RBC WEALTH MANAGEMENT

Global Insight

Moving at the speed of flight

Thomas Garretson, CFA – Minneapolis

The swift flight to safety and the rush to find U.S. dollars are sparking disruptions in the global financial system. But the Fed and global central banks are moving just as fast to keep the financial system running as economic activity risks slowing to a walk.

What a year this week has been. While central banks have taken numerous steps over the past month as the economic threat of the coronavirus outbreak has grown, this week marked a watershed moment as banks around the world pulled out all the stops. And they're not done.

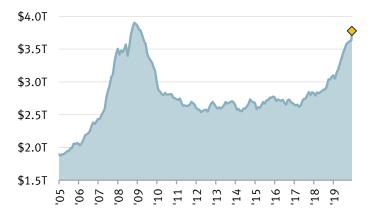
The Federal Reserve began the week with a surprise announcement on Sunday ahead of the scheduled Mar. 17–18 policy meeting, cutting rates back to the effective lower bound of zero percent to 0.25 percent, while announcing a \$700 billion asset purchase program comprised of \$500 billion in Treasuries and \$200 billion in mortgage-backed securities. The European Central Bank added to the size and scope of its bond purchases, which will now exceed €1 trillion this year alone. The Bank of England cut rates and restarted its own asset purchase program as well.

But while economic stimulus is front of mind for most, the Fed's focus thus far has simply been to ensure that liquidity is flowing through financial markets. As Federal Reserve Bank of Richmond President Thomas Barkin remarked, "the place we can add the most value is making markets function."

Lender of last resort

The plumbing of the financial system largely goes ignored as it should be—during periods of calm, but it is at least as important as any other form of stimulus—fiscal, monetary, or

Money market assets swell as investors rush into cash



Source - RBC Wealth Management, Bloomberg, Investment Company Institute; data through 3/11/20

Market pulse

- 5 Signals of COVID-19's toll on U.S. economy
- **5** Coronavirus impact in Canadian bond markets
- 6 Portfolio positioning for UK and European equities
- 6 China marks a major coronavirus turning point

Click <u>here</u> for authors' contact information. Priced (in USD) as of 3/19/20 market close, ET (unless otherwise stated). **For important disclosures and required non-U.S. analyst disclosures, see <u>page 8.</u> Produced: Mar 19, 2020 17:38ET; Disseminated: Mar 19, 2020 17:53ET**



Investment and insurance products offered through RBC Wealth Management are not insured by the FDIC or any other federal government agency, are not deposits or other obligations of, or guaranteed by, a bank or any bank affiliate, and are subject to investment risks, including possible loss of the principal amount invested. otherwise—during periods of volatility in terms of promoting economic stability.

To that end, seemingly every day this week has seen the reintroduction of many programs last seen during the depths of the financial crisis. Two major policy tools reintroduced that investors shouldn't ignore are the Commercial Paper Funding Facility and the Money Market Mutual Fund Liquidity Facility. The two are closely intertwined as money market funds are one of the largest purchasers of commercial paper—or short-term debt issued by corporations to fund payrolls and other nearterm expense items.

And with the rush to cash, money market fund assets have swelled to \$3.8 trillion, nearing the financial crisis peak of \$3.9 trillion in 2009, with market risks bringing back the old fears of "breaking the buck" in money market funds. But in our view, the Fed has once again effectively backstopped short-term funding. As the Fed stated, it "will assist money market funds in meeting demands for redemptions by households and other investors, enhancing overall market functioning and credit provision to the broader economy."

Of course, these are extraordinary times. And while the need to break the glass on tools not used since the global financial crisis may in some way be alarming, investors can take some solace in the fact that the Fed not only has the tools but also the prior experience of using them to facilitate market functioning, and rapidly so.

The Fed still has room to maneuver

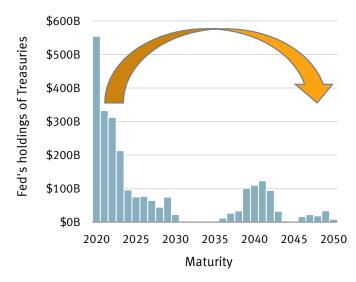
To this point, the Fed's focus has primarily been on market functioning, but as Federal Reserve Bank of Boston President Eric Rosengren said that he expects markets to stabilize in the next week or two, we think that the focus will then shift towards stimulus in the days and weeks ahead.

While a common concern has been that the Fed and central banks globally have less room to act to support economies given historically low, or even negative policy rates, and already large balance sheets, we think that concern is largely unfounded.

In terms of the Fed, the announced asset purchase program as currently structured is essentially aimed at providing liquidity to Treasury markets amid signs of rising transactions costs and forced selling due to fund outflows from many fixed income sector exchange-traded funds and mutual funds—partly fueling the puzzling rise in Treasury yields in recent weeks at the same time that stock markets continue to sell off.

The key difference from past quantitative easing programs is that the Fed is buying across all maturities at the moment, instead of targeting the long end in an effort to drive down yields. Should markets stabilize, we think the buying program

Expand and extend: Look for the Fed's balance sheet to grow and lengthen



Note: Federal Reserve's holdings of Treasuries, mortgage-backed securities excluded Source - RBC Wealth Management, Bloomberg

could be shifted toward that strategy, and that the Fed could even execute another "operation twist," as it last did in 2011, of selling short-dated Treasuries and buying further out on the yield curve.

