Global Economic Effects of COVID-19

Updated November 19, 2020
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In the months since the COVID-19 outbreak was first diagnosed, it has spread to over 200 countries and all U.S. states. The pandemic has negatively affected global economic growth beyond anything experienced in nearly a century. Estimates so far indicate the virus could reduce global economic growth to an annualized rate of -4.5% to -6.0% in 2020, with a partial recovery of a rate of 2.5% to 5.2% in 2021. However, a resurgence in infectious cases in Europe, the United States, and various developing economies in September and October renewed calls for lockdowns and curfews and could weaken or delay an economic recovery. The economic fallout from the pandemic could also risk continued labor dislocations as a result of lingering high levels of unemployment not experienced since the Great Depression of the 1930s and high levels of debt among developing economies. The human costs in terms of lives lost will permanently affect global economic growth in addition to the cost of rising levels of poverty, lives upended, careers derailed, and increased social unrest. Some estimates indicate that 100 million to 110 million people globally could enter extreme poverty as a result of the contraction in the global economy. Global trade could fall by an annual amount of 9.2%, depending on the depth and extent of the global economic downturn, exacting an especially heavy economic toll on trade-dependent developing and emerging economies. The full impact will not be known until the effects of the pandemic peak. This report provides an overview of the global economic costs to date and the response by governments and international institutions to address these effects.
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Overview

The World Health Organization (WHO) first declared COVID-19 a world health emergency in January 2020; on March 11 it announced the viral outbreak was officially a pandemic, the highest level of health emergency.¹ Since then, the emergency has evolved into a global public health and economic crisis that has affected the $90 trillion global economy beyond anything experienced in nearly a century. The virus has been detected in over 200 countries and all U.S. states.² In early March 2020, the focal point of infections shifted from China to Europe, especially Italy, but by April, the focus had shifted to the United States, where the number of infections was accelerating. The infection has sickened more than 55 million people, about one-fifth in the United States, with more than 1.3 million fatalities. At one point, more than 80 countries had closed their borders to arrivals from countries with infections, ordered businesses to close, instructed their populations to self-quarantine, and closed schools to an estimated 1.5 billion children.³

Governments are attempting to balance often-competing policy objectives between addressing the public health crisis and economic considerations that include, but are not limited to these:

- Confronting ballooning budget deficits weighed against increasing spending to support unemployed workers and social safety nets.
- Providing financial support for national health systems that are under pressure to develop vaccines while also funding efforts to care for and safeguard citizens.
- Implementing monetary and fiscal policies that support credit markets and sustain economic activity, while also assisting businesses under financial distress.
- Implementing fiscal policies to stimulate economic activity, while consumers in developed economies have maintained high rates of saving relative to pre-pandemic rates as households face limited spending opportunities, or a form of involuntary saving, and concerns over their jobs, incomes, and the course of their economies, or precautionary saving.
- Intervening in sovereign debt and corporate bond markets by central banks and monetary authorities to stabilize markets and insure liquidity, while also raising concerns among some analysts that this intervention is compromising the ability of the markets to perform their traditional functions of pricing risk and allocating capital.
- Adopting fiscal and monetary policies to address the immediate impact of the health crisis compared with the mix of such policies between assisting households, firms, or state and local governments that may be needed going forward should the health and economic crises persist.
- Differing national approaches to providing government-funded economic support to workers that vary between short-term unemployment insurance programs to


sustain workers incomes, although not directed at maintaining employment in their previous jobs, and programs that delay labor market adjustments by supporting workers in their pre-COVID-19 jobs, identified as job-retention programs, even as those jobs could disappear once the support ends.\(^4\)

A growing list of economic indicators makes it clear the COVID-19 pandemic is negatively affecting global economic growth on a scale not experienced since at least the global financial crisis of 2008-2009.\(^5\) U.S. and European economies experienced the beginnings of a recovery in the third quarter with the U.S. economy growing by 7.4%, or an annual rate of 33%, and the Eurozone economy growing by 12.7%. That recovery may be weakened by a resurgence of infectious cases in September and October and a return to lockdowns.

According to analysis prepared by the International Monetary Fund (IMF) for the November 21-22 G-20 Leaders’ Summit Meeting, the global economy had started recovering in the third quarter, but “there are signs that the recovery may be losing momentum, and the crisis is likely to leave deep, unequal scars.”\(^6\) The IMF also concluded that: (1) per capita incomes will remain below the pre-pandemic levels for several years, adversely affecting productivity; (2) the demands placed on national health systems to address the pandemic could hinder the treatment of other diseases; (3) business bankruptcies could reduce productivity; and (4) rising debt levels could crowd out potential borrowing and investment.\(^7\) In addition, the IMF urged G-20 leaders to maintain accommodative monetary policy and continue to provide fiscal support for individuals and firms and then engage in a synchronized infrastructure investment program to promote growth. According to an IMF analysis, an increase in infrastructure spending by G-20 countries of one-half percent of their GDP in 2021 and 1% in 2022 through 2025 would increase global GDP by 2% in 2025, compared with under 1.2% growth for an unsynchronized approach.\(^8\)

To date, the global pandemic has affected a broad swath of international economic and trade activities, from services generally to tourism and hospitality, medical supplies and other global value chains, consumer electronics, and financial markets to energy, transportation, food, and a range of social activities, to name a few. In particular, the health crisis is negatively affecting the economies of developing countries that are constrained by limited financial resources and where health systems have quickly become overloaded. The International Monetary Fund (IMF) estimated in October 2020 the economic fallout from the pandemic could push 100 million to 110 million people in Sub-Saharan Africa and South Asia into extreme poverty, reversing a decades-long trend.\(^9\) However, the IMF indicated that spending on social programs to limit the impact of the pandemic could reduce the number of people falling into extreme poverty to 80 to 90 million.

Without a clear understanding of when the global health and economic effects may peak and a greater understanding of the impact on economies, forecasts must necessarily be considered preliminary. Similarly, estimates of when any recovery might begin and the speed of the recovery are speculative. Forecasts have been updated several times during the first three quarters of 2020.

\(^4\) Job Retention Schemes During the COVID-19 Lockdown and Beyond, Organization for Economic Cooperation and Development, August 3, 2020.
\(^5\) Mapping the Spread of the COVID-19.
\(^6\) G-20 Surveillance Note, International Monetary Fund, November 2020, p. 2.
\(^7\) Ibid, p. 6.
\(^8\) Ibid, p. 10.
\(^9\) Fiscal Monitor, International Monetary Fund, October 2020, p. 10.
to incorporate additional data, initially reflecting worsening global and national economic growth estimates, but also reflecting more positive data in the third quarter.

Efforts to reduce social interaction to contain the spread of the virus are disrupting the daily lives of most Americans and adding to the economic costs. Increased rates of unemployment are raising the prospects of social unrest in developed economies where lost incomes and health insurance are threatening living standards and in developing economies where populations reportedly have raised concerns over access to basic necessities and the prospects of rising levels of poverty.¹⁰ U.N. Secretary General Antonio Guterres argued in a video conference before the U.N. Security Council on April 10, 2020, that

[T]he pandemic also poses a significant threat to the maintenance of international peace and security—potentially leading to an increase in social unrest and violence that would greatly undermine our ability to fight the disease.¹¹

Policymakers and financial and commodity market participants generally had estimated that a global economic recovery would take hold in the third quarter of 2020. A resurgence in infectious cases in developed and developing countries in September and October, however, could shift more of the recovery to 2021. Various indicators in the third quarter suggested the worst of the economic crisis had passed, although the extent and strength of any global economic recovery remains difficult to predict. Estimates indicate that China’s economy grew by 4.9% in the third quarter, driven by an increase in industrial production and consumer demand, marking it one of the few economies that likely will post an overall positive rate of growth for 2020.¹² At the same time, an economic recovery appeared to be stalling in Europe and the United States.

In contrast to the global financial crisis of 2008-2009 that primarily affected developed economies with highly advanced globally inter-connected financial sectors, the COVID-19 pandemic is having a pronounced impact on both developed and developing economies. Updated forecasts generally indicate that developed economies may recover more quickly than previously forecasted, but some developing economies could recover more slowly with large increases in the shares of their populations sliding back into poverty. Some forecasts raise the prospects that the pandemic could negatively affect global economic growth more extensively and for a longer period of time than had originally been estimated.

On Monday, November 9, the Dow Jones Industrial Index (DJIA), along with other market indices, rose nearly three percentage points reportedly on news that a COVID-19 vaccine had been developed.¹³ Prospects of a vaccine may signal an eventual end to the business lockdowns and social restrictions and reduce demands on policymakers to weigh implementing additional fiscal and monetary policies. Until a vaccine can be employed nationwide, however, policymakers may have to weigh continuing efforts that balance the competing requirements of


households, firms, and state and local governments. Various U.S. states reversed course in late June to impose or re-impose social distancing guidelines and close businesses that had begun opening as a result of a rise in new confirmed cases of COVID-19, raising the prospect of a delayed recovery. A prolonged recovery could also increase the financial strains on small and medium-sized firms that face liquidity constraints and the prospects of insolvency.\textsuperscript{14}

Differences in policy approaches between countries initially slowed a coordinated response, potentially inflicting longer-term damage to the global economy by impairing international political, trade, and economic relations, particularly between countries that promoted nationalism and those that argued for a coordinated international response to the pandemic. Policy differences have also strained relations between developed and developing economies and between northern and southern members of the Eurozone, challenging alliances and conventional concepts of national security, and raising questions about the future of global leadership.

In some countries, the pandemic elevated the importance of public health as a national security issue and as a national economic priority on a par with traditional national security concerns such as terrorism, cyberattacks, and proliferation of weapons of mass destruction.\textsuperscript{15} The pandemic-related economic and human costs could have long-term repercussions for economies through the tragic loss of life and job losses that derail careers and permanently shutter businesses. Fiscal and monetary measures implemented to prevent a financial crisis and sustain economic activity may have inadvertently worsened income and wealth disparities. Within some countries, the economic fallout may have widened racial and socio-economic cleavages and increased social unrest. In speaking about these costs for Americans, Federal Reserve Chairman Powell said on May 19, 2020,

Since the pandemic arrived in force just two months ago, more than 20 million people have lost their jobs, reversing nearly 10 years of job gains. This precipitous drop in economic activity has caused a level of pain that is hard to capture in words, as lives are upended amid great uncertainty about the future.\textsuperscript{16}

In the United States, over the 36-week period from mid-March to mid-November 2020, about 68.2 million Americans filed for unemployment insurance, as indicated in Table 1.\textsuperscript{17} On a seasonally adjusted basis, the number of insured unemployed individuals was 6.4 million in early November, down from a peak of 25 million in mid-May. As indicated in Figure 1, weekly claims have fallen from the sharp increases recorded in April and May, declining to 742,000 in the week ending November 14, after totaling 711,00 the previous week, four times higher than the average number of weekly claims of about 200,000 recorded prior to the COVID-19 pandemic. The increase in week-over-week claims marked the first such increase since October 10, 2020. In the week ending October 31, 20.3 million people claimed benefits in all programs, up from 1.4 million in the comparable week in 2019. The insured unemployment rate for the week ending

\textsuperscript{14} Global Financial Stability Report, International Monetary Fund, October 2020, p. 1.


\textsuperscript{16} Powell, Jerome H. Coronavirus and CARES Act, Testimony before the Committee on Banking, Housing and Urban Affairs, U.S. Senate, May 19, 2020.

November 7 was 4.3%, also down from the peak reached in early May. As some workers approach the 26-week maximum for receiving standard unemployment benefits they may be applying for benefits under the Pandemic Emergency Unemployment Compensation (PEUC) program or the Pandemic Unemployment Assistance (PUA) program. Between October 24 and October 31, claims under the PEUC program increased from 4.1 million to 4.4 million, while claims under the PUA program decreased from 9.4 million to 8.7 million.

**Figure 1. Initial U.S. Weekly Claims for Unemployment Insurance, 2020**

In millions of individual claims

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18 Both programs were authorized under P.L. 116-136, March 27, 2020, the Coronavirus Aid, Relief, and Economic Security (CARES) Act, with benefits ending December 31, 2020. The PUA program provides 39 weeks of unemployment assistance, including $600 weekly benefits (expired in August 2020), under certain conditions, for workers who have exhausted regular unemployment benefits, were not eligible for regular benefits, or were not eligible for benefits under the PEUC program. The PEUC program provides 13 weeks of additional benefits to individuals who have exhausted standard unemployment assistance and meets other eligibility requirements. DOL, *Unemployment Insurance Program Letter No. 17-20*, April 10, 2020; DOL, *Unemployment Insurance Program Letter No. 16-20*, April 5, 2020.

19 This total does not include 10.9 million workers who were working part time not by choice and 9.9 million individuals who were seeking employment.


21 This total does not include 6.3 million workers who were working part time not by choice and 7.2 million individuals who were seeking employment.

22 *The Employment Situation—September 2020*, Bureau of Labor Statistics, October 2, 2020, https://www.bls.gov/. BLS indicated that some individuals were misclassified in previous months. Instead of being classified as unemployed, they...
Table 1. Seasonally Adjusted Weekly Unemployment Insurance Claims

<table>
<thead>
<tr>
<th>Week Ending</th>
<th>Initial Claims</th>
<th>Change from Prior Week</th>
<th>Insured Unemployment</th>
<th>Insured Unemployment Rate</th>
<th>Total Claims</th>
</tr>
</thead>
<tbody>
<tr>
<td>21-Mar-20</td>
<td>3,307</td>
<td>-305</td>
<td>3,059</td>
<td>2.1%</td>
<td>3,307</td>
</tr>
<tr>
<td>28-Mar-20</td>
<td>6,867</td>
<td>-3,025</td>
<td>3,059</td>
<td>5.1</td>
<td>10,174</td>
</tr>
<tr>
<td>4-Apr-20</td>
<td>6,615</td>
<td>-252</td>
<td>11,914</td>
<td>8.2</td>
<td>16,789</td>
</tr>
<tr>
<td>11-Apr-20</td>
<td>5,237</td>
<td>-1,378</td>
<td>15,819</td>
<td>10.9</td>
<td>22,026</td>
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<td>18-Apr-20</td>
<td>4,442</td>
<td>-795</td>
<td>18,011</td>
<td>12.4</td>
<td>26,468</td>
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<tr>
<td>25-Apr-20</td>
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<td>-575</td>
<td>22,377</td>
<td>15.4</td>
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</tr>
<tr>
<td>2-May-20</td>
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<td>-691</td>
<td>22,548</td>
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<td>9-May-20</td>
<td>2,687</td>
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<td>24,912</td>
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<td>30-May-20</td>
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<td>20,606</td>
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<td>6-Jun-20</td>
<td>1,566</td>
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<td>20,544</td>
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<td>13-Jun-20</td>
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<td>19,231</td>
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<td>45,770</td>
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<tr>
<td>20-Jun-20</td>
<td>1,482</td>
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<td>19,290</td>
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<td>27-Jun-20</td>
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<td>17,760</td>
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<td>48,660</td>
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<td>4-Jul-20</td>
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<td>-98</td>
<td>17,304</td>
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<td>49,970</td>
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<tr>
<td>11-Jul-20</td>
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<td>16,151</td>
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<td>16,951</td>
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<td>25-Jul-20</td>
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<td>1-Aug-20</td>
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<td>8-Aug-20</td>
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<td>-220</td>
<td>14,759</td>
<td>10.1</td>
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<td>15-Aug-20</td>
<td>1,104</td>
<td>133</td>
<td>14,492</td>
<td>9.9</td>
<td>57,401</td>
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<tr>
<td>22-Aug-20</td>
<td>1,011</td>
<td>-98</td>
<td>13,254</td>
<td>9.1</td>
<td>58,412</td>
</tr>
<tr>
<td>29-Aug-20</td>
<td>884</td>
<td>-127</td>
<td>13,544</td>
<td>9.3</td>
<td>59,296</td>
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<tr>
<td>5-Sep-20</td>
<td>893</td>
<td>9</td>
<td>12,747</td>
<td>8.7</td>
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<tr>
<td>12-Sep-20</td>
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<td>-27</td>
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<td>19-Sep-20</td>
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<td>26-Sep-20</td>
<td>849</td>
<td>-24</td>
<td>10,594</td>
<td>7.2</td>
<td>62,777</td>
</tr>
<tr>
<td>3-Oct-20</td>
<td>767</td>
<td>-82</td>
<td>9,398</td>
<td>6.4</td>
<td>63,544</td>
</tr>
<tr>
<td>10-Oct-20</td>
<td>842</td>
<td>75</td>
<td>8,472</td>
<td>5.8</td>
<td>64,386</td>
</tr>
<tr>
<td>17-Oct-20</td>
<td>791</td>
<td>-45</td>
<td>7,823</td>
<td>5.3</td>
<td>65,183</td>
</tr>
<tr>
<td>24-Oct-20</td>
<td>758</td>
<td>-39</td>
<td>7,222</td>
<td>4.9</td>
<td>65,941</td>
</tr>
</tbody>
</table>

were misclassified as employed, but absent from work due to coronavirus-related business closures. If such individuals had been classified as unemployed, the unemployment rate would have been 5 percentage points higher in April.
Revised data also indicate that U.S. GDP fell by 9.0% in the second quarter of 2020 from the previous quarter, or at an annualized rate of 31%, the largest quarterly decline in U.S. GDP recorded over the past 70 years.\(^{23}\) Preliminary data, however, indicate that U.S. GDP grew by 7.4% in the third quarter, or at an annualized rate of 33%, based primarily on gains in personal consumption, reflecting an increase in income and continued government income support.\(^{24}\) In its October 21 Beige Book analysis, the Federal Reserve (Fed) reported that economic activity had increased modestly in each of the 12 Federal Reserve districts during the third quarter, although economic activity remained below average levels. The manufacturing, residential housing, and banking sectors reported positive increases in economic activity.\(^{25}\)

In Europe, governments attempted a phased reopening of businesses over the summer.\(^{26}\) As a result of these efforts, the Eurozone experienced a 12.7% increase in GDP in the third quarter. After several months of data indicating an economic rebound had begun in the Eurozone, surveys of business activity in August reportedly indicated the recovery had slowed amid an increase in new COVID-19 cases and countries had begun reimposing new quarantines and lockdowns in various parts of the Euro area, although most lockdowns have not include schools or some manufacturing firms.\(^{27}\) Such lockdowns became more widespread in September and October as infections cases began rising in Germany, France, the United Kingdom, the Czech Republic, the Netherlands, Spain, and Poland.\(^{28}\) By mid-October, Greece and Belgium also had begun implementing business lockdowns and social distancing measures. Germany reportedly closed bars, restaurants, and most public entertainment, France closed bars and restaurants and imposed travel restrictions, and on October 3, 2020 UK Prime Minister Boris Johnson announced a month-long

<table>
<thead>
<tr>
<th>Week Ending</th>
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<th>Insured Unemployment</th>
<th>Insured Unemployment Rate</th>
<th>Total Claims</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-Oct-20</td>
<td>757</td>
<td>-1</td>
<td>6,801</td>
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<td>7-Nov-20</td>
<td>711</td>
<td>-46</td>
<td>6,372</td>
<td>4.3</td>
<td>67,409</td>
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<tr>
<td>14-Nov-20</td>
<td>742</td>
<td>31</td>
<td></td>
<td></td>
<td>68,151</td>
</tr>
</tbody>
</table>

**Source:** Department of Labor, CRS calculations.


lockdown across the UK. Given these actions, various economist forecasted the Eurozone economy could shrink by 2.3% in fourth quarter 2020.

