    | -40    | -54    | -70    | -92    | -97    | -99    | -100   | -100   | -100   | -100   | -100   | -100   |
| New Orleans     | 5     | 6     | 3     | -3    | -13   | -13    | -21    | -28    | -32    | -39    | -54    | -63    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| New York        | -9    | -15   | -10   | -4    | -18   | -30    | -36    | -52    | -61    | -64    | -69    | -77    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Orlando         | -2    | -1    | 1     | -8    | -34   | -37    | -30    | -30    | -33    | -32    | -47    | -53    | -85    | -90    | -93    | -97    | -100   | -100   | -100   | -100   | -100   |
| Philadelphia    | 8     | -7    | 1     | 3     | -7    | -14    | -16    | -39    | -40    | -48    | -54    | -85    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Phoenix         | -8    | -7    | -6    | -8    | -18   | -13    | -28    | -21    | -28    | -27    | -45    | -66    | -86    | -99    | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Pittsburgh      | -10   | -17   | 9     | 1     | -13   | -31    | -24    | -42    | -42    | -48    | -48    | -63    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Portland        | 3     | 0     | -3    | 5     | -16   | -7     | -20    | -32    | -41    | -39    | -54    | -61    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Raleigh         | -13   | -9    | -9    | -11   | -18   | -18    | -15    | -21    | -29    | -39    | -55    | -68    | -97    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| San Antonio     | -6    | -8    | -15   | -23   | -32   | -22    | -27    | -28    | -41    | -39    | -45    | -59    | -83    | -91    | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| San Diego       | -1    | -1    | -1    | -7    | -13   | -34    | -31    | -43    | -43    | -42    | -49    | -62    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| San Francisco   | -22   | -18   | -18   | -26   | -41   | -43    | -43    | -51    | -53    | -58    | -72    | -80    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Seattle         | -36   | -34   | -35   | -25   | -47   | -49    | -54    | -58    | -63    | -63    | -62    | -83    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |
| Tampa           | -1    | -1    | 0     | -2    | 0     | -15    | -14    | -16    | -22    | -23    | -20    | -48    | -75    | -84    | -86    | -95    | -100   | -100   | -100   | -100   | -100   |
| Washington      | -4    | -5    | 1     | 0     | -9    | -18    | -22    | -38    | -44    | -44    | -55    | -76    | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   | -100   |



## IF WE ARE MOVING TOWARD A VIRTUAL SOCIETY

- Technology
  - Contactless payment
  - Visiting stores at home: video chat with sales associates
- More e-commerce penetration in groceries shopping
  - Grocery-anchored shopping centers experience less foot traffic
- Retail space redeveloped, converted or blended with other uses
  - Conversion to industrial (cold storage and distribution centers)
  - Replacement with multifamily
  - Mixed-use redevelopment

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## COVID-19 IMPLICATIONS FOR OFFICE

ALEX KRASIKOV, ECONOMIST,  
CBRE ECONOMETRIC ADVISORS

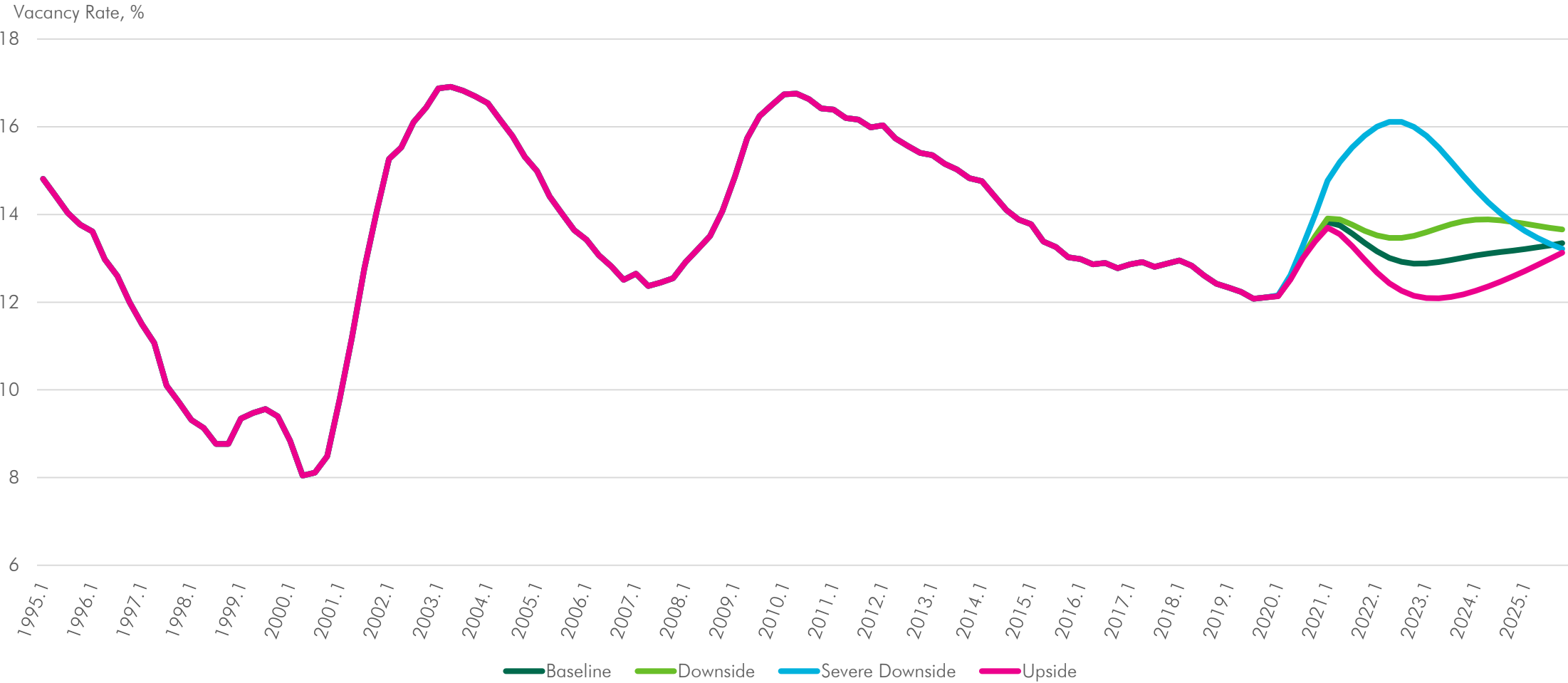


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# PRELIMINARY FORECAST FOR OFFICE

## U.S. Office Sum of Markets Scenarios\*



\*Based on March 2020 macroeconomic expectations and Q4 2019 real estate fundamentals

Source: CBRE EA.



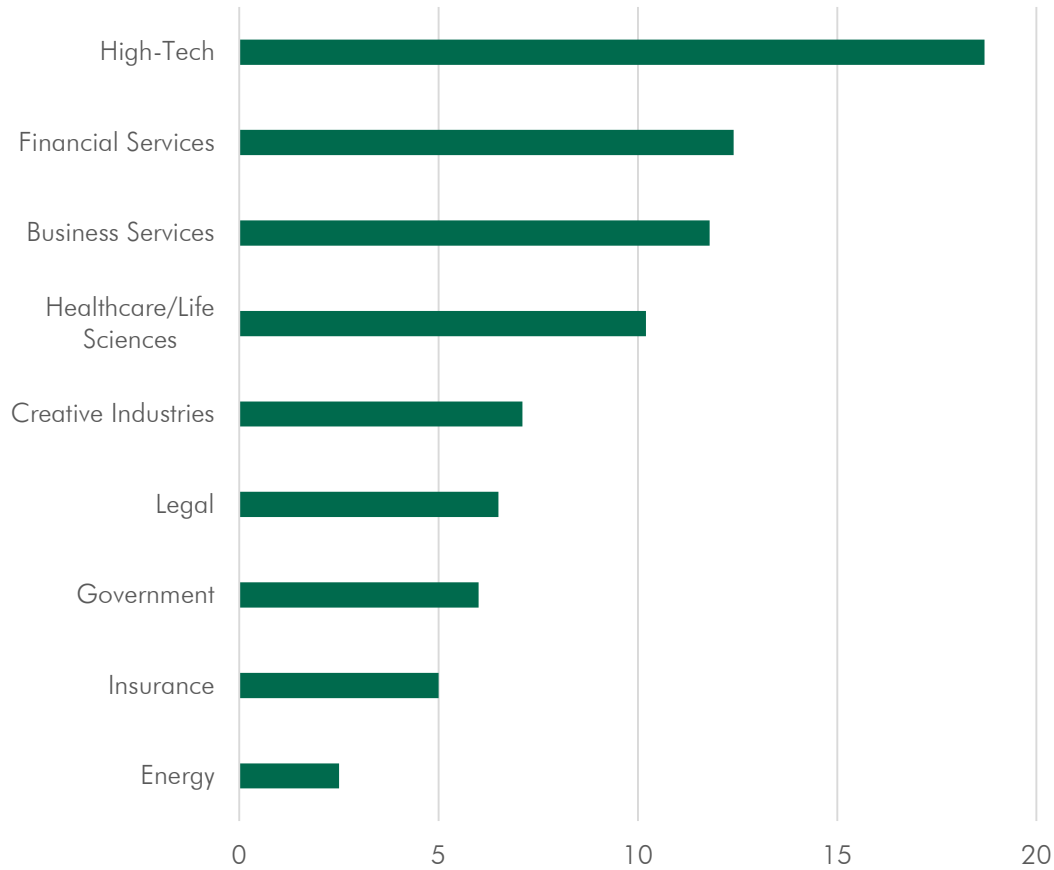
# IMPACT OF PREVIOUS RECESSIONS ON OFFICE MARKETS



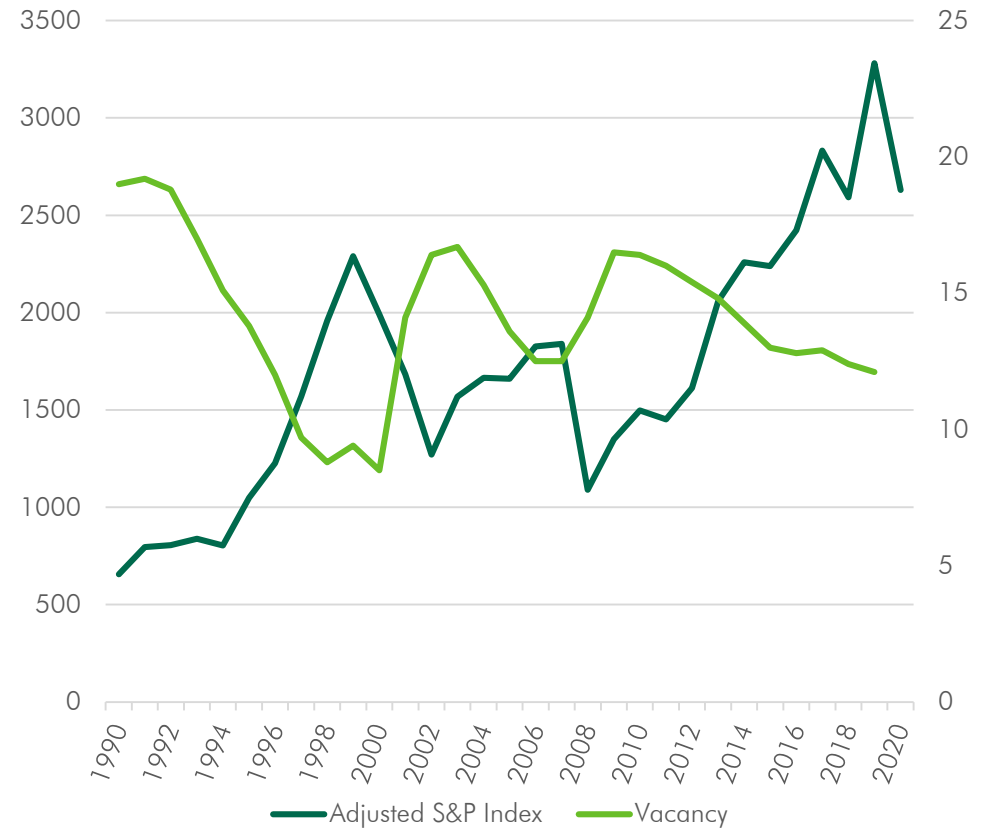
Source: CBRE EA.

# UNKNOWN: TECH SECTOR

U.S. Office Leasing Share By Industry, %



S&P Index and Office Sum of Markets Vacancy

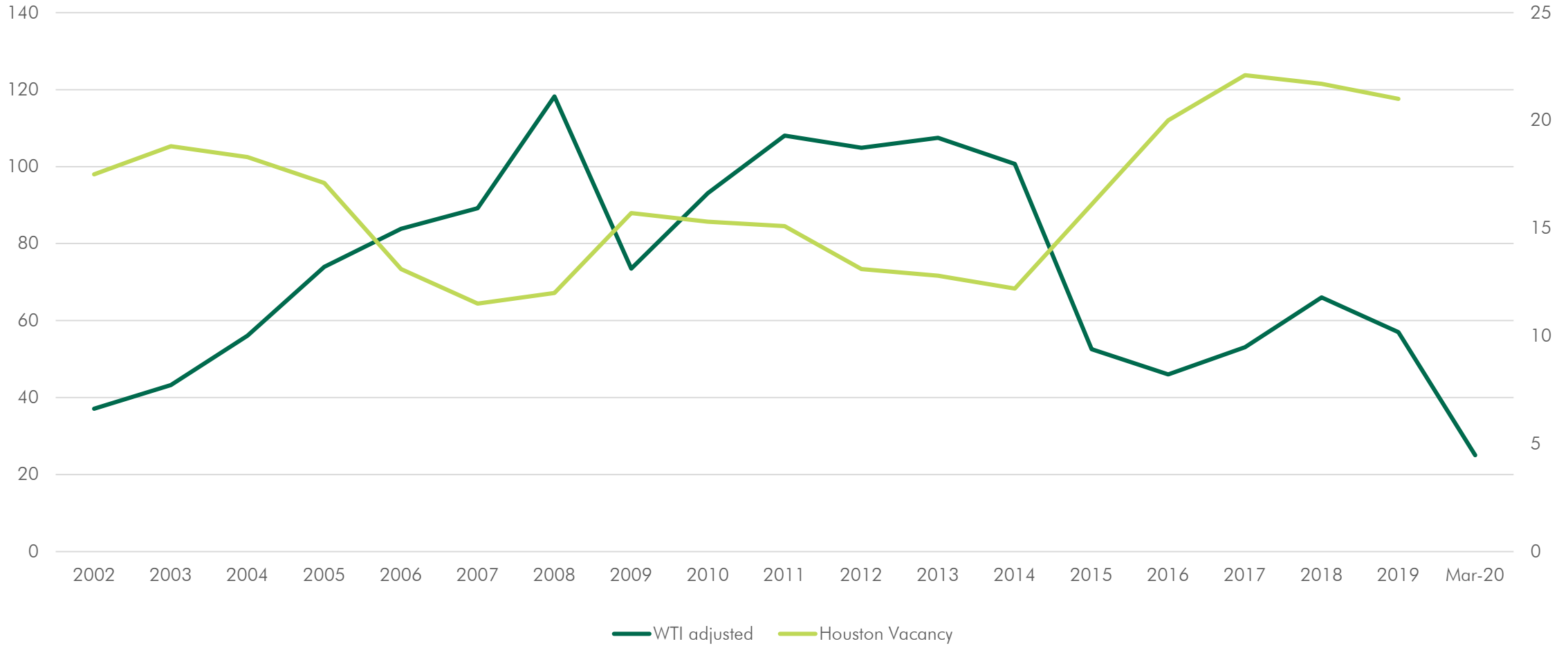


Source: CBRE Research, CBRE EA, Dow Jones & Company, Bureau of Labor Statistics.



# UNKNOWN: ENERGY SECTOR

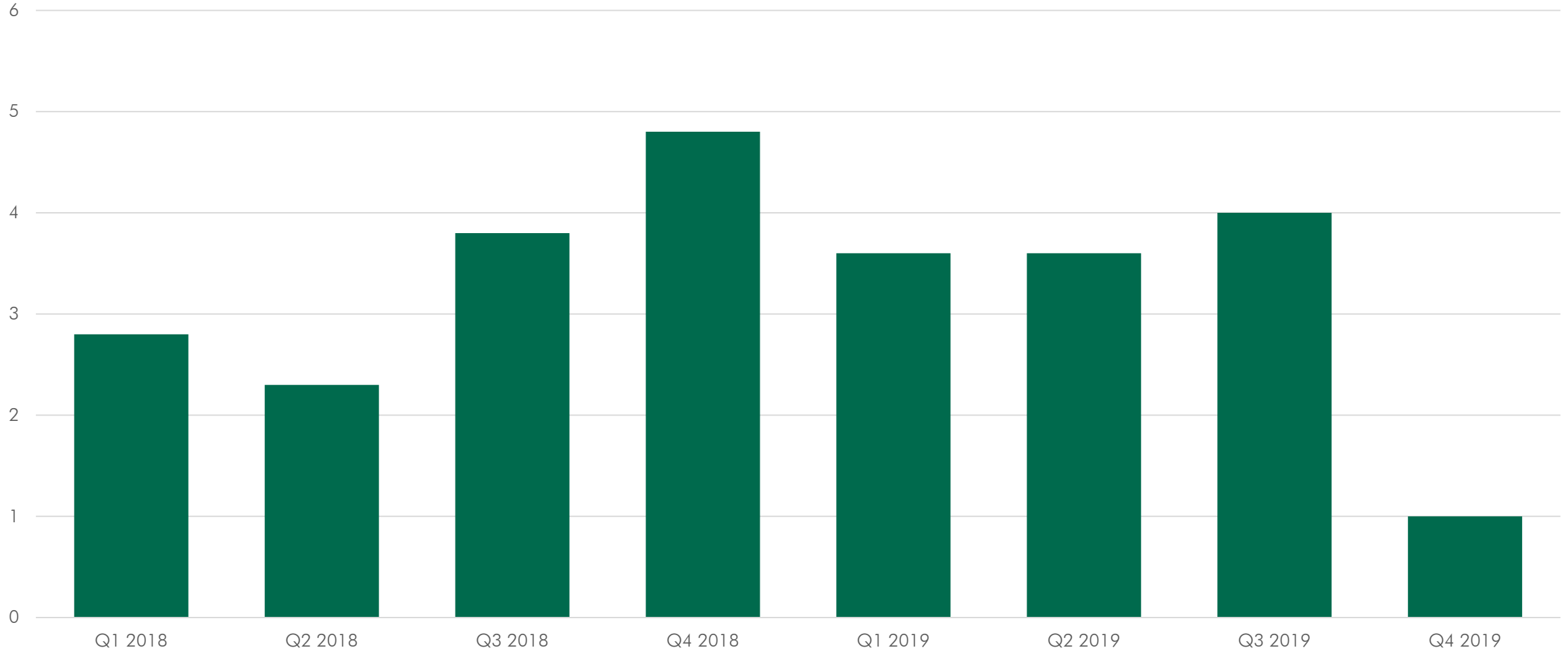
## Houston Office Vacancy Rate And West Texas Intermediate Oil Price



Source: CBRE EA, Dow Jones & Company, Bureau of Labor Statistics.

# UNKNOWN: FLEXIBLE SPACE

## Flexible Office Leasing, MSF



Source: CBRE Research Q4 2019.

## **SUMMARY AND CONCLUDING REMARKS**

### **Summary**

- Currently we forecast a mild to medium impact on the office sector during the short-term shock, with consequent recovery
- The impact of past recessions varied by market and property type and depended on market industry mix and the cause of the recession
- Energy, Tech and Leisure and Hospitality and Flexible Space are sectors to watch

### **Potential Beacons in Office Investment:**

- Life Science and Lab Space
- Corporate Flexible Space

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## **COVID-19 IMPLICATIONS FOR MULTIFAMILY**

**NATHAN ADKINS, ECONOMIST,  
CBRE ECONOMETRIC ADVISORS**



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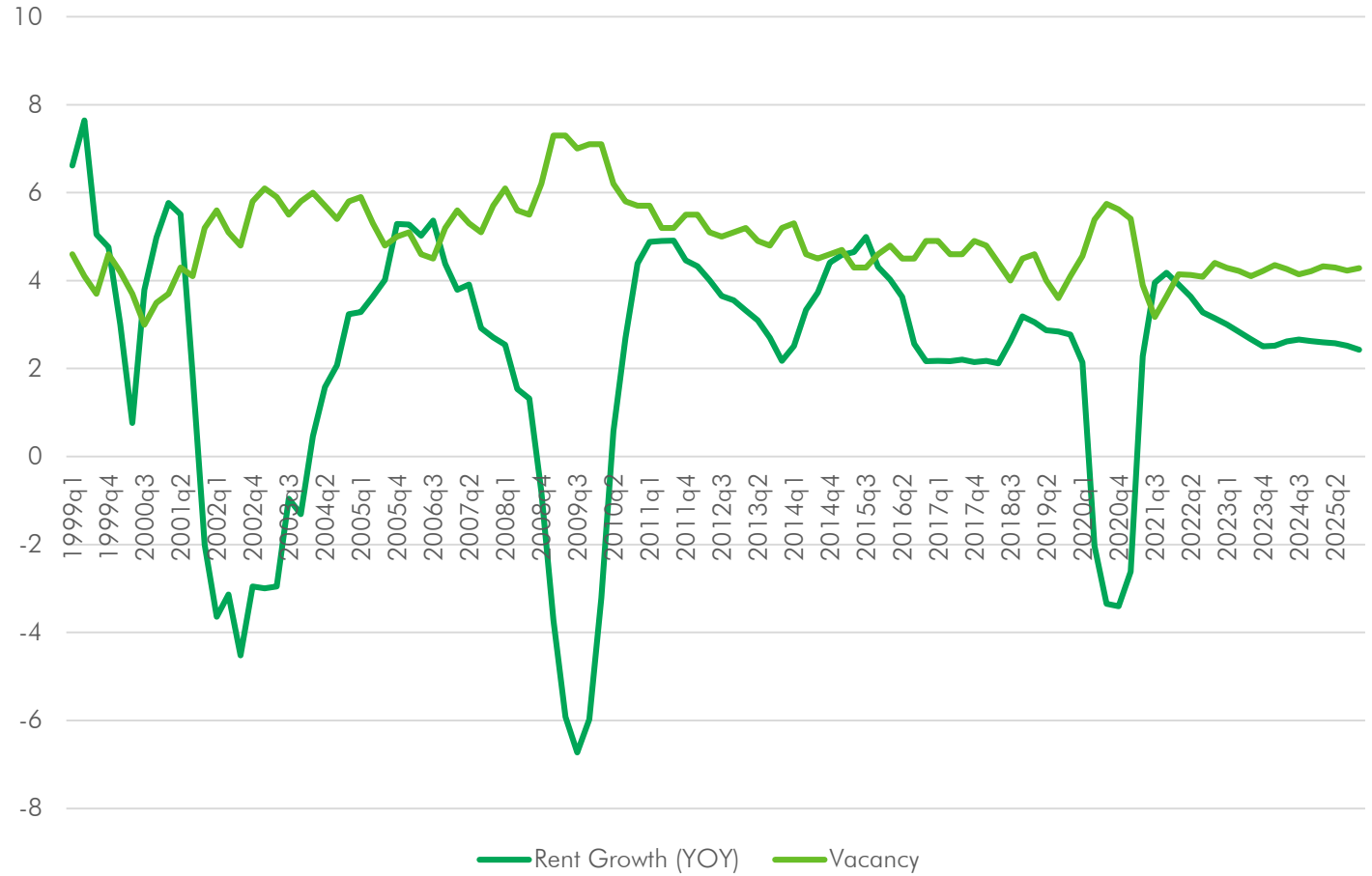
# MULTIFAMILY: SHORT TERM



- Turn around in Q3-Q4 2020
- Rent growth -3.4%
- Vacancy 5.7%
- 2% stock growth in the next year
- Speed bump/dip while employment uncertainty subsides
- Housing policy/stimulus could ease uncertainty

Source: CBRE EA, RealPage Inc.

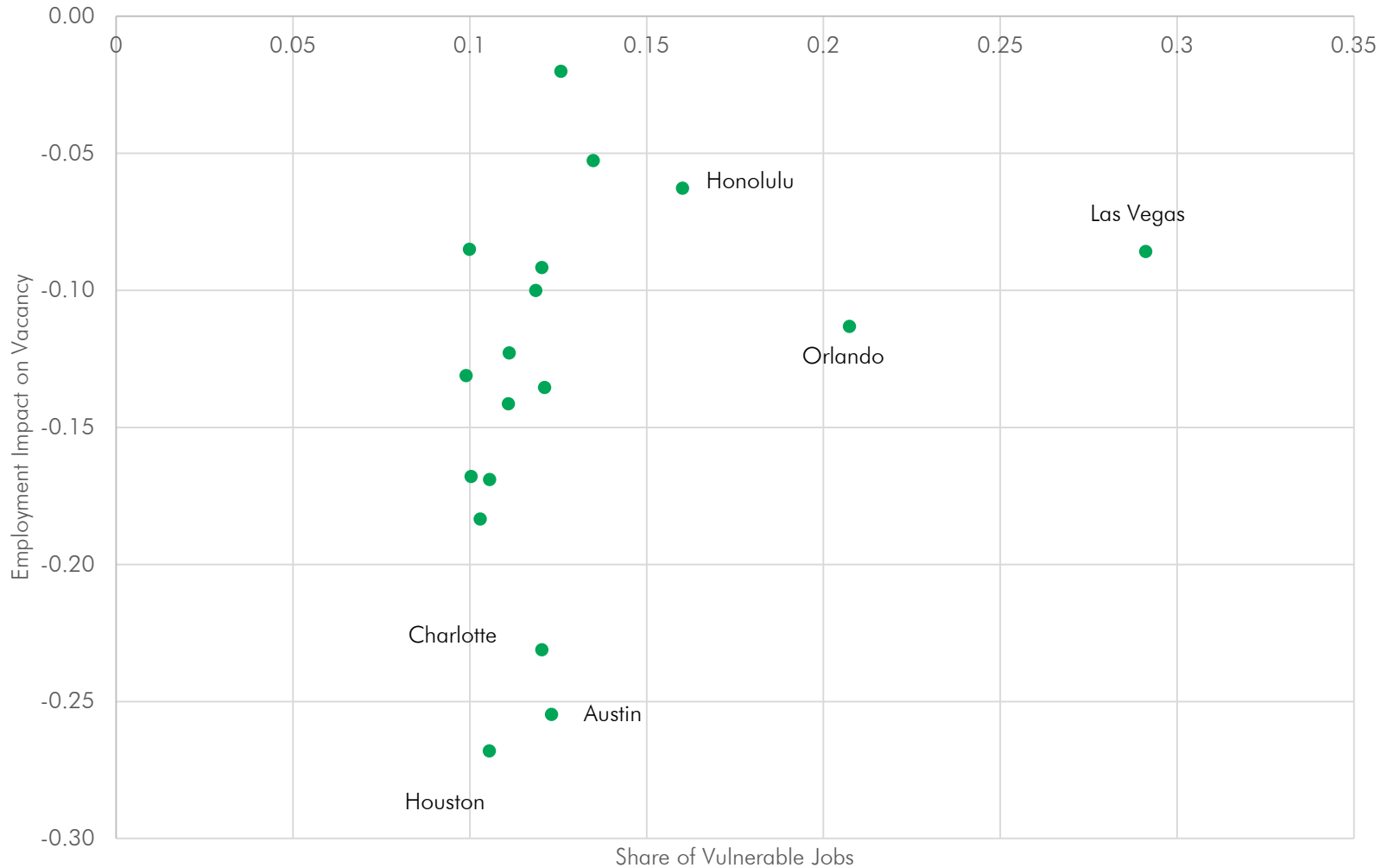
# MULTIFAMILY: LONG TERM



- Preferences for city-living remain
- Return to long-run equilibrium in 2023
- Long-run vacancy: 4.25%
- Long-run rent growth: 2.75%

Source: CBRE EA, RealPage Inc.

# VULNERABLE MARKETS (SHORT TERM)



Sources: CBRE EA, RealPage Inc., Bureau of Labor Statistics.

- No market is exposed on both fronts
- Employment impact reflects growth in recent markets
- Vulnerable industries: food service, hospitality, entertainment

**MARCH 27, 2020**



## **COVID-19 IMPLICATIONS FOR INDUSTRIAL**

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**CBRE**





# **CORONAVIRUS INDUSTRIAL REAL ESTATE IMPLICATIONS**

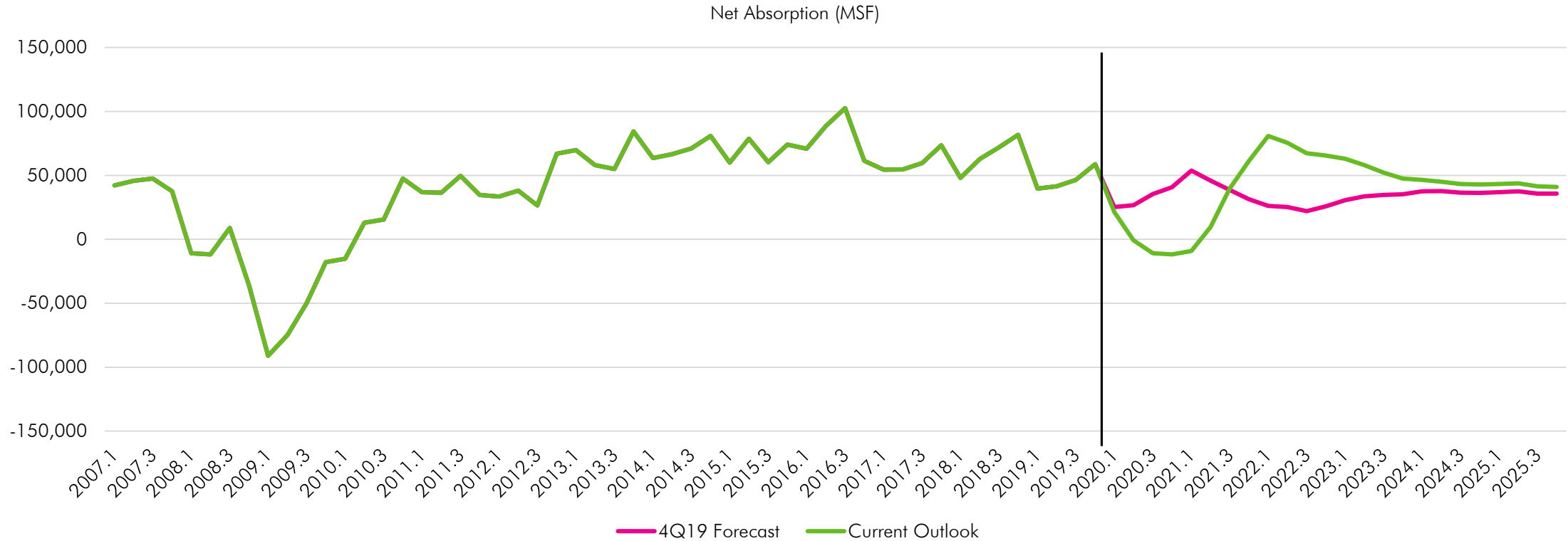
## **Short-Term Impacts**

- Slumping manufacturing activity
- E-commerce gaining significant share, in a declining retail environment
- Near-term delays of lease activity, perhaps construction

## **Long-Term Impacts**

- Push to carry higher inventory levels
- E-commerce representing a higher share of retail than previously thought

# INTERIM INDUSTRIAL FORECAST CHANGES – NET ABSORPTION

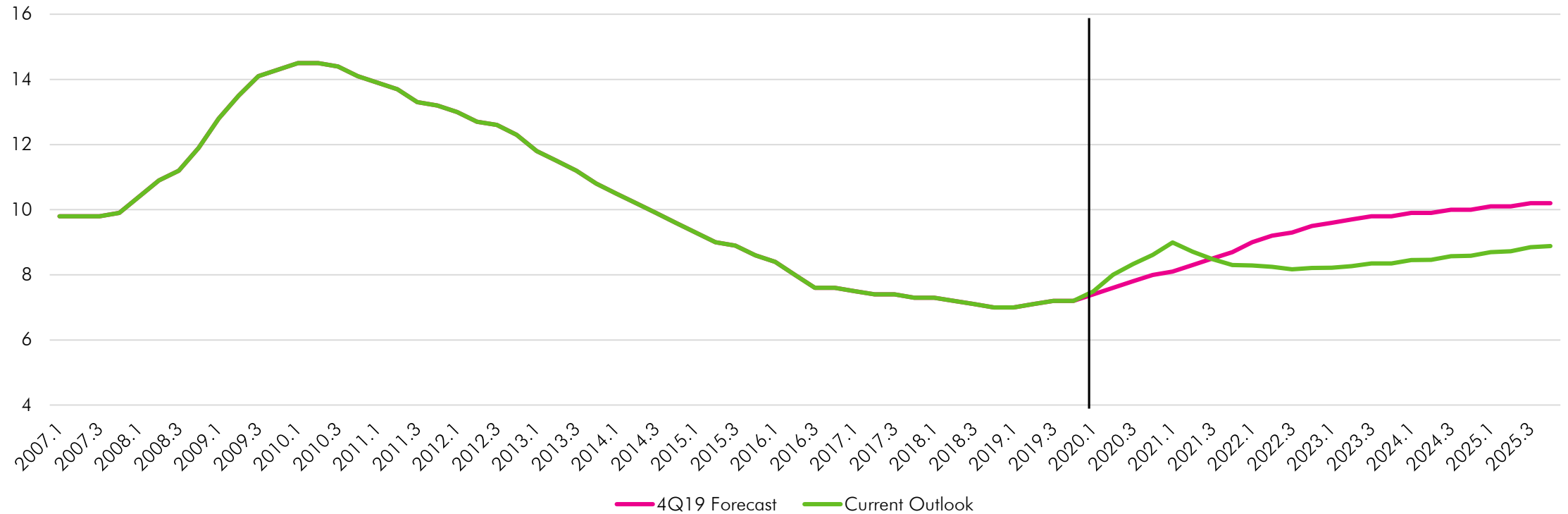


| Net Absorption (MSF per year) | 2020               | 2021              | 2022-2025        |
|-------------------------------|--------------------|-------------------|------------------|
| Previous                      | 128,233            | 169,384           | 131,750          |
| Current                       | -1,849             | 101,390           | 214,250          |
| <b>Change</b>                 | <b>-130,082.00</b> | <b>-67,994.00</b> | <b>82,500.00</b> |

Source: CBRE EA.

# INTERIM INDUSTRIAL FORECAST CHANGES – AVAILABILITY

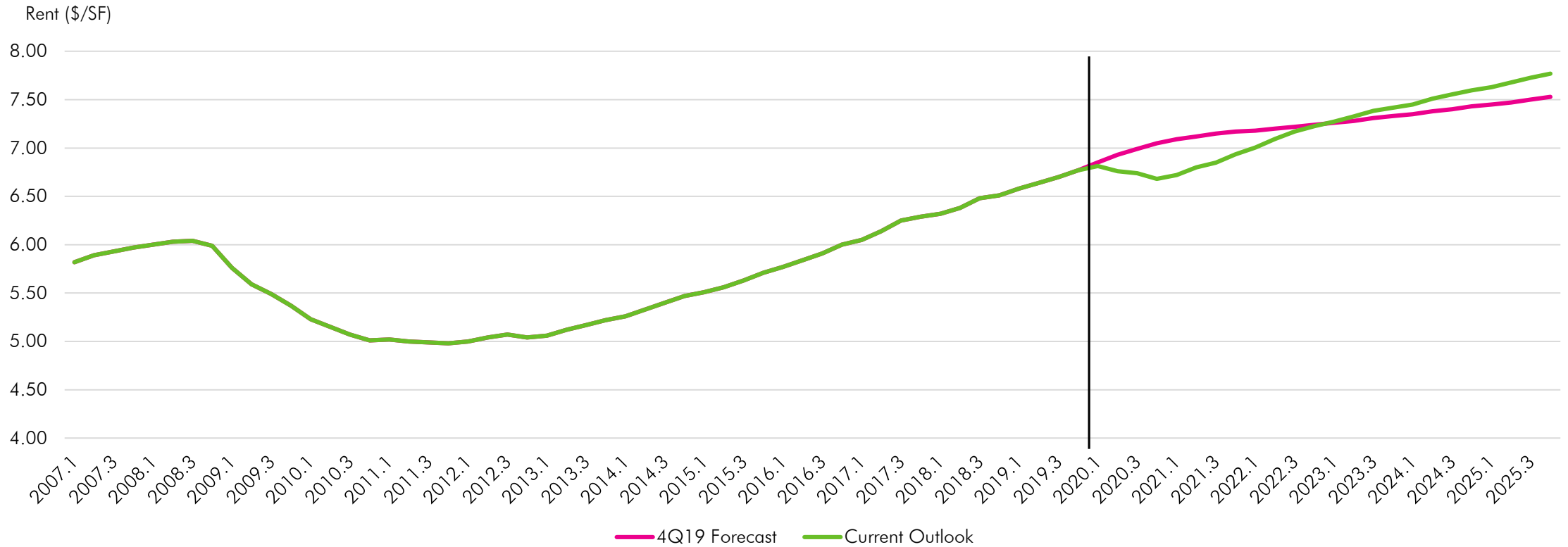
Availability Rate (%)



| Availability (%) | 2020 | 2021 | 2022-2025 |
|------------------|------|------|-----------|
| Previous         | 7.7  | 8.4  | 9.8       |
| Current          | 8.1  | 8.7  | 8.6       |
| Change           | 0.4  | 0.3  | -1.2      |

Source: CBRE EA.

# INTERIM INDUSTRIAL FORECAST CHANGES – RENT



| Rent (% 4Q/4Q) | 2020        | 2021       | 2022-2025  |
|----------------|-------------|------------|------------|
| Previous       | 4.1         | 2.6        | 1.2        |
| Current        | -1.3        | 3.8        | 2.9        |
| <b>Change</b>  | <b>-5.4</b> | <b>1.2</b> | <b>1.7</b> |

Source: CBRE EA.

## CONCLUDING THOUGHTS

### Summary

- Slumping economic environment and uncertainty over COVID-19 will curb near term industrial demand, leading to higher vacancy
- Longer term, the rebounding economy, shift toward e-commerce, and increased inventories will improve industrial real estate markets

### Risk Areas

- Sharp bounce back is projected for industrial after initial shock from COVID-19
- Largely hinges on a rapid economic recovery once the virus is contained
- A more prolonged economic downturn will have negative implications for the industrial outlook

MARCH 27, 2020

## CLOSING REMARKS

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