As the chart shows, in the years since the Fed stopped expanding its balance sheet, the average Treasury maturity has become quite short, with roughly half of its Treasury holdings now maturing in less than three years. The next step may be to sell some short-duration Treasuries, and redeploy those funds into longer-dated securities—thereby adding stimulus via lower yields and forcing investors into other asset classes.

On top of that, there remains the possibility that the Fed could begin buying municipal bonds. The Fed already has the authority to do so, but only with a maximum of a six-month maturity. Given the stress in the U.S. muni market, and the likely increase in funding needs of local governments in the midst of the current crisis, this may be the next phase of Fed stimulus and support.

Central banks may have kicked off the fireworks display this week, but the grand finale is still to come.

Emergency care

Frédérique Carrier - London

Central banks led the first charge against COVID-19 with aggressive monetary actions. We are now seeing another prong of defense—fiscal stimulus—to combat the insidious attack of the coronavirus. We look at the importance of these "antiviral injections" of cash that will be critical to buttress economies against the ongoing economic threats posed by the pathogen.

Monetary, regulatory, and fiscal measures

Drastic restrictions are being imposed on citizens everywhere in the hope of tackling the pandemic, and containing the human cost of the crisis. A wide range of countries and cities are going into lockdown, including sweeping travel and shopping constraints. These measures will have extremely severe consequences for the global economy in the short term.

Until recently, monetary authorities largely took the reins of the response to the coronavirus pandemic and its impact on the economy with decisive action. Most developed central banks cut rates aggressively or, as in the case of the European Central Bank (ECB), unveiled a massive package to support the banks, or both.

But in itself monetary policy cannot effectively deal with a health crisis of this scale, the shocks to both supply and demand, as factories close or restrict their hours and consumption dwindles, and the negative feedback loop from the financial market turmoil.

Targeted fiscal policies are critical to prevent a cash flow crunch from turning into a solvency crunch, and to sustain the economy amid restrictions and confinement. As RBC Capital Markets points out, while central banks can provide liquidity, only government action can ensure that it is channeled to businesses, in effect backstopping the corporate sector.

Fiscal policies can come in many guises including: state guaranteed loans to corporations; company bailouts; cash handouts to households; sick pay (or more generous statutory sick pay); government subsidies for underutilized workers; tax deferrals/rebates; and mortgage and rent deferrals/rebates.

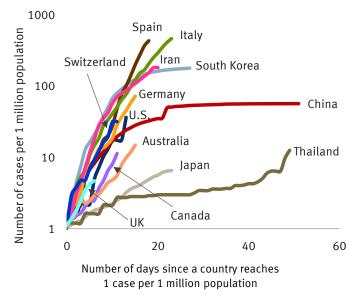
Many governments in developed economies are stepping to the plate, though perhaps not as systematically as financial markets might like. More action is certain to come, in our view, given the rapidly evolving crisis. We look at how various regions are tackling the problems.

Continental Europe opens the taps

With the epicenter of the crisis moving from China to Europe, and Italy in particular, this region has taken many steps to contain the virus and respond to the crisis. Most of the continent is locked down with restrictions on civil liberties

New cases running amok in many countries

Trajectory of spread of COVID-19 in different countries



Note: As of 3/17/20, number of cases per 1 million population in log scale. U.S. first exceeded 1 case per 1 million population on 3/4/20. Source - World Health Organization, Macrobond, RBC Global Asset Management

unseen since World War II in effect on local movement (only grocery and pharmacy shopping is permitted), travel, and large group gatherings. Many countries have a curfew after 6pm, and police control is becoming the norm.

With the resulting fall in demand, a recession looks all but inevitable. Its magnitude will depend on the duration of the lockdown, but fiscal measures, in addition to the ECB's package to support banks, should help to lessen its intensity. Negative growth rates of -1.0 percent to -2.0 percent for 2020 should not be dismissed, in our view.

The antiquated EU fiscal rules, which require national deficits to be restricted to three percent of GDP, are being set aside for now. Italy started off with an injection of a little more than €3.5 billion, though it will now make €25 billion available via an emergency fund, with some €12 billion of this likely earmarked for immediate health care spending, bridge loans to small and medium-sized enterprises (SMEs), postponing tax payments, and some broad protection for workers.

France is offering guarantees to corporate debt to the tune of €300 billion, in addition to allowing companies to defer tax payments, while temporarily suspending households' energy bills and rent. Importantly, German leaders have put aside an obsession with balanced budgets, which is a requirement enshrined in its constitution. The government announced it would offer unlimited federal guarantees to facilitate corporate lending.

UK follows in the footsteps

The UK's official containment strategy was initially much less stringent than what we've seen from the continent. But fiscal measures were nonetheless drastic with the UK government guaranteeing up to £330 billion of corporate loans, in an effort to convince companies not to lay off workers in light of lower activity levels. How quickly these funds can be channeled to companies and whether they are willing to take on more debt remains to be seen. Downing Street also announced £20 billion in tax and spending measures, in addition to the £12 billion support package unveiled in the Mar. 11 budget statement to tackle the pandemic.

The big guns?

In a press conference on Mar. 17, the Trump administration proposed a new, eye-popping stimulus package that could total more than \$1 trillion, or just under five percent of U.S. GDP, to protect individuals and businesses. This comes on top of an \$8 billion package announced two weeks ago, and another one signed into law on March 18. Details of the third package are being ironed out and should be released imminently. The stimulus needs to be approved by Congress, but it seems to have broad bipartisan support. Measures may include: \$250 billion in direct payments of \$1,000 to most Americans, with an additional \$250 billion to be paid out within the next six weeks after the first payment if the crisis continues; \$300 billion in lending to SMEs, the lifeblood of the economy; \$50 billion in relief for the hardest-hit industries such as airlines and hotels; and an extension of tax payment deadlines and tax credit for sick leave.