The European Commission’s (EC) July 8, 2020, forecast (an updated forecast is expected to be published in November 2020) projected that EU economic growth in 2020 could contract by 8.3% and only partially recover in 2021. In addition, the EC forecasted a larger drop in gross domestic product (GDP) in 2020 among European economies than it had forecasted in its spring report, with a less vibrant recovery in 2021. Second quarter data indicate that economic growth in the EU contracted by 11.7% from the first quarter of 2020 and by 14.1% compared with the same quarter in 2019. Second quarter data also indicated the UK economy contracted by 20.4% in 2020, the largest quarterly decline on record. On September 1, 2020, Eurostat, the statistical office of the European Commission, released data indicating that the Eurozone experienced price deflation in August of 0.2% at an annual rate, primarily as a result of declining energy prices.

After protracted talks, European leaders agreed on July 21 to a new €750 billion (about $859 billion) pandemic economic assistance package to support European economies. Draft budget estimates submitted by Eurozone governments in the fall of 2020 indicate the countries could experience a combined budget deficit of nearly €1 trillion, or equivalent to about 9% of their annual GDP. The rise in budget deficits reflects the growing cost to governments of supporting their economies to sustain economic activity and a marked change in attitudes toward budget deficits also reflected in statements by the IMF and World Bank. Second quarter data also indicated that employment among EU countries fell by 2.6%, or 5.5 million jobs in 2020. The jobs data, however, do not include roughly 45 million people, or a third of the workforce in Germany, France, Britain, Italy, and Spain, currently covered by employment protection programs. Similarly, Japan reported on August 17 that its economy contracted by 7.8% in the second quarter of 2020, compared with the previous quarter, or at an annual a rate of 27.8%.

On September 10, 2020, European Central Bank (ECB) President Christine Lagarde indicated the Eurozone economy could contract by 8% in 2020, but would partially recover in 2021 by growing at an annual rate of 5.0%. In the early stages of the pandemic, foreign investors pulled an estimated $26 billion out of developing Asian economies not including more than $16 billion out of India, increasing concerns about a major economic recession in Asia. Some estimates indicate that 29 million people in Latin America could fall into poverty, reversing a decade of efforts to narrow income inequality. Some analysts also expressed concern that Africa, after escaping the


30 Arnold, Martin, Eurozone Economic Forecasts Slashed as Fresh Lockdowns Imposed, Financial Times, November 2, 2020, https://www.ft.com/content/3269f590-1c411f-8320-110c-91c1f12e2.


34 Ben Hall, Ben, Delphine Strauss, and Daniel Dombey, Millions of European Jobs at Risk When Furlough Support Ends, Financial Times, August 14, 2020. https://www.ft.com/content/0f01a9ed-5b15-4e2d-921c-6eed7a80d0a.


initial spread of infections, could face a sharp increase in rates of infection outside South Africa, Egypt, Nigeria, Algeria, and Ghana, where most of the initial infections had occurred.37

On August 31, 2020, India reported the second quarter GDP growth rate fell by 23.9% compared with the first quarter, raising concerns that the country could experience its most severe economic contraction on record.38 Preliminary forecasts indicate that India’s economy contracted by 8.6% in the third quarter of 2020, reportedly reflecting increased consumer activity.39 On November 12, India’s finance minister announced a new package of fiscal measures totaling $35 billion to increase consumer spending and to assist manufacturing, agriculture, and exports. The move followed an announcement by India’s cabinet that it had approved a spending package of $27 billion to provide in incentives over five years to manufacturing firms, including automobiles, auto parts, pharmaceuticals, textiles, and food products.40

As a consequence of the resurgence in cases and renewed lockdowns in economies, the IMF argued that advanced economies need to sustain fiscal support for consumers and businesses as the most effective means of stimulating their economies. The IMF argued this support is necessary because the global economy is experiencing what economists term a Keynesian liquidity trap, named after economist John Maynard Keynes. In theoretical terms, a liquidity trap exists when central banks’ key interest rates are so low they have little impact through traditional means to affect business and consumer activity. According to the IMF, in 60% of the global economy, central banks have pushed key interest rates below 1% and in one-fifth of the global economy, interest rates are below zero. In these circumstances, adjusting fiscal policy, or government taxing and spending, is more effective in raising the rate of economic growth.41 The IMF concluded that, “Fiscal policy must play a leading role in the recovery.”

Economic Policy Responses

After a delayed response, central banks and monetary authorities in developed and emerging market economies have engaged in an ongoing series of interventions in financial markets and national governments have adopted an array of fiscal policy initiatives to stimulate their economies. The Bank for International Settlements (BIS) characterized the pandemic as fully global in nature, eliciting a fiscal, monetary, and prudential response that has surpassed that of the global financial crisis of 2008-2009. In addition, the BIS argues the evolving nature of the health crisis is causing the financial crisis to evolve as well, changing from a liquidity crisis in the initial stages to a solvency crisis that could worsen if the economic recovery is delayed. As a result of the potential damage to the global economy arising from the pandemic, the BIS stated that future economic historians may describe the pandemic as, “the defining moment of the 21st century.”42

Fiscal Measures

As indicated in Table 2, central governments adopted various fiscal measures to provide financial support to the health sector, households, and firms, although the size and scope of the programs vary by country. These measures broadly include tax cuts and tax deferrals for individuals and businesses, wage and income supplements to individuals, including expanding unemployment insurance, and other payments to businesses. The U.S. Congress also approved historic fiscal spending packages. In other countries, governments abandoned traditional borrowing caps to increase fiscal spending in order to sustain economic growth. In some emerging economies, governments reportedly adopted special programs to provide financial assistance to “informal” workers, or workers outside traditional labor markets such as family businesses.

In developed economies, however, as governments adopted fiscal packages to assist households, consumers sharply increased their savings as they faced limited spending opportunities, or a form of involuntary saving, and concerns over lost jobs, incomes, and the course of their economies, or precautionary saving. (For additional countries and measures, see Appendix A of this report.) International organizations also took steps to provide loans and other financial assistance to countries in need. These and other actions have been labeled “unprecedented,” a term that has been used frequently to describe the pandemic and the policy responses.

Table 2. Elements of Announced Fiscal Measures to Address COVID-19

<table>
<thead>
<tr>
<th>Measures</th>
<th>Advanced Economies</th>
<th>Emerging Market Economies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measures supporting the health sector</td>
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<td></td>
</tr>
<tr>
<td>Supporting households</td>
<td></td>
<td></td>
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<tr>
<td>Targeted transfers</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Other labor income support</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Wage subsidies</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Tax cuts</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Tax deferral</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Measures supporting firms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tax deferral</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Liquidity support</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Tax cuts</td>
<td>x x x x x x x</td>
<td></td>
</tr>
<tr>
<td>Targeted transfers</td>
<td>x x x x x x x</td>
<td></td>
</tr>
</tbody>
</table>

43 Ibid.
44 Ibid, p. 25.
Global Economic Effects of COVID-19


Notes:
- Includes cash and in-kind transfers to affected households.
- Extended unemployment and sick leave benefits.
- Non-budgetary measures such as equity injections, asset purchases, loans and debt assumptions or government guarantees and contingent liabilities, US: United States; JP: Japan; DE: Germany; FR: France; IT: Italy; ES: Spain; GB: Great Britain; BR: Brazil; CN: China; ID: Indonesia; IN: India; KR: South Korea; MX: Mexico; RU: Russia; ZA: South Africa.

Fiscal Deficits

As one measure of the global fiscal and monetary responses, the IMF estimated that government spending and revenue measures to sustain economic activity adopted through September 2020 amounted to $5.4 trillion and that loans, equity injections and guarantees totaled an additional $5.4 trillion, or a total of $10.8 trillion. The IMF also updated its estimate of the increase in borrowing by governments globally to rise from 3.9% of global gross domestic product (GDP) in 2019 to 12.7% in 2020, as indicated in Figure 2. Other estimates indicate that central banks have committed $17 trillion to support their economies to counter pandemic-related economic effects.

Figure 2. IMF Projected Government Fiscal Deficits Relative to GDP

In percentage shares of Gross Domestic Product

Source: Fiscal Monitor, International Monetary Fund, October 2020, Table 1.1. Created by CRS.

Notes: Data for 2020 are estimates.

Among developed economies, the fiscal deficit to GDP ratio is projected to rise from 3.3% in 2019 to 14.4% in 2020; the ratio for the United States is projected to rise from 6.3% to 18.7%, respectively, the highest ratio for any country or region. According to the IMF, France, Germany, Italy, Japan, and the United Kingdom have each announced public sector support

45 World Economic Outlook Update, International Monetary Fund, June 24, 2020, p. 16.
47 Fiscal Monitor, International Monetary Fund, October 2020, Table 1.1.
measures that total more than 10% of their annual GDP. For developing economies, the fiscal deficit to GDP ratio is projected to rise from 4.9% to 10.7%, significantly increasing their debt burden and raising prospects of defaults or debt rescheduling. According to some estimates, the most fiscally vulnerable countries are Argentina, Venezuela, Lebanon, Jordan, Iran, Zambia, Zimbabwe, and South Africa. The IMF concluded that among developing countries high debt levels could become “unmanageable” and test the resilience of banks in some countries.

The IMF also argued there is a growing disconnect between the pricing of risk in financial markets and projected economic prospects, because investors apparently expect a quick recovery based on continued and unprecedented central bank intervention. However, a perceived or real shift in central bank intervention in financial markets could negatively affect investors’ concept of risk and, in turn, negatively affect asset markets and the economic recovery. In addition to central banks’ actions, the IMF concludes that a number of pre-existing vulnerabilities could affect the timing and the rate of the economic recovery. These vulnerabilities include corporate and household debt levels in developed and some emerging economies that could become unmanageable in a prolonged recession; a rising number of insolvencies that could test the resilience of the banking sector; additional stresses that could affect nonbank financial institutions; and the prospect of some developing economies facing high external financing requirements.

Worker Assistance Programs

As part of their fiscal policy measures, governments in advanced economies either enhanced existing worker support programs, or adopted new programs. As indicated in Table 3, the OECD categorized the various job retention programs into six major groups, which the OECD estimated that by May 2020 had supported 50 million workers in developed economies. The programs consisted of short-term support that subsidized hours not worked, or wage subsidies that also subsidized hours worked. Some countries also eased qualification requirements to facilitate workers or businesses gaining access to support funds. Although programs varied across countries, programs to assist workers generally were comprised of subsidies to support workers for work hours lost or extended wage subsidies to maintain pre-pandemic employment levels. Other programs assisted individual firms in retaining workers with the objective of facilitating a quick return to full activity once pandemic-related restrictions are lifted. In some cases, benefits were increased by extending the length of time benefits are available and benefits were extended to workers in non-standard jobs such as temporary and self-employed workers. New programs adopted by some OECD members were designed to assist some temporary and non-standard workers quickly gain access to support funds.

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49 Ibid., p. 6.
52 Ibid, p. 4.
53 Ibid, p. 6-7.
54 Job Retention Schemes During the COVID-19 Lockdown and Beyond, Organization for Economic Cooperation and Development, August 3, 2020, p. 2.
55 Ibid, p. 5-6.
### Table 3. Developed Economy Worker Support Programs During COVID-19

<table>
<thead>
<tr>
<th>Country</th>
<th>Pre-existing short-time work scheme</th>
<th>Increased access and coverage</th>
<th>Increased benefit generosity</th>
<th>Increased access for workers in non-standard jobs</th>
<th>New short-time work scheme</th>
<th>New wage subsidy scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Austria</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Belgium</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canada</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chile*</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Czech Republic</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Denmark</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Estonia</td>
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<td></td>
</tr>
<tr>
<td>Finland</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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</tr>
<tr>
<td>France</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Germany</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Greece</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
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<tr>
<td>Hungary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Iceland</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Ireland*</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Italy</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Japan</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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</tr>
<tr>
<td>Korea</td>
<td>x</td>
<td>x</td>
<td></td>
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<tr>
<td>Latvia</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
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<tr>
<td>Lithuania</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
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<tr>
<td>Luxembourg</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Netherlands*</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Norway</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poland</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Portugal</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Slovak Republic</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Slovenia</td>
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<tr>
<td>Spain</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Sweden</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td></td>
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<tr>
<td>Switzerland</td>
<td>x</td>
<td>x</td>
<td></td>
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<tr>
<td>Turkey</td>
<td>x</td>
<td>x</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>United Kingdom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>
Among central banks, the Federal Reserve initiated extraordinary steps not experienced since the 2008-2009 global financial crisis to address the economic effects of COVID-19. Simultaneously, as indicated in Table 4, various central banks and monetary authorities adopted an array of measures to address the potential economic effects of the pandemic, including lowering interest rates and reserve requirements, announcing new lending and financing facilities, asset purchases, foreign exchange swaps, prudential measures, and relaxed capital buffers and, in some cases, countercyclical capital buffers,56 adopted after the 2008-2009 financial crisis, potentially freeing up an estimated $5 trillion in funds.57

Central banks not only filled the role of lender of last resort through large purchases of government debt, but also the buyers or lenders of last resort for private sector securities, in many cases engaging in activities that previously had been considered off-limits.58 As a result of these activities, the BIS argued that central banks effectively managed the initial liquidity crisis, the first of three phases often identified with financial crises. The second and third phases, insolvency and recovery, are being navigated in some cases and could become more challenging should the pandemic-related economic crisis be prolonged. Capital buffers were raised after the financial crisis to assist banks in absorbing losses and staying solvent during financial crises. Some governments have directed banks to freeze dividend payments and halt pay bonuses. The Financial Stability Board (FSB) argued in its July 15, 2020, report to the G-20 Finance Ministers and Governors that the actions taken to date to support the functioning of the global financial system have effectively worked to contain the financial and economic impact of the pandemic so far, although the crisis is not over.59

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56 Countercyclical capital buffers require banks to increase their capital buffers during periods of rapid growth in assets (when they are making a lot of loans), to ensure they have sufficient capital to absorb losses during a recession. Countercyclical Capital Buffers, Bank for International Settlements, April 3, 2020. https://www.bis.org/bcbs/ccyb/


## Table 4. Selected Central Bank and Prudential Measures to Address COVID-19

<table>
<thead>
<tr>
<th>Type of tool</th>
<th>Measures</th>
<th>Advanced economies</th>
<th>Emerging market economies</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>U     E   J   G   C   A   C   B   C   I   I   K   M   T   Z</td>
<td>S     A   P   B   A   U   H   R   N   D   N   R   X   H   A</td>
</tr>
<tr>
<td>Interest rate</td>
<td>Policy rate cut</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
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<tr>
<td>Lending liquidity</td>
<td>Gen. liquidity provision&lt;sup&gt;a&lt;/sup&gt;</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
<tr>
<td></td>
<td>Specialized lending</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
<tr>
<td>Asset purchases/sales</td>
<td>Govern-ent bonds</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
<tr>
<td></td>
<td>Commercial paper</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
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<tr>
<td></td>
<td>Corporate bonds</td>
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<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
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<tr>
<td></td>
<td>Other private securities&lt;sup&gt;b&lt;/sup&gt;</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
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<tr>
<td>FX swap/interven-</td>
<td>USD swap line</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
<tr>
<td>tion</td>
<td>FX intervention</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
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<tr>
<td>Prudentia-</td>
<td>Capital requirements</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
<tr>
<td>l rules and</td>
<td>Liquidity requirements</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
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<tr>
<td>regula-</td>
<td>Payout restrictions</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
<tr>
<td>tions</td>
<td>Market functioning&lt;sup&gt;c&lt;/sup&gt;</td>
<td>x       x     x     x     x     x       x       x     x     x     x     x     x     x     x</td>
<td>x       x     x     x     x     x     x     x     x     x     x     x     x     x     x</td>
</tr>
</tbody>
</table>


**Notes:**

a. Repo and reverse repo operations, standing facilities, modified discount window and lower reserve requirement ratio.

b. Asset- and mortgage-backed securities, covered bonds and exchange-traded funds.

c. Shortselling bans and circuit breakers. US: United States; EA: Euro Area; JP: Japan; GB: Great Britain; CA: Canada; AU: Australia; CH: Switzerland; BR: Brazil; CN: China; ID: Indonesia; IN: India; KR: South Korea; MX: Mexico; TH: Thailand; ZA: South Africa.
Economic Forecasts

Global Growth

The economic situation remains highly fluid globally and for most countries and regions. Uncertainty about the length and depth of the health crisis-related economic effects are fueling perceptions of risk and volatility in financial markets and corporate decisionmaking. In addition, uncertainties concerning the global pandemic and the effectiveness of public policies intended to contain its spread and prevent a second wave of infections have added to market volatility. In a growing number of cases, corporations are postponing investment decisions, laying off workers who previously had been furloughed, and in some cases filing for bankruptcy. Compounding the economic situation has been a historic drop in the price of crude oil. While prices have recovered somewhat from the low of nearly $20 per barrel in April, they continue to move around $40 to $45 per barrel, in part reflecting the decline in global economic activity. On April 29, 2020, Federal Reserve Chairman Jerome Powell stated that the Federal Reserve would use its “full range of tools” to support economic activity as the U.S. economic growth rate dropped by 33.0% at an annual rate in the second quarter of 2020. In assessing the state of the U.S. economy, the Federal Open Market Committee released a statement indicating that, “The ongoing public health crisis will weigh heavily on economic activity, employment, and inflation in the near term, and poses considerable risks to the economic outlook over the medium term.”

Before the COVID-19 outbreak, the global economy was struggling to regain a broad-based recovery as a result of a number of issues, including: the lingering impact of growing trade protectionism; trade disputes among major trading partners; falling commodity and energy prices; and economic uncertainties in Europe over the impact of the UK withdrawal from the European Union. Individually, each of these issues presented a solvable challenge for the global economy. Collectively, however, the issues weakened the global economy and reduced the available policy flexibility of many national leaders, especially among the leading developed economies. While the level of economic effects is becoming clearer, the response to the pandemic could have a significant and enduring impact on the way businesses organize their work forces, on global supply chains, and how governments respond to a global health crisis. As a result of the rapidly spreading virus and its compounding effects on global and national rates of economic growth, forecasting the impact of the virus has been especially challenging.

