

Update: Navigating Market Volatility



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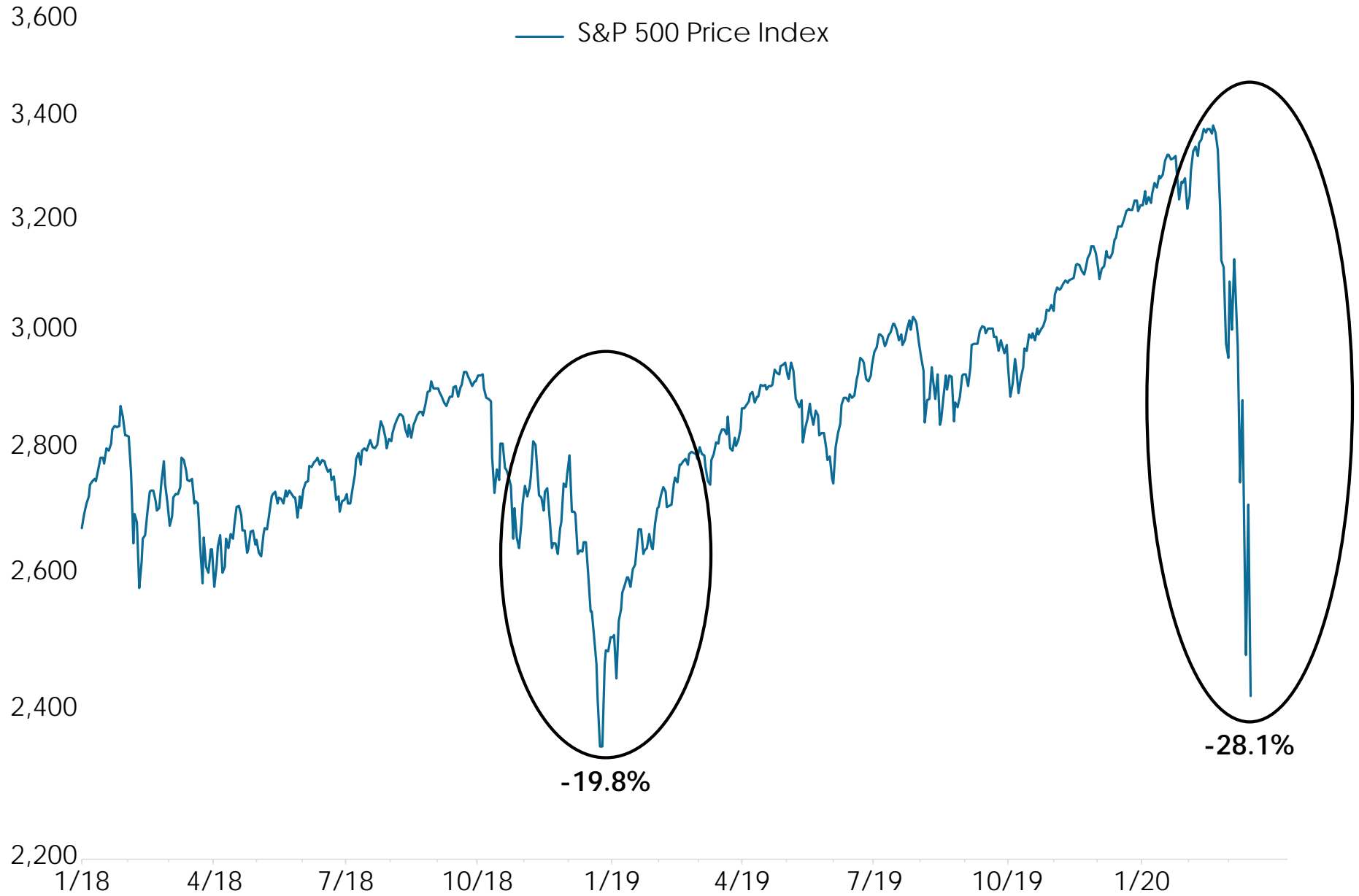
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Michael is a senior research analyst responsible for the development of investment strategies and policies methodologies applied to Private Wealth client portfolios.

This presentation provides a review of issues or topics of possible interest to Glenmede's clients and friends, and does not provide personalized investment advice. It contains Glenmede's opinions, which may change after the date of publication. Information gathered from third-party sources is assumed reliable but is not guaranteed. This presentation contains projections which, though arrived at in good faith, are not guaranteed. This document is not a recommendation of any particular investment. Actual results may differ materially from projections. Actual investment decisions for clients are made on an individualized basis and may be different from what is expressed here. All investments have risk and are subject to loss. Clients are encouraged to discuss anything they see here of interest with their Glenmede representative.

STOCKS ARE EXPERIENCING ANOTHER CORRECTION AFTER A YEAR OF GAINS



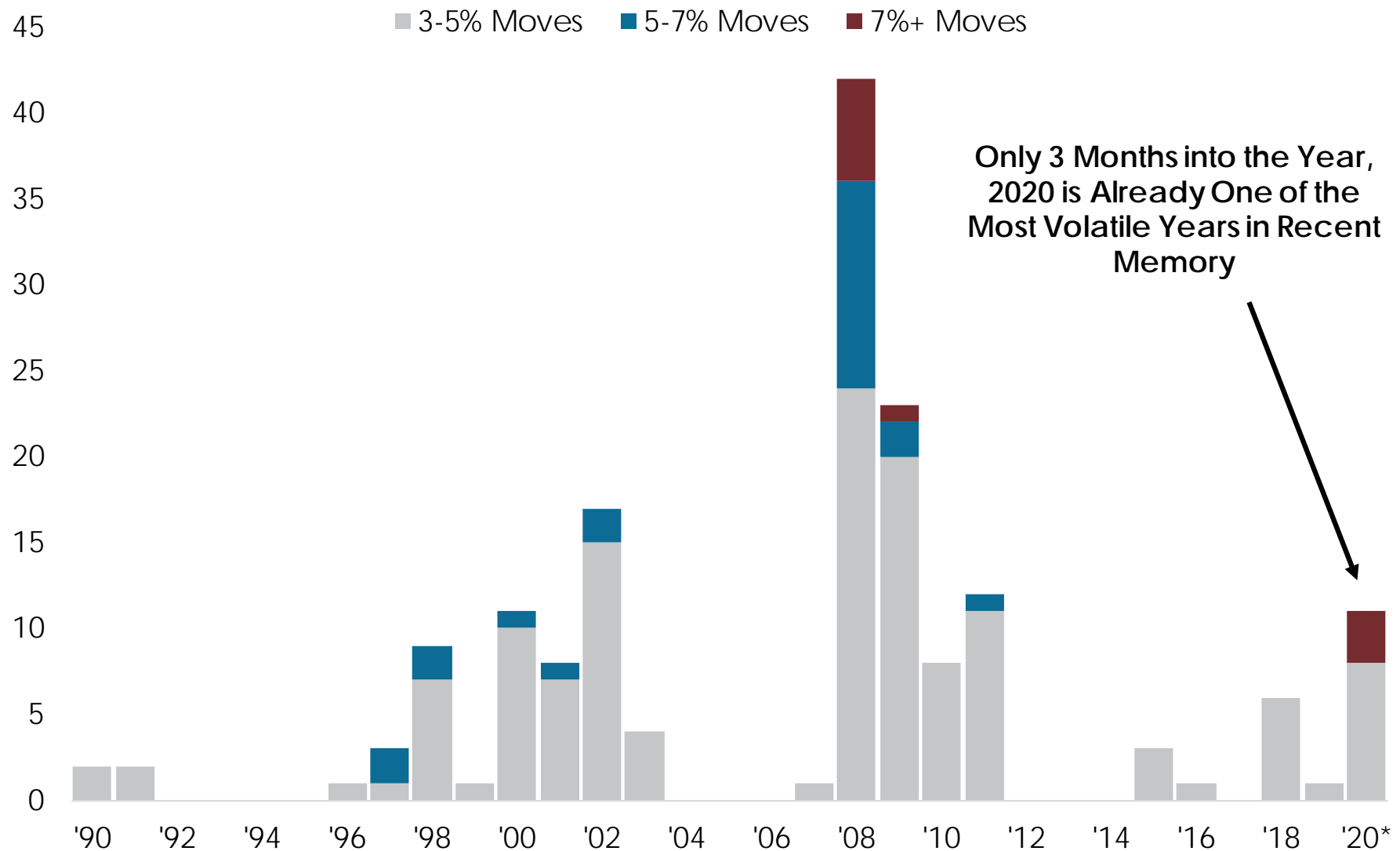
Source: Glenmede, FactSet

Data through 03/16/2020

The S&P 500 Price Index is a market capitalization weighted index of large-cap stocks. Data as of 3/16/2020 at 10:00am. One cannot invest directly in an index. Past performance may not be indicative of future results.

MARKET VOLATILITY HAS BEEN EXTREME BY HISTORICAL STANDARDS

Number of Extreme Daily Moves in the S&P 500



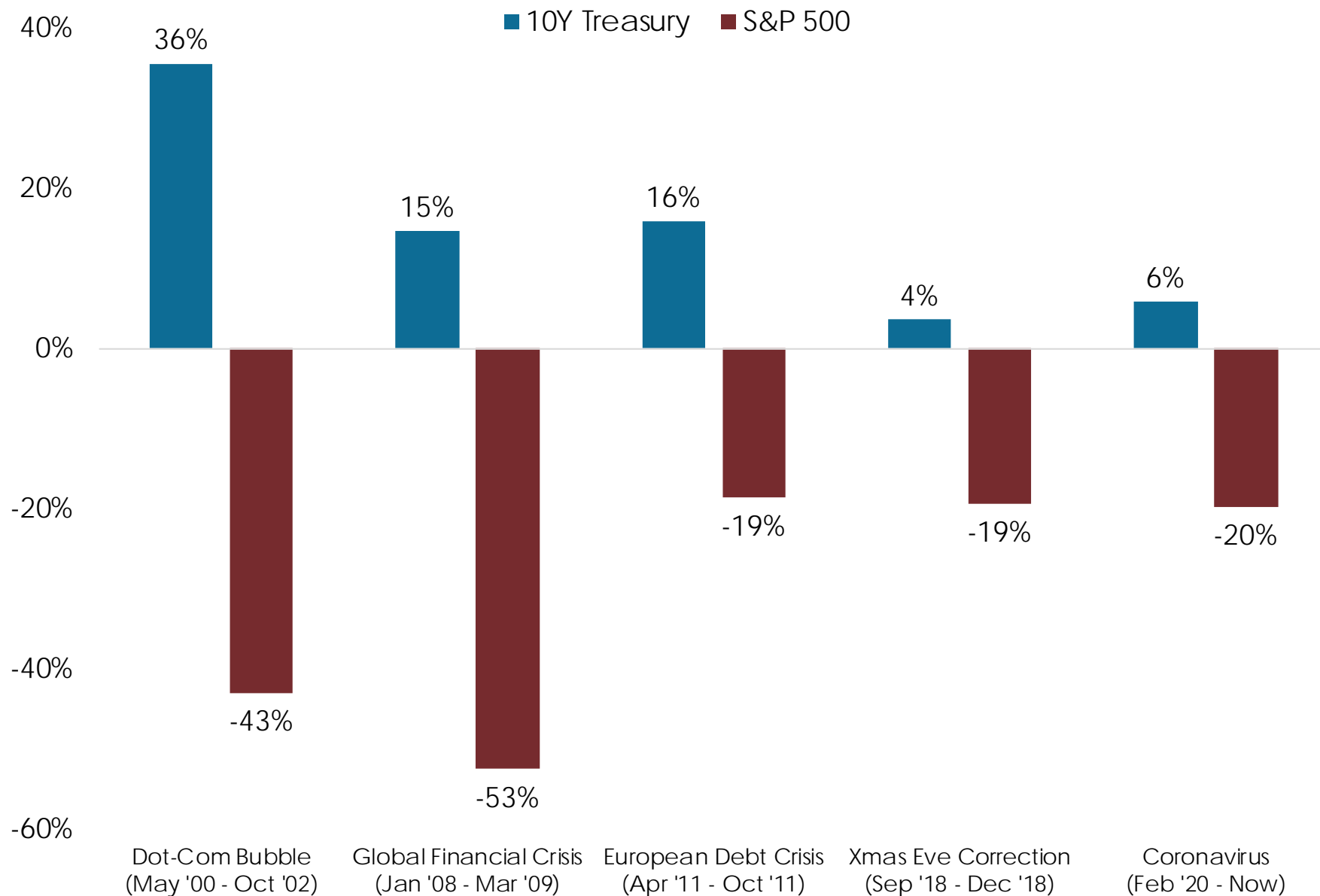
Source: Glenmede, FactSet

Data through 3/13/2019

*2020 data is year-to-date, whereas all other years' figures are for full year periods

Data shown is the number of daily moves in the S&P 500 Price Index in each year of 3% - 5%, 5% - 7% and 7% or more. The S&P 500 is a market capitalization weighted index of large-cap stocks in the U.S. One cannot invest directly in an index. Past performance may not be indicative of future results.

BONDS PROVIDE PROTECTION IN A RISK-OFF ENVIRONMENT



Source: Glenmede

Data as of 3/15/2020

10-Year Treasuries returns are calculated using the Bloomberg Barclays U.S. Treasury Bellwethers (10 Y) Index. Past performance is not indicative of future returns. These are unmanaged total return indices with cash flows reinvested. One cannot invest directly in these indices.

1

How bad can this get?

An updated assessment of the outbreak and implications for economics and earnings

2

What are the investment implications?

Benchmarks to watch and potential opportunities for investors

1

How bad can this get?

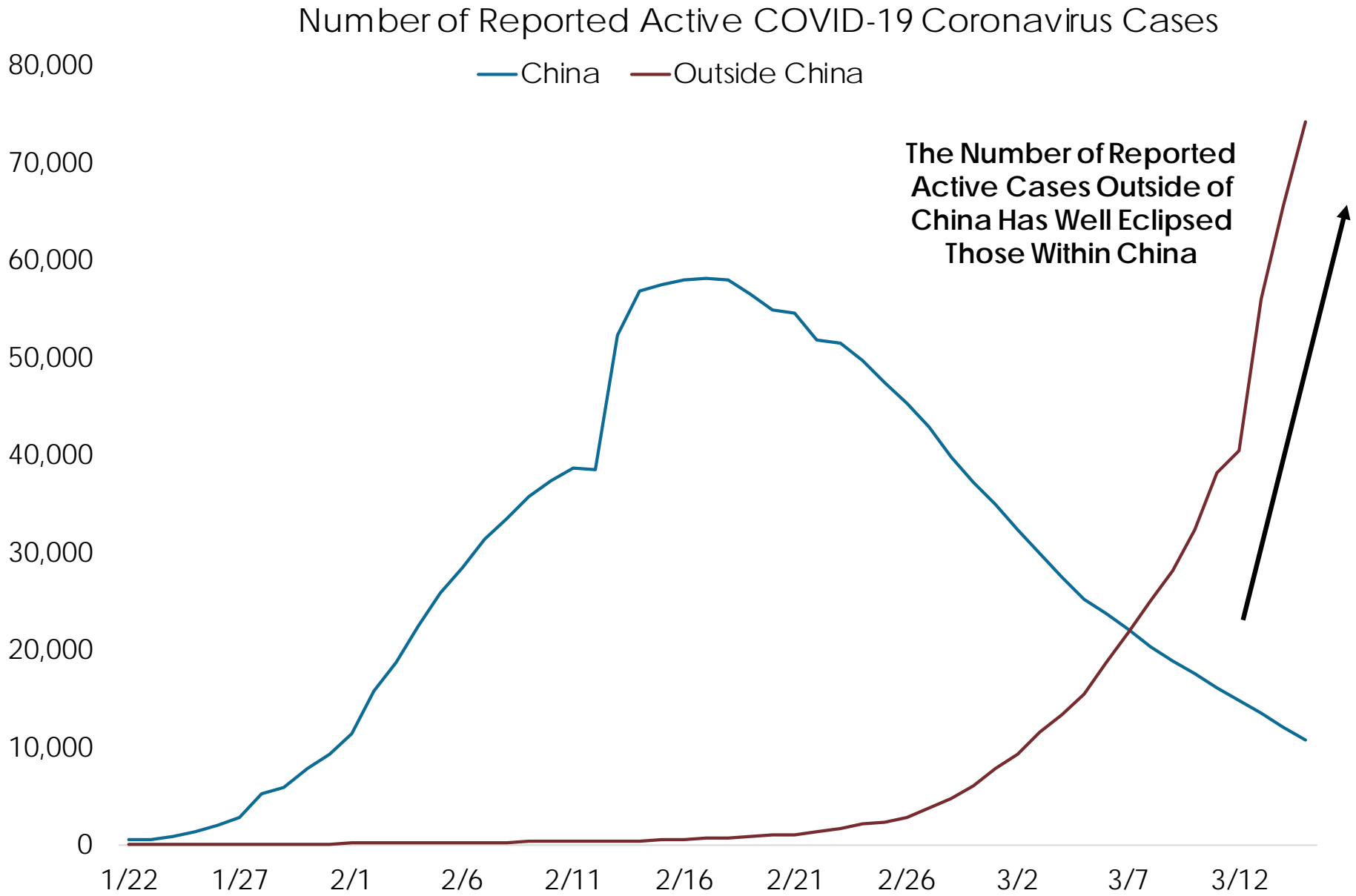
An updated assessment of the outbreak and implications for economics and earnings

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What are the investment implications?

Benchmarks to watch and potential opportunities for investors

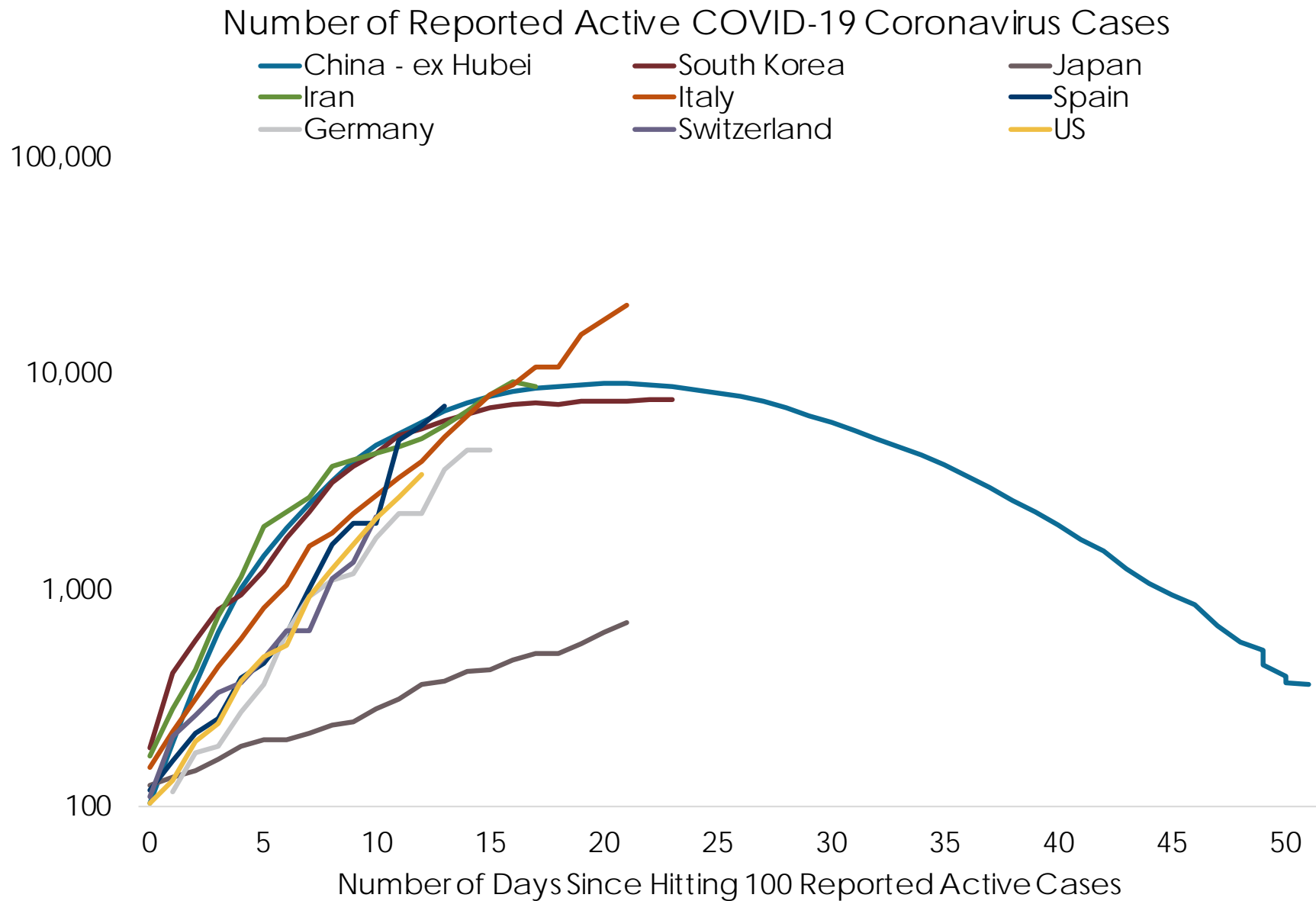
CASE COUNT IS NOW DECLINING IN CHINA, BUT RISING IN REST OF WORLD



Source: Glenmede, Johns Hopkins University, World Health Organization

Data through 3/15/2020

OTHER COUNTRIES APPEAR TO BE TRACKING A SIMILAR PATH AS CHINA

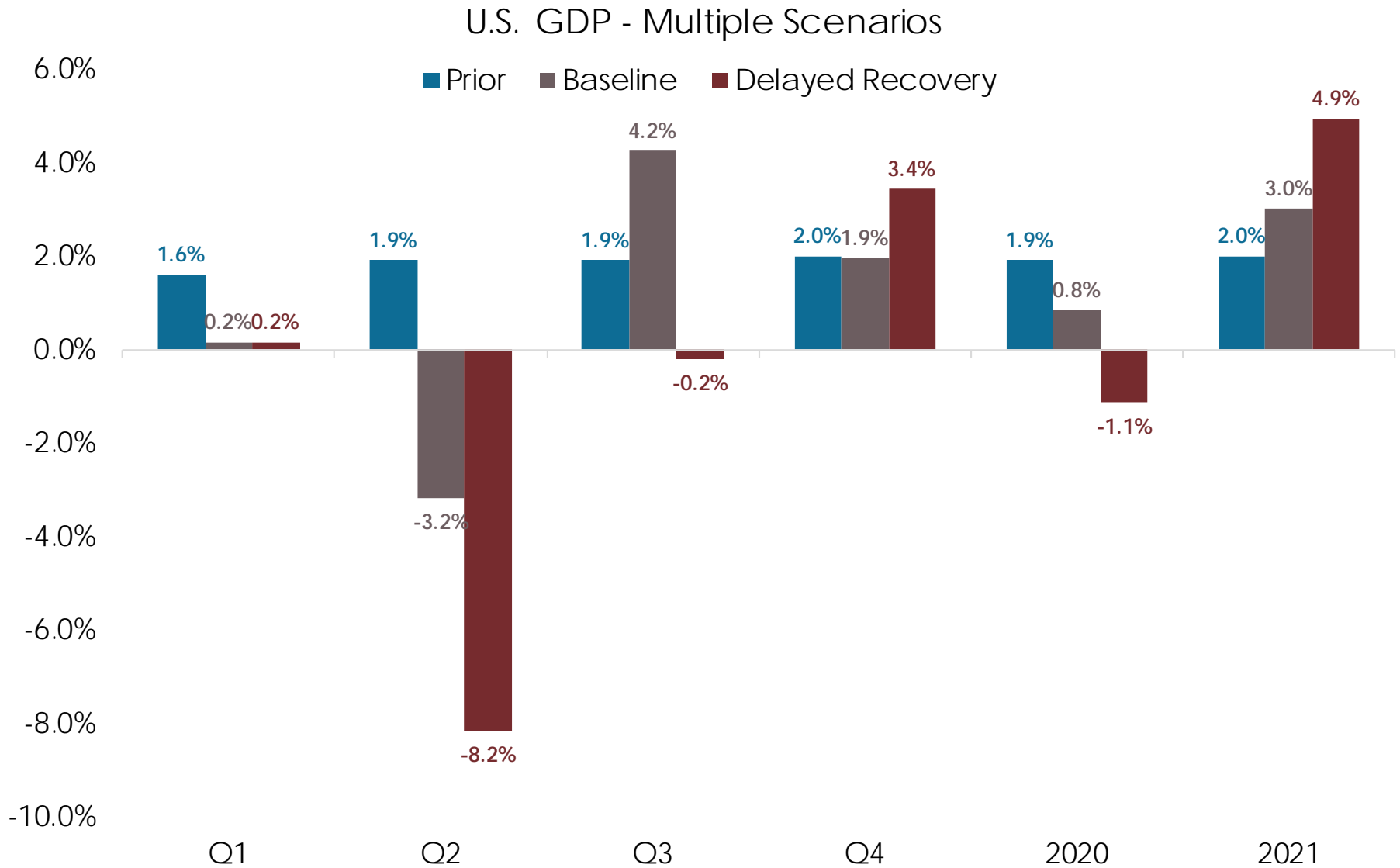


Source: Glenmede, Johns Hopkins University, World Health Organization

Data through 3/15/2020

Data shown is the progression of reported active cases on a log-scale once the number of reported active cases has reached at least 100 in each country.

THE U.S. ECONOMY IS LIKELY FACING RISK HEADING INTO Q2

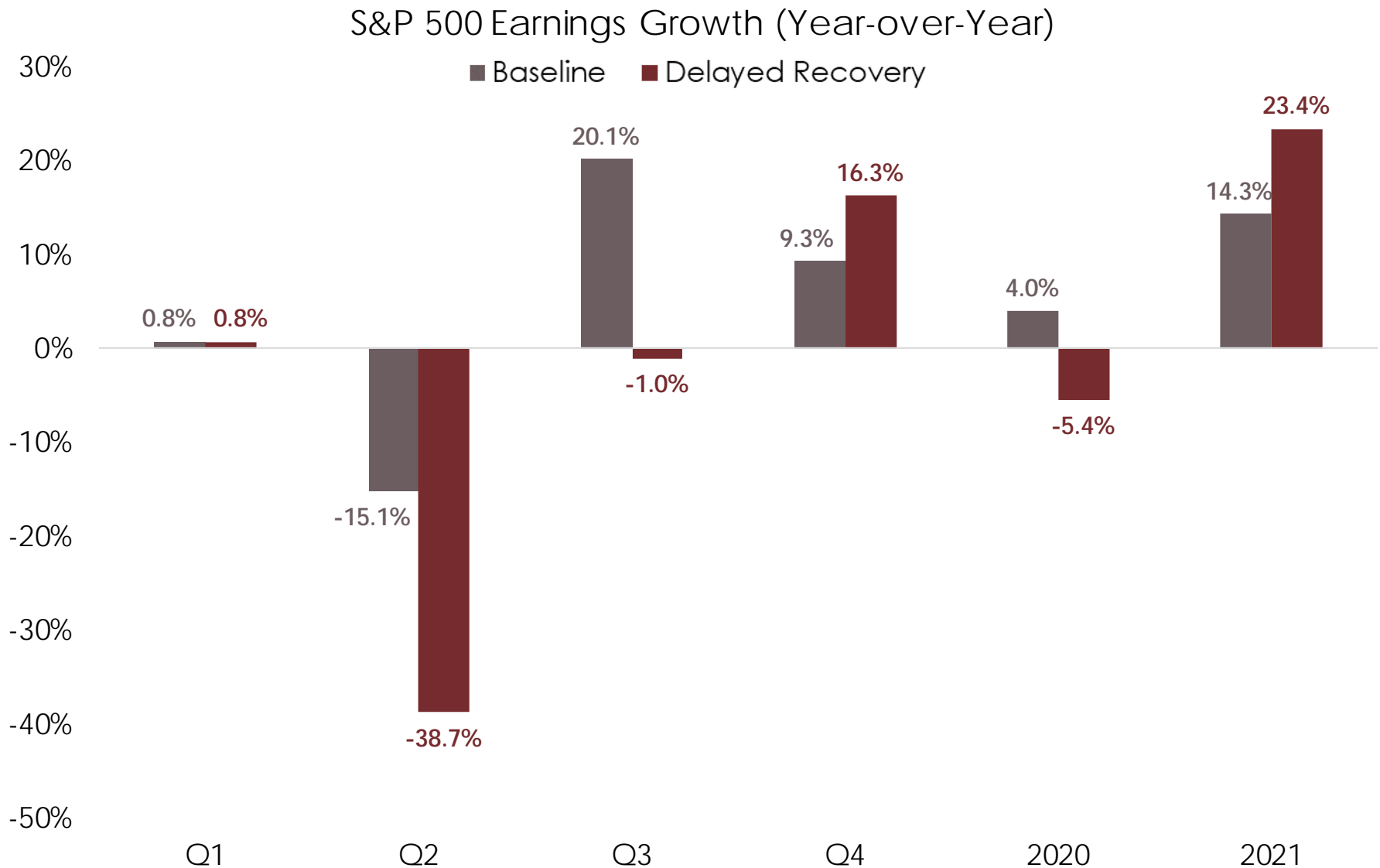


Source: Glenmede

Estimates as of 3/15/2020

Data shown are Glenmede's proprietary estimates for the economic impact on economic growth from the coronavirus and oil shock in the U.S. in excess of inflation. Prior refers to estimates of the growth in real gross domestic product (GDP) before the outbreak of the virus and the oil price shock. Baseline refers to Glenmede's base case estimate of the growth in real GDP accounting for the effects of the coronavirus and oil price shock. Delayed Recovery refers to Glenmede's estimate of the growth in real GDP assuming a longer shutdown of economic activity due to the coronavirus. These figures are projections which, though arrived at in good faith, are not guaranteed.

EARNINGS WILL LIKELY EXPERIENCE A NOTABLE, TRANSITORY IMPACT

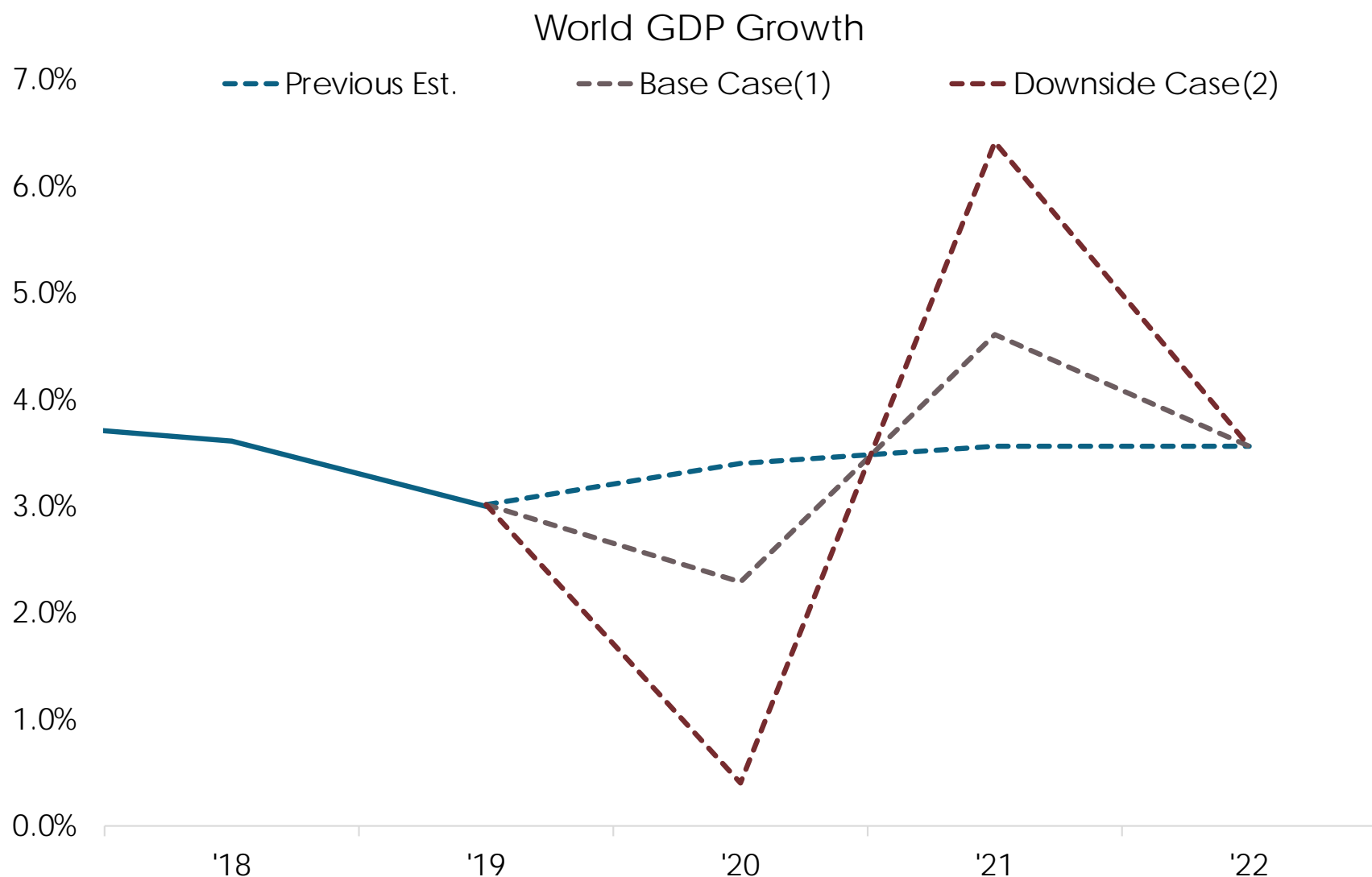


Source: Glenmede, FactSet

Estimates as of 3/15/2020

Data shown in blue are actual results for year-over-year earnings growth for the S&P 500 Index. Data shown in gray are Glenmede's proprietary estimates for earnings growth in 2020 after accounting for the effects of the coronavirus and the oil price shock in Glenmede's estimation of the base case scenario. Data shown in red are Glenmede's proprietary estimates for earnings growth in 2020 after accounting for the effects of the coronavirus and the oil price shock in a scenario involving a delayed recovery. These figures are projections which, though arrived at in good faith, are not guaranteed.

GLOBAL ECONOMIC GROWTH SCENARIOS FROM COVID-19



Source: Glenmede, International Monetary Fund (IMF)

Estimates as of 3/15/2020

Solid lines represent reported global GDP growth and dashed lines represent projected GDP growth in various scenarios.

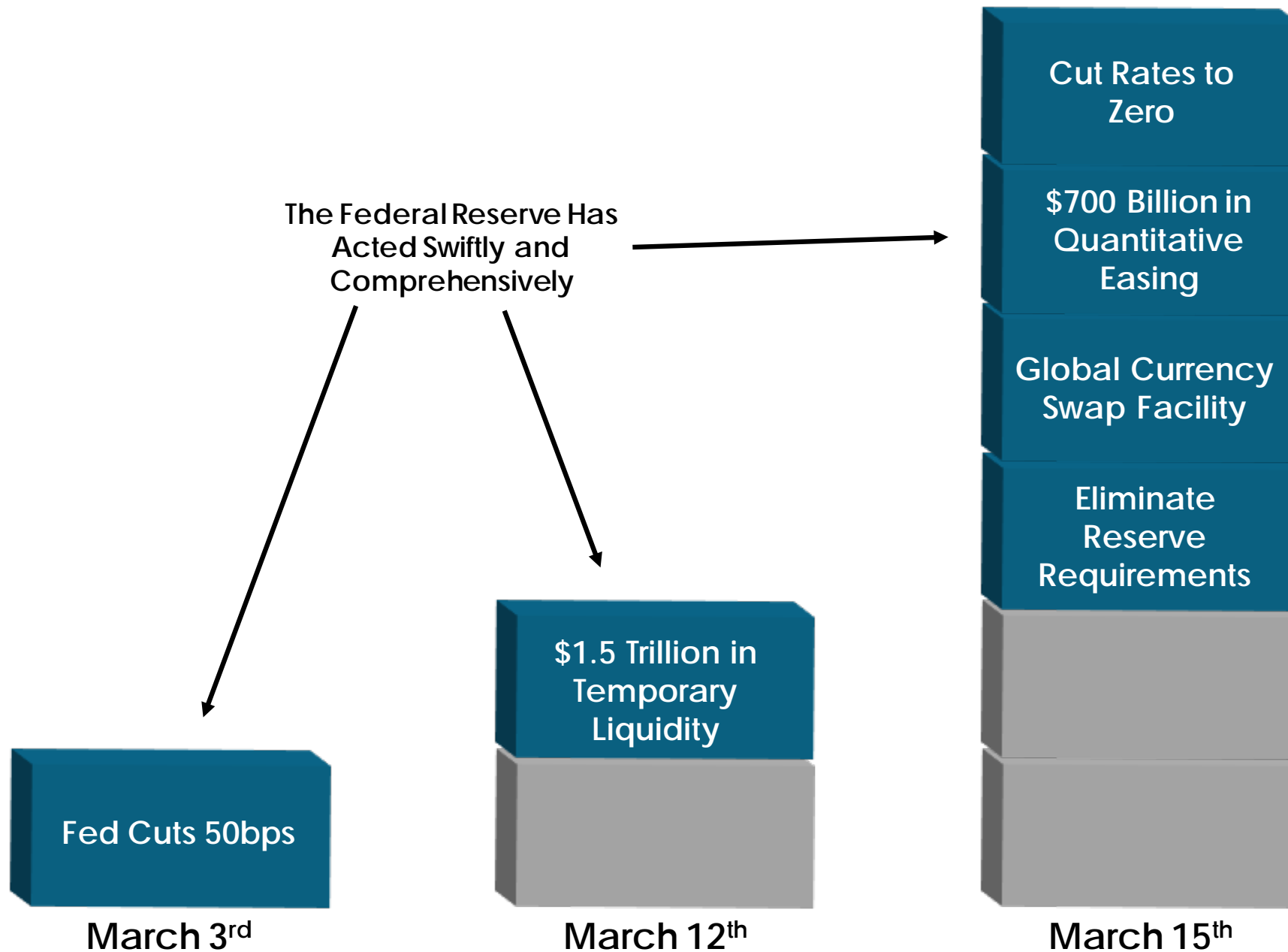
Previous Est. is the IMF's latest projection prior to the coronavirus outbreak. Base Case and Downside Case are Glenmede's estimates.

(1) Base Case represents the scenario where China, S. Korea, Italy, Iran, Japan, Italy and Spain experience a 2.7% reduction in 2020 GDP growth and the U.S., Germany and France experience a more modest 1.1% reduction in 2020 GDP growth.

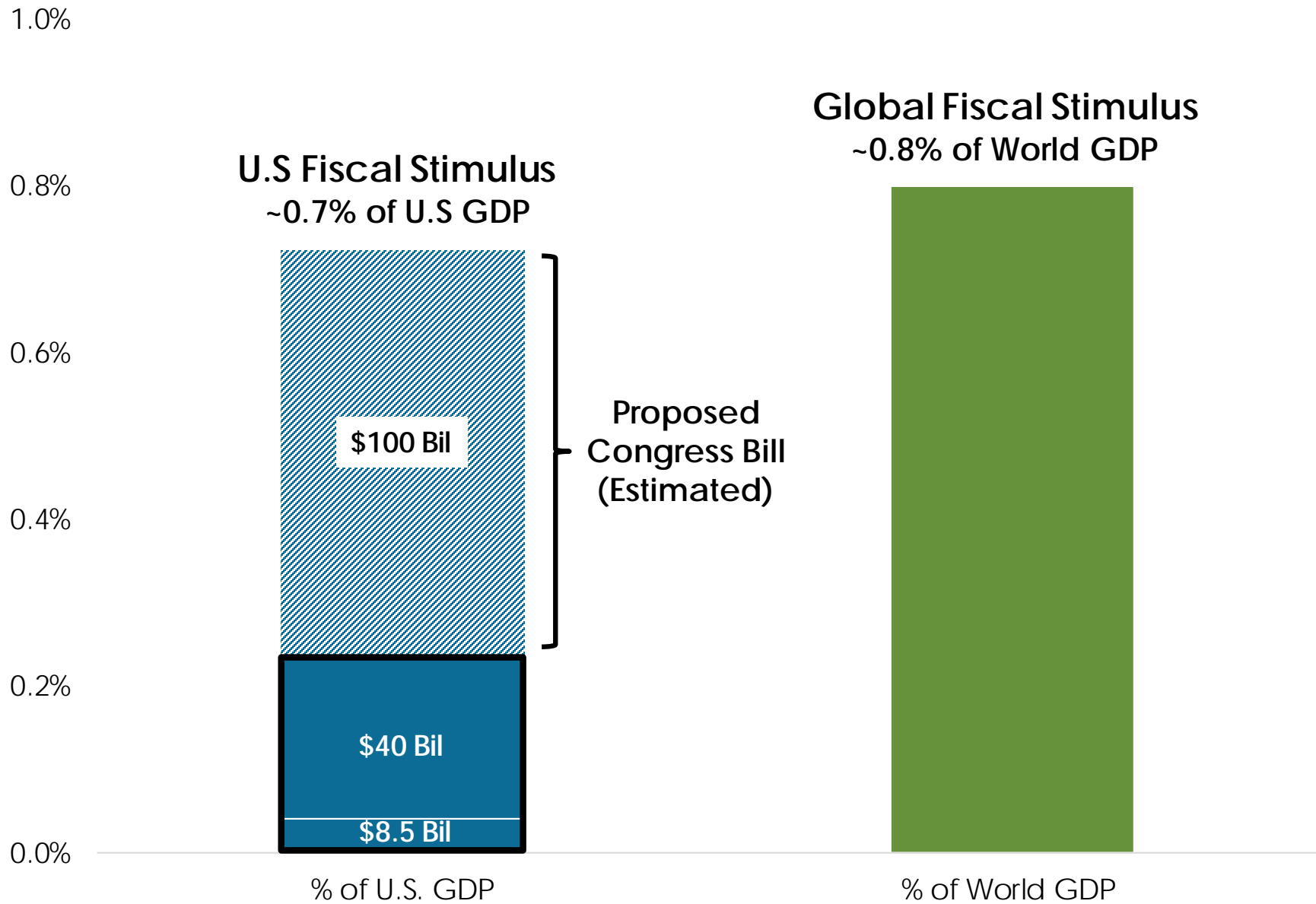
(2) Downside Case represents the scenario where government efforts to contain the virus precipitate either a steeper decline or a longer shut-down period for all nations, leading to a ~3.0% reduction to GDP growth for all countries.

Projections are inherently uncertain and no guarantee can be given to their accuracy.

THE FED'S ACCOMMODATION IS STACKING UP



FISCAL STIMULUS IS KICKING IN, MORE IN THE PIPELINE



Source: Glenmede, Cornerstone Macro, UBS

Data through 03/14/2020

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Benchmarks to watch and potential opportunities for investors

STOCK MARKET CORRECTION LEAVES VALUATIONS MORE REASONABLE



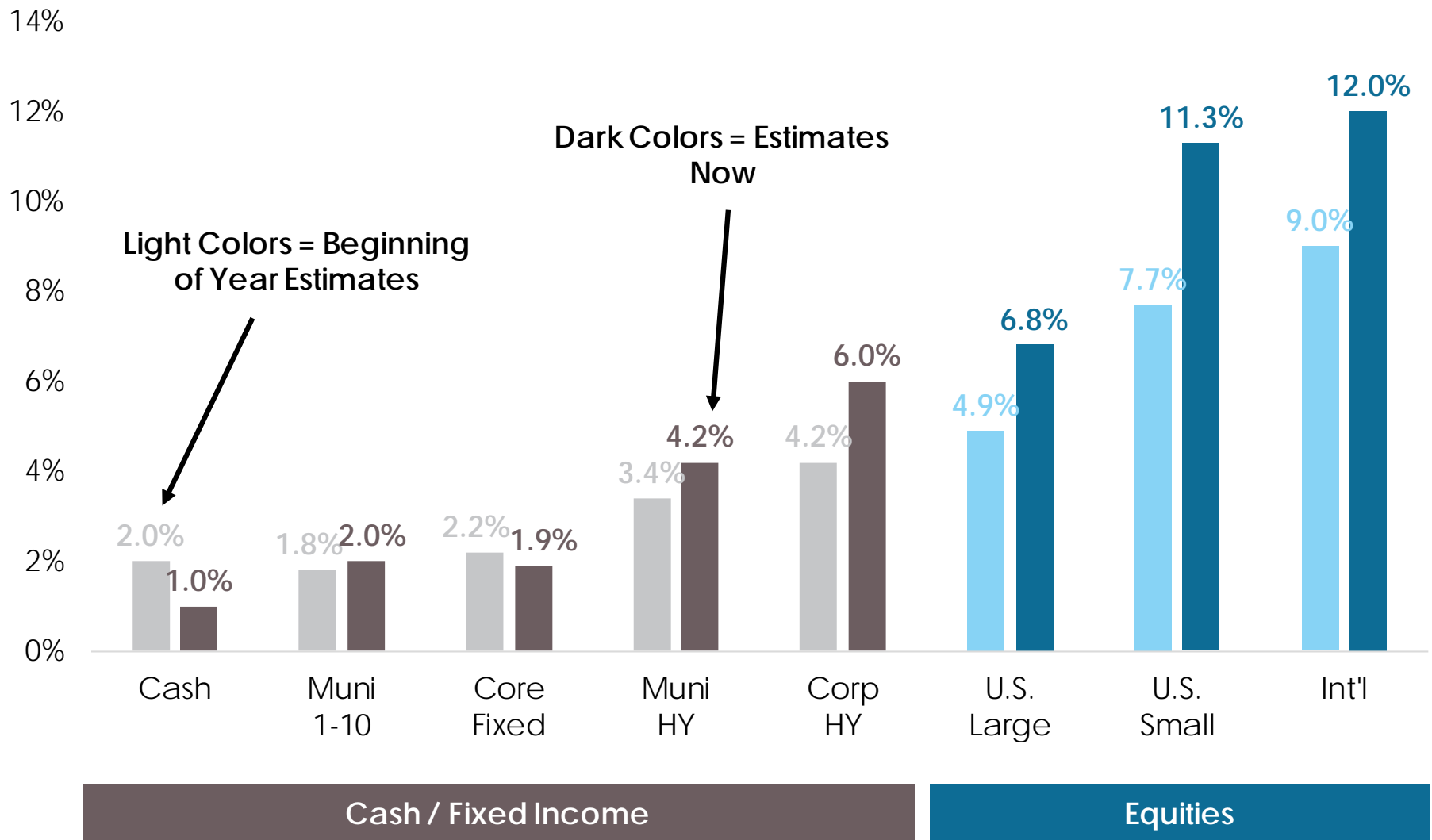
Source: Glenmede, FactSet

Data through 03/15/2020

Data shown are Glenmede's estimates of 10-year expected returns. Stocks, Bonds and Cash are represented by the MSCI All Country World Index (ACWI), the Bloomberg Barclays U.S. Aggregate Index and the Bloomberg Barclays U.S. Treasury Billwethers (3 Month), respectively. MSCI ACWI is a representative index of stocks in all developed and emerging countries. Actual returns may vary materially from expectations or estimates. One cannot invest directly in an index.

A NUMBER OF ATTRACTIVE OPPORTUNITIES WITHIN EQUITIES

Projected 10-Year Returns by Asset Class



Source: Glenmede

Data through 03/15/2020

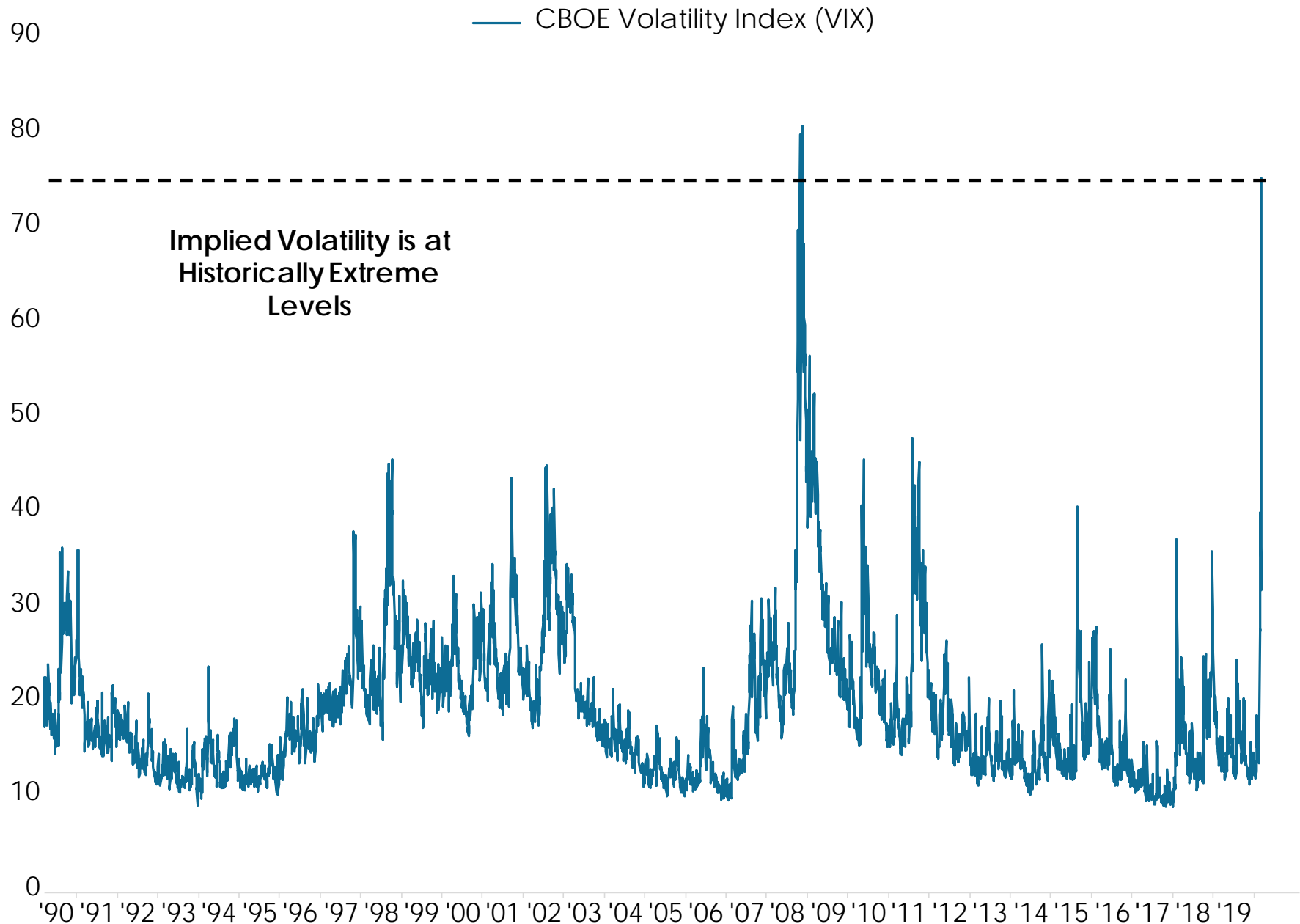
Data shown are Glenmede's proprietary estimates for 10 year expected returns for a number of asset classes. Proxy indexes for each asset class are as follows: Cash (Bloomberg Barclays Treasury Bellwethers 3M), Muni 1-10 (Bloomberg Barclays Municipal Bond 1-10 Index), Core Fixed (Bloomberg Barclays U.S. Aggregate Index), Muni High Yield (Bloomberg Barclays Municipal High Yield 5% Tobacco Cap 2% Issuer Cap Index), Corp High Yield (Bloomberg Barclays U.S. Aggregate Credit Corporate High Yield BB Index), U.S. Large (MSCI USA Index), U.S. Small (Russell 2000 Index), Int'l (MSCI AC World ex-U.S. Index). These figures are projections which, though arrived at in good faith, are not guaranteed. One cannot invest directly in an index.

WHAT OPPORTUNITIES HAVE BEEN CREATED BY THE CORRECTION?

Asset Class	Viewpoint on Opportunity
U.S. Large-Cap	Valuations are now more reasonable, but still above fair value.
U.S. Small-Cap	Best U.S. opportunity. Below fair value after correction.
Int'l Developed	Below fair value. Japan remains the cheapest market.
Int'l Emerging	Best Int'l opportunity. Emerging Asia likely to recover first.

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THE VOLATILITY INDEX (VIX) IS FLASHING A BULLISH SIGNAL



Source: Glenmede, FactSet

Data through 03/13/2020

The Chicago Board Option Exchange's Volatility Index, or VIX for short, is a measure of the market's expectation of volatility based on derivatives pricing on the S&P 500 Index. Past performance may not be indicative of future results. One cannot invest directly in an index.

ALL 4 SENTIMENT INDICATORS ARE AT OR NEAR EXTREME FEAR LEVELS

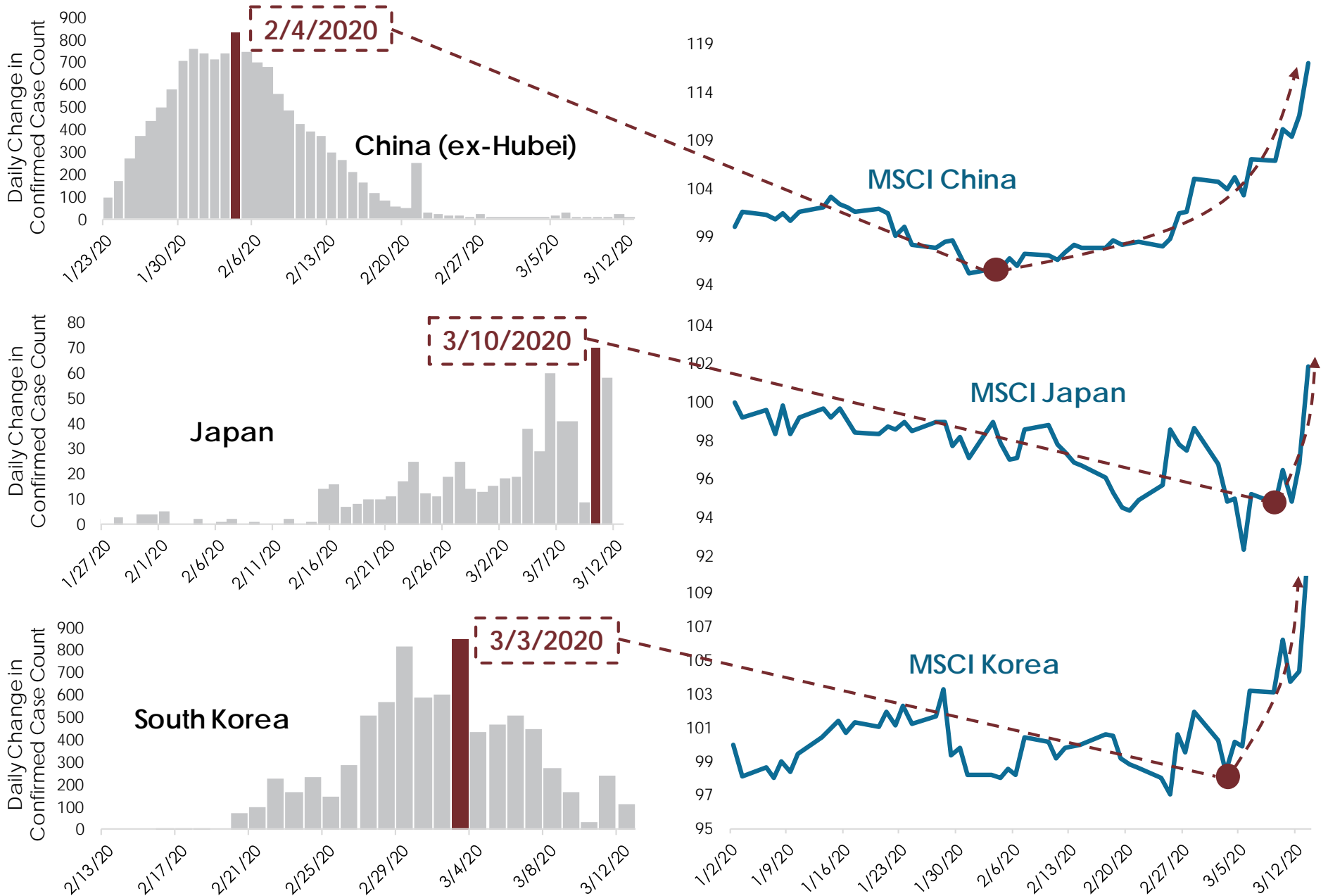
Indicator	Current value	Percentile	12mo. Forward S&P 500 Performance at Current Levels or Worse	
			Positive Return Freq.	Average Return
VIX	75.5	99.9%	100%	36.4%
AAll - % Bullish	29.7%	78.8%	84%	16.5%
Russell 3000 % Above 200MVA	5.1%	99.8%	100%	50.8%
Stock/Bond Ratio	-24.8%	97.4%	99%	31.9%

Source: Glenmede, FactSet

Data through 03/12/2020

The indicators shown include the Chicago Board Options Exchange (CBOE) Volatility Index, or VIX for short, the percentage of people who responded "bullish" to the American Association of Individual Investors (AAII) sentiment survey, the percentage of stocks in the Russell 3000 index that are trading above their respective 200-day moving averages and the stock/bond ratio, which compares the relative total return of the S&P 500 index vs. 10-year Treasuries relative to the 220-day moving average. Data shown includes the current value of each indicator, the percentile rank of those values based on the indicators' individual histories and a historical analysis of how the S&P 500 has performed after reaching current levels or worse in the past, including the percentage of times the S&P 500 posted a positive return and the average return in those scenarios. The S&P 500 is a market capitalization weighted index of large-cap stocks in the U.S. and the Russell 3000 is a market capitalization weighted index of large-, mid- and small-cap stocks in the U.S. Past performance may not be indicative of future results. One cannot invest directly in an index.

MARKETS SEEM TO BE TRADING ON PEAK CASE COUNT SO FAR



Source: Glenmede, Johns Hopkins University

Data shown in charts on the left are the daily changes in confirmed cases of COVID-19 by region. Charts on the right show each country's stock market performance relative to the global equity market (MSCI ACWI) since the beginning of 2020, indexed to 100 at 12/31/2019. MSCI indexes are market capitalization indexes of large-cap stocks in each respective region. One cannot invest directly in an index. Past performance may not be indicative of future results.

S&P 500 Total Return After Hitting a Bear Market (Down 20% from All-Time Highs)

	6mo	1yr	3yr	5yr	10yr.
Average Return	2.0%	14.0%	43.9%	71.1%	212.1%
Positive Frequency	56%	78%	89%	100%	100%

Source: Glenmede, FactSet

Data through 03/14/2020

Data shown is the cumulative total return for the S&P 500 index after a transition from a bull market to a bear market. A bear market is defined as a 20%+ decline from all-time highs. Data in the table shows the percentage of times the S&P 500 posted a positive return and the average return from the day in which the S&P 500 enters a bear market. Data begins after World War II (1946). The S&P 500 is a market capitalization weighted index of large-cap stocks in the U.S.. Past performance may not be indicative of future results. One cannot invest directly in an index.

1

How bad can this get?

- Expect a material economic and earnings impact, primarily in Q2
- Monetary policy has stepped up to the plate, look to fiscal spend as the more potent stimulus ahead

2

What are the investment implications?

- Risk assets now sit at more attractive valuations
- There have been signs of investor capitulation
- Markets appear to be sensitive to turning points in new cases
- Market volatility creates opportunity for long-term investors

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