With respect to the direct payments, by comparison, under the 2009 America Recovery and Reinvestment Act, \$250 checks were sent to people on social security, while the average taxpayer received a tax cut of \$400 per individual and \$800 per family. The current payment under consideration would therefore be more generous, but should the epidemic last a few months or more, as currently anticipated by epidemiologists, more cash handouts may be needed to combat the financial damage.

The new normal

Overall, fiscal deficits as a percentage of GDP are set to rise abruptly. The U.S. is a case in point. At the height of the Great Recession, the U.S. fiscal deficit reached close to 10 percent of GDP. The ratio this time around could well exceed this eventually, as any likely recession would be anything but routine.

Monetary, fiscal, and regulatory policies are necessary but not sufficient to completely stanch the crisis. For a sustainable rebound in financial markets, some concrete success in the fight against the coronavirus on the medical front (e.g., number of new cases plateauing, more efficient testing, vaccine development, etc.) is also probably needed.

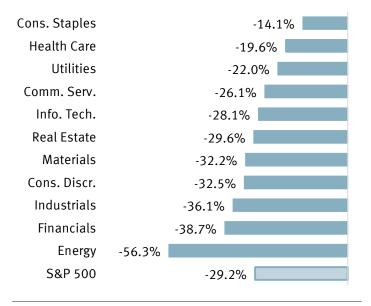


Ben Graham, CFA - Minneapolis

- U.S. equity markets continue to engage in price discovery as investors attempt to properly account for a fluid economic situation characterized by an exponentially growing number of COVID-19 cases and the related, but highly unclear, financial impact of the precautionary steps being taken by U.S. consumers. With the S&P 500 about 30% lower than its mid-February highs and down approximately 10% this week, RBC Capital Markets, LLC Head of U.S. Equity Strategy Lori Calvasina has made another attempt at properly adjusting S&P 500 earnings estimates in light of this new normal. The 2020 estimate falls to \$139 from \$165, reflecting Calvasina's new assumption that a recession will in fact occur in 2020, most likely during Q2 and Q3. She arrived at \$139 by reducing last year's EPS of \$166 by 16%, an amount in line with the median recessionary decline in S&P 500 EPS during each of the last three recessionary periods.
- Within the nearly 30% decline in the S&P 500, **the hardesthit sectors have been those most levered to cyclical and commoditized end markets**. Notably, Energy is down more than 50% on the loss of rationality from geopolitical actors as oil supply is boosted ahead of a demand reduction. Energy is followed by Financials, Industrials, Consumer Discretionary, and Materials, all of which have underperformed the S&P 500 and are considered the most cyclical sectors in the U.S.

Less economically sensitive sectors performing best in this correction

S&P 500 sector returns since 2/19/20



Source - RBC Wealth Management, FactSet; data through 3/18/20

On the other side of the coin, **more traditionally defensive sectors have held up better than average** with Consumer Staples, Health Care, and Utilities performing best, in that order.

• We think a key signal that a recession is likely to materialize due to this health crisis would be a continuing increase in unemployment insurance claims over the coming weeks. Jobless claims for the week ending March 14 hit 281,000, above the consensus estimate of 218,000. We believe the next few weeks are likely to see elevated results with the initial claims figure expected to rise meaningfully, and very little clarity on what a realistic expectation should be. RBC Capital Markets, LLC Chief U.S. Economist Tom Porcelli believes that the number of initial jobless claims may approach 350,000 in coming weeks based on the strong correlation between unemployment insurance searches on Google and actual claims. But Porcelli also cautions against adopting as a base case assumption the 20% unemployment scenario Treasury Secretary Mnuchin presented to Congress. In his most extreme scenario, Porcelli doesn't see unemployment rising above 15%, a figure based on the leisure, hospitality, and retail industries seeing job cuts of about 50% while health care employment remains flat, which he believes is a highly unlikely outcome.



Arete Zafiriou & Ryan Harder – Toronto

- The fiscal and monetary policy response this week to the growing COVID-19 crisis was unprecedented in its breadth, speed, and magnitude. On the monetary side, asset purchases by central banks have increased rapidly, with the Bank of England restarting its quantitative easing program while the Federal Reserve and European Central Bank expanded both the quantity and eligibility of their asset purchases. Governments around the world also ramped up their efforts: **the Canadian government announced an CA\$83 billion aid package, including CA\$27 billion in direct support and CA\$55 billion in tax deferrals**; in the U.S., an emergency package was signed into law authorizing paid sick leave and other benefits, with the potential for direct cheques to American citizens representing the next step in an additional, much larger aid package.
- Corporate borrowing costs have been increasing rapidly as the risk premium investors demand to lend to corporate issuers has surged. This swift adjustment in borrowing costs has impaired the ability of more heavily leveraged corporate borrowers to quickly access funding, and has added to the volatility in fixed income markets. A

knock-on effect has been reduced liquidity in bond markets, where market makers are struggling with price discovery amid rapid price changes. This lack of liquidity is evident in fixed income exchange-traded funds, where many bond funds are trading at substantial discounts to their net asset values.

The S&P/TSX Composite Index is down 32% since its peak on Feb. 20, with all 11 sectors posting losses. The Energy sector has been hit hardest, down 50% year to date, due to the sharp drop in oil prices amid the Saudi Arabia-Russia price war overlaid by softer demand given the COVID-19 outbreak. The novel coronavirus has also been particularly hard on the Consumer Discretionary sector, which is down 42% year to date. On the other side of the spectrum, the Consumer Staples and Utilities sectors have been the benchmark's best performers, as would normally be expected in down markets.