As indicated in Table 5, the International Monetary Fund (IMF), the Organization for Economic Cooperation and Development (OECD), and The World Bank all revised their forecasts downward between late 2019 and mid-2020, reflecting the rapidly deteriorating state of the global economy and a marked decline in projected rates of growth. Between October 2019 and October 2020, for instance, the IMF lowered its global economic growth forecast from a positive 3.4% to a negative 4.4%. Similarly, the OECD lowered its forecast from 2.9% in November 2019 to -4.5% in September 2020. In its June forecast, the OECD forecasted the effects of a single wave and double wave of infections, as indicated in Table 5. Between January 2020 and June 2020, the World Bank also lowered its forecast of global growth from 2.9% to a negative 5.2%.

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most forecasts, advanced economies were projected to experience the steepest declines in economic growth from 2019 to mid-June 2020.

### Table 5. Major Economic Forecasts, Differing Assessments

<table>
<thead>
<tr>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>October 2019</td>
<td>3.4%</td>
<td>3.6%</td>
<td>1.7%</td>
<td>1.6%</td>
<td>4.6%</td>
<td>4.8%</td>
<td>2.1%</td>
<td>1.7%</td>
</tr>
<tr>
<td>April 2020</td>
<td>–3.0</td>
<td>5.8</td>
<td>–6.1</td>
<td>4.5</td>
<td>–1.0</td>
<td>6.6</td>
<td>–5.9</td>
<td>4.7</td>
</tr>
<tr>
<td>June 2020</td>
<td>-4.9</td>
<td>5.4</td>
<td>–8.0</td>
<td>4.8</td>
<td>-3.0</td>
<td>5.9</td>
<td>–8.0</td>
<td>4.5</td>
</tr>
<tr>
<td>October 2020</td>
<td>–4.4</td>
<td>5.2</td>
<td>–5.8</td>
<td>3.9</td>
<td>–3.3</td>
<td>6.0</td>
<td>–4.3</td>
<td>3.1</td>
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<tr>
<td><strong>Organization for Economic Cooperation and Development</strong></td>
<td></td>
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</tr>
<tr>
<td>Nov 2019</td>
<td>2.9</td>
<td>3.0</td>
<td>1.6</td>
<td>1.7</td>
<td>4.0</td>
<td>4.0</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
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<td>3.3</td>
<td>0.8</td>
<td>1.2</td>
<td>NA</td>
<td>NA</td>
<td>1.9</td>
<td>2.1</td>
</tr>
<tr>
<td>June 2020 single</td>
<td>-6.0</td>
<td>5.2</td>
<td>–7.5</td>
<td>4.8</td>
<td>–4.6</td>
<td>5.6</td>
<td>–7.3</td>
<td>4.1</td>
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<tr>
<td>June 2020 double</td>
<td>-7.6</td>
<td>2.8</td>
<td>–9.3</td>
<td>2.2</td>
<td>–6.1</td>
<td>3.2</td>
<td>–8.5</td>
<td>1.9</td>
</tr>
<tr>
<td>Sept. 2020</td>
<td>-4.5</td>
<td>5.0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td><strong>World Bank</strong></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>January 2020</td>
<td>2.5</td>
<td>2.6</td>
<td>1.4</td>
<td>1.5</td>
<td>4.1</td>
<td>4.3</td>
<td>1.8</td>
<td>1.7</td>
</tr>
<tr>
<td>June 2020</td>
<td>-5.2</td>
<td>4.2</td>
<td>–7.0</td>
<td>3.9</td>
<td>–2.5</td>
<td>4.6</td>
<td>–6.1</td>
<td>4.0</td>
</tr>
</tbody>
</table>

**Source:** World Economic Outlook, various issues, International Monetary Fund; OECD Economic Outlook, various issues, Organization for Economic Cooperation and Development; Global Economic Prospects, various issues, World Bank.

### The OECD Forecast

The Organization for Economic Cooperation and Development (OECD) released an updated forecast in September that projects global economic growth will decline by 4.5% in 2020, compared with a June forecast of a 6.9% decline under a single-wave scenario and 7.6% in under a second wave scenario in 2020.62 The forecast reflects the OECD’s continued high level of uncertainty about the course of the global economy over the remainder of 2020, because the pandemic is “a global public health crisis without precedent in living memory.” The OECD also concluded that, “The global economy is now experiencing the deepest recession since the Great Depression of the 1930s.” In addition, the OECD argued that the pandemic is fragmenting the global economy through a growing number of trade and investment restrictions and diverging policy approaches that are being implemented on a country-by-country basis.

As a result of uncertainty concerning the course of the global economy over the remainder of 2020, the OECD produced two “equally likely scenarios:” one that assumes the current

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containment measures are successful in curtailing infections, and another that assumes there is a second wave of rapid contagion.\textsuperscript{63} Under both scenarios, the OECD estimated the global economic recovery could be slow and gradual.\textsuperscript{64} The OECD also estimated that the average unemployment rate among OECD countries could rise to 9.2% under a single wave scenario and 10.0% under the second wave scenario. Through the third quarter of 2020, however, most OECD countries had not experienced significant increases in rates of unemployment, in part due to national income and wage maintenance programs, as indicated in Figure 3. The main exceptions were the United States and Canada, where unemployment rates spiked starting at the end of the first quarter and into the second quarter of 2020. In a major difference between U.S. and EU data, in the EU, workers absent from work due to temporary layoff are counted as employed, whereas, in the United States, they are counted as unemployed.

**Figure 3. Unemployment Rates Among Major OECD Countries**

In percentage terms

![Unemployment Rates Among Major OECD Countries](image)


Global trade is projected to contract by 9.5% or 11.4% in 2020 under the single or second wave scenarios, respectively. The OECD projections in Table 6 reflect the single wave scenario.\textsuperscript{65} According to this scenario, global economic growth is projected to fall by 6.0% in 2020, but rise by 5.2% in 2021. In contrast, the OECD’s second wave scenario projects a global economic contraction of 7.6% in 2020 and a growth rate of 2.8% in 2021, delaying a return to full recovery until 2022, as indicated in Figure 4.

The OECD forecast also indicates that economic growth among developed economies will be particularly weak in Europe, where the growth rate was projected in September to fall by 7.9%, compared with the June forecast of a decline of 9.0% and 11.5% in 2020, reflecting the one and two-wave scenarios, respectively. Similarly, U.S. economic growth is projected to contract in


\textsuperscript{64} Ibid., p. 23.

\textsuperscript{65} Ibid., p. 13.
2020 by 3.8% -- about half the June forecast of a decline of 7.3% -- but rebound by 3.5% in 2021. The UK is projected to experience a contraction in GDP growth in 2020 of 10.1%, slightly outpacing the earlier forecast of a decline of 11.5%.

**Figure 4. Major Economic Forecasts**

<table>
<thead>
<tr>
<th>Projections</th>
<th>2020</th>
<th>2021</th>
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<tbody>
<tr>
<td>World GDP growth rate</td>
<td>5.2%</td>
<td>4.2%</td>
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<tr>
<td>OECD1</td>
<td>-6.0%</td>
<td>-7.5%</td>
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<td>OECD2</td>
<td>-7.6%</td>
<td>-9.1%</td>
</tr>
<tr>
<td>IMF</td>
<td>-4.9%</td>
<td>-7.3%</td>
</tr>
<tr>
<td>World Bank</td>
<td>-5.2%</td>
<td>-4.6%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OECD single wave growth rate</th>
<th>4.8%</th>
<th>6.5%</th>
<th>4.1%</th>
<th>5.6%</th>
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</thead>
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<tr>
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<td>-7.5%</td>
<td>-9.1%</td>
<td>-7.3%</td>
<td>-4.6%</td>
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<tr>
<td>Euro Area</td>
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<tr>
<td>U.S.</td>
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</tr>
<tr>
<td>Non-OECD</td>
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</table>

<table>
<thead>
<tr>
<th>IMF growth rate</th>
<th>4.8%</th>
<th>6.0%</th>
<th>4.5%</th>
<th>3.7%</th>
<th>3.4%</th>
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<tr>
<td>Adv. Econ.</td>
<td>-8.0%</td>
<td>-10.2%</td>
<td>-8.0%</td>
<td>-9.4%</td>
<td>-3.2%</td>
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<tr>
<td>Euro Area</td>
<td></td>
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<tr>
<td>U.S.</td>
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<tr>
<td>Latin Amer.</td>
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<tr>
<td>Africa</td>
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</table>

<table>
<thead>
<tr>
<th>World Bank growth rate</th>
<th>3.9%</th>
<th>4.5%</th>
<th>4.0%</th>
<th>4.6%</th>
</tr>
</thead>
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<tr>
<td>Adv. Econ.</td>
<td>-7.0%</td>
<td>-9.1%</td>
<td>-6.1%</td>
<td>-2.5%</td>
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<td>Euro Area</td>
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<tr>
<td>U.S.</td>
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<tr>
<td>Emerging &amp; Dev.</td>
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</table>

**Sources:** OECD Economic Outlook, Interim Report, Organization for Economic Cooperation and Development. September, 2020; World Economic Outlook, International Monetary Fund, October 13, 2020; Global Economic Prospects, World Bank Group, June 2020, Created by CRS.

**Note:** The OECD estimated rates of growth as a result of two scenarios, indicated as OECD1 and OECD2. The first scenario assumes there is a single wave of infections from COVID-19, while the second scenario estimates the effect of a two-wave scenario. An interim OECD forecast published in September did not include developed and developing economies as separate entries; a more comprehensive forecast is expected to be published in November.
### Table 6. OECD, IMF and World Bank Economic Forecasts

Percentage change in Real GDP Growth

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Adv. Economies</td>
<td>1.7 NA NA</td>
<td>1.7 -5.8 3.9</td>
<td>1.6 -7.0 3.9</td>
</tr>
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<td>Australia</td>
<td>1.8 -4.1 2.5</td>
<td>2.3 -4.3 3.1</td>
<td>2.3 -6.1 4.0</td>
</tr>
<tr>
<td>Canada</td>
<td>1.7 -5.8 4.0</td>
<td>1.2 -8.3 5.2</td>
<td>1.2 -9.1 4.5</td>
</tr>
<tr>
<td>Euro area</td>
<td>1.3 -7.9 5.1</td>
<td>0.6 -6.0 4.2</td>
<td>0.7 -6.1 2.5</td>
</tr>
<tr>
<td>Germany</td>
<td>0.6 -5.4 4.6</td>
<td>1.3 -9.8 6.0</td>
<td>3.5 -2.5 4.6</td>
</tr>
<tr>
<td>France</td>
<td>1.5 -9.5 5.8</td>
<td>0.3 -10.6 5.2</td>
<td>5.9 0.5 6.6</td>
</tr>
<tr>
<td>Italy</td>
<td>0.3 -10.5 5.4</td>
<td>2.0 -12.8 7.2</td>
<td>6.1 1.0 6.9</td>
</tr>
<tr>
<td>Japan</td>
<td>0.7 -5.8 1.5</td>
<td>0.7 -5.3 2.3</td>
<td>5.0 0.0 4.8</td>
</tr>
<tr>
<td>Korea</td>
<td>2.0 -1.0 3.1</td>
<td>1.4 -9.8 5.9</td>
<td>2.4 -5.0 4.1</td>
</tr>
<tr>
<td>Mexico</td>
<td>-0.1 -10.2 3.0</td>
<td>1.6 -7.1 5.2</td>
<td>2.2 -4.7 3.6</td>
</tr>
<tr>
<td>Turkey</td>
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<td>6.1 1.9 8.2</td>
<td>1.3 -6.0 2.7</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>1.4 -10.1 7.6</td>
<td>4.2 -10.3 8.8</td>
<td>0.9 -3.8 5.0</td>
</tr>
<tr>
<td>United States</td>
<td>2.3 -3.8 4.0</td>
<td>1.3 -4.1 2.8</td>
<td>4.1 -4.2 2.8</td>
</tr>
<tr>
<td>Argentina</td>
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</tr>
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<td>Brazil</td>
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<td>1.1 -5.8 2.8</td>
<td>-0.3 -7.5 3.0</td>
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<td>China</td>
<td>6.1 1.8 8.0</td>
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<td>-2.2 -7.3 2.1</td>
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<td>India</td>
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<td>Indonesia</td>
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<tr>
<td>S. Africa</td>
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<td>Nigeria</td>
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<td>-0.1 -8.0 3.0</td>
<td>5.6 3.0 2.1</td>
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<tr>
<td>S. Africa</td>
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<tr>
<td></td>
<td></td>
<td>Africa 2.2 -2.8 3.1</td>
<td>8.2 1.6 1.0</td>
</tr>
</tbody>
</table>
Among developing and emerging economies, the economic downturn is projected to most negatively affect countries that rely on commodity exports to support annual economic growth. In addition to lower prices for commodity exports and reduced global demand for exports, developing countries are projected to be negatively affected by reduced remittances, weaker currencies and tighter financial conditions.

The OECD also concluded that

- Real per capita income in 2020 is projected to decline by 8% and 9.5%, respectively, depending on a one- or two-wave contagion, with substantial declines in all economies. Even with an economic recovery in 2021, real per capita income is projected to rise to only that of 2013.

- Unemployment is projected to rise to its highest level in more than 25 years, while the average unemployment rate is projected to rise to 9.2% and 10%, respectively under a single or second-wave scenario and fall by only one percentage point through 2021. The OECD concludes that, “scarring effects from job losses are likely to be felt particularly by younger workers and lower-skilled workers, with attendant risks of many people becoming trapped in joblessness for an extended period.”

- Net productive investment (business and government) was weak prior to the pandemic, falling behind the average rate of investment during the previous decade. Investment was forecast to contract by half as a percent of real GDP, falling from 4.7% to 2.3% and 2.0%, respectively for the one-wave and two-wave scenarios and increasing the risk of entrenched weak economic growth. Investment is also expected to be negatively affected by bankruptcies and insolvencies among corporations and financial institutions.66

The OECD estimated in its March 2020 forecast that increased direct and indirect economic costs through global supply chains, reduced demand for goods and services, and declines in tourism and business travel mean that, “the adverse consequences of these developments for other countries (non-OECD) are significant.”67 Global trade, measured by trade volumes, slowed in the

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66 Ibid., p. 31.
last quarter of 2019 and had been expected to decline further in 2020, as a result of weaker global economic activity associated with the pandemic, which is negatively affecting economic activity in various sectors, including airlines, hospitality, ports, and the shipping industry.68

According to the OECD’s forecast

- The greatest impact of the containment restrictions will be on retail and wholesale trade, and in professional and real estate services, although there are notable differences between countries.
- Business closures could reduce economic output in advanced and major emerging economies by 15% or more; other emerging economies could experience a decline in output of 25%.
- Countries dependent on tourism could be affected more severely, while countries with large agricultural and mining sectors could experience less severe effects.
- Economic effects likely will vary across countries reflecting differences in the timing and degree of containment measures.69

In addition, the OECD argued that China’s emergence as a global economic actor marked a significant departure from previous global health episodes. China’s growth, in combination with globalization and the interconnected nature of economies through capital flows, supply chains, and foreign investment, magnify the cost of containing the spread of the virus through quarantines and restrictions on labor mobility and travel.70 China’s global economic role and globalization mean that trade has played a role in spreading the economic effects of COVID-19. More broadly, the economic effects of the pandemic were spread through three trade channels: (1) directly through supply chains as reduced economic activity spread from intermediate goods producers to finished goods producers; (2) as a result of a drop overall in economic activity, which reduced demand for goods in general, including imports; and (3) through reduced trade with commodity exporters that supplied producers, which, in turn, reduced their imports and negatively affected trade and economic activity of exporters.

The IMF Forecast

Labeling the projected decline in global economic activity as the “Great Lockdown,” the IMF released an updated forecast in October 2020. The IMF concluded that the global economy would experience its “worst recession since the Great Depression, surpassing that seen during the global financial crisis a decade ago.”71 In addition, the IMF estimated in its baseline projection that the global economy could decline by 4.4% in 2020, slightly less than its June forecast of -4.9%, before growing by 5.2% in 2021; global trade was projected to fall in 2020 by 10.4% and oil prices were projected to fall by 32%, also shown in Table 6.72 According to the IMF,
While the global economy is coming back, the ascent will likely be long, uneven, and uncertain. Indeed, compared to our forecast in June, prospects have worsened significantly in some merging market and developing economies where infections are rising rapidly. Consequently, emerging market and developing economies, excluding China, are projected to incur a greater loss of output over 2020-21 relative to the pre-pandemic projected path when compared to advanced economies.\(^3\)

The forecast reflects a larger impact on the U.S. economy in the first half of 2020 than had been assumed in the IMF’s April forecast and a slower recovery in the second half of 2020. Also, the IMF forecast reflects an estimated larger decline in consumption than previously assumed as consumers curtail spending to increase their savings and the effects on economic activity of social distancing. The IMF also stated that many countries were facing a multi-layered crisis that included a health crisis, a domestic economic crisis, falling external demand, capital outflows, and a collapse in commodity prices. In combination, these various effects were interacting in ways that made forecasting difficult. As a result, the IMF indicated that the forecast depends on a number of factors, including:

- The length of the pandemic and required lockdowns.
- Voluntary social distancing, which affects consumer spending.
- The ability of displaced workers to secure employment, possibly in different sectors.
- The long-term impact of firm closures and unemployed workers leaving the workforce, compounding the ability of the economy to recover.
- The impact of changes to strengthen workplace safety—such as staggered work shifts, enhanced hygiene and cleaning between shifts, new workplace practices relating to proximity of personnel on production lines—which incur business costs.
- Global supply chain reconfigurations that affect productivity as companies try to enhance their resilience to supply disruptions.
- The extent of cross-border spillovers from weaker external demand as well as funding shortfalls.
- A resolution of the current disconnect between rising asset values, as reflected in market indices, and forecasts of a synchronized downturn in global economic activity.

Advanced economies as a group were forecast to experience an economic contraction in 2020 of 8.0% of GDP, with the U.S. economy also projected by the IMF to decline by 8.0%, about four times the rate of decline experienced in 2009 during the financial crisis, as indicated in Figure 5. The rate of economic growth in the Euro area was projected to decline by 10.2% of GDP. Most developing and emerging economies were projected to experience a decline in the rate of economic growth of 3.0%, reflecting tightening global financial conditions and falling global trade and commodity prices. In contrast, China, and Indonesia were projected to experience small, but positive rates of economic growth in 2020, while India’s rate of growth was projected to decline by 4.5%. The IMF also argued that recovery of the global economy could be weaker than projected as a result of lingering uncertainty about possible contagion, lack of confidence, and permanent closure of businesses and shifts in the behavior of firms and households.\(^4\)

\(^3\) World Economic Outlook, International Monetary Fund, October 2020, p. xiii.

\(^4\) World Economic Outlook, p. 9.
In an August 2020 analysis, the IMF indicated that fiscal and monetary actions by developed economies provided developing and emerging market economies the ability to avoid tightening monetary policy to stem capital outflows. Instead, the countries relied on movements in their exchange rates to carry the brunt of the economic adjustment, while also following developed economies in easing monetary policy, providing liquidity injections, and using unconventional monetary policy measures such as purchases of government and corporate bonds. The IMF also indicated that a prolonged health crisis could push developing economies to take such measures as price controls, export restrictions, and unorthodox measures to ease credit and financial regulation.75

**Figure 5. IMF Forecast, Gross Domestic Product**

![Image of chart showing GDP growth]

*Source: World Economic Outlook, International Monetary Fund, October, 2020. Created by CRS*

As a result of the various challenges, the IMF qualified its forecast by arguing that

A partial recovery is projected for 2021, with above trend growth rates, but the level of GDP will remain below the pre-virus trend, with considerable uncertainty about the strength of the rebound. Much worse growth outcomes are possible and maybe even likely. This would follow if the pandemic and containment measures last longer, emerging and developing economies are even more severely hit, tight financial conditions persist, or if widespread scarring effects emerge due to firm closures and extended unemployment.76

**The World Bank Forecast**

On June 8, the World Bank released its forecast for global economic growth that estimated the economic recession in 2020 would be the deepest since World War II. It also estimated that the global economic recession would affect 90% of the world’s economies, a percentage that is

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76 World Economic Outlook, p. v.
The global economic recession is projected to affect all regions in a type of synchronous downturn, with some regions faring worse than others. Differences in the magnitude of regional growth rates are attributed to the “scale of the domestic outbreak, vulnerability of the economy to spillovers from global economic and financial stress the severity of pre-existing challenges such as widespread poverty, and the degree to which debt levels constrain the fiscal response.”

According to the Bank’s baseline scenario, the projected economic recovery is expected to be slow, reflecting shifts in consumption and work patterns as consumers attempt to rebuild savings and businesses strengthen balance sheets. The World Bank also issued a downside and an upside scenario in which government lockdown policies are required to remain in effect for a longer or a shorter period of time, respectively. The downside scenario projects a contraction in global economic growth of 8% in 2020, as lockdown procedures are assumed to last an additional three months, followed by a sluggish recovery. In contrast, the upside scenario projects a decline in economic activity in 2020 of 4%, based on the assumption that economic activity rebounds quickly in the third quarter of 2020.

The Bank also concludes that global value chains (GVCs) have been important conduits through which macroeconomic developments associated with the pandemic have been transmitted across national borders. The economic effects of the pandemic have been spread through trade linkages but also amplified through quarantines, production shutdowns and border closures. Estimates by the World Bank indicate that national policies adopted to blunt the spread of the virus affect the global economy through four shocks: a decline in employment due to factory closures and social distancing, a trade shock as a result of an increase in the cost of traded goods, a tourism shock through a sharp contraction in international tourism, and a services shock. The magnitude of the shocks varies by country depending on various factors, including the composition of output, reliance on trade, and the level of GVC integration.

77 Global Economic Prospects, World Bank Group, June 8, 2020, p. 15.
78 Ibid., p. 5.
79 Ibid., p. 115.
80 Ibid., p. 33.
81 Ibid., p. 118.
**Global Trade**

According to an October 6 forecast update, the World Trade Organization (WTO) estimated that global trade volumes could fall by 9.2% in 2020. Global trade volumes are projected to partially recover in 2021 by increasing at an annual growth rate of 7.2%. This forecast reflects a marked revision from the WTO’s April 8, 2020 forecast that global trade volumes could decline between 13% and 32% in 2020 as a result of the economic impact of COVID-19, as indicated in Table 7.

The updated forecast also indicates that the recovery in global trade in 2021 could be noticeably slower than the WTO had projected in April, primarily reflecting expectations of a slower recovery in global GDP in 2021. The WTO also estimated that global merchandise trade fell by 21% in the second quarter of 2020, while some sectors were affected more than others: trade in fuels and mineral products fell by 38%, while trade in agricultural products fell by 5%. In the first quarter of 2020, global exports and imports fell by 7.7% and 6.7%, respectively, in volume terms and 10.4% and 8.6% in value terms, reflecting the global economic impact of the pandemic, as indicated in Figure 6. In the second quarter, global exports and imports dropped by 11.7% and 11.4%, respectively, in volume and by 13.4% and 14.2%, in value terms. Although the WTO has no comprehensive data on trade in services, it concluded that the trend in trade in services likely matched that experienced in trade in merchandise goods. The updated forecast also projects that global GDP could decline at an annual rate of 4.8% in 2020, but recover in 2021 with an annual growth rate of 4.9%.

The WTO indicated in its forecast update that a resurgence of COVID-19 cases in the fall of 2020 could prompt renewed economic lockdowns, which could shave 2 to 3 percentage points off the annual global GDP growth rate in 2021 and negatively affect global trade. In addition, the WTO estimated that uncertainty over additional fiscal measures and relatively high rates of unemployment could reduce global merchandise trade growth by up to 4% in 2021. By region, the WTO forecast indicates that Europe and North America will experience the largest declines in the rate of growth of trade volumes, while Asia would experience the smallest decline in the growth rate of trade volumes, primarily based on a projected increase in trade by China.

The WTO reported in its June 29 report on G-20 trade measures that during the mid-October 2019 to mid-May 2020 period, countries had made “significant” progress in facilitating imports, including products related to COVID-19. According to the report, various governments initially responded to the pandemic by introducing new trade restrictive measures, 90% of which were export bans on medical products, such as surgical masks, gloves, medicine and disinfectant. Since then, the WTO indicated that G20 economies have repealed 36% of the restrictions and lowered barriers to imports of many pandemic-related products. As of mid-May 2020, the WTO reported that 65 of the 93 pandemic-related trade measures implemented during the monitoring period were of a trade-facilitating measures, rather than trade-restricting measures.

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In its April forecast, the WTO presented two estimates of global growth, reflecting the high degree of uncertainty concerning the length and economic impact of the pandemic. According to the WTO, the more optimistic scenario assumed that trade volumes would recover quickly in the second half of 2020 to their pre-pandemic trend, or that the global economy experiences a V-shaped recovery. In comparison, the more pessimistic scenario assumed there would be a partial recovery in global trade that lasted into 2021, or that global economic activity would experience a U-shaped recovery. The updated forecast reflects the WTO’s estimate that global trade volumes in 2020 will not fall by as much as it had projected under both of the scenarios in its April forecast. The WTO concluded, however, that the impact on global trade volumes could exceed the drop in global trade during the height of the 2008-2009 financial crisis.}\(^{85}\)

### Table 7. WTO Forecast: Merchandise Trade Volume and Real GDP 2020-2021

<table>
<thead>
<tr>
<th></th>
<th>Optimistic scenario (April 2020)</th>
<th>Pessimistic scenario (April 2020)</th>
<th>Forecast scenario (October 2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2020</td>
<td>2021</td>
<td>2020</td>
</tr>
<tr>
<td>Volume of world merchandise trade</td>
<td>-12.9%</td>
<td>21.3%</td>
<td>-31.9%</td>
</tr>
<tr>
<td><strong>Exports</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North America</td>
<td>-17.1</td>
<td>23.7</td>
<td>-40.9</td>
</tr>
<tr>
<td>South and Central America</td>
<td>-12.9</td>
<td>18.6</td>
<td>-31.3</td>
</tr>
<tr>
<td>Europe</td>
<td>-12.2</td>
<td>20.5</td>
<td>-32.8</td>
</tr>
<tr>
<td>Asia</td>
<td>-13.5</td>
<td>24.9</td>
<td>-36.2</td>
</tr>
<tr>
<td>Other regions</td>
<td>-8.0</td>
<td>8.6</td>
<td>-8.0</td>
</tr>
<tr>
<td><strong>Imports</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North America</td>
<td>-14.5</td>
<td>27.3</td>
<td>-33.8</td>
</tr>
</tbody>
</table>

The October 2020 forecast indicates that all geographic regions could experience a drop in trade volumes, while North America and Europe could experience a double-digit drop in trade volumes. The forecast also projects that sectors with extensive value chains, such as automobile products and electronics, could experience the steepest declines. Although services are not included in the WTO forecast, this segment of the economy could experience the largest disruption as a consequence of restrictions on travel and transport and the closure of retail and hospitality establishments. Such services as information technology, however, are growing to satisfy the demand of employees who are working from home.

The pandemic is also raising questions about the costs and benefits of the global supply chains businesses erected over the past three decades. Evidence indicates that growth in supply chains had slowed prior to the pandemic, but there is little consensus on the long-term impact of the crisis. In some cases, businesses are reassessing their exposure to the risks posed by extensive supply chains that potentially are vulnerable to numerous points of disruption. Also, some governments are assessing the risks supply chains pose to national supplies of items considered to be important to national security as a result of firms shifting production offshore. For multinational businesses, changing suppliers and shifting production locations can be especially costly for some firms and can introduce additional risks. In addition, businesses may be reluctant to relocate from production locations, such as China, that not only serve as production platforms, but are also important markets for their output. For instance, the Bureau of Economic Analysis (BEA) reports that 10% of the global sales of the majority-owned foreign affiliates of U.S. parent companies is shipped back to the U.S. parent company. In contrast, 60% of such sales take place in the foreign country where the affiliate is located and another 30% is shipped to other foreign countries in close proximity. For China, about 6% of such sales are shipped to the U.S. parent, while 82% is sold in China and another 12% is shipped to other foreign countries.

<table>
<thead>
<tr>
<th>Region</th>
<th>Optimistic scenario (April 2020)</th>
<th>Pessimistic scenario (April 2020)</th>
<th>Forecast scenario (October 2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South and Central America</td>
<td>-22.2</td>
<td>-43.8</td>
<td>-13.5</td>
</tr>
<tr>
<td>Europe</td>
<td>-10.3</td>
<td>-28.9</td>
<td>-10.3</td>
</tr>
<tr>
<td>Asia</td>
<td>-11.8</td>
<td>-31.5</td>
<td>-4.4</td>
</tr>
<tr>
<td>Other regions</td>
<td>-10</td>
<td>13.6</td>
<td>-16.0</td>
</tr>
<tr>
<td><strong>Real GDP at market exchange rates</strong></td>
<td><strong>-2.5</strong></td>
<td><strong>-8.8</strong></td>
<td><strong>-4.8</strong></td>
</tr>
<tr>
<td>North America</td>
<td>-3.3</td>
<td>-9.0</td>
<td>-4.4</td>
</tr>
<tr>
<td>South and Central America</td>
<td>-4.3</td>
<td>-11</td>
<td>-7.5</td>
</tr>
<tr>
<td>Europe</td>
<td>-3.5</td>
<td>6.6</td>
<td>-7.3</td>
</tr>
<tr>
<td>Asia</td>
<td>-0.7</td>
<td>-7.1</td>
<td>-2.4</td>
</tr>
<tr>
<td>Other regions</td>
<td>-1.5</td>
<td>6.0</td>
<td>-5.5</td>
</tr>
</tbody>
</table>

**Source:** Trade Shows Signs of Rebound From COVID-19; Recovery Still Uncertain, World Trade Organization, October 6, 2020.

**Note:** Data for 2020 and 2021 are projections; GDP projections are based on scenarios simulated with the WTO Global Trade Model.


Beyond the current challenges the pandemic poses to global supply chains, a recent report catalogues a number of risks that can disrupt supply chains. The report estimates that 16% to 26% of global goods exports, worth $2.9 trillion to $4.6 trillion, potentially could move to new countries over the next five years “if companies restructure their supplier networks.” The report concluded, however, that the pandemic so far has not reshaped global production networks in dramatic ways, because the networks reflect, “economic logic, hundreds of billions of dollars’ worth of investment, and long-standing supplier relationships.” In addition, the report concluded that although firms can shift production locations, the interconnected nature of these chains “limits the economic case for making large-scale changes in their physical location.” Instead of shifting production locations, firms are considering a number of strategies to withstand the challenges of a global economy by increasing sources of raw materials and critical materials, expanding and diversifying supplier bases, investing in suppliers to upgrade their capabilities, and regionalizing supply chains, among a number of possible actions.

Amidst the decline in global trade, 15 countries, including Brunei, Colombia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam, Australia, China, Japan, New Zealand, and South Korea, signed the Regional Comprehensive Economic Partnership (RCEP) on November 15, 2020, to create potentially one of the largest free trade agreements. The agreement will need to be ratified by the signatory governments. This agreement follows by two years the conclusion of negotiations over the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) that replaced the proposed Trans-Pacific Partnership agreement after the United States pulled out of the negotiations. The agreement includes Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore, and Vietnam.

Global Foreign Investment

According to analyses by the United Nations Conference on Trade and Development (UNCTAD), global foreign direct investment inflows fell by 49% in the first half of 2020 compared with the same period in 2019, as indicated in Figure 7. Inflows to developed economies fell by 75%, while inflows to Europe fell from $203 billion in the first half of 2019 to $7 billion in the first half of 2020. In contrast, inflows to developing economies fell by 16% over the period, buoyed in large part by inflows to China. Inflows to developing Asia, at $217 billion, accounted for more than half of the total $399 billion global direct investment inflows in the first half of 2020.

All major geographic areas except Asia experienced a drop in investment activity in the first half of 2020 compared with the comparable period in 2019 in the three major types of foreign investment: cross-border investments; greenfield investment, or investment in new business activity; and international project finance. In the three types of investment activity, global activity fell by 15%, 37%, and 25%, respectively in the first half of 2020 compared with the first half of 2019. Cross-border merger and acquisition (M&A) activity increased by 60% and 84%.

88 Risk, Resilience, and Rebalancing in Global Value Chains, McKinsey Global Institute, August 2020, p. 1
89 Ibid, p. 2.
90 Ibid, In Brief.
91 Risk, Resilience, and Rebalancing in Global Value Chains, p. 16.
respectively, in Asia and Transition economies, but declined by 21% in developed economies. International project finance, reportedly an important source of infrastructure finance, fell globally by 25%, but rose by 8% in Asia.

**Figure 7. Global Foreign Direct Investment Inflows**

$ in billions and percentage change; first half of year totals

<table>
<thead>
<tr>
<th>Region</th>
<th>2019</th>
<th>2020</th>
<th>% Change: Q1-Q3 2020 vs 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>World</td>
<td>$777b</td>
<td>$399b</td>
<td></td>
</tr>
<tr>
<td>Developed Econ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North America</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Developing Econ.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Africa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin America</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transition Econ.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Source:** United Nations Conference on Trade and Development. Created by CRS.

For the United States, BEA reported that U.S. direct investment abroad (outflows) and foreign direct investment in the United States (inflows) fell by 74% and 89%, respectively, in the first half of 2020 compared with the first half of 2019, as indicated in **Figure 8**. The lower investment numbers reflect, in part, the lower values for equity, signaling the declines in major equity markets in the first half of 2020.

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Economic Policy Challenges

The challenge for policymakers has been one of implementing targeted policies that address what had been expected to be short-term problems without creating distortions in economies that can outlast the impact of the virus itself. Policymakers, however, have been overwhelmed by the quickly changing nature of the global health crisis that turned into a global trade and economic crisis. During the initial stages of the pandemic, policymakers weighed the impact of policies that addressed the immediate economic effects at the expense of longer-term considerations such as debt accumulation. As the pandemic persists, however, policymakers may have to consider adopting additional fiscal or monetary measures, in particular, that may further complicate the economic impact of the policies after the pandemic resides. Initially, many policymakers felt constrained in their ability to respond to the crisis as a result of limited flexibility for monetary and fiscal support within conventional standards, given the broad-based synchronized slowdown in global economic growth, especially in manufacturing and trade, that had developed prior to the viral outbreak. The pandemic is also affecting global politics as world leaders have cancelled international meetings, nations are competing for medical supplies, and some nations reportedly are stoking conspiracy theories that shift blame to other countries.

Initially, the economic effects of the virus were expected to be short-term supply issues as factory output fell because workers were quarantined to reduce the spread of the virus through social interaction. The drop in economic activity, initially in China, has had international repercussions as firms experienced delays in supplies of intermediate and finished goods through supply chains. Concerns have grown, however, that virus-related supply shocks are creating more prolonged and

Source: Bureau of Economic Analysis, Created by CRS
Notes: In the balance of payments, direct investment outflows are represented as a negative value, indicating an outflow and direct investment inflows are represented as positive values. For presentation purposes, the signs for direct investment abroad, or outflows, have been reversed.

wide-ranging demand shocks as reduced activity by consumers and businesses leads to a lower rate of economic growth. As demand shocks unfold, businesses experience reduced activity and profits and potentially escalating and binding credit and liquidity constraints. While manufacturing firms experienced supply chain shocks, reduced consumer activity through social distancing has affected the services sector of the economy, which accounts for two-thirds of annual U.S. economic output. In this environment, manufacturing and services firms initially tended to hoard cash, which affected market liquidity. In response, the Federal Reserve, along with other central banks, lowered interest rates where possible and expanded lending facilities to provide liquidity to financial markets and to firms potentially facing insolvency.

The longer the economic effects persist, the greater the economic impacts have been as the effects were spread through trade and financial linkages to an ever-broadening group of countries, firms and households. These growing economic effects potentially increased liquidity constraints and credit market tightening in global financial markets as firms hoarded cash, with negative fallout effects on economic growth. At the same time, financial markets have been factoring in an increase in government bond issuance in the United States, Europe, and elsewhere as government debt levels began rising to meet spending obligations during an expected economic recession and increased fiscal spending to fight the effects of COVID-19. Unlike the 2008-2009 financial crisis, reduced demand by consumers, labor market issues, and a reduced level of activity among businesses, rather than risky trading by global banks, has led to corporate credit issues and potential insolvency. These market dynamics have led some observers at the time to question if these events mark the beginning of a full-scale global financial crisis.97

Liquidity and credit market issues present policymakers with a different set of challenges than addressing supply-side constraints. As a result, the focus of government policy expanded from health crisis to macroeconomic and financial market issues that have been addressed through a combination of monetary, fiscal, and other policies, including border closures, quarantines, and restrictions on social interactions. Essentially, while businesses have attempted to address worker and output issues at the firm level, national leaders attempted to implement fiscal policies to prevent economic growth from contracting sharply by assisting workers and businesses that face financial strains, and central bankers adjusted monetary policies to address mounting credit market issues.

In the initial stages of the health crisis, households did not experience the same kind of wealth losses they saw during the 2008-2009 financial crisis when the value of their primary residence dropped sharply. However, as unemployment numbers rose, job losses have resulted in defaults on mortgages and delinquencies on rent payments, requiring some financial institutions to provide loan forbearance or other mechanism to provide financial assistance. In turn, mortgage defaults could negatively affect the market for mortgage-backed securities, the availability of funds for mortgages, and negatively affect the overall rate of economic growth. Losses in the value of most equity markets in the U.S., Asia, and Europe could also affect household wealth, especially that of retirees living on a fixed income and others who own equities. Investors that trade in mortgage-backed securities reportedly reduced their holdings while the Federal Reserve attempted to support the market.98 In the current environment, even traditional policy tools, such as monetary accommodation, apparently have not always been processed by markets in a traditional manner, with equity market indices displaying heightened, rather than lower, levels of


uncertainty following the Federal Reserve’s cut in interest rates. Such volatility is adding to uncertainties about what governments can do to address weaknesses in the global economy.

**Major Economic Developments**

Between late February and late August 2020, financial markets from the United States to Asia and Europe have been whipsawed as investors alternated between optimism and pessimism amid concerns that COVID-19 would create a global economic and financial crisis with few metrics to indicate how prolonged and extensive the economic effects may be.\(^9\) Investors have searched for safe-haven investments, such as the benchmark U.S. Treasury 10-year security, which experienced a historic drop in yield to below 1% on March 3, 2020.\(^10\) In response to concerns that the global economy was in a freefall, the Federal Reserve lowered key interest rates on March 3, 2020, to shore up economic activity, while the Bank of Japan engaged in asset purchases to provide short-term liquidity to Japanese banks; Japan’s government indicated it would also assist workers with wage subsidies. The Bank of Canada also lowered its key interest rate. The International Monetary Fund (IMF) announced that it was making about $50 billion available through emergency financing facilities for low-income and emerging market countries and through funds available in its Catastrophe Containment and Relief Trust (CCRT).\(^11\)

**Financial Markets**

Reflecting investors’ uncertainties, the DJIA lost about one-third of its value between February 14, 2020, and March 23, 2020, as indicated in Figure 9. Expectations that the U.S. Congress would adopt a $2.0 trillion spending package moved the DJIA up by more than 11% on March 24, 2020. From March 23 to April 15, the DJIA moved higher by 18%, paring its initial losses by half. Since then, the DJIA has trended upward, but moved erratically at times as investors have weighed news about the human cost and economic impact of the pandemic and the prospects of various medical treatments. Between March 23 and July 1, the DJIA regained 70% of the index valued lost during the February to March decline. On Monday, November 9, the DJIA gained over 800 points, or nearly three percentage points, as markets responded positively to press reports that an effective COVID-19 vaccine had been developed. On November 10, the DJIA rose above 29,400, regaining all the value lost in February and March.

As indicated in Table 8, the DJIA lost the largest part of its market valuation in trading during February and March when the index lost nearly one-fourth of its value as more trading sessions ended with overall market values lower than higher. Since March, the index has posted more trading sessions that closed with positive gains than with losses. By October 23, the DJIA had recovered most of the value lost in February and March. During the final week of October, the DJIA lost more than 1,800 points, the largest weekly loss since March. In the first three days of November, however, the Index regained three-fourths of the value it lost the previous week. For

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some policymakers, the drop in equity prices raised concerns that foreign investors might attempt to exploit the situation by increasing their purchases of firms in sectors considered important to national security. For instance, Ursula von der Leyen, president of the European Commission, urged EU members to better screen foreign investments, especially in areas such as health, medical research, and critical infrastructure.

<table>
<thead>
<tr>
<th>Table 8. Dow Jones Industrial Average Market Changes by Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sessions up</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>January</td>
</tr>
<tr>
<td>February</td>
</tr>
<tr>
<td>March</td>
</tr>
<tr>
<td>April</td>
</tr>
<tr>
<td>May</td>
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<tr>
<td>June</td>
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<tr>
<td>July</td>
</tr>
<tr>
<td>August</td>
</tr>
<tr>
<td>September</td>
</tr>
<tr>
<td>October</td>
</tr>
</tbody>
</table>

Source: Financial Times, calculations by CRS.

Similar to the 2008-2009 global financial crisis, central banks implemented a series of monetary operations to provide liquidity to their economies. These actions, however, were initially not viewed entirely positively by all financial market participants who questioned the use of policy tools by central banks that are similar to those employed during the 2008-2009 financial crisis, despite the fact that the current and previous crisis are fundamentally different in origin. During the previous financial crisis, central banks intervened to restart credit and spending by banks that had engaged in risky assets. In the current environment, central banks attempted to address financial market volatility and prevent large-scale corporate insolvencies that reflect the underlying economic uncertainty caused by the pandemic.

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Figure 9. Dow Jones Industrial Average Index
February 14, 2020, through November 18, 2020

Source: Financial Times. Created by CRS.

International Role of the Dollar

Similar to conditions during the 2008-2009 financial crisis, the dollar has emerged as the preferred currency by investors, reinforcing its role as the dominant global reserve currency. As indicated in Figure 10, the dollar appreciated more than 3.0% during the period between March 3 and March 13, 2020, reflecting increased international demand for the dollar and dollar-denominated assets. Since the highs reached on March 23, the dollar has given up much of the value it gained against other currencies, but has remained about 2.0% higher than it was at the beginning of the year. Since March, the exchange value of the dollar has dropped between 1% and 2% per month in a slow decline as financial strains have eased and demand for the dollar in international financial markets has lessened. Between mid-May and mid-June, the dollar lost about 3% of its value relative to the currencies of other major trading partners and was equal to its value in mid-March. During July, the dollar lost over 2% of its value against the currencies of major trading partners and is about where it was in mid-March. By mid-October, the trade-weighted value of the dollar had declined by 8% from the highest values reached in March and nearly matched the value it recorded at the beginning of 2020. On November 5, the dollar index returned to the value reported on January 2.
The Bank for International Settlements (BIS) emphasized the role of the dollar as a dominant global currency in its recent triennial survey of currency markets. According to the survey, the dollar accounts for 88% of global foreign exchange market turnover and is key in funding an array of financial transactions, including serving as an invoicing currency to facilitate international trade, as indicated in Figure 11. It also accounts for two-thirds of central bank foreign exchange holdings, half of non-U.S. banks foreign currency deposits, and two-thirds of non-U.S. corporate borrowings from banks and the corporate bond market. In comparison, the United States accounts for about one-fourth of global GDP and about one-fifth of global trade (exports plus imports).

As a result of the role of the dollar as the dominant global reserve currency, disruptions in the smooth functioning of the global dollar market can have wide-ranging repercussions on international trade and financial transactions. A June 2020 report by BIS stresses the central role of the dollar in the global economy. The report concludes that dollar funding activities are highly complex, geographically dispersed, and interconnected in ways that provide benefits to the stability of the global financial system. This also means, however, that strains in the system can easily be transmitted across different financial markets and across regions.

In addition, the dominant role of the dollar in international trade pricing and trade financing means the dollar plays a key role in the global economic recovery and that it could amplify the impact of the pandemic, according to the IMF. Traditionally, most economic models were based on the assumption that countries set their prices in their home currencies. As a result,

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104 See CRS In Focus IF10112, Introduction to Financial Services: The International Foreign Exchange Market.


106 Dominant Currencies and External Adjustment, IMF Staff Discussion Note 20/05, International Monetary Fund, July 2020.
domestically produced goods and services would become cheaper for trading partners when the domestic currency weakens, leading to increased demand from trading partners and more exports. However, much international trade, including many commodities, is priced in dollars, which means that trade volumes respond less than they would if goods were priced in exporters’ home currencies. Limited evidence indicates that a significant share of bilateral trade between countries other than the United States is invoiced in U.S. dollars.\textsuperscript{107} As a result, an appreciation of the dollar against other currencies, or a weakening in other currencies, has a muted effect on exports by other countries, at least in the short run, as has been evidenced by recent movements in exchange rates and trade volumes of emerging market and developing economies. The IMF also concludes that because countries other than the United States price much of their trade in dollars, an appreciation in the value of the dollar, or a depreciation in the value of other currencies relative to the dollar, reduces both exports and imports. As a result, a depreciation in other currencies relative to the dollar provides less of a boost to exports and, therefore, less of a countercyclical support to economies.

The international role of the dollar also increases pressure on the Federal Reserve essentially to assume the lead role as the global lender of last resort. Reminiscent of the financial crisis, the global economy has experienced a period of dollar shortage, requiring the Federal Reserve to take numerous steps to ensure the supply of dollars to the U.S. and global economies, including activating existing currency swap arrangements, establishing such arrangements with additional central banks, and creating new financial facilities to provide liquidity to central banks and monetary authorities.\textsuperscript{108} Typically, banks lend long-term and borrow short-term and can only borrow from their home central bank. In turn, central banks can only provide liquidity in their own currency. Consequently, a bank can become illiquid in a panic, meaning it cannot borrow in private markets to meet short-term cash flow needs. Swap lines are designed to allow foreign central banks the funds necessary to provide needed liquidity to their country’s banks in dollars.

\textbf{Figure 11. International Role of the Dollar}

\begin{figure}
\centering
\includegraphics[width=\textwidth]{figure11.png}
\caption{International Role of the Dollar}
\end{figure}


\textsuperscript{107} Ibid, p. 8.

March 2020

The yield on U.S. Treasury securities dropped to historic levels on March 6, 2020, and March 9, 2020, as investors continued to move out of stocks and into Treasury securities and other sovereign bonds, including UK and German bonds, due in part to concerns over the impact the pandemic would have on economic growth and expectations the Federal Reserve and other central banks would lower short-term interest rates. On March 5, the U.S. Congress passed an $8 billion spending bill to provide assistance for health care, sick leave, small business loans, and international assistance. At the same time, commodity prices dropped sharply as a result of reduced economic activity and disagreements among oil producers over production cuts in crude oil and lower global demand for commodities, including crude oil.

The drop in some commodity prices raised concerns about corporate profits and led some investors to sell equities and buy sovereign bonds. In overnight trading in various sessions between March 8, and March 24, U.S. stock market indexes moved sharply (both higher and lower), triggering automatic circuit breakers designed to halt trading if the indexes rise or fall by more than 5% when markets are closed and 7% when markets are open. By early April, the global mining industry had reduced production by an estimated 20% in response to falling demand and labor quarantines and as a strategy for raising prices.

Ahead of a March 12, 2020, scheduled meeting of the European Central Bank (ECB), the German central bank (Deutsche Bundesbank) announced a package of measures to provide liquidity support to German businesses and financial support for public infrastructure projects. At the same time, the Fed announced that it was expanding its repo market transactions (in the repurchase market, investors borrow cash for short periods in exchange for high-quality collateral like Treasury securities) after stock market indexes fell sharply, government bond yields fell to record lows (reflecting increased demand), and demand for corporate bonds fell. Together these developments raised concerns for some analysts that instability in stock markets could threaten global financial conditions.

Notes: (1) Data refer to 2019. (2) Data refer to 2019. (3) US dollar-denominated cross-border loans by banks to counterparties in all countries; data refer to Q4 2019 (excluding interoffice claims but including interbank claims on account of loans and deposits); loans comprise nonnegotiable debt instruments that are loaned by creditors directly to a debtor or represented by evidence of a deposit. (4) US dollar denominated international debt securities by all issuers; data refer to Q4 2019; these securities are issued outside the local market of the country where the borrower resides, and capture issues conventionally known as eurobonds and foreign bonds and exclude negotiable loans; instruments such as bonds, medium-term notes and money market instruments are included. (5) Data refer to 2019. (6) Data refer to Q4 2019. (7) As estimated in Gopinath (2015). (8) Data refer to February 2020. Sources: Gopinath (2015); Federal Reserve; IMF; CPB World Trade Monitor; Bloomberg; SWIFT; BIS Triennial Central Bank Survey of Foreign Exchange and Over-the-counter (OTC) Derivatives Markets; BIS locational banking statistics (LBS).


113 Smith, Colby and Brendan Greeley, “Fed Pumps Extra Liquidity Into Overnight Lending Markets,” Financial
On March 11, as the WHO designated COVID-19 a pandemic, governments and central banks adopted additional monetary and fiscal policies to address the growing economic impact. European Central Bank (ECB) President Christine Lagarde in a conference call to EU leaders warned that without coordinated action, Europe could face a recession similar to the 2008-2009 financial crisis. The Bank of England lowered its key interest rate, reduced capital buffers for UK banks, and provided a funding program for small and medium businesses. The UK Chancellor of the Exchequer also proposed a budget that would appropriate £30 billion (about $35 billion) for fiscal stimulus spending, including funds for sick pay for workers, guarantees for loans to small businesses, and cuts in business taxes. The European Commission announced a €25 billion (about $28 billion) investment fund to assist EU countries and the Federal Reserve announced that it would expand its repo market purchases to provide larger and longer-term funding to provide added liquidity to financial markets.

President Trump imposed restrictions on travel from Europe to the United States on March 12, 2020, surprising European leaders and adding to financial market volatility. At its March 12 meeting, the ECB announced €27 billion (about $30 billion) in stimulus funding, combining measures to expand low-cost loans to Eurozone banks and small and medium-sized businesses and implement an asset purchase program to provide liquidity to firms. Germany indicated that it would provide tax breaks for businesses and “unlimited” loans to affected businesses. The ECB’s Lagarde roiled markets by stating that it was not the ECB’s job to “close the spread” between Italian and German government bond yields (a key risk indicator for Italy), a comment reportedly interpreted as an indication the ECB was preparing to abandon its support for Italy, a notion that was denied by the ECB. The Fed also announced that it would increase its lending in the repo market and its purchases of Treasury securities to provide liquidity. As a result of tight market conditions for corporate bonds, firms turned to their revolving lines of credit with banks to build up their cash reserves. The price of bank shares fell, reflecting sales by investors who reportedly had grown concerned that banks would experience a rise in loan defaults. Despite the various actions, the DJIA fell by nearly 10% on March 12, recording the worst one-day drop since 1987. Between February 14 and March 12, the DJIA fell by more than 8,000 points, or 28% of its value. Credit rating agencies began reassessing corporate credit risk, including the risk of firms that had been considered stable.


Edgecliffe-Johnson, Andrew, Peggy Hollinger, Joe Rennison, and Robert Smith, “Will the COVID-19 Trigger a Corporate Debt Crisis?” Financial Times, March 12, 2020. https://www.ft.com/content/4455735a-63bc-11ea-b3f3-fe4680ea68b5. Sectors most exposed to debt financing issues include automotive, insurance, capital goods, utilities, oil and gas, technology, aerospace and defense, real estate, telecoms, consumer products, metals, mining and steel, healthcare, retail/restaurants, chemicals, packaging, transportation, media and entertainment, and forest products.
On March 13, President Trump declared a national emergency, potentially releasing $50 billion in disaster relief funds to state and local governments. The announcement moved financial markets sharply higher, with the DJIA rising 10%.119 Financial markets also reportedly moved higher on expectations the Fed would lower interest rates. House Democrats and President Trump agreed to a $2 trillion spending package to provide paid sick leave, unemployment insurance, food stamps, support for small businesses, and other measures.120 The EU indicated that it would relax budget rules that restrict deficit spending by EU members. In other actions, the People’s Bank of China cut its reserve requirements for Chinese banks, potentially easing borrowing costs for firms and adding $79 billion in funds to stimulate the Chinese economy; Norway’s central bank reduced its key interest rate; the Bank of Japan acquired billions of dollars of government securities (thereby increasing liquidity); and the Reserve Bank of Australia injected nearly $6 billion into its financial system.121 The Bank of Canada also lowered its overnight bank lending rate.

The Federal Reserve lowered its key interest rate to near zero on March 15, 2020, arguing that the pandemic had “harmed communities and disrupted economic activity in many countries, including the United States” and that it was prepared to use its “full range of tools.”122 It also announced an additional $700 billion in asset purchases, including Treasury securities and mortgage-backed securities, expanded repurchase operations, activated dollar swap lines with Canada, Japan, Europe, the UK, and Switzerland, opened its discount window to commercial banks to ease household and business lending, and urged banks to use their capital and liquidity buffers to support lending.123

Despite the Fed’s actions the previous day to lower interest rates, interest rates in the U.S. commercial paper market, where corporations raise cash by selling short-term debt, rose on March 16, 2020, to their highest levels since the 2008-2009 financial crisis, prompting investors to call on the Fed to intervene.124 The DJIA dropped nearly 3,000 points, or about 13%. Most automobile manufacturers announced major declines in sales and production;125 similarly, most airlines reported they faced major cutbacks in flights and employee layoffs due to diminished economic activity.126 Economic data from China indicated the economy would slow markedly in the first quarter of 2020, potentially greater than that experienced during the global financial crisis.

The Bank of Japan announced that it would double its purchases of exchange traded funds and the G-7 countries issued a joint statement promising “a strongly coordinated international approach,” although no specific actions were mentioned. The IMF issued a statement indicating its support for additional fiscal and monetary actions by governments and that the IMF “stands ready to mobilize its $1 trillion lending capacity to help its membership.” The World Bank also promised an additional $14 billion to assist governments and companies address the pandemic.

Following the drop in equity market indexes the previous day, the Federal Reserve unveiled a number of facilities on March 17, 2020, in some cases reviving actions it had not taken since the financial crisis. It announced that it would allow the 24 primary dealers in Treasury securities to borrow cash collateralized against some stocks, municipal debt, and higher-rated corporate bonds; revive a facility to buy commercial paper; and provide additional funding for the overnight repo market. The UK government proposed government-backed loans to support business; a three-month moratorium on mortgage payments for homeowners; a new lending facility with the Bank of England to provide low-cost commercial paper to support lending; and loans for businesses.

In an emergency session on March 18, the ECB announced a temporary, nonstandard asset purchase program, the Pandemic Emergency Purchase Program (PEPP), to acquire an additional €750 billion (over $820 billion) in public and private sector bonds to counter the risks posed by the pandemic crisis (as of May 5, the ECB had purchased about $180 billion in securities). The ECB also broadened the types of assets it would accept as collateral to include nonfinancial commercial paper, eased collateral standards for banks, and waived restrictions on acquiring Greek government debt. The program was expected to end no later than yearend 2020.

The Federal Reserve broadened its central bank dollar swap lines to include Brazil, Mexico, Australia, Denmark, Norway, and Sweden. Automobile manufacturers announced they were suspending production at an estimated 100 plants across North America, following similar plant closures in Europe. Major U.S. banks announced a moratorium on share repurchases, or stock buy-backs, denying equity markets a major source of support and potentially amplifying market volatility. During the week, more than 22 central banks in emerging economies, including Brazil, Turkey, and Vietnam, lowered their key interest rates.

By March 19, 2020, investors were selling sovereign and other bonds as firms and other financial institutions attempted to increase their cash holdings, although actions central banks took during


128 The G-7 is comprised of Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States.

the week appeared to calm financial markets. Compared to previous financial market dislocations in which stock market values declined while bond prices rose, stock and bond values fell at the same time in March 2020 as investors reportedly adopted a “sell everything” mentality to build up cash reserves. Senate Republicans introduced the Coronavirus Aid, Relief, and Economic Security Act to provide $2 trillion in spending to support the U.S. economy.

By the close of trading on March 20, the DJIA index had fallen by 17% from March 13. At the same time, the dollar gained in value against other major currencies, but generally trended lower since May and the price of Brent crude oil dropped close to $20 per barrel on March 20, as indicated in Figure 12. Since the low prices recorded in April, the price of Brent crude oil has generally moved within a range of $40 to $44 per barrel. According to the International Energy Agency (IEA) the rise in oil prices reflects increased demand in China and India as those economies regain strength and reduced global supply as a result of cuts in output by OPEC and elsewhere, including the United States.

The Federal Reserve announced that it would expand a facility to support the municipal bond market. Britain’s Finance Minister announced an “unprecedented” fiscal package to pay up to 80% of an employee’s wages and deferring value added taxes by businesses. The ECB’s Lagarde justified actions by the Bank during the week to provide liquidity by arguing that the “coronavirus pandemic is a public health emergency unprecedented in recent history.” Market indexes fell again on March 23 as the Senate debated the parameters of a new spending bill to support the economy. Oil prices also continued to fall as oil producers appeared to be in a standoff over cuts to production.

![Figure 12. Brent Crude Oil Price Per Barrel in Dollars](image)

Financial market indexes continued to fall on March 23, 2020, reaching their lowest point since the start of the pandemic crisis. The Federal Reserve announced a number of new facilities to

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provide an unlimited expansion in bond buying programs. The measures included additional purchases of Treasury and mortgage-backed securities; additional funding for employers, consumers, and businesses; establishing the Primary Market Corporate Credit Facility (PMCCF) to support issuing new bonds and loans and the Secondary Market Corporate Credit Facility (SMCCF) to provide liquidity for outstanding corporate bonds; establishing the Term Asset-Backed Securities Loan Facility (TALF), to support credit to consumers and businesses; expanding the Money Market Mutual Fund Liquidity Facility (MMLF) to provide credit to municipalities; and expanding the Commercial Paper Funding Facility (CPFF) to facilitate the flow of credit to municipalities.\textsuperscript{138} The OECD released a statement encouraging its members to support “immediate, large-scale and coordinated actions.” These actions included (1) more international cooperation to address the health crisis; (2) coordinated government actions to increase spending to support health care, individuals, and firms; (3) coordinated central bank action to supervise and regulate financial markets; and (4) policies directed at restoring confidence.\textsuperscript{139}

Reacting to the Fed’s announcement, the DJIA closed up 11% on March 24, marking one of the sharpest reversals in the market index since February 2020. European markets, however, did not follow U.S. market indexes as various indicators signaled a decline in business activity in the Eurozone that was greater than that during the financial crisis and indicated the growing potential for a severe economic recession.\textsuperscript{140} U.S. financial markets were buoyed on March 25 and 26 over passage in Congress of a $2.2 trillion economic stimulus package.

On March 27, leaders of the G-20 countries announced through a video conference they had agreed to inject $5 trillion into the global economy and to do “whatever it takes to overcome the pandemic.” Also at the meeting, the OECD offered an updated forecast of the viral infection, which projected that the global economy could shrink by as much as 2% a month. Nine Eurozone countries, including France, Italy, and Spain called on the ECB to consider issuing “coronabonds,” a common European debt instrument to assist Eurozone countries in fighting COVID-19.\textsuperscript{141} The ECB announced that it was removing self-imposed limits that it had followed in previous asset purchase programs that restricted its purchases of any one country’s bonds.\textsuperscript{142} Japan announced that it would adopt an emergency spending package worth $238 billion, or equivalent to 10% of the country’s annual GDP.\textsuperscript{143} Despite the various actions, global financial markets turned down March 27 (the DJIA dropped by 900 points) reportedly over volatility in oil markets and concerns that the economic effects of the COVID-19 pandemic were worsening.\textsuperscript{144}

By March 30, central banks in developing countries from Poland, Columbia, South Africa, the Philippines, Brazil, and the Czech Republic reportedly had begun adopting monetary policies similar to that of the Federal Reserve to stimulate their economies. In commodity markets, Brent crude oil prices continued to fall, reaching a low of $22.76. Strong global demand for dollars continued to put upward pressure on the international value of the dollar. In response, the Federal Reserve introduced a new temporary facility that would work with its swap lines to allow central banks and international monetary authorities to enter into repurchase agreements with the Fed. From mid-March to mid-April, U.S. workers’ claims for unemployment benefits reached over 17 million as firms faced a collapse in demand and requirements for employees to self-quarantine caused them to begin furloughing or laying off employees. Financial markets began to recover somewhat in early April in response to the accumulated monetary and fiscal policy initiatives, but remained volatile as a result of uncertainty over efforts to reach an output agreement among oil producers and the continued impact of the viral health effects.

April 2020

The Federal Reserve announced on April 8 that it was establishing a facility to fund small businesses through the Paycheck Protection Program. Japan also announced that it was preparing to declare areas around Tokyo to be in a state of emergency and that it would adopt a $989 billion funding package.

On April 9, OPEC and Russia agreed to cut oil production by 10 million barrels per day. On April 15, G-20 finance ministers and central bank governors announced their support for the proposed agreement by Saudi Arabia and Russia to reduce oil production. They also announced an agreement to freeze government loan payments until the end of the year to help low-income developing countries address the pandemic and asked international financial institutions to do likewise. G-7 finance ministers and central bank governors agreed to support the G-20 proposal to suspend debt payments by developing countries. Eurozone finance ministers announced a €500 billion (about $550 billion) emergency spending package to support governments, businesses, and workers. Reportedly, the measure will provide funds to the European Stability Mechanism, the European Investment Bank, and for unemployment insurance.

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In other policy areas, the IMF announced that it was doubling its emergency lending capacity to $100 billion, in response to requests from more than 100 countries for assistance.\textsuperscript{153} The Bank of England announced that it would take the unprecedented move of temporarily directly financing UK government emergency spending needs through monetary measures rather than through the typical method of issuing securities to fight the effects of COVID-19.\textsuperscript{154} Secretary-General of the United Nations Guterres declared on April 9, 2020, before the United Nations Security Council that the pandemic posed a significant threat to the maintenance of international peace and security and outlined eight specific risks, including the erosion of trust in public institutions, increased risks from terrorism and bioterrorism, and worsening existing human rights abuses.\textsuperscript{155}

Federal Reserve Chairman Jerome Powell, stating that the U.S. economy was deteriorating “with alarming speed,” announced on April 10 that the Fed would provide an additional $2.3 trillion in loans, including a new financial facility to assist firms by acquiring shares in exchange traded funds that own the debt of lower-rated, riskier firms that are among the most exposed to deteriorating economic conditions associated with COVID-19 and low oil prices.\textsuperscript{156} On April 16, the U.S. Labor Department reported that 5.2 million Americans filed for unemployment insurance during the previous week, raising the total claims since mid-March to over 22 million.\textsuperscript{157} According to Chinese official statistics, the Chinese economy shrank by 6.8\% on an annual basis during the first quarter of 2020, reportedly the first such contraction in 40 years.\textsuperscript{158}

Financial market indicators rose on April 17, reportedly on an upbeat sentiment that actions taken by the Federal Reserve and other central banks would stabilize conditions in the corporate credit market.\textsuperscript{159} The price of futures contracts for oil delivery in May 2020 for the U.S. West Texas Intermediate (WTI) fell to $18 per barrel, the lowest it had been since 2002, reportedly reflecting rising inventories and low global demand.\textsuperscript{160} Leaders of emerging economies in Latin America and Africa argued that the G-20 call for suspension of interest payments fell short of what is needed. National leaders from Columbia, Brazil, Mexico, and Chile encouraged the World Bank, the InterAmerican Development Bank, and the IMF to double their net lending to Latin America, arguing that, “The Covid-19 pandemic is a shock of unprecedented magnitude, uncertain duration


\textsuperscript{158} Hale, Thomas, Xinning Liu, and Yuan Yang, China’s Economy Shrinks for First Time in Four Decades, \textit{Financial Times}, April 17, 2020. https://www.ft.com/content/8f941520-67ad-471a-815a-d6a649d22ed.

\textsuperscript{159} Smith, Colby, Myles McCormick, Tommy Stubbington, and Hudson Lockett, US Stocks Extend Rally With Central Bank Safety Net, \textit{Financial Times}, April 17, 2020. https://www.ft.com/content/5ebc2d8-ad3-4d5c-86f5-49b9796e0e3d.

and catastrophic consequences that, if not properly addressed, could lead to one of the most tragic episodes in the history of Latin America and the Caribbean.”

The price of oil fell to its lowest level in two decades on April 19, reportedly reflecting a significant drop in global demand for energy and rising inventories. Some Eurozone members reportedly argued for the ECB to create a Eurozone “bad bank” to remove billions of euros in nonperforming debts from banks’ balance sheets to provide more capacity for Eurozone banks at a potentially critical time when banks could see an increase in nonperforming loans. The World Bank confirmed that its “pandemic bonds” would pay out $133 billion to the poorest countries affected by the pandemic.

On April 21, Agricultural Ministers of the G-20 countries released a joint statement that supported measures to “ensure the health, safety, welfare, and mobility of workers in agriculture and throughout the food supply chain.” The joint statement also indicated that the G-20 countries would adopt measures that are “targeted, proportionate, transparent, and temporary, and that they do not create unnecessary barriers to trade or disruption to global food supply chains.” The statement also indicated that the G-20 would, “guard against any unjustified restrictive measures that could lead to excessive food price volatility in international markets and threaten the food security and nutrition of large proportions of the world population, especially the most vulnerable living in environments of low food security.”

On April 23, the House passed H.R. 266 (P.L. 116-139), the Paycheck Protection Program and Health Care Enhancement Act, following similar actions by the Senate the previous day. The measure will provide $484 billion for small business loans, health care providers, and COVID-19 testing. The U.S. Labor Department reported that 4.4 million Americans filed for unemployment insurance in the previous week, raising the total that have applied to over 26 million. Indicators of manufacturing and services activity in Europe dropped to their lowest level since 1990, reflecting the impact of the pandemic on the European economy. The Bank of England indicated that it would quadruple its borrowing over the second quarter of 2020, reflecting a contraction in the UK economy, lower tax revenues, and increased financial demands to support fiscal policy measures to fight the pandemic. The Saudi Presidency of the G-20 called on international organizations on April 24 to fund an emergency response to the pandemic. The Bank of Japan announced on April 27 that it would purchase unlimited amounts of government bonds

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and quadruple its purchases of corporate debt to keep interest rates low and stimulate the Japanese economy.169

At its April 29 scheduled meeting, the U.S. Federal Open Market Committee left its main interest rates unchanged, but reiterated its commitment to use “its full range of tools to support the U.S. economy.” The policy statement concluded that, “The ongoing public health crisis will weigh heavily on economic activity, employment, and inflation in the near term, and poses considerable risks to the economic outlook over the medium term.”170 The Federal Reserve also announced a change in its eligibility requirements for a $500 billion lending program for municipalities. The statement followed the release of the preliminary estimate of U.S. first quarter GDP, which indicated that the economy had contracted by an annualized rate of 4.8% (revised to 5.0%).171

On April 30, the Department of Labor released its weekly data on applications for unemployment insurance, which indicated that an additional 3.8 million people had filed for unemployment insurance during the week, raising the total number who had applied to 30 million.172 The Federal Reserve also announced an expansion in its medium-size business loan program by allowing firms with up to 15,000 employees or with revenues up to $5 billion to access a new $600 billion program. In addition, the Fed lowered the minimum loan amount for small businesses and announced a loan program to assist riskier businesses.173 At the same time, the ECB expanded a record low-interest rate loan program for Eurozone banks to support economic activity, while warning that the Eurozone economy could contract between 5% and 12% in 2020 as it faces, “an economic contraction of a magnitude and speed that are unprecedented in peacetime.”174 The ECB also announced a new nontargeted low-interest rate pandemic emergency longer-term refinancing operation (PELTROs) to complement its Pandemic Emergency Refinance Operations announced in March.175 House Speaker Pelosi stated that House Democrats were considering a $1 trillion spending bill to support state and local governments.176 In a development that seemed incongruous with the broader economic situation, between April 1, 2020, and April 30, 2020, the DJIA rose more than 3,400 points, or 16%, marking the strongest monthly increase since 1987.177


May 2020

On May 5, Germany’s Constitutional court issued a ruling that could prevent the German central bank, the Bundesbank, from making additional bond purchases under the Pandemic Emergency Purchase Program (PEPP). The ECB’s program is intended to ease borrowing costs across the Eurozone to stimulate economic growth.

The U.S. Census Bureau reported on May 5 that U.S. exports and imports fell in March; exports fell by a greater amount than imports, thereby increasing the monthly U.S. goods and services trade deficit. The trade balance for March was -$44.5 billion, an increase of about $4.6 billion over the trade deficit in February. The decline in export and import values reflected lower imports and exports of both goods and services.

On May 6, the European Commission released its spring economic forecast, which indicated that economic activity in the EU would decline by 7.4% in 2020 as a result of measures to contain the pandemic. The Commission forecast that economic growth would advance by 6.0% in 2021, assuming the containment measures can be lifted gradually, the viral effects remain contained, and that the fiscal and monetary measures implemented by the EU members are effective in blunting the negative effects on economies.178 On May 7, the Labor Department announced that 2.7 million Americans had filed for unemployment insurance during the week, raising the total that had filed over the previous seven weeks to 33 million.179

On May 8, the U.S. Department of Labor announced that 20.5 million Americans had lost their jobs in April, pushing the national unemployment rate to 14.5%. Despite the rise in the unemployment rate, the DJIA rose by 2.0%, reportedly based on optimism that the monetary policy actions the Federal Reserve, the ECB, and the Bank of Japan had taken to support financial markets would stabilize and stimulate the markets and optimism that the health crisis is ebbing.180

On May 12, House Democrats introduced H.R. 6800, the Heroes Act, to provide a $3 trillion supplemental spending bill for additional financial resources to state and local governments and for other purposes. The measure passed the House on May 15 and was sent to the Senate for consideration. On May 13, the UK Office of National Statistics reported that UK GDP contracted by 2.0% in the first quarter, the largest decline in the UK’s GDP since 2008 with all major economic sector affected.181 On May 14, the U.S. Department of Labor announced that an additional 2.4 million Americans had filed for unemployment insurance during the previous week, increasing the total number filing for unemployment insurance over the previous eight weeks to 36 million.182

On May 18, German Chancellor Angela Merkel and French President Emmanuel Macron proposed a €500 billion (about $620 billion) EU recovery fund in an effort to gain a coordinated EU fiscal response to the pandemic.183

183 Fleming, Sam, Victor Mallet, and Guy Chazan, Germany and France Unite in Call for €500 Billion Europe
The Department of Labor announced on May 21 that an additional 2.4 million Americans had filed for Unemployment Insurance, raising the total to 38.4 million over the previous nine weeks.\textsuperscript{184}

On May 27, European Commission President Ursula von der Leyen proposed a €750 billion (about $825 billion) coronavirus recovery plan to provide loans and grants to the hardest hit EU economies and changes to the EU budget. The Japanese Cabinet proposed a second supplemental appropriation measure that includes $296 billion in spending and a total value of about $1.1 trillion in loans and guarantees, funded through new bonds.\textsuperscript{185}

On May 28, the Department of Labor announced that an additional 1.9 million (revised) Americans filed for Unemployment Insurance, raising the ten-week total to 42.6 million.\textsuperscript{186}

\section*{June 2020}

On June 4, the U.S. Census Bureau reported that U.S. imports fell by 13.7% and exports fell by 20.5% in April, increasing the monthly current account deficit and registering the largest decline in U.S. trade since the global financial crisis.\textsuperscript{187} In addition, the Labor Department announced that an additional 1.9 million Americans filed for unemployment insurance, increasing the 11-week total to 44 million.\textsuperscript{188} The European Central Bank announced that it would double to $1.5 trillion its Pandemic Emergency Purchase Program to stimulate the European economy.\textsuperscript{189} The DJIA rose by more than 800 points on June 5 as a positive jobs report, apparently signaling to some that the U.S. economy would recover quickly from the pandemic-driven economic downturn.\textsuperscript{190} OPEC and Russia reportedly agreed on June 7 to maintain their cuts in oil production for one additional month in an effort to raise international oil prices.\textsuperscript{191}

On June 8, the DJIA rose nearly 2% reportedly on positive jobs data, extending gains in the value of the index and rising to its highest level since late February.\textsuperscript{192} Most foreign markets indices similarly rose. The World Bank forecasted that emerging and developing economies would contract in 2020 for the first time in 60 years.\textsuperscript{193}


\textsuperscript{185} Harding, Robin, Japan’s Cabinet Approves Extra $1 Trillion Budget to Counter Recession, Financial Times, May 27, 2020. https://www.ft.com/content/ce7f3564-c997-339c-ad3d-c6d092fb7f1e.


\textsuperscript{191} Sheppard, David, Anjli Raval, and Derek Brower, OPEC and Russia Agree to Extend Record Oil Supply Cuts, Financial Times, June 7, 2020. https://www.ft.com/content/88747416-0fc4-4808-999f-753793589ca7.


\textsuperscript{193} Politi, James, Emerging Economies Forecast to Shrink for First Time in 60 Years, Financial Times, June 8, 2020. https://www.ft.com/content/47998e3-b2d3-4066-a914-edbf60b797b5.
On June 11, the DJIA fell by more than 1,800 points, or 6.9% reportedly on fears that a spike in new coronavirus cases signaled the pandemic was not contained and over concerns about U.S. economic growth as a result of projections by the Federal Reserve that were interpreted as gloomy. The Labor Department reported that an additional 1.57 million Americans filed for unemployment insurance during the previous week, raising the 12-week total from mid-March to 44 million Americans. According to a report by Eurostat on June 12, industrial production in the Eurozone fell by 17.1% in April, reportedly the largest decline in production recorded since records began in 1991. The decline reflects lower levels of economic activity in manufacturing and construction throughout the Eurozone. The Federal Reserve released its semi-annual Monetary Policy Report.

The Institute of International Finance reported on June 15, that capital outflows from developing economies had reversed with funds flowing back into developing economies, primarily by bond issuance through the international bond market, rather than by refinancing existing debt.

In testimony before the Senate Banking Committee on June 17, Federal Reserve Chairman Powell stressed that although there were positive signs that U.S. economic growth was beginning to rebound, there was “significant uncertainty” about the timing and strength of the recovery.

On June 17, the Bank of Japan announced that it was maintaining its low interest rates even as it increased its coronavirus lending facility to $1 trillion. The U.S. Energy Information Administration reported that U.S. crude oil production fell to its lowest point since March 2018, while stockpiles reached record highs. The price of Brent crude reached $41 per barrel, encouraging some U.S. producers to consider restarting wells that were closed when prices dropped to around $20 per barrel.

On June 18, the Department of Labor announced that an additional 1.54 million Americans filed for unemployment during the week, raising the 13-week total to 45.7 million Americans. During May, U.S. retail sales increased by 17.7% as some businesses began reopening and increasing optimism in financial markets that economic activity was on course for a quick recovery. Concerns over trade disputes and a rise in new coronavirus cases, however, reportedly overcame the optimism of increased sales and were factors in DJIA losses on June 24 of more than 700 points. In addition, the IMF issued its updated economic outlook, forecasting that global

196 Arnold, Martin, Eurozone Industrial Production Falls by Record 17.1% in April, Financial Times, June 12, 2020. https://www.ft.com/content/e3301c6e-27ce-35f0-829a-c66138495b37.
economically growth would contract by 4.9% in 2020, compared with an April forecast of a decline of 3.0%.203

On June 25, the ECB and the German government announced they had reached a tentative accord to end the conflict over the ECB’s bond-buying program.204 Elsewhere, the Labor Department reported that an additional 1.48 million Americans filed for unemployment insurance, raising the 14-week total from mid-March to over 47 million.205 Between June 1 and June 26, the DJIA posted 13 days with gains and 7 days of declines, with the DJIA value at the end of the period nearly the same as it was in early March 2020. On June 24 and 26, the DJIA index fell by more than 700 points, reportedly over investors’ concerns over a spike in new coronavirus cases in various U.S. States.206 Also on June 25, the Federal Reserve announced the result of stress tests on 33 U.S. banks under 3 scenarios207 to ascertain their capital sufficiency given the strains to the financial system caused by COVID-19.208 The Fed reported that all large U.S. banks are “sufficiently capitalized” to survive the three scenarios.209 Both the IMF and the WTO released forecasts indicating that global trade had declined sharply in the first quarter of 2020 and was projected to post similarly sharp declines for the year. By the end of June, the international price of crude had risen slightly above $40 per barrel, regaining about half the value it had lost during the first quarter of 2020.

July 2020

The Department of Labor announced on July 2 that an additional 1.4 million Americans had filed for Unemployment Insurance, raising the total to 48.7 million over the 15-week period from mid-March.210 The insured seasonally adjusted unemployment rate in June was estimated at 13.2%, unchanged from the revised rate in the previous week. On July 2, the BLS also released data on the employment situation in June, indicating that nonfarm payroll rose by 4.8 million, lowering the unemployment rate to 11.5%. The Census Bureau also released U.S. trade data for May indicating that the U.S. merchandise trade deficit rose by nearly 10% over that recorded in April as exports fell by more than imports.211

On July 9, the BLS reported that an additional 1.3 Americans filed for Unemployment Insurance, raising the 16-week total from mid-March to 50 million.212 On July 17, the European Council met to approve a proposed plan to provide an additional €750 billion in pandemic support funds to assist European economies. Negotiations failed to produce an agreement and talks continued over

203 World Economic Outlook Update, p. 5.
207 The three scenarios include (1) a rapid, or “V”-shaped recovery; (2) a slower, or “U”-shaped recovery; and (3) a “W”-shaped or double-dip recession with a short-lived recovery followed by a severe drop in activity later this year due to a second COVID event. Assessment of Bank Capital During the Recent Coronavirus Event, Board of Governors of the Federal Reserve System, June 2020, p. 2.
208 Ibid.
209 Ibid., pp. 1-2.
the weekend and resumed on July 20. On July 21, however, European leaders announced they had agreed to a €750 billion (about $859 billion) pandemic economic relief package.

On July 29, the Federal Open Market Committee (FOMC) announced it was not changing key interest rates. It also announced that it was extending foreign currency swap lines and a number of its lending facilities. Federal Reserve Chairman Powell indicated “The ongoing public health crisis will weigh heavily on economic activity, employment, and inflation in the near term, and poses considerable risks to the economic outlook over the medium term.” On July 30, second quarter GDP data indicated that U.S. economic output fell by 9.5% from the previous quarter, but at an annualized rate of 33%. The Department of Labor also announced that an additional 1.4 million individuals applied for unemployment insurance during the previous week, raising the 19-week total to 54 million.

**August 2020**

On August 20, the Department of Labor announced that an additional 1.1 million workers filed for unemployment insurance during the previous week, raising the total over the 22-week period from mid-March to mid-August 2020 to 56 million Americans who had filed for unemployment insurance. On a seasonally adjusted basis, the number of insured unemployed workers was 14.8 million in mid-August, down from a peak of 25 million in mid-May. The total number of people claiming benefits in all programs in the week ending August 1, totaled 28 million, up from 1.7 million in the comparable week in 2019. The insured unemployment rate was 10.2%, also down from the peak reached in early May.

The Bank of England announced through its standard Monetary Policy Committee meeting that it would maintain its key interest rate at 0.1% and continue its purchases of UK government bond and nonfinancial investment-grade corporate bonds.

**September 2020**

On September 17, the Department of Labor announced that over the 26-week period from mid-March to mid-September 2020, 61 million Americans filed for unemployment insurance. On a seasonally adjusted basis, the number of insured unemployed workers was 12.6 million in late August, down from a peak of 25 million in mid-May. The total number of people claiming benefits in all programs in the week ending August 29, totaled 29.7 million, up from 1.6 million in the comparable week in 2019. The insured unemployment rate was 8.6%, also down from the peak reached in early May. On September 4, BLS reported that nonfarm employment increased by 1.4 million in August, reducing the total number of unemployed Americans to 13.6 million and pushing the unemployment rate down to 8.4%, again with some caveats.

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216 This total does not include 7.6 million workers who were working part time not by choice and 7.0 million individuals who were seeking employment.

217 *The Employment Situation-August 2020*, Bureau of Labor Statistics, September 4, 2020, https://www.bls.gov/. BLS indicated that some individuals were misclassified in previous months. Instead of being classified as unemployed, they were misclassified as employed, but absent from work due to coronavirus-related business closures. If such individuals...
October 2020

On October 1, IMF managing director Kristalina Georgieva warned there was a risk of a rise in sovereign bankruptcies unless temporary debt relief measures adopted early in the year were extended and sovereign debt contracts and processes are overhauled.218

On October 2, BLS reported that nonfarm employment increased by 661 thousand in September, reducing the total number of unemployed Americans to 13.6 million219 and pushing the unemployment rate down to 7.9%, again with some caveats.220 President Trump announced that he had tested positive for COVID-19.

On October 29, DOL reported that over the 32-week period from mid-March to late October 2020, about 66 million Americans filed for unemployment insurance.221 On a seasonally adjusted basis, the number of insured unemployed individuals was 7.8 million in late October, down from a peak of 25 million in mid-May. On October 30, UK Prime Minister Boris Johnson announced the resurgence of coronavirus cases in the UK and called for another countrywide business lockdown. In response the resurgence of coronavirus cases across Europe, financial markets lost value; the Dow Jones Industrial Average lost more than 1.800 points in the last week of October, or more than 4% of its value.

November 2020

In the first three days of November, the DJIA regained three-fourths of the value lost during the previous week as congressional leaders and the Trump Administration signaled the possibility of a new stimulus package to support the U.S. economy.

Preliminary forecasts indicate that India’s economy contracted by 8.6% in the third quarter of 2020, reportedly reflecting increased consumer activity.222 On November 12, India’s finance minister announced a new package of fiscal measures totaling $35 billion to increase consumer spending and to assist manufacturing, agriculture, and exports. The move followed an announcement by India’s cabinet that it had approved a spending package of $27 billion to provide in incentives over five years to manufacturing firms, including automobiles, auto parts, pharmaceuticals, textiles, and food products.223

had been classified as unemployed, the unemployment rate would have been 5 percentage points higher in April.


219 This total does not include 7.6 million workers who were working part time not by choice and 7.0 million individuals who were seeking employment.

220 The Employment Situation-August 2020, Bureau of Labor Statistics, September 4, 2020, https://www.bls.gov/. BLS indicated that some individuals were misclassified in previous months. Instead of being classified as unemployed, they were misclassified as employed, but absent from work due to coronavirus-related business closures. If such individuals had been classified as unemployed, the unemployment rate would have been 5 percentage points higher in April.


On November 12, the DOL reported that over the 35-week period from mid-March to the first week of November 2020, about 67.4 million Americans had filed for unemployment insurance. On a seasonally adjusted basis, the number of insured unemployed individuals was 6.8 million in late October, down from a peak of 25 million in mid-May. Weekly claims have fallen from the sharp increases recorded in April and May, declining to 709,000 in the week ending November 7, after totaling 751,000 the previous week, four times higher than the average number of weekly claims of about 200,000 recorded prior to the COVID-19 pandemic.

On November 15, 15 countries, including Brunei, Colombia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam, Australia, China, Japan, New Zealand, and South Korea, signed the Regional Comprehensive Economic Partnership (RCEP) to create potentially one of the largest free trade agreements. The agreement will need to be ratified by the signatory governments.

On November 19, 2020, the DOL reported that over the 36-week period from mid-March to mid-November 2020, about 68.2 million Americans had filed for unemployment insurance. Weekly claims rose to 742,000 in the week ending November 14, increasing from 711,000 the previous week, marking the first increase in weekly claims since October 10, 2020.

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Comparing the Current Crisis and the 2008 Crisis

Sharp declines in the stock market and broader financial sector turbulence; interest rate cuts and large-scale Federal Reserve intervention; and discussions of massive government stimulus packages have led some observers to compare the current market reaction to that experienced a little over a decade ago. There are similarities and important differences between the current economic crisis and the global financial crisis of 2008/2009. Foremost, the earlier crisis was rooted in structural weakness in the U.S. financial sector. Following the collapse of the U.S. housing bubble, it became impossible for firms to identify demand and hold inventories across many sectors (construction, retail, etc.). This led to massive oversupply and sharp retail losses which extended to other sectors of the U.S. economy and eventually the global economy. Moreover, financial markets across countries were linked together by credit default swaps. As the crisis unfolded, large numbers of banks and other financial institutions were negatively affected, raising questions about capital sufficiency and reserves. The crisis then quickly engulfed credit-rating agencies, mortgage lending companies, and the real estate industry broadly. Market resolution came gradually with a range of monetary and fiscal policy measures that were closely coordinated at the global level. These were focused on putting a floor under the falling markets, stabilizing banks, and shoring up investor confidence to get spending started again. Starting in September 2007, the Federal Reserve cut interest rates from over 5% in September 2007 to between 0 and 0.25% before the end of the 2008. Once interest rates approached zero, the Fed turned to other so-called “unconventional measures,” including targeted assistance to financial institutions, encouraging Congress to pass the Troubled Asset Relief Program (TARP) to prevent the collapse of the financial sector and boost consumer spending. Other measures included swap arrangements between the Federal Reserve and the European Central Bank and smaller central banks, and so-called “quantitative easing” to boost the money supply. On a global level, the United States and other countries tripled the resources of the IMF (from $250 billion to $750 billion) and coordinated domestic stimulus efforts.

Unlike the 2008 crisis, the current crisis began as a supply shock. As the global economy has become more interdependent in recent decades, most products are produced as part of a global value chain (GVC), where an item such as a car or mobile device consists of parts manufactured all over the world, and involving multiple border crossings before final assembly. The earliest implications of the current crisis came in January as plant closures in China and other parts of Asia led to interruptions in the supply chain and concerns about dwindling inventories. As the virus spread from Asia to Europe, the crisis switched from supply concerns to a broader demand crisis as the measures being introduced to contain the spread of the virus (social distancing, travel restrictions, cancelling sporting events, closing shops and restaurants, and mandatory quarantine measures) prevent most forms of economic activity from occurring. Thus, unlike the 2008 crisis response, which involved liquidity and solvency-related policy measures to get people spending again, the current crisis did not start as a financial crisis, but could evolve into one if a recovery in economic activity is delayed. While larger firms may have sufficient capital to wait out a crisis, many aspects of the economy (such as restaurants or retail operations) operate on very tight margins and would likely not be able to pay employees after closures lasting more than a few days. Many people will also need to balance child care and work during quarantine or social distancing measures. During this type of crisis, while monetary policy measures play a part—and the Federal Reserve has once again cut rates to near zero—they cannot compensate for the physical interaction that the global economy is dependent upon. As a result, fiscal stimulus will likely play a relatively larger role in this crisis in order to prevent personal and corporate bankruptcies during the peak crisis period. Efforts to coordinate U.S. and foreign economic policy measures will also have an important role in mitigating the scale and length of any global economic downturn.

Source: Prepared by Martin A. Weiss, CRS.

Policy Responses

In response to growing concerns over the global economic impact of the pandemic, G-7 finance ministers and central bankers released a statement on March 3, 2020, indicating they will “use all appropriate policy tools” to sustain economic growth.226 The Finance Ministers also pledged

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fiscal support to ensure health systems can sustain efforts to fight the outbreak.\textsuperscript{227} In most cases, however, countries have pursued their own divergent strategies, in some cases including banning exports of medical equipment. Following the G-7 statement, the U.S. Federal Reserve (Fed) lowered its federal funds rate by 50 basis points, or 0.5%, to a range of 1.0% to 1.25% due to concerns about the “evolving risks to economic activity of the COVID-19.”\textsuperscript{228} At the time, the cut was the largest one-time reduction in the interest rate by the Fed since the global financial crisis.

After a delayed response, other central banks have begun to follow the actions of the G-7 countries. Most central banks have lowered interest rates and acted to increase liquidity in their financial systems through a combination of measures, including lowering capital buffers and reserve requirements, creating temporary lending facilities for banks and businesses, and easing loan terms. In addition, national governments have adopted various fiscal measures to sustain economic activity. In general, these measures include making payments directly to households, temporarily deferring tax payments, extending unemployment insurance, and increasing guarantees and loans to businesses.

See Appendix A to this report for detailed information about the policy actions by individual governments.\textsuperscript{229}

The United States

Recognizing the growing impact the pandemic has had on financial markets and economic growth, the Federal Reserve (Fed) took a number of steps to promote economic and financial stability involving the Fed’s monetary policy and “lender of last resort” roles. Some of these actions were intended to stimulate economic activity by reducing interest rates; other actions were intended to provide liquidity to financial markets so firms would have access to needed funding. In announcing its decisions, the Fed indicated that “[t]he COVID-19 outbreak has harmed communities and disrupted economic activity in many countries, including the United States. Global financial conditions have also been significantly affected.\textsuperscript{230}” On March 31, 2020, the Trump Administration announced that it was suspending for 90 days tariffs it had placed on imports of apparel and light trucks from China, but not on other consumer goods and metals.\textsuperscript{231} In October, Congress and the Trump Administration negotiated over the substance of an additional spending package to support the U.S. economy.

On August 27, the Bureau of Economic Analysis released updated second quarter U.S. GDP data indicating that the U.S. economy had contracted by 5.0% at an annual rate in the first quarter and 31.7% in the second quarter, as indicated in Figure 13. A decline in economic activity in the second quarter of 80% or more was recorded in recreation, food services and accommodation and transportation sectors, reflecting the quarantine measures adopted across the country. In contrast to the other sectors of the economy, food and beverage consumption increased by 31% in the first quarter compared with the previous quarter, but falling by 6% in the second quarter.

\textsuperscript{227} Giles et al., “Finance Ministers Ready to Take Action.”


On November 5, the U.S. Census Bureau reported a decrease in the overall U.S. goods and services trade deficit in September to $63.9 billion, or a decrease on a month-to-month basis of $3.2 billion, reflecting higher amounts of exports and imports of goods and services, as indicated in Figure 14.\footnote{Monthly U.S. International Trade in Goods and Services, September 2020, Census Bureau, November 5, 2020.} Exports and imports of both goods and services rose from the previous month, although goods exports rose faster than goods imports. According to the data, the deficit in goods trade decreased from $84 billion in August to $80.7 billion in September; the surplus in services trade fell from $16.79 billion to $16.82 billion. Through September, U.S. exports of goods and services had fallen by 17.4% in value terms compared with the comparable period in 2019; imports of goods and services had fallen by 12.4%, also reflecting the overall decline in global trade.
GDP data through the second quarter indicate that U.S. trade has dropped sharply in real, or index terms, in both the quantity of goods exported or imported and the value of those goods, as indicated in Figure 15. The data show the sharp drop in U.S. trade, both exports and imports, as a result of the global lockdown due to actions to contain the spread of the viral pandemic. In quantity terms, U.S. exports fell by 25%, while imports fell by 15% in the second quarter compared with the preceding quarter. In value terms, the price of U.S. exports fell by 6%, while the price of imports fell by 3.7% compared with the first quarter.

On November 6, the BLS also released data on the employment situation in October, indicating that nonfarm payroll rose by 638 thousand from the previous month, lowering the unemployment rate to 6.9%. As indicated in Figure 16, the U.S. economy has experienced monthly gains in

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jobs since the loss of more than 20 million jobs in April. The gains, however, have declined on a monthly basis, raising concerns that the U.S. economic recovery has stalled. The number of unemployed fell to 11.1 million. Over the six-month period from May to October, job gains were notable in the leisure and hospitality industry (particularly in food services and drinking establishments), public-sector education and health services, retail trade, health care and social assistance, professional and business services, and other services, while employment in government (mostly state and local governments) fell.

**Figure 16. Change in Total Monthly U.S. Nonfarm Employment**

<table>
<thead>
<tr>
<th>Month</th>
<th>Net Change '000s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 214</td>
<td></td>
</tr>
<tr>
<td>Feb. 251</td>
<td></td>
</tr>
<tr>
<td>Mar. -881</td>
<td></td>
</tr>
<tr>
<td>Apr. 20,787</td>
<td></td>
</tr>
<tr>
<td>May 2,725</td>
<td></td>
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<tr>
<td>June 4,781</td>
<td></td>
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<tr>
<td>July 1,761</td>
<td></td>
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<tr>
<td>Aug. 1,493</td>
<td></td>
</tr>
<tr>
<td>Sep. 672</td>
<td>638</td>
</tr>
</tbody>
</table>

**Source:** Bureau of Labor Statistics. Created by CRS.

On May 8, the Department of Labor reported that the U.S. nonfarm unemployment rate in April increased by 20 million, raising the total number of unemployed Americans 23 million, or an unemployment rate of 14% of a total civilian labor force of 156 million. The unemployment rate did not include approximately 10 million workers who were involuntarily working part-time and another 9 million individuals who were seeking employment. As indicated in **Figure 17**, the number of unemployed individuals increased the most in the leisure and hospitality sector, reflecting national quarantining policies to reduce the spread of COVID-19 through social contact. The employment losses were widely spread across the economy, affecting every nonfarm sector and all labor groups.

unemployment number does not include 6.7 million workers who were working part time not by choice and 6.7 million individuals seeking employment. In addition, BLS indicated that some workers had been misclassified as employed, but should have been classified as unemployed, which would have raised the rate of unemployment by 0.3 percentage points.
In a speech on May 13, Federal Reserve Chairman Jerome Powell reported that Federal Reserve analyses indicated that of individuals working in February, “almost 40 percent of those in households making less than $40,000 a year had lost a job in March.”234 Chairman Powell also indicated that given the extraordinary nature of the current economic downturn the Fed would, “continue to use our tools to their fullest until the crisis has passed and the economic recovery is well under way.”

In characterizing the monetary and fiscal response to the economic downturn, Chairman Powell said in a speech on October 6, the monetary response included, “the full range of tools at our disposal,” including cutting key interest rates, “unprecedented” asset purchases, establishing emergency lending facilities to support households, businesses and state and local governments, and implementing targeted and temporary measures for banks to support their customers.235 In addition, the fiscal response accomplished three objectives, it provided support to: households through the Paycheck Protection Program, and financial markets. Chairman Powell concluded his remarks arguing the necessity of continued fiscal support for the economy:

The expansion is still far from complete. At this early stage, I would argue that the risks of policy intervention are still asymmetric. Too little support would lead to a weak recovery, creating unnecessary hardship for households and businesses. Over time, household

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235 Recent Economic Developments and the Challenges Ahead, Jerome H Powell, Remarks at the National Association for Business Economists, October 6, 2020.
insolvencies and business bankruptcies would rise, harming the productive capacity of the economy, and holding back wage growth. By contrast, the risks of overdoing it seem, for now, to be smaller. Even if policy actions ultimately prove to be greater than needed, they will not go to waste.236

Monetary Policy237

Forward Guidance

Forward guidance refers to Fed public communications on its future plans for short-term interest rates, and it took many forms following the 2008 financial crisis. As monetary policy returned to normal in recent years, forward guidance was phased out. It is being used again today. For example, when the Fed reduced short-term rates to zero on March 15, it announced that it “expects to maintain this target range until it is confident that the economy has weathered recent events and is on track to achieve its maximum employment and price stability goals.”

Quantitative Easing

Large-scale asset purchases, popularly referred to as quantitative easing or QE, were also used during the financial crisis. Under QE, the Fed expanded its balance sheet by purchasing securities. Three rounds of QE from 2009 to 2014 increased the Fed’s securities holdings by $3.7 trillion.

On March 23, the Fed announced that it would increase its purchases of Treasury securities and mortgage-backed securities (MBS)—including commercial MBS—issued by government agencies or government-sponsored enterprises to “the amounts needed to support smooth market functioning and effective transmission of monetary policy....” These would be undertaken at the unprecedented rate of up to $125 billion daily during the week of March 23. As a result, the value of the Fed’s balance sheet is projected to exceed its post-financial crisis peak of $4.5 trillion. One notable difference from previous rounds of QE is that the Fed is purchasing securities of different maturities, so the effect likely will not be concentrated on long-term rates.

Actions to Provide Liquidity

Reserve Requirements

On March 15, the Fed announced that it was reducing reserve requirements—the amount of vault cash or deposits at the Fed that banks must hold against deposits—to zero for the first time ever. As the Fed noted in its announcement, because bank reserves are currently so abundant, reserve requirements “do not play a significant role” in monetary policy.

Term Repos

The Fed can temporarily provide liquidity to financial markets by lending cash through repurchase agreements (repos) with primary dealers (i.e., large government securities dealers who are market makers). Before the financial crisis, this was the Fed’s routine method for targeting the federal funds rate. Following the financial crisis, the Fed’s large balance sheet meant that repos were no longer needed, until they were revived in September 2019. On March 12, the Fed

236 Ibid, p. 7.
237 This section was prepared by Marc Labonte, Specialist in Macroeconomic Policy, Government and Finance Division, CRS. CRS Insight IN11259, Federal Reserve: Recent Actions in Response to COVID-19, by Marc Labonte.
announced it would offer a three-month repo of $500 billion and a one-month repo of $500 billion on a weekly basis through the end of the month in addition to the shorter-term repos it had already been offering. These repos would be larger and longer than those offered since September. On March 31, the Fed announced the Foreign and International Monetary Authorities (FIMA) Repo Facility, which works like the foreign repo pool in reverse. This facility allows foreign central banks to convert their U.S. Treasury holdings into U.S. dollars on an overnight basis. The Fed will charge a (typically) above market interest rate of 0.25 percentage points above the interest rate paid on bank reserves. The facility is intended to work in tandem with currency swap lines to provide additional dollars to meet global demand and is available to a broader group of central banks than the swap lines.

**Discount Window**

In its March 15 announcement, the Fed encouraged banks (insured depository institutions) to borrow from the Fed’s discount window to meet their liquidity needs. This is the Fed’s traditional tool in its “lender of last resort” function. The Fed also encouraged banks to use intraday credit available through the Fed’s payment systems as a source of liquidity.

**Foreign Central Bank Swap Lines**

Both domestic and foreign commercial banks rely on short-term borrowing markets to access U.S. dollars needed to fund their operations and meet their cash flow needs. But in an environment of strained liquidity, only banks operating in the United States can access the discount window. Therefore, the Fed has standing “swap lines” with major foreign central banks to provide central banks with U.S. dollar funding that they can in turn lend to private banks in their jurisdictions. On March 15, the Fed reduced the cost of using those swap lines and on March 19 it extended swap lines to nine more central banks. On March 31, 2020, the Fed set up a new temporary facility to work in tandem with the swap lines to provide additional dollars to meet global demand. The new facility allows central banks and international monetary authorities to exchange their U.S. Treasury securities held with the Federal Reserve for U.S. dollars, which can then be made available to institutions in their jurisdictions.¹²³⁸

**Emergency Credit Facilities for the Nonbank Financial System**

In 2008, the Fed created a series of emergency credit facilities to support liquidity in the nonbank financial system. This extended the Fed’s traditional role as lender of last resort from the banking system to the overall financial system for the first time since the Great Depression. To create these facilities, the Fed relied on its emergency lending authority (Section 13(3) of the Federal Reserve Act). To date, the Fed has created six facilities—some new, and some reviving 2008 facilities—in response to COVID-19.

- On March 17, the Fed revived the commercial paper funding facility to purchase commercial paper, which is an important source of short-term funding for financial firms, nonfinancial firms, and asset-backed securities (ABS).
- Like banks, primary dealers are heavily reliant on short-term lending markets in their role as securities market makers. Unlike banks, they cannot access the discount window. On March 17, the Fed revived the primary dealer credit facility.

¹²³⁸ For additional information about swap lines, see CRS In Focus IF11489, Federal Executive Agencies: Selected Pay Flexibilities for COVID-19 Response, by Barbara L. Schwemle.
which is akin to a discount window for primary dealers. Like the discount window, it provides short-term, fully collateralized loans to primary dealers.

- On March 19, the Fed created the Money Market Mutual Fund Liquidity Facility (MMLF), similar to a facility created during the 2008 financial crisis. The MMLF makes loans to financial institutions to purchase assets that money market funds are selling to meet redemptions.

- On March 23, the Fed created two facilities to support corporate bond markets—the Primary Market Corporate Credit Facility to purchase newly issued corporate debt and the Secondary Market Corporate Credit Facility to purchase existing corporate debt on secondary markets.

- On March 23, the Fed revived the Term Asset-Backed Securities Loan Facility to make nonrecourse loans to private investors to purchase ABS backed by various nonmortgage consumer loans.

- On April 6, the Fed announced the Payroll Protection Program Lending Facility (PPPLF) to provide credit to depository institutions (e.g., banks) making loans under the CARES Act (H.R. 748/P.L. 116-136) Payroll Protection Program. Because banks are not required to hold capital against these loans, this facility increases lending capacity for banks facing high demand to originate these loans. The PPP provides low-cost loans to small businesses to pay employees. These loans do not pose credit risk to the Fed because they are guaranteed by the Small Business Administration.

- On April 9, the Fed announced the Main Street Lending Program (MSLP), which purchases loans from depository institutions to businesses with up to 10,000 employees or up to $2.5 billion in revenues. The loans to businesses would defer principal and interest repayment for one year, and the businesses would have to make a “reasonable effort” to retain employees.

- On April 9, the Fed announced the Municipal Liquidity Facility (MLF) to purchase state and municipal debt in response to higher yields and reduced liquidity in that market. The facility will only purchase debt of larger counties and cities.

Many of these facilities are structured as special purpose vehicles controlled by the Fed because of restrictions on the types of securities that the Fed can purchase. Although there were no losses from these facilities during the financial crisis, assets of the Treasury’s Exchange Stabilization Fund have been pledged to backstop any losses on several of the facilities today.

**Fiscal Policy**

In terms of a fiscal stimulus, Congress adopted H.R. 6074 on March 5, 2020 (P.L. 116-123), to appropriate $8.3 billion in emergency funding to support efforts to fight COVID-19; President Trump signed the measure on March 6, 2020. President Trump also signed on March 18, H.R. 6201 (P.L. 116-127), the Families First COVID-19 Response Act, that provides paid sick leave and free COVID-19 testing, expands food assistance and unemployment benefits, and requires employers to provide additional protections for health care workers. Other countries have indicated they will also provide assistance to workers and to some businesses. Congress also is considering other possible measures, including contingency plans for agencies to implement offsite telework for employees, financial assistance to the shale oil industry, a reduction in the
payroll tax,\textsuperscript{239} and extended of the tax filing deadline.\textsuperscript{240} President Trump has taken additional actions, including

- Announcing on March 11, 2020, restrictions on all travel from Europe to the United States for 30 days, directing the Small Business Administration (SBA) to offer low-interest loans to small businesses, and directing the Treasury Department to defer tax payments penalty-free for affected businesses.\textsuperscript{241}

- Declaring on March 13, a state of emergency that frees up disaster relief funding to assist state and local governments to address the effects of the pandemic. The President also announced additional testing for the virus, a website to help individuals identify symptoms, increased oil purchases for the Strategic Oil Reserve, and a waiver on interest payments on student loans.\textsuperscript{242}

- Invoking on March 18, 2020, the Defense Production Act (DPA) that gives him the authority to require some U.S. businesses to increase production of medical equipment and supplies that are in short supply.\textsuperscript{243}

On March 25, 2020, the Senate adopted the COVID-19 Aid, Relief, and Economic Security Act (S. 3548) to formally implement President Trump’s proposal by providing direct payments to taxpayers, loans and guarantees to airlines and other industries, and assistance for small businesses, actions similar to those of various foreign governments. The House adopted the measure as H.R. 748 on March 27, and President Trump signed the measure (P.L. 116-136) on March 27. The law

- Provides funding for $1,200 tax rebates to individuals, with additional $500 payments per qualifying child. The rebate begins phasing out when incomes exceed $75,000 (or $150,000 for joint filers).

- Assists small businesses by providing funding for, forgivable bridge loans; and additional funding for grants and technical assistance; authorizes emergency loans to distressed businesses, including air carriers, and suspends certain aviation excise taxes.

- Creates a $367 billion loan program for small businesses, establishes a $500 billion lending fund for industries, cities and states, a $150 billion for state and local stimulus funds, and $130 billion for hospitals.


• Increases unemployment insurance benefits, expands eligibility and offer workers an additional $600 a week for four month, in addition to state unemployment programs.244

• Establishes special rules for certain tax-favored withdrawals from retirement plans; delays due dates for employer payroll taxes and estimated tax payments for corporations; and revises other provisions, including those related to losses, charitable deductions, and business interest.

• Provides additional funding for the prevention, diagnosis, and treatment of COVID-19; limits liability for volunteer health care professionals; prioritizes Food and Drug Administration (FDA) review of certain drugs; allows emergency use of certain diagnostic tests that are not approved by the FDA; expands health-insurance coverage for diagnostic testing and requires coverage for preventative services and vaccines; and revises other provisions, including those regarding the medical supply chain, the national stockpile, the health care workforce, the Healthy Start program, telehealth services, nutrition services, Medicare, and Medicaid.

• Temporarily suspends payments for federal student loans and revises provisions related to campus-based aid, supplemental educational-opportunity grants, federal work-study, subsidized loans, Pell grants, and foreign institutions.

• Authorizes the Department of the Treasury temporarily to guarantee money-market funds.

On April 23, 2020, the House passed H.R. 266 (P.L. 116-139), the Paycheck Protection Program and Health Care Enhancement Act, following similar actions by the Senate the previous day. The measure provides $484 billion for small business loans, health care providers, and COVID-19 testing. In particular, the law

• Provides additional lending authority for certain Small Business Administration (SBA) programs in response to COVID-19 increases the authority for (1) the Paycheck Protection Program, under which the SBA may guarantee certain loans to small businesses during the COVID-19 pandemic; and (2) advances on emergency economic injury disaster loans made in response to COVID-19. The division also expands eligibility for such disaster loans and advances to include agricultural enterprises.

• Provides $100 billion in FY2020 supplemental appropriations to HHS for the Public Health and Social Services Emergency Fund, including $75 billion to reimburse health care providers for health care related expenses or lost revenues that are attributable to the coronavirus outbreak; and $25 billion for expenses to research, develop, validate, manufacture, purchase, administer, and expand capacity for COVID-19 tests to effectively monitor and suppress COVID-19.

• Allocates specified portions of the $25 billion for COVID-19 testing to states, localities, territories, and tribes; the Centers for Diseases Control and Prevention; the National Institutes of Health; the Biomedical Advanced Research and

Global Economic Effects of COVID-19

Development Authority; the Food and Drug Administration; community health centers; rural health clinics; and testing for the uninsured.

On May 12, House Democrats introduced H.R. 6800, the Heroes Act, to provide a $3 trillion supplemental spending bill for additional financial resources to state and local governments. The measure passed the House on May 15 and was sent to the Senate for consideration. Among other provisions, the bill would

- Appropriate $200 billion in hazard pay to essential workers.
- Extend additional payments to individuals, for nutrition and housing assistance, and provide funding for additional testing and contact tracing.
- Restore the tax deduction for state and local taxes.
- Provide FY2020 emergency supplemental appropriations to federal agencies.
- Provide payments and other assistance to state, local, tribal, and territorial governments.
- Provide additional direct payments of up to $1,200 per individual.
- Expand paid sick days, family and medical leave, unemployment compensation, nutrition and food assistance programs, housing assistance, and payments to farmers.
- Modify and expand the Paycheck Protection Program, which provides loans and grants to small businesses and nonprofit organizations.
- Expand several tax credits and deductions.
- Provide funding and establish requirements for COVID-19 testing and contact tracing.
- Eliminate cost-sharing for COVID-19 treatments;
- Extend and expand the moratorium on certain evictions and foreclosures; and
- Require employers to develop and implement infectious disease exposure control plans.

On May 27, the Federal Reserve released its “Beige Book”—a mostly qualitative assessment of the U.S. economy produced 8 times a year by the 12 regional Federal Reserve banks—that provides an assessment of economic activity across the various regions of the country. The assessment indicated that economic activity to mid-May had fallen sharply in each of the districts.245

### Personal Income and Outlays

The Bureau of Economic Analysis (BEA) reported on May 29 that U.S. personal income rose by 10.5% in April, primarily reflecting a 100% increase in government payments to individuals from federal economic recovery programs, as indicated in Figure 18. During the same period, personal consumption fell by 13% as consumers curtailed spending. The lower level of spending combined with income transfers, which households apparently deposited into saving accounts, raised the personal savings rate to 33% in April at an annual rate, compared to an annual rate of 8.2% in February. In October, BEA reported that personal income fell by 4.2% in May, 1.2% in June, but rose by 0.5% in July, before falling by 2.7% in August, as government transfer payments fell from

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245 The Beige Book: Summary of Commentary on Current Economic Conditions by Federal Reserve District, May 17, 2020, the Federal Reserve System.
$6.6 trillion in April to $4.2 trillion in September. Also, personal consumption recovered somewhat, rising by 8.7% in May as some businesses began opening, but increasing by 6.5% in June and 1.5% in July, but rising by 1.0% in August. As a result of the increase in spending, the personal savings rate fell to 14.1% in August, down from 33.7% in April, although still representing a high rate of household saving by historical standards.

Figure 18. U.S. Personal Income, Consumption, and Saving
Percentage change from preceding month, unless otherwise indicated

Source: Personal Income and Outlays, September 2020, Bureau of Economic Analysis, October 30, 2020. Created by CRS.

On June 1, the Congressional Budget Office (CBO) issued a revised estimate of the effects of the pandemic on the U.S. economy. In the revised forecast, U.S. GDP in the second quarter of 2020 was estimated to have declined by 14.2% compared with the January 2020 forecast. The CBO also estimated that over the 2020-2030 period, cumulative real output could be 3.0% lower than the cumulative amount estimated in January 2020.246

On June 10, the Federal Open Market Committee released a statement indicating that the pandemic “poses considerable risks to the economic outlook over the medium term.”247 Similarly,

246 Congressional Budget Office, Letter to Charles A. Schumer, June 1, 2020.
in testimony before the Senate Banking Committee on June 17, Federal Reserve Chairman Powell stressed that although there were positive signs that U.S. economic growth was beginning to rebound, there was “significant uncertainty” about the timing and strength of the recovery, arising from the path of the virus and the effectiveness of the measures used to contain the disease. In the accompanying issue of the Monetary Policy Report, the Fed indicated the pandemic was posing acute risks to small businesses as a result of insolvencies and that real economic growth in the second quarter of 2020 would decline at a rapid pace. In its forecast, the Federal Open Market Committee made three projections for such major economic variables as GDP, the unemployment rate, and the personal consumption expenditure (PCE) measure of inflation compared with its December 2019 projections of the same variables, as indicated in Table 9. The three measures include (1) the median projected change; (2) the central tendency, which excludes the highest and lowest three projections; and (3) the range, which indicates forecasts from the highest to the lowest values.

According to the September median forecast, U.S. GDP in 2020 was projected to fall by 3.7%, the unemployment rate could rise to 7.6%, the rate of inflation could rise by 1.2%, compared with projections made in June 2020, which forecasted a decline in GDP growth rate of 6.5%, an unemployment rate of 9.3%, and an inflation rate of 0.8%, respectively. The possible range for GDP, however could vary between -7.6% and -5.5% in 2020, with a possible rate of unemployment between 7.6% and 5.5%.

The FOMC stated the range of estimates is necessary to represent the “extremely elevated” uncertainty related to the economic effects of the pandemic and the limited historical response of the U.S. economy to past economic shocks. As a result of the “significant uncertainty and downside risks associated with the pandemic, including how much the economy would weaken and how long it would take to recover,” the assessment of a more pessimistic projection was judged to be no less pessimistic than the baseline scenario (median). The assessment also indicated the possibility of a second wave of the viral outbreak later in 2020 with the attendant restrictions on social activities and business operations.

Table 9. Federal Reserve Economic Projections, September 2020
Percentage change, fourth quarter over previous year fourth quarter

<table>
<thead>
<tr>
<th>Variable</th>
<th>Median1</th>
<th>Central Tendency2</th>
<th>Range3</th>
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</thead>
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<tr>
<td>Change in real GDP</td>
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<td>3.0</td>
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<tr>
<td>June projection</td>
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<tr>
<td>Unemployment rate</td>
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<td>4.6</td>
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<tr>
<td>June projection</td>
<td>9.3</td>
<td>6.5</td>
<td>5.5</td>
</tr>
<tr>
<td>PCE inflation</td>
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<td>1.8</td>
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<tr>
<td>June projection</td>
<td>0.8</td>
<td>1.6</td>
<td>1.7</td>
</tr>
</tbody>
</table>


246 Powell, Semiannual Monetary Report to the Congress.
On June 25, the Federal Reserve (Fed) announced the result of stress tests on 33 U.S. banks under three scenarios\(^{251}\) to ascertain their capital sufficiency given the strains to the financial system caused by COVID-19.\(^{252}\) The Fed reported that all large U.S. banks were “sufficiently capitