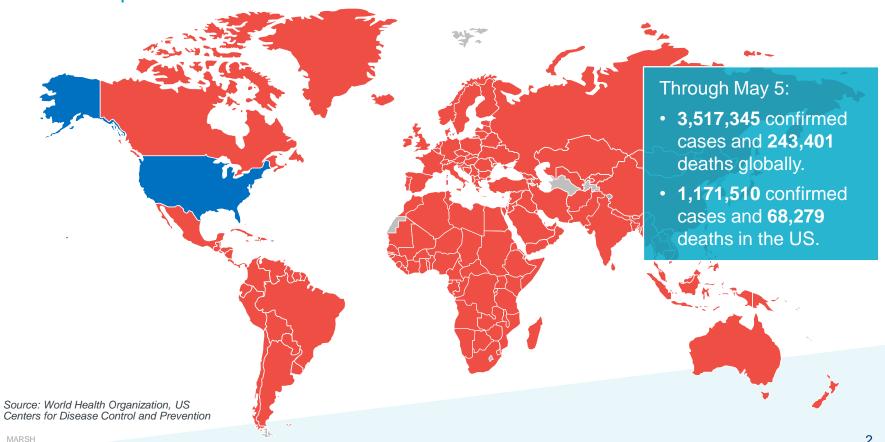
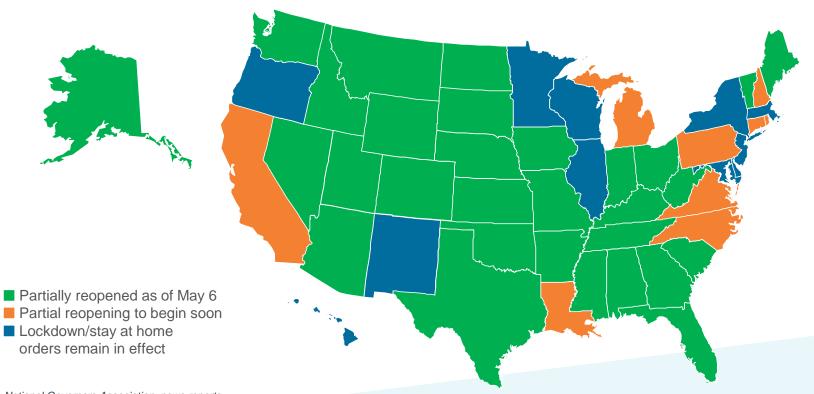


# COVID-19's Economic Impact Situation Update



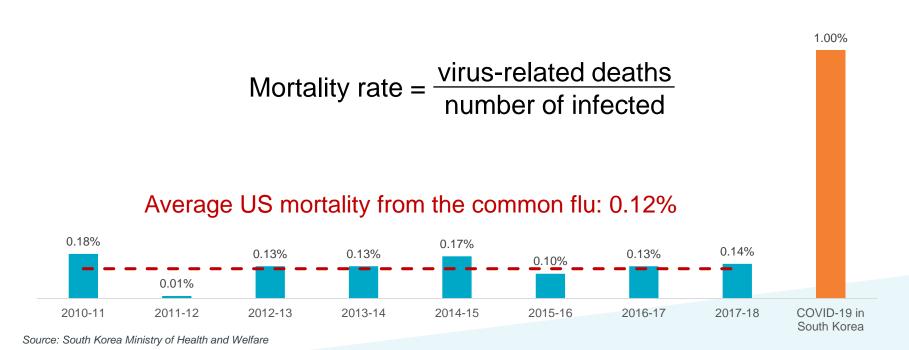
### COVID-19's Economic Impact States Beginning to Reopen



Source: National Governors Association, news reports

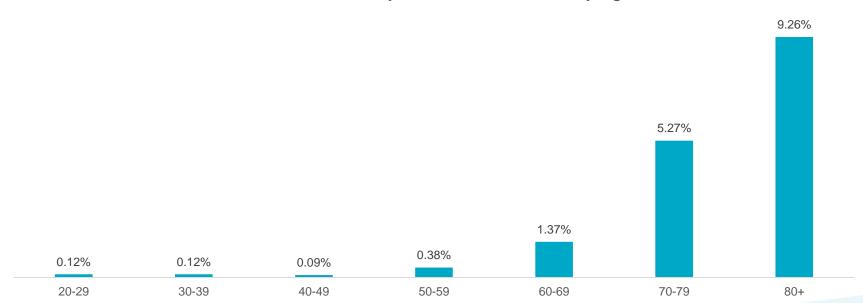
### COVID-19's Economic Impact What We Can Learn From South Korea

South Korea Mortality Rates From COVID-19 and Past Flu Seasons



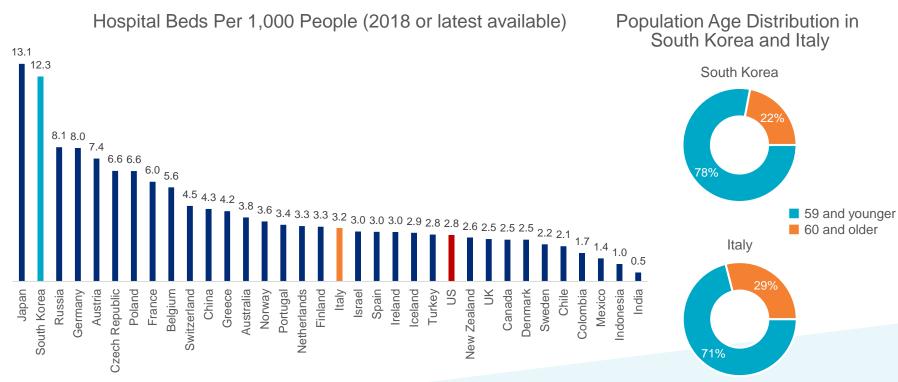
### COVID-19's Economic Impact What We Can Learn From South Korea

COVID-19 Mortality Rate in South Korea by Age



Source: South Korea Ministry of Health and Welfare

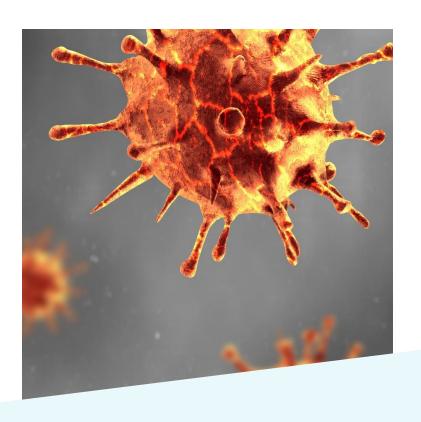
### COVID-19's Economic Impact How South Korea Compares to Other Countries



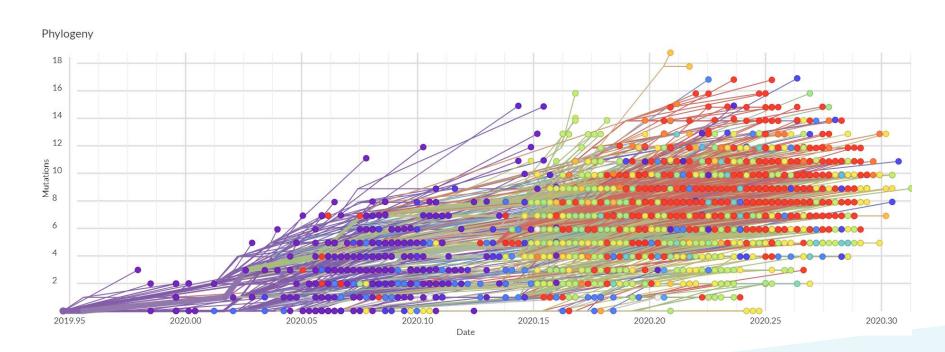
Source: Organisation for Economic Co-operation and Development, United Nations

### COVID-19's Economic Impact How Do Pandemics and Epidemics End?

- The virus mutates and becomes less lethal.
- 2 Effective vaccines or treatments are discovered.
- The population acquires "herd immunity."



### COVID-19's Economic Impact Virus Mutations



Source: nextstrain.org/GISAID

## COVID-19's Economic Impact How Close Is Herd Immunity?



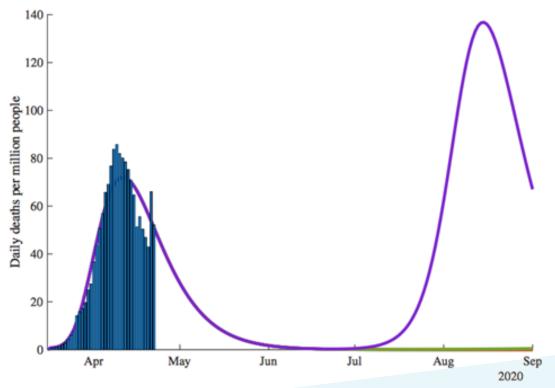
Through May 5, COVID-19 has resulted in **13,724** confirmed deaths in New York City.

Assuming a mortality rate of 0.8%, **1.7 million** New Yorkers have been infected — or roughly **20%** of the population.

Source: New York City Health Department

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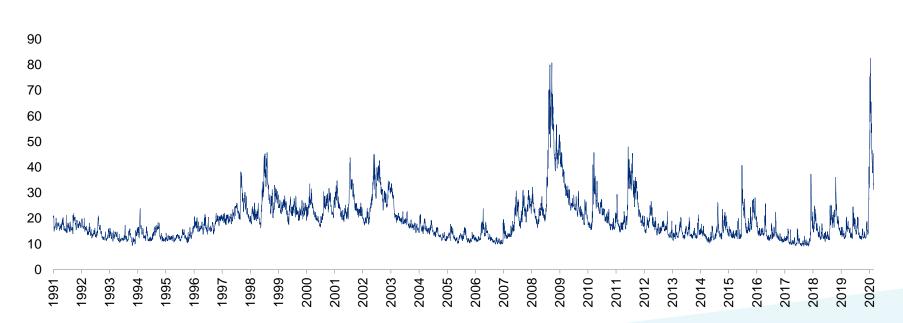
## COVID-19's Economic Impact How Eliminating Containment Will Affect COVID-19 Deaths in New York City



Source: Jesus Fernandez-Villaverde and Charles I. Jones, "Estimating and Simulating a SIRD Model of COVID-19 for Many Countries, States, and Cities," Stanford University, 2020

# COVID-19's Economic Impact US Stock Market Volatility

#### CBOE S&P 100 Volatility Index (VIX)



Source: Choe Global Markets

#### COVID-19's Economic Impact How Americans Manage Their Savings

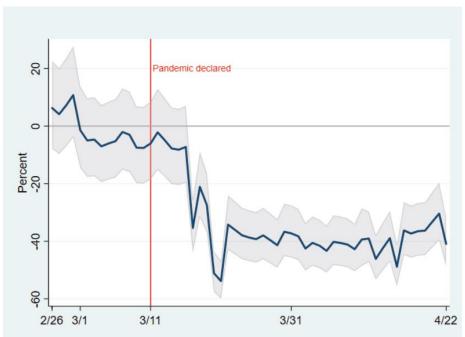
US Personal Savings Rate, 1980 to Present



Source: Federal Reserve Bank of St. Louis/US Bureau of Economic Analysis

## COVID-19's Economic Impact Oil Prices and Consumer Spending at Gas Stations Falling

Daily Card Transactions at US Gas Stations



Source: US Bureau of Economic Analysis, US Energy Information Administration

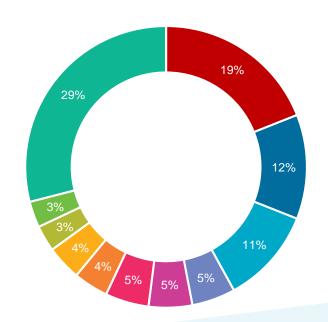
West Texas Intermediate Crude Oil Spot Prices (dollars per barrel)



# COVID-19's Economic Impact The US Is the World's Leading Oil Producer

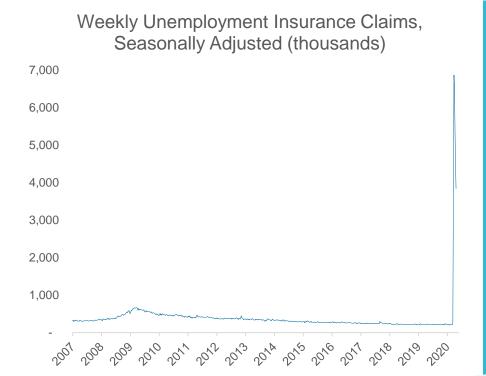
#### Global Oil Production by Country, 2019

- United States
- Saudi Arabia
- Russia
- Canada
- China
- Iraq
- United Arab Emirates
- Brazil
- Iran
- Kuwait
- Other



Source: US Energy Information Administration

### COVID-19's Economic Impact Significant Risk for People, Businesses, and Economies



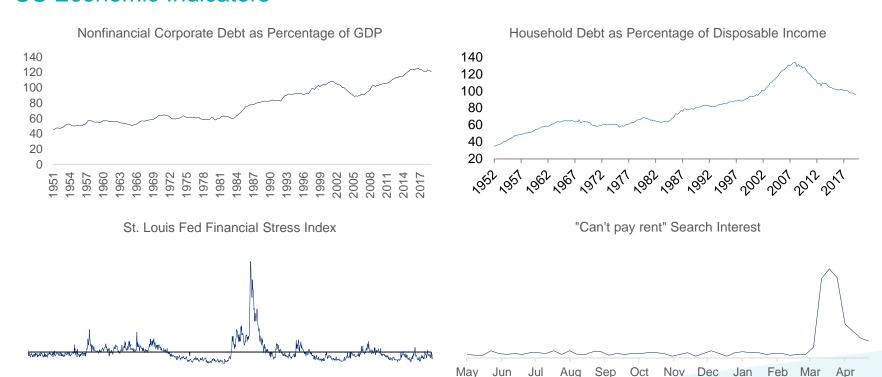
#### Who's at Risk?

- Households in countries with high debt and weak safety nets.
- Businesses with:
  - High fixed costs (operational leverage).
  - High debt.

Financial systems are better capitalized than in 2008, but are not capable of withstanding the shock caused by the pandemic.

Source: US Department of Labor

### COVID-19's Economic Impact US Economic Indicators

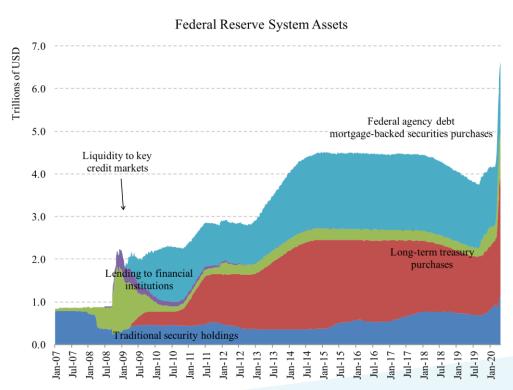


Source: Federal Reserve Board of Governors, Federal Reserve Bank of St. Louis, Google

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2019 2019

### COVID-19's Economic Impact Federal Reserve System Assets



Source: Federal Reserve Bank of Cleveland

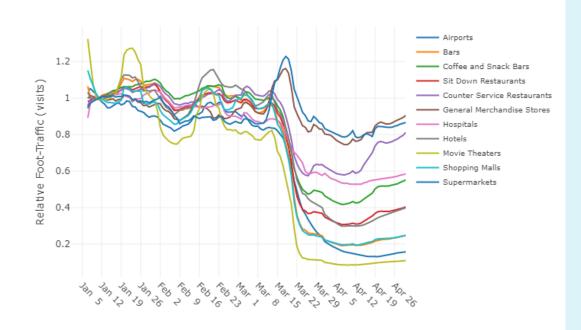
## COVID-19's Economic Impact The Pandemic's Effect on the Restaurant Industry

#### Seated Restaurant Diners, Year-Over-Year Percentage Change



Source: OpenTable

### COVID-19's Economic Impact Effects on Individual Industries

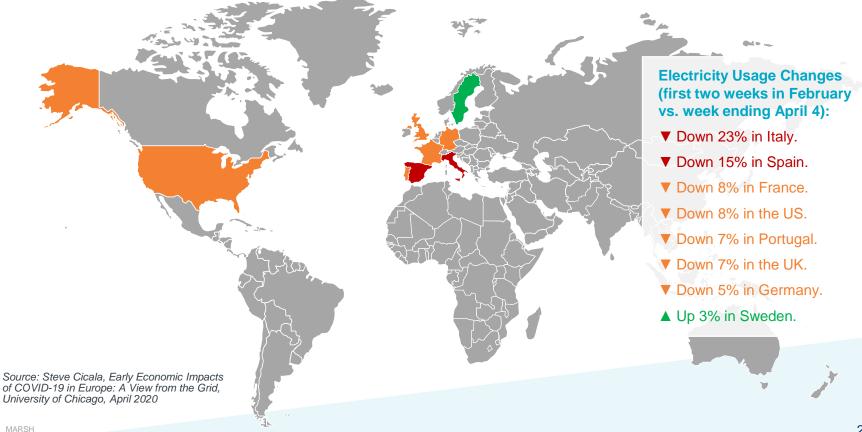


#### **Demand by Industry**

- ▼ Airlines.
- Restaurants.
- ▼ Hotels.
- ▼ Car rental services.
- Movie theaters.
- ▼ Durable goods.
- ▲ Health care.
- ▲ E-commerce.
- ▲ Groceries.
- ▲ General merchandise.

Source: SafeGraph

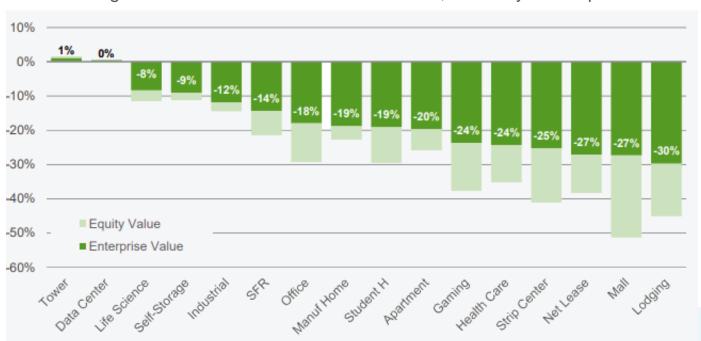
### COVID-19's Economic Impact Power Consumption Has Fallen Dramatically



20

# COVID-19's Economic Impact Falling REIT Returns

Change in US Unlevered and Levered Values, February 21 to April 15



Source: Green Street Advisors

# COVID-19's Economic Impact Why Government Intervention?

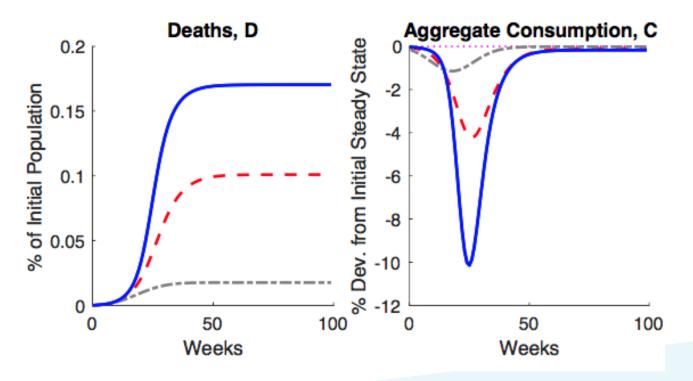
"Infection externality."

- 2 Short-term solution: crude containment measures, such as lockdowns.
- Medium-term solution: smart containment/large-scale testing and quarantining of infected individuals.



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## COVID-19's Economic Impact Modeling Economic Effects



Source: Eichenbaum, Martin, Sergio Rebelo and Mathias Trabandt, "The Macroeconomics of Testing and Quarantining," Northwestern University, April 2020

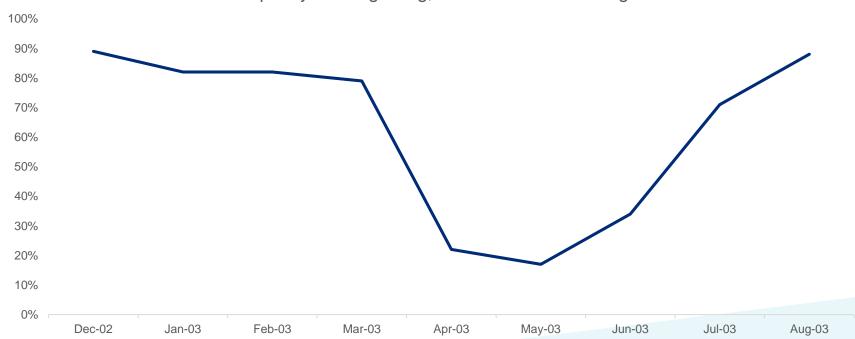
## COVID-19's Economic Impact The Pandemic's Permanent Changes

- Remote work.
  - Decline in value of office buildings.
- E-commerce.
  - Further declines in value of retail space.
- Telemedicine.
- Video conferencing.
- · Online teaching.
- Fintech replacing conventional banking.
- Automation and reshoring.



### COVID-19's Economic Impact Hong Kong Hotel Occupancy During the SARS Epidemic





Source: Hong Kong Tourism Board

### COVID-19's Economic Impact An Uncertain Future



#### COVID-19's Economic Impact Future Decision-Making for States

- Governments need to balance economic priorities with public safety needs.
- Decisions will be made based on local levels of preparedness and potential vulnerabilities:
  - Equipment stockpiles.
  - Planning.
  - Testing kits.
  - Aging populations or those with underlying health conditions.
- Different approaches to reopening will highlight best practices and lessons learned.
  - This will inform responses in the event of a second COVID-19 wave.