Frédérique Carrier & Thomas McGarrity, CFA - London

- Since its peak on Feb. 19, **the STOXX Europe 600 is down almost 34%** (through March 19 close). The health care and food & beverage sub-sectors have outperformed on a relative basis, down around 21% and 23%, respectively. **Only nine companies in the index are in positive territory**, six of which are involved in food and/or drug retail. The best performing stock has been **Ocado Group plc**, up 23%. The company reported that its home grocery delivery business has seen increased demand since the beginning of this month, as well as higher-value baskets with an increase in mix of shelf-stable foods.
- Reports from fashion retailers and luxury companies have demonstrated the severe impact COVID-19 is having on trading. Inditex, one of the world's largest fashion retailers, reported a 24% y/y drop in sales between Mar. 1 and Mar. 16, as around 50% of its stores (3,785) are temporarily closed across 39 markets. Luxury goods brand **Burberry** reported that trading has deteriorated significantly with yearover-year retail store sales tracking between -40% and -50% over the past six weeks.
- While the market selloff was relatively indiscriminate initially, the past week has demonstrated **equity investors appear to be shifting to more defensive positioning**. While the STOXX Europe 600 is down 2.4% over the past five trading days (through Mar. 19 close), the telecommunications, food & beverage and health care sub-sectors were up 9.%, 4.8%, and 4.7%, respectively. The retail (led by food retailers), utilities, chemicals, and personal & household good sub-

sectors also held up, with small gains of between 1.0% and 3.7%.

• With respect to portfolio positioning, **we recommend investors in UK and/or European equities adopt a defensive stance**, being overweight the Health Care (particularly pharmaceuticals), Consumer Staples, and Utilities sectors, while being underweight Financials (particularly banks), Energy, and Materials. We see opportunities in select Consumer Discretionary names with sufficiently strong balance sheets to weather the current demand shock.



Asia Pacific

Jasmine Duan - Hong Kong & Nicholas Gwee, CFA - Singapore

- Asian equities have been tumbling during the week following the overseas market turmoil. The Philippine Stock Exchange Index plunged 13.3% today after a twoday market shutdown, making it the worst performer in the region for the week. On the other hand, Japan's Tokyo Stock Price Index (TPX Index) has recorded a 1.75% gain so far this week as investors expect further exchange-traded fund purchases by the Bank of Japan (BOJ).
- Earlier today, China reported no new local cases of coronavirus for the first time since the outbreak began, marking an important turning point. According to the National Development and Reform Commission (NDRC), more than 90% of China's large enterprises outside Hubei province have resumed work. However, on Mar. 13, the government reported that only about 60% small and medium-sized companies outside of Hubei have done the same.
- South Korea also appears to be getting the virus outbreak under control. On Feb. 29, the outbreak's peak in the country, 909 new cases were reported. On most days since then, the number of newly reported cases has been decreasing. On Monday, only 74 new cases were reported, and on Wednesday there were 93. It is believed the country's rapid large-scale virus testing and well-organized contact tracing program have worked well.
- Japan's February consumer price index excluding fresh food was up 0.6% y/y, decelerating from 0.8% in January. The inflation was far below the BOJ's 2% target despite years of massive easing and a recent sales tax hike. Falling energy prices and a near 10% drop in prices of overseas vacation packages were the main factors pressing down the index. The government said the impact of coronavirus hasn't really shown up in the data. As such, we believe there is still downside risk on the index.

0

MARKET SCORECAR

Data as of March 19, 2020

| Equities (local currency) | Level | MTD | YTD | 1 yr | 2 yr | Govt bonds (bps chg) | Govt bonds (bps chg) Yield | Govt bonds (bps chg) Yield MTD | Govt bonds (bps chg) Yield MTD YTD | Govt bonds (bps chg) Yield MTD YTD 1 yr |
|---------------------------|-----------|--------|--------|--------|--------|------------------------|------------------------------|-------------------------------------|---|---|
| S&P 500 | 2,409.39 | -18.4% | -25.4% | -14.9% | -11.2% | U.S. 10-Yr Tsy | U.S. 10-Yr Tsy 1.165% | U.S. 10-Yr Tsy 1.165% 1.6 | U.S. 10-Yr Tsy 1.165% 1.6 -75.3 | U.S. 10-Yr Tsy 1.165% 1.6 -75.3 -144.7 |
| Dow Industrials (DJIA) | 20,087.19 | -20.9% | -29.6% | -22.4% | -18.4% | Canada 10-Yr | Canada 10-Yr 1.001% | Canada 10-Yr 1.001% -13.1 | Canada 10-Yr 1.001% -13.1 -70.1 | Canada 10-Yr 1.001% -13.1 -70.1 -72.7 |
| NASDAQ | 7,150.58 | -16.5% | -20.3% | -7.4% | -2.6% | U.K. 10-Yr | U.K. 10-Yr 0.724% | U.K. 10-Yr 0.724% 28.2 | U.K. 10-Yr 0.724% 28.2 -9.8 | U.K. 10-Yr 0.724% 28.2 -9.8 -46.2 |
| Russell 2000 | 1,058.72 | -28.3% | -36.5% | -31.9% | -32.6% | Germany 10-Yr | Germany 10-Yr -0.193% | Germany 10-Yr -0.193% 41.4 | Germany 10-Yr -0.193% 41.4 -0.8 | Germany 10-Yr -0.193% 41.4 -0.8 -29.0 |
| S&P/TSX Comp | 12,170.52 | -25.2% | -28.7% | -24.8% | -21.9% | Fixed Income (returns) | Fixed Income (returns) Yield | Fixed Income (returns) Yield MTD | Fixed Income (returns) Yield MTD YTD | Fixed Income (returns) Yield MTD YTD 1 yr |
| TSE All-Share | 2,788.37 | -24.1% | -33.6% | -30.5% | -28.5% | U.S. Aggregate | U.S. Aggregate 2.23% | U.S. Aggregate 2.23% -4.0% | U.S. Aggregate 2.23% -4.0% -0.3% | U.S. Aggregate 2.23% -4.0% -0.3% 6.5% |
| STOXX Europe 600 | 287.80 | -23.4% | -30.8% | -25.1% | -23.0% | U.S. Invest Grade Corp | U.S. Invest Grade Corp 4.06% | U.S. Invest Grade Corp 4.06% -11.4% | U.S. Invest Grade Corp 4.06% -11.4% -8.1% | U.S. Invest Grade Corp 4.06% -11.4% -8.1% 1.7% |
| URO STOXX 50 | 2,454.08 | -26.3% | -34.5% | -28.0% | -27.7% | U.S. High Yield Corp | U.S. High Yield Corp 10.12% | U.S. High Yield Corp 10.12% -14.2% | U.S. High Yield Corp 10.12% -14.2% -15.4% | U.S. High Yield Corp 10.12% -14.2% -15.4% -9.4% |
| lang Seng | 21,709.13 | -16.9% | -23.0% | -26.3% | -31.1% | Currencies | Currencies Rate | Currencies Rate MTD | Currencies Rate MTD YTD | Currencies Rate MTD YTD 1 yr |
| Shanghai Comp | 2,702.13 | -6.2% | -11.4% | -12.6% | -17.6% | U.S. Dollar Index | U.S. Dollar Index 102.6250 | U.S. Dollar Index 102.6250 4.6% | U.S. Dollar Index 102.6250 4.6% 6.5% | U.S. Dollar Index 102.6250 4.6% 6.5% 6.5% |
| Nikkei 225 | 16,552.83 | -21.7% | -30.0% | -23.2% | -22.9% | CAD/USD | CAD/USD 0.6888 | CAD/USD 0.6888 -7.8% | CAD/USD 0.6888 -7.8% -10.5% | CAD/USD 0.6888 -7.8% -10.5% -8.2% |
| ndia Sensex | 28,288.23 | -26.1% | -31.4% | -26.3% | -14.1% | USD/CAD | USD/CAD 1.4519 | USD/CAD 1.4519 8.3% | USD/CAD 1.4519 8.3% 11.8% | USD/CAD 1.4519 8.3% 11.8% 9.0% |
| Singapore Straits Times | 2,311.00 | -23.3% | -28.3% | -28.3% | -33.9% | EUR/USD | EUR/USD 1.0688 | EUR/USD 1.0688 -3.1% | EUR/USD 1.0688 -3.1% -4.7% | EUR/USD 1.0688 -3.1% -4.7% -5.8% |
| Brazil Ibovespa | 68,331.80 | -34.4% | -40.9% | -31.4% | -18.6% | GBP/USD | GBP/USD 1.1517 | GBP/USD 1.1517 -10.2% | GBP/USD 1.1517 -10.2% -13.1% | GBP/USD 1.1517 -10.2% -13.1% -13.2% |
| Mexican Bolsa IPC | 35,143.63 | -15.0% | -19.3% | -17.1% | -26.0% | AUD/USD | AUD/USD 0.5740 | AUD/USD 0.5740 -11.9% | AUD/USD 0.5740 -11.9% -18.2% | AUD/USD 0.5740 -11.9% -18.2% -19.0% |
| Commodities (USD) | Price | MTD | YTD | 1 yr | 2 yr | USD/JPY | USD/JPY 110.6600 | USD/JPY 110.6600 2.6% | USD/JPY 110.6600 2.6% 1.9% | USD/JPY 110.6600 2.6% 1.9% -0.7% |
| Gold (spot \$/oz) | 1,472.73 | -7.1% | -2.9% | 12.7% | 11.8% | EUR/JPY | EUR/JPY 118.2800 | EUR/JPY 118.2800 -0.6% | EUR/JPY 118.2800 -0.6% -2.9% | EUR/JPY 118.2800 -0.6% -2.9% -6.5% |
| Silver (spot \$/oz) | 12.11 | -27.3% | -32.2% | -21.2% | -25.8% | EUR/GBP | EUR/GBP 0.9279 | EUR/GBP 0.9279 7.9% | EUR/GBP 0.9279 7.9% 9.7% | EUR/GBP 0.9279 7.9% 9.7% 8.5% |
| Copper (\$/metric ton) | 4,729.50 | -15.8% | -23.1% | -26.9% | -30.6% | EUR/CHF | EUR/CHF 1.0537 | EUR/CHF 1.0537 -1.0% | EUR/CHF 1.0537 -1.0% -2.9% | EUR/CHF 1.0537 -1.0% -2.9% -7.1% |
| Oil (WTI spot/bbl) | 25.22 | -43.7% | -58.7% | -57.3% | -59.4% | USD/SGD | USD/SGD 1.4527 | USD/SGD 1.4527 4.3% | USD/SGD 1.4527 4.3% 7.9% | USD/SGD 1.4527 4.3% 7.9% 7.5% |
| Oil (Brent spot/bbl) | 28.25 | -44.1% | -57.2% | -58.2% | -57.2% | USD/CNY | USD/CNY 7.1086 | USD/CNY 7.1086 1.7% | USD/CNY 7.1086 1.7% 2.1% | USD/CNY 7.1086 1.7% 2.1% 5.9% |
| Natural Gas (\$/mmBtu) | 1.66 | -1.7% | -24.3% | -42.4% | -37.5% | USD/MXN | USD/MXN 24.0143 | USD/MXN 24.0143 22.2% | USD/MXN 24.0143 22.2% 26.9% | USD/MXN 24.0143 22.2% 26.9% 26.3% |
| | | | | | | USD/BRL | USD/BRL 5.0796 | USD/BRL 5.0796 13.6% | USD/BRL 5.0796 13.6% 26.2% | USD/BRL 5.0796 13.6% 26.2% 34.4% |

Source - Bloomberg. Note: Equity returns do not include dividends, except for the Brazilian Ibovespa. Bond yields in local currencies. Copper Index data and U.S. fixed income returns as of Wednesday's close. Dollar Index measures USD vs. six major currencies. Currency rates reflect market convention (CAD/USD is the exception). Currency returns quoted in terms of the first currency in each pairing. Data as of 9:35 pm GMT 3/19/20.

Examples of how to interpret currency data: CAD/USD 0.68 means 1 Canadian dollar will buy 0.68 U.S. dollar. CAD/USD -10.5% return means the Canadian dollar fell 10.5% vs. the U.S. dollar year to date. USD/JPY 110.66 means 1 U.S. dollar will buy 110.66 yen. USD/JPY 1.9% return means the U.S. dollar rose 1.9% vs. the yen year to date.

Authors

Thomas Garretson, CFA – Minneapolis, United States tom.garretson@rbc.com; RBC Capital Markets, LLC

Frédérique Carrier – London, United Kingdom frederique.carrier@rbc.com; RBC Europe Limited

Ben Graham, CFA – Minneapolis, United States benjamin.graham@rbc.com; RBC Capital Markets, LLC

Arete Zafiriou – Toronto, Canada arete.zafiriou@rbc.com; RBC Dominion Securities Inc.

Ryan Harder – Toronto, Canada ryan.harder@rbc.com; RBC Dominion Securities Inc.

Thomas McGarrity, CFA – London, United Kingdom thomas.mcgarrity@rbc.com; RBC Europe Limited

Jasmine Duan – Hong Kong, China jasmine.duan@rbc.com; RBC Investment Services (Asia) Limited

Nicholas Gwee, CFA – Singapore

nicholas.gwee@rbc.com; Royal Bank of Canada, Singapore Branch

Disclosures and Disclaimer

Analyst Certification

All of the views expressed in this report accurately reflect the personal views of the responsible analyst(s) about any and all of the subject securities or issuers. No part of the compensation of the responsible analyst(s) named herein is, or will be, directly or indirectly, related to the specific recommendations or views expressed by the responsible analyst(s) in this report.

Important Disclosures

In the U.S., RBC Wealth Management operates as a division of RBC Capital Markets, LLC. In Canada, RBC Wealth Management includes, without limitation, RBC Dominion Securities Inc., which is a foreign affiliate of RBC Capital Markets, LLC. This report has been prepared by RBC Capital Markets, LLC. which is an indirect whollyowned subsidiary of the Royal Bank of Canada and, as such, is a related issuer of Royal Bank of Canada.

Non-U.S. Analyst Disclosure: Arete Zafiriou and Ryan Harder, employees of RBC Wealth Management USA's foreign affiliate RBC Dominion Securities Inc.; Frédérique Carrier and Thomas McGarrity, employees of RBC Wealth Management USA's foreign affiliate RBC Europe Limited; Jasmine Duan, an employee of RBC Investment Services (Asia) Limited; and Nicholas Gwee, an employee of Royal Bank of Canada, Singapore Branch contributed to the preparation of this publication. These individuals are not registered with or qualified as research analysts with the U.S. Financial Industry Regulatory Authority ("FINRA") and, since they are not associated persons of RBC Wealth Management, they may not be subject to FINRA Rule 2241 governing communications with subject companies, the making of public appearances, and the trading of securities in accounts held by research analysts.

In the event that this is a compendium report (covers six or more companies), RBC Wealth Management may choose to provide important disclosure information by reference. To access current

disclosures, clients should refer to <u>https://www.rbccm.com/</u> <u>GLDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=2</u> to view disclosures regarding RBC Wealth Management and its affiliated firms. Such information is also available upon request to RBC Wealth Management Publishing, 60 South Sixth St, Minneapolis, MN 55402.

References to a Recommended List in the recommendation history chart may include one or more recommended lists or model portfolios maintained by RBC Wealth Management or one of its affiliates. RBC Wealth Management recommended lists include the Guided Portfolio: Prime Income (RL 6), the Guided Portfolio: Dividend Growth (RL 8), the Guided Portfolio: ADR (RL 10), and the Guided Portfolio: All Cap Growth (RL 12). RBC Capital Markets recommended lists include the Strategy Focus List and the Fundamental Equity Weightings (FEW) portfolios. The abbreviation 'RL On' means the date a security was placed on a Recommended List. The abbreviation 'RL Off' means the date a security was removed from a Recommended List.

Distribution of Ratings

For the purpose of ratings distributions, regulatory rules require member firms to assign ratings to one of three rating categories - Buy, Hold/Neutral, or Sell - regardless of a firm's own rating categories. Although RBC Capital Markets, LLC ratings of Top Pick/ Outperform, Sector Perform, and Underperform most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because our ratings are determined on a relative basis.

Explanation of RBC Capital Markets, LLC Equity Rating System An analyst's "sector" is the universe of companies for which the analyst provides research coverage. Accordingly, the rating assigned to a particular stock represents solely the analyst's view of how that stock will perform over the next 12 months relative to the analyst's sector average.

| Distribution of Ratings - RBC Capital Markets, LLC Equity Research | | | | | | | | | | |
|--|-----------------|--------------------|-------|---------|--|--|--|--|--|--|
| | | | | | | | | | | |
| As of December 31, 2019 | | | | | | | | | | |
| Investment Banking Se | | | | | | | | | | |
| | Provided During | ing Past 12 Months | | | | | | | | |
| Rating | Count | Percent | Count | Percent | | | | | | |
| Buy [Top Pick & Outperform] | 765 | 51.97 | 225 | 29.41 | | | | | | |
| Hold [Sector Perform] | 625 | 42.46 | 127 | 20.32 | | | | | | |
| Sell [Underperform] | 82 | 5.57 | 5 | 6.10 | | | | | | |

Ratings:

Top Pick (TP): Represents analyst's best idea in the sector; expected to provide significant absolute total return over 12 months with a favorable risk-reward ratio. **Outperform (O):** Expected to materially outperform sector average over 12 months. **Sector Perform (SP):** Returns expected to be in line with sector average over 12 months. **Underperform (U):** Returns expected to be materially below sector average over 12 months. **Restricted (R):** RBC policy precludes certain types of communications, including an investment recommendation, when RBC is acting as an advisor in certain merger or other strategic transactions and in certain other circumstances. **Not Rated (NR):** The rating, price targets and estimates have been removed due to applicable legal, regulatory or policy constraints which may include when RBC Capital Markets is acting in an advisory capacity involving the company.

Risk Rating:

The **Speculative** risk rating reflects a security's lower level of financial or operating predictability, illiquid share trading volumes, high balance sheet leverage, or limited operating history that result in a higher expectation of financial and/or stock price volatility.

Valuation and Risks to Rating and Price Target

When RBC Wealth Management assigns a value to a company in a research report, FINRA Rules and NYSE Rules (as incorporated into the FINRA Rulebook) require that the basis for the valuation and the impediments to obtaining that valuation be described. Where applicable, this information is included in the text of our research in the sections entitled "Valuation" and "Risks to Rating and Price Target", respectively.

The analyst(s) responsible for preparing this research report have received (or will receive) compensation that is based upon various factors, including total revenues of RBC Capital Markets, LLC, and its affiliates, a portion of which are or have been generated by investment banking activities of RBC Capital Markets, LLC and its affiliates.

Other Disclosures

Prepared with the assistance of our national research sources. RBC Wealth Management prepared this report and takes sole responsibility for its content and distribution. The content may have been based, at least in part, on material provided by our third-party correspondent research services. Our third-party correspondent has given RBC Wealth Management general permission to use its research reports as source materials, but has not reviewed or approved this report, nor has it been informed of its publication. Our third-party correspondent may from time to time have long or short positions in, effect transactions in, and make markets in securities referred to herein. Our thirdparty correspondent may from time to time perform investment banking or other services for, or solicit investment banking or other business from, any company mentioned in this report.

RBC Wealth Management endeavors to make all reasonable efforts to provide research simultaneously to all eligible clients, having regard to local time zones in overseas jurisdictions. In certain investment advisory accounts, RBC Wealth Management or a designated third party will act as overlay manager for our clients and will initiate transactions in the securities referenced herein for those accounts upon receipt of this report. These transactions may occur before or after your receipt of this report and may have a short-term impact on the market price of the securities in which transactions occur. RBC Wealth Management research is posted to our proprietary Web sites to ensure eligible clients receive coverage initiations and changes in rating, targets, and opinions in a timely manner. Additional distribution may be done by sales personnel via e-mail, fax, or regular mail. Clients may also receive our research via third-party vendors. Please contact your RBC Wealth Management Financial Advisor for more information regarding RBC Wealth Management research.

Conflicts Disclosure: RBC Wealth Management is registered with the Securities and Exchange Commission as a broker/dealer and an investment adviser, offering both brokerage and investment advisory services. RBC Wealth Management's Policy for Managing Conflicts of Interest in Relation to Investment Research is available

from us on our website at <u>https://www.rbccm.com/GLDisclosure/</u> <u>PublicWeb/DisclosureLookup.aspx?EntityID=2</u>. Conflicts of interests related to our investment advisory business can be found in Part 2A Appendix 1 of the Firm's Form ADV or the RBC Advisory Programs Disclosure Document. Copies of any of these documents are available upon request through your Financial Advisor. We reserve the right to amend or supplement this policy, Part 2A Appendix 1 of the Form ADV, or the RBC Advisory Programs Disclosure Document at any time.

The authors are employed by one of the following entities: RBC Wealth Management USA, a division of RBC Capital Markets, LLC, a securities broker-dealer with principal offices located in Minnesota and New York, USA; by RBC Dominion Securities Inc., a securities broker-dealer with principal offices located in Toronto, Canada; by RBC Investment Services (Asia) Limited, a subsidiary of RBC Dominion Securities Inc., a securities broker-dealer with principal offices located in Hong Kong, China; by Royal Bank of Canada, Singapore Branch, a licensed wholesale bank with its principal office located in Singapore; and by RBC Europe Limited, a licensed bank with principal offices located in London, United Kingdom.

Research Resources

This document is produced by the Global Portfolio Advisory Committee within RBC Wealth Management's Portfolio Advisory Group. The RBC WM Portfolio Advisory Group provides support related to asset allocation and portfolio construction for the firm's Investment Advisors / Financial Advisors who are engaged in assembling portfolios incorporating individual marketable securities. The Committee leverages the broad market outlook as developed by the RBC Investment Strategy Committee, providing additional tactical and thematic support utilizing research from the RBC Investment Strategy Committee, RBC Capital Markets, and third-party resources.

Third-party disclaimers

The Global Industry Classification Standard ("GICS") was developed by and is the exclusive property and a service mark of MSCI Inc. ("MSCI") and Standard & Poor's Financial Services LLC ("S&P") and is licensed for use by RBC. Neither MSCI, S&P, nor any other party involved in making or compiling the GICS or any GICS classifications makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability and fitness for a particular purpose with respect to any of such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of their affiliates or any third party involved in making or compiling the GICS or any GICS classifications have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

References herein to "LIBOR", "LIBO Rate", "L" or other LIBOR abbreviations means the London interbank offered rate as administered by ICE Benchmark Administration (or any other person that takes over the administration of such rate).

Disclaimer

The information contained in this report has been compiled by RBC Wealth Management, a division of RBC Capital Markets, LLC, from sources believed to be reliable, but no representation or warranty, express or implied, is made by Royal Bank of Canada, RBC Wealth Management, its affiliates or any other person as to its accuracy, completeness or correctness. All opinions and estimates contained in this report constitute RBC Wealth Management's judgment as of the date of this report, are subject to change without notice and are provided in good faith but without legal responsibility. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. Every province in Canada, state in the U.S., and most countries throughout the world have their own laws regulating the types of securities and other investment products which may be offered to their residents, as well as the process for doing so. As a result, the securities discussed in this report may not be eligible for sale in some jurisdictions. This report is not, and under no circumstances should be construed as, a solicitation to act as securities broker or dealer in any jurisdiction by any person or company that is not legally permitted to carry on the business of a securities broker or dealer in that jurisdiction. Nothing in this report constitutes legal, accounting or tax advice or individually tailored investment advice. This material is prepared for general circulation to clients, including clients who are affiliates of Royal Bank of Canada, and does not have regard to the particular circumstances or needs of any specific person who may read it. The investments or services contained in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about the suitability of such investments or services. To the full extent permitted by law neither Royal Bank of Canada nor any of its affiliates, nor any other person, accepts any liability whatsoever for any direct, indirect or consequential loss arising from, or in connection with, any use of this report or the information contained herein. No matter contained in this document may be reproduced or copied by any means without the prior written consent of Royal Bank of Canada in each instance. Additional information is available upon request.

To U.S. Residents: This publication has been approved by RBC Capital Markets, LLC, Member NYSE/FINRA/SIPC, which is a U.S. registered broker-dealer and which accepts responsibility for this report and its dissemination in the United States. RBC Capital Markets, LLC, is an indirect wholly-owned subsidiary of the Royal Bank of Canada and, as such, is a related issuer of Royal Bank of Canada. Any U.S. recipient of this report that is not a registered broker-dealer or a bank acting in a broker or dealer capacity and that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, should contact and place orders with RBC Capital Markets, LLC. International investing involves risks not typically associated with U.S. investing, including currency fluctuation, foreign taxation, political instability and different accounting standards. To Canadian Residents: This publication has been approved by RBC Dominion Securities Inc. RBC Dominion Securities Inc.* and Royal Bank of Canada are separate corporate entities which are affiliated. *Member-Canadian Investor Protection Fund. ®Registered trademark of Royal Bank of Canada. Used under license. RBC Wealth Management is a registered trademark of Royal Bank of Canada. Used under license.

RBC Wealth Management (British Isles): This publication is distributed by RBC Europe Limited and RBC Investment Solutions (CI) Limited. RBC Europe Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority (FCA registration number: 124543). Registered office: Riverbank House, 2 Swan Lane, London, EC4R 3BF, UK. RBC Investment Solutions (CI) Limited is regulated by the Jersey Financial Services Commission in the conduct of investment business in Jersey. Registered office: Gaspé House, 66-72 Esplanade, St Helier, Jersey JE2 3QT, Channel Islands, registered company number 119162.

To Hong Kong Residents: This publication is distributed in Hong Kong by Royal Bank of Canada, Hong Kong Branch which is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission ('SFC'), and RBC Investment Services (Asia) Limited, which is regulated by the SFC.

To Singapore Residents: This publication is distributed in Singapore by the Royal Bank of Canada, Singapore Branch, a registered entity licensed by the Monetary Authority of Singapore. This material has been prepared for general circulation and does not take into account the objectives, financial situation, or needs of any recipient. You are advised to seek independent advice from a financial adviser before purchasing any product. If you do not obtain independent advice, you should consider whether the product is suitable for you. Past performance is not indicative of future performance. If you have any questions related to this publication, please contact the Royal Bank of Canada, Singapore Branch. Royal Bank of Canada, Singapore.

© RBC Capital Markets, LLC 2020 – Member NYSE/FINRA/SIPC © RBC Dominion Securities Inc. 2020 – Member Canadian Investor Protection Fund © RBC Europe Limited 2020 © Royal Bank of Canada 2020

© Royal Bank of Canada 20 All rights reserved RBC1253