# Economic Update 2020 Automotive Outlook Webinar

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> The views expressed here are our own and do not necessarily reflect the views of the Federal Reserve Bank of Chicago, the Federal Open Market Committee (FOMC) or the Federal Reserve System.

### Overview

- Real GDP for the U.S. fell 4.8% in Q1 2020 and a SAAR Basis, the largest quarterly decline since Q4 2018 with declines in Personal Consumption Expenditures and Private Domestic Investment being somewhat offset by contributions from Net Exports and Government Consumption and Investment.
- University of Michigan's April release of its Index of Consumer Sentiment had it largest single month decline since October 2008 falling to its lowest level since November 2011 on fears of a worsening economy.
- Business fixed investment declined 5.6% in Q1 2020 with nonresidential investment falling 8.6%, it largest decline since Q2 2009, while residential investment increased 21.0% on a SAAR basis.
- The U.S. trade deficit fell by \$83 billion as imports declined 15.3% while exports declined just 8.7%
- Labor markets suffer their largest declines in history as over 26 million workers filed unemployment claims in just five weeks and inflation remains below the Fed's target of 2.0%.

## U.S. Real GDP

#### Contribution to Percent Change - Q/Q at SAAR, \$2012

Percent



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## **Consumer Sentiment**

#### University of Michigan



Source: Thomson Reuters / University of Michigan

### Real Disposable Personal Income

#### In Billions of Chained 2012 Dollars - Percent Change Yr./Yr.



Source: Bureau of Economic Analysis.

### Stock Market

#### NYSE Stock Price Index, Daily Close - January 2020 = 100



Source: Haver Analytics data taken from the Wall Street Journal and Coindesk.

# **Restoring Consumer Confidence**

#### University of Michigan

Percent



Source: Thomson Reuters / University of Michigan

# Purchasing Managers Index

#### ISM Manufacturing and Composite Indexes



#### Note:

ISM Manufacturing and Composite Index value greater than 50 means expansion.

Source: Institute for Supply Management, Richmond Federal Reserve, and Haver Analytics.

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### Real Gross Private Domestic Investment

#### Contribution to Percent Change to GDP - Q/Q at SAAR, \$2012



Source: U.S. Bureau of Economic Analysis

### Industrial Production - Total

#### Index 2012 = 100 & Percent Change M/M



### Industrial Production - Automotive

#### Millions of Units – SAAR & Percent Change M/M



# Housing Starts

#### Thousands of Units – SAAR & Percent Change M/M



### Total Real Trade - Imports and Exports

#### Percent Change Q/Q – SAAR

Percent 16.0 12.3 12.0 8.0 5.3 4.9 2.6-4.0 2-6--1.4 0.8 0.0 -0.8 -4.0 -24 -4.1 -8.0 \_\_\_\_\_ -12.0 \_\_\_\_\_ -12.6 -16.0 2016 2017 2018 2019 2020 Total Trade — Pre-Tariffs Average 2.8% --- Post-Tariffs & Pre-COVID-19 Average 0.5%

# U.S. Nonfarm Payrolls

#### Monthly Change (000)'s and Percent Change M/M



Source: U.S. Department of Labor: Bureau of Labor Statistics

# U.S. Unemployment

#### In percent of Labor Force

Percent





# Initial Unemployment Claims

#### Weekly Claims and Continued Claims, In Thousands



Note: In the three weeks since March 14, 2020, 30,307,000 workers have filed for unemployment.

Source: U.S. Labor and Training Administration

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### Labor Force Participation Rate

#### In Thousands

Percent



Note: Since January 2020 the labor forces has declined by 380,000 workers.

Source: U.S. Bureau of Labor Statistics

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# Inflation Expectations

#### **TIPS 5-10 Year Inflation Compensation**



#### Source: Survey of Consumers - University of Michigan and Federal Reserve Board

### U.S. Gasoline and Crude Oil Prices

#### Unleaded Regular & WTI Spot Price – In Current Dollars



New York Harbor Conventional Gasoline Regular Spot Price FOB (US\$/Gal) Cushing OK WTI Spot Price FOB (US\$ per Barrel)

Source: Energy Information Administration and Haver Analytics

### Light Sweet Crude Oil Futures

#### WTI, Cushing, OK - 1st Expiring to 2-year Contract Settlement



Note: On April 20, 2020 the 1st expiring futures fell to -\$37.63.

Source: Chicago Mercantile Exchange

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### U.S. Light Vehicle Sales

#### In Millions of Units - SAAR



■ 2016 ■ 2020

#### Source: Standard & Poor's and Haver Analytics

# **Real Incentive Spend**

#### $Index - 2012 = 100^*$ & Seasonal Pattern



\* Incentive spend inflation adjusted using average new vehicle price.

Source: Author's Calculations using J.D. Power and FOMC data.

### Stock Market Volatility

#### S&P 500 Daily Change – Mar 1, 2019 to Apr 20, 2020



Source: Standard & Poor's and Haver Analytics

### Federal Funds & Prime Credit Rates

#### Mar 6, 2019 to Apr 15, 2020



### Unclogging the Treasury and MBS Markets

#### Normal times:



Source: Federal Reserve Bank of Chicago, Sam Schulhofer-Wohl, Senior Vice President and Director of Financial Policy

# **Temporary Open Market Operations**

#### In Billions of Dollars, Weekly Operations



Source: Federal Reserve Bank of New York and Haver Analytics

### Unclogging the Treasury and MBS Markets



Source: Federal Reserve Bank of Chicago, Sam Schulhofer-Wohl, Senior Vice President and Director of Financial Policy

### Yield Curve

#### 10 Year Minus 1 Yr. and 3 Mo. Treasuries in Basis Points



Source: Board of Governors - Federal Reserve System

### National Financial Conditions Index

#### Federal Reserve Bank of Chicago, Positive = Tighter



Source: Federal Reserve Bank of Chicago

### U.S. Real GDP – Blue Chip Forecast

#### Percent Change Q/Q - SAAR

#### Percent



Source: January 10, 2020 and April 10, 2020 Blue Chip Forecast

# U.S. COVID-19 Cases

#### Center for Disease Control

Earliest date social distancing may be relaxed with containment strategies that include testing, contact tracing, isolation, and limiting gathering size. Threshold of 1 infection per million residents.



Source: Institute for Health Metrics and Evaluation (IHME), April 23, 2020.

# **CDC** Death Projections

#### **Contact Reduction Scenarios**

140.0 120.0 112.2 **98.0**<sup>101.9</sup> 100.0 88.5 89.5 92.0 74.5 74.6 74.9 80.0 65.0 63.6 59.9 **51.3 55.2 55.2 55.2** 60.0 40.0 20.0 0.0 4/25/2020 5/2/2020 5/16/2020 5/9/2020 ■ IHME ■ CU 40% Reduction CU 30% Redustion ■ CU 20% Reduction

Source: Center for Disease Control (CDC), Institute for Health Metrics and Evaluation (IHME), and Columbia University

Thousands

### Summary

- U.S. economic activity has suffered an unprecedented decline since the start of the COVID-19 pandemic.
- Labor markets are showing sighs of extreme stress as companies cut workers and prepare for and extended period of lost revenue.
- The Federal Reserve has taken extreme actions, using its full range of tools to support the U.S. economy in an effort to promote maximum employment and price stability.
- With some states still experiencing day-to-day increases in COVID-19 cases, others are looking for ways to re-open their economies.
- However, concerns of a resurgence of the virus remain high, especially if states open their economies too soon without the appropriate amount of testing, contact tracing, isolation, and contact reduction.

Source: Federal Reserve

Thank You!



### U.S. Real GDP

#### Billions Chained \$2012 and Percent Change Q/Q at SAAR



Source: U.S. Bureau of Economic Analysis

### Chicago Fed National Activity Index



Source: Federal Reserve Bank of Chicago

### Real Advanced Retail Sales

#### In Millions of Dollars and Percent Change M/M



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# U.S. Light Vehicle Sales

#### Millions of Units

Millions



Source: WardsAuto Intelligence, BEA, and April 10, 2020 Blue Chip Consensus Forecast