# ACCELERATION OF E-COMMERCE AND IMPLICATIONS FOR RETAIL & INDUSTRIAL

#### **PRESENTERS:**



**IBRAHIIM BAYAAN** 

Economist
CBRE Econometric Advisors



**CHRISTINA TONG** 

Economist
CBRE Econometric Advisors



# **OVERVIEW**

#### E-COMMERCE AND THE VALUE IN RETAIL SPACE

- Good news & bad news
- Value in retail space
- Real estate implications

#### INDUSTRIAL AND MODELING E-COMMERCE

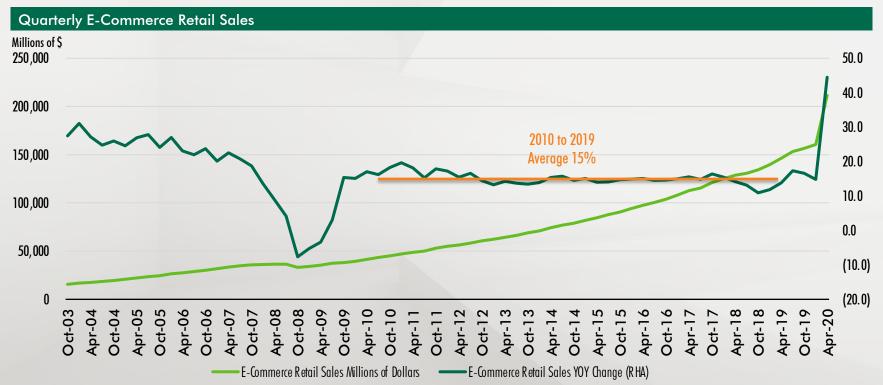
- Growing importance of e-commerce
- Short-term vs. long-term
- Modeling e-commerce in industrial market performance

#### UNDERSTANDING THE E-COMMERCE OUTLOOK

- The COVID-19 pandemic and the future path of e-commerce
- Impact on industrial market fundamentals



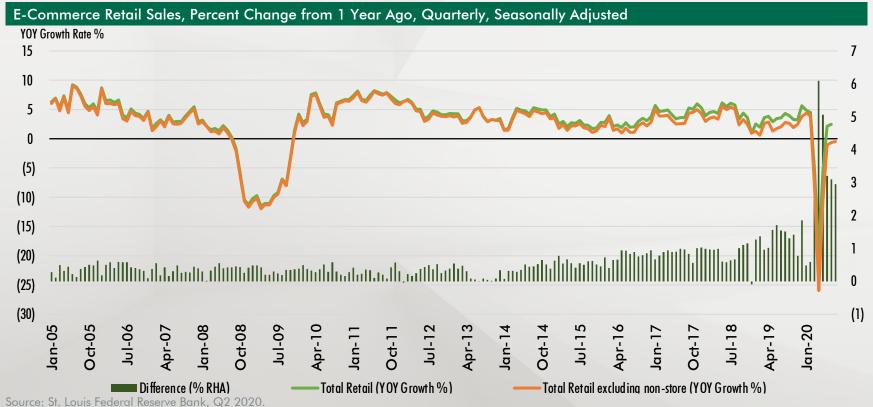
# E-COMMERCE GROWTH SURGES DURING PANDEMIC



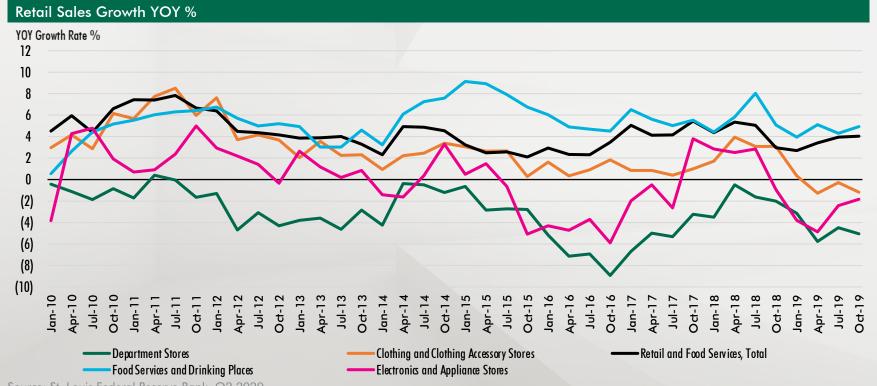
Source: St. Louis Federal Reserve Bank, Q2 2020.



# E-COMMERCE'S ROLE IN TOTAL RETAIL



# HOW E-COMMERCE CAME INTO PLAY—BEFORE THE PANDEMIC



Source: St. Louis Federal Reserve Bank, Q2 2020. **ECONOMETRIC ADVISORS** 



# SOME BAD NEWS FOR BRICK AND MORTAR STORES

NATIONAL & LARGE REGIONAL RETAILERS (EXCL. SMALL BUSINESS)



Approx. 9,000 announced & 4,250 actual retail store closures as of September 16<sup>th</sup>.



Lucy's









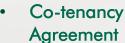




































**JAN** MAR **FEB** 



















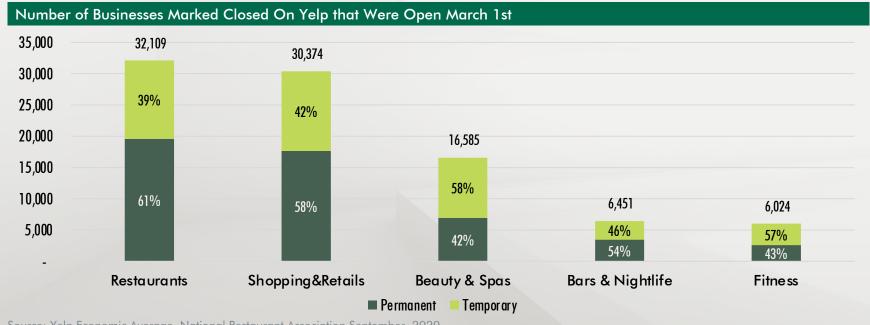
Source: CBRE Research, Creditntell, as of September 21, 2020.



## SOME BAD NEWS FOR BRICK AND MORTAR STORES

# **Experiential Retailers Hit Hard By Pandemic**

# **Consumers Still Fearing Indoor Spaces**

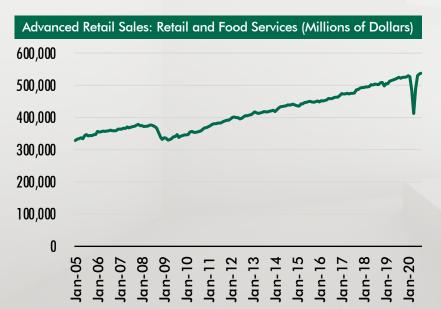


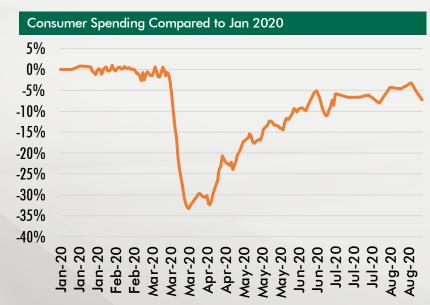
Source: Yelp Economic Average, National Restaurant Association September 2020.



## SOME GOOD NEWS FOR BRICK AND MORTAR STORES

# Macro Fundamentals Are Improving Rent Collections Recovering





Source: St. Louis Federal Reserve Bank, Nareit Rent Survey, Opportunity Insight, Q2 2020.



# SOME GOOD NEWS FOR BRICK AND MORTAR STORES

#### SOME RETAILERS AND THEIR PHYSICAL STORES ARE DOING WELL

- More and more retailers are focusing on omni-channel (BOPIS/Curbside/Drive-up)
- Retailers that focus on brick and mortar
  - Essential retailers
  - Off-price retailers
  - Health and wellness

#### E-COMMERCE IS COSTLY AND GETTING MORE COMPETITIVE

- Last mile problem: high and unpredictable cost along with higher consumer expectations
- · Reverse logistics: more returns than traditional stores; the depreciation of products; cost of shipment and handling of returns
- Consumer acquisition and retaining their loyalty will become more and more expensive

#### STILL VALUE FOR BRICK AND MORTAR STORES!



# A HEALTHY RETAIL INDUSTRY: MIX OF STORE AND E-COMMERCE

#### E-COMMERCE WILL CONTINUE TO TAKE MORE SHARE IN RETAIL SALES IN THE LONG RUN

- The habit of shopping online will persist
- Our current baseline estimates that in 2030, the e-commerce penetration will reach 30%

#### RETAILERS LEVERAGING BRICK AND MORTAR STORES FOR MORE PURPOSES

BOPIS/Curbside/Drive-by
Fulfillment, Distribution and Return Center

Marketing tool
Community center

Unique experience

Convenience

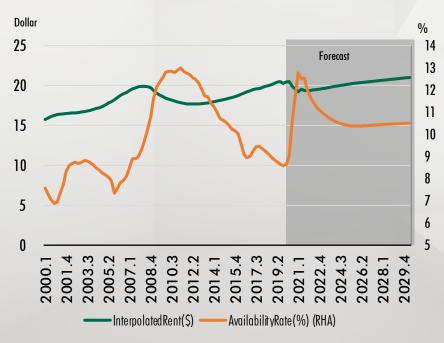
Engagement

Experience



# **REAL ESTATE IMPLICATIONS**

# SHORT TERM REAL ESTATE FUNDAMENTALS ARE NOT GOOD



#### **OPPORTUNITIES**

- Opportunities depending on several factors
  - Location
    - Urban Vs Suburban
    - Breaking up with the malls
  - A healthy tenant mix
    - Essential retailers
    - Expanding retailers
    - Retailers that attract foot traffic

- Quality of real estate
  - Space for omnichannel
  - Open-air
  - Small format

Source: CBRE Econometric Advisors, Q2 2020.



# **E-COMMERCE IN INDUSTRIAL**

#### GROWTH IN E-COMMERCE PRODUCES SIGNIFICANT TAILWIND FOR INDUSTRIAL DEMAND.

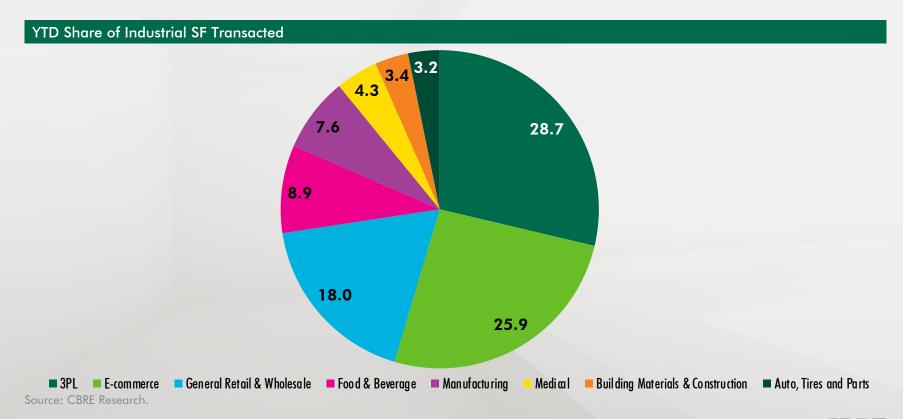
- Fulfillment of last-mile delivery requires rethinking of retail supply chains
- E-commerce typically requires more industrial space than traditional

#### COVID-19 PANDEMIC HAS BROUGHT E-COMMERCE AND INDUSTRIAL INTO THE FOREFRONT

- Social distancing and statewide lockdowns caused a Q2 surge in e-commerce spending
- Retailers and logistics providers have aggressively pursued expanding e-commerce capabilities



# TRANSACTION DATA SHOWS IMPORTANCE OF E-COMMERCE



# IMPLICATIONS FOR INDUSTRIAL

#### SHORT TERM BUFFER

- Demand for warehousing space sustaining industrial absorption
- Minimal impact to sector despite massive hit to broader economy

#### LONG TERM TAILWIND

- Accelerates existing trend of share gain in retail
- Retailers rethinking existing supply chains, increasing investment in e-commerce-focused facilities
- Lower availability, higher rent growth over the next several years



# MODELING E-COMMERCE IN INDUSTRIAL



# PREVIOUS MODEL STRUCTURE - INDUSTRIAL

#### INTERRELATIONSHIP BETWEEN MARKET FUNDAMENTALS

- Previous models estimated the relationship between rent growth, availability, and construction
- Models consider recent performance in market fundamentals and revert to long-run averages for fundamentals

#### EMPLOYMENT-BASED MACROECONOMIC INFLUENCES

- Models also consider the relationship between market fundamentals and the macroeconomy
- Local macroeconomic conditions are captured by metro-area employment
- CBRE forecasts metro employment, used to guide fundamentals forecasts



## **MODEL UPDATES**

#### CURRENT MODELS USE E-COMMERCE AS AN ADDITIONAL EXOGENOUS VARIABLE

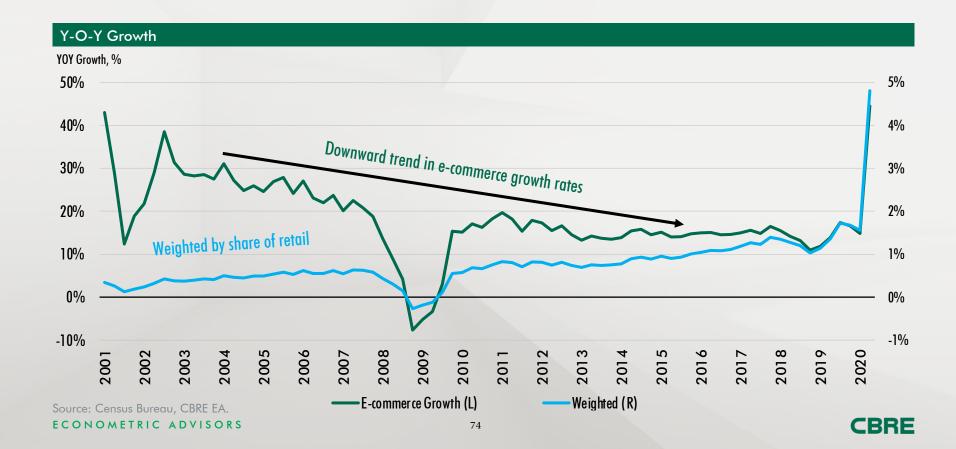
- CBRE EA generates forecasts on inflation adjusted national e-commerce retail sales and share of total retail
- E-commerce growth is weighted and included into metro area forecasts as an exogenous variable
- Previous model structure left largely intact, with local employment still used in market models

#### USE OF E-COMMERCE VARIES BY MARKET

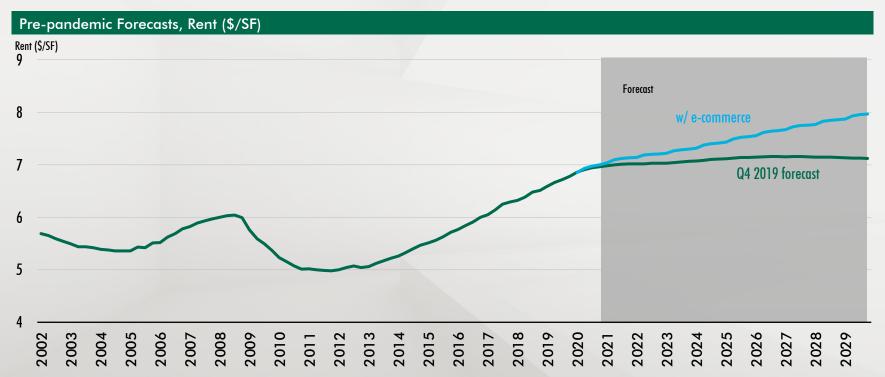
- Like employment, individual metros vary considerably with respect to how they respond to e-commerce
- · Several markets show no statistical relationship between e-commerce and market fundamentals



# **E-COMMERCE DATA IS WEIGHTED FOR MODELING PURPOSES**



# INCLUDING E-COMMERCE BOOSTS INDUSTRIAL MARKETS



Source: CBRE EA, Q4 2019.

## COVID-19 PANDEMIC HIGHLIGHTS FOCUS ON E-COMMERCE

#### SEVERAL OPEN QUESTIONS REMAIN ABOUT THE FUTURE OF E-COMMERCE

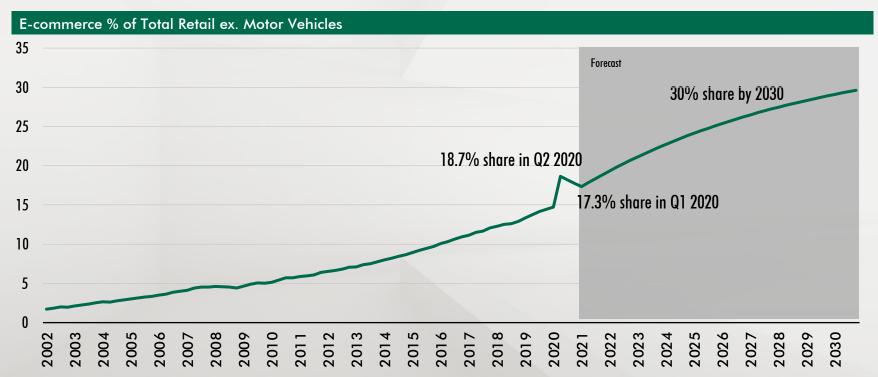
- In the short run, how much of the recent spike in e-commerce returns to brick and mortar stores when the pandemic passes?
- In the long run, where does e-commerce settle as a share of retail spending and at what speed does e-commerce gain share going forward?

#### EA'S E-COMMERCE FORECAST HINGES ON SEVERAL ASSUMPTIONS ABOUT THE FUTURE OF E-COMMERCE

- Size of pandemic spike
- Retreat from short-term spike
- · E-commerce terminal share of retail
- · Speed of share gain

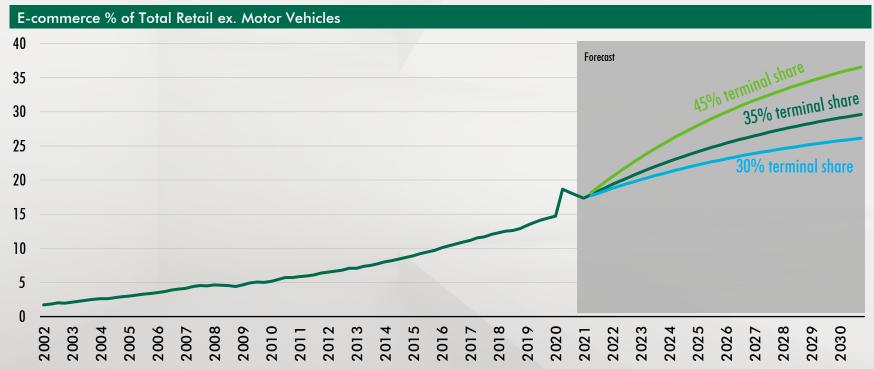


# E-COMMERCE OUTLOOK CALLS FOR LASTING SHIFT IN SHARE OF RETAIL



Source: CBRE EA.

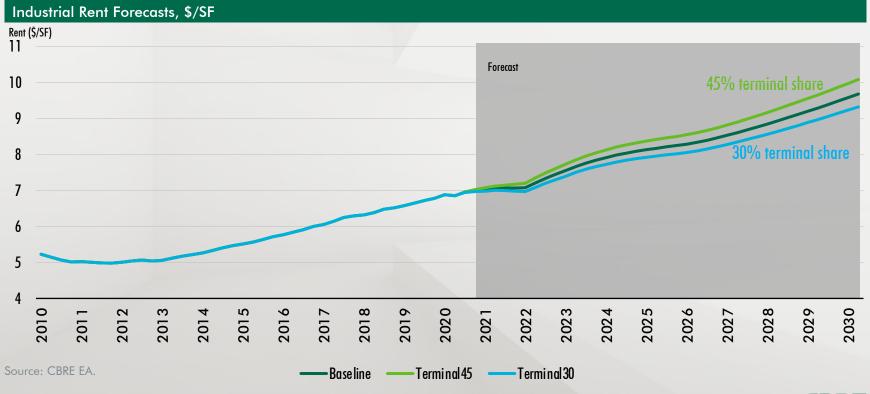
# **ALTERNATIVE SCENARIOS – LONG-RUN SHARE**



Source: CBRE EA.



# ALTERNATIVE E-COMMERCE SCENARIOS - IMPACT ON MARKET FUNDAMENTALS



## **FUTURE WORK**

#### FORECASTER INTEGRATION

Would allow for custom e-commerce-based scenarios outside of broader macroeconomic environment

#### ESTIMATING LOCAL E-COMMERCE ACTIVITY

- · Current models look at the impact of national e-commerce trends on market activity
- Local or regional e-commerce activity may be more relevant for certain markets

#### INVESTIGATING BUY ONLINE, PICKUP IN STORE IN E-COMMERCE

- Some of the recent surge has been driven by online purchases with curbside pickup
- · These types of purchases may have a different effect on industrial demand