### COVID-19's Economic Impact A Whole of America Response



Preparedness at all levels of government is crucial.



Mitigation is in the hands of individuals, families, and communities.



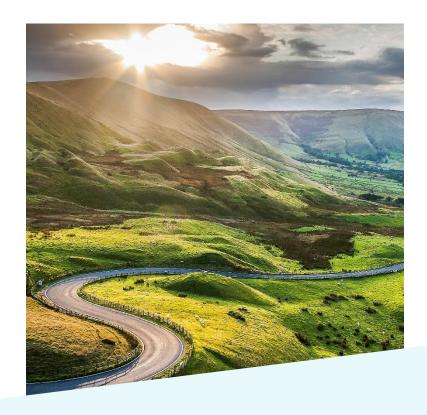
Nonprofits are providing valuable resources to vulnerable populations.



The private sector's lifesaving capabilities have never been more needed.

# COVID-19's Economic Impact Looking Ahead

- Governments will look for opportunities to learn lessons as they reopen.
- Emergency managers will assume there will be a second COVID-19 wave.
- Businesses should similarly learn lessons and prepare for additional restrictions in the future.



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# COVID-19's Economic Impact Priorities for Employers



#### **Engage with empathy.**

Focus on communication.

Start with the most appropriate return-to-work process and adjust/refine as needed.



#### Define who needs to return.

Be clear about which employees must return to work — and which ones do not.



#### **Understand screening.**

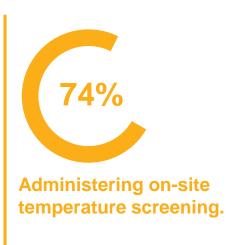
Evaluate screening options and choose the right one for your organization.

Take steps to maintain privacy and confidentiality.

#### COVID-19's Economic Impact

### How Employers Are Supporting Employees and Protecting Their Health





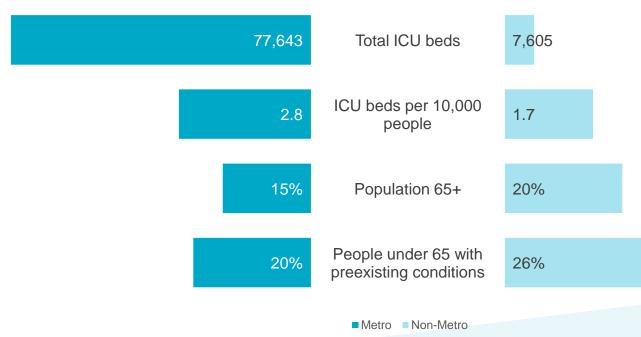




Source: Mercer Global COVID-19 Survey #4

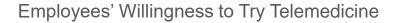
# COVID-19's Economic Impact Preparedness and Access to Care Differs by Geography

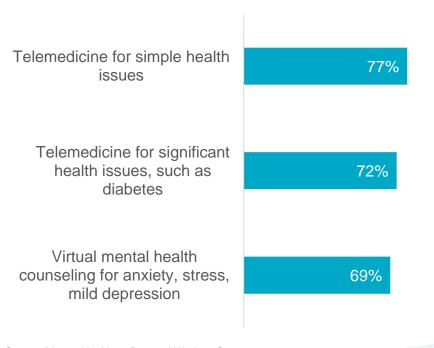
Metro vs. Non-Metro Health Resources and Challenges



Source: Kaiser Family Foundation

# COVID-19's Economic Impact Telemedicine Is Here to Stay





#### **Telemedicine** can help address:

- Wariness of hospitals and doctors' offices.
- Strains on health care systems.
- Employee anxiety.

Source: Mercer Health on Demand Workers Survey

### **Liquidity Strategies for COVID-19**



claims and collateral cost reduction strategies, coudt insurance.

products, premium financing, and the use of captive insurers —

all of which can help them stay liquid.

claims and prioritize resources on them. They should also

navigate the current environment, which may prevent costly

proactively reach out to injured workers and help them

outcomes and lower costs.

For the latest information and insights from Marsh about how to manage COVID-19's effects on your business, including our new briefing on how insurance and risk management strategies can help your organization maintain liquidity during challenging times, visit marsh.com/us/insights/research/pandemic-risk-hub.html.

Join us again on **Wednesday, May 20**, for more information and insights on how you can manage critical risks as the pandemic continues. Visit <u>marsh.com</u> to register.



Marsh is one of the Marsh & McLennan Companies, together with Guy Carpenter, Mercer, and Oliver Wyman.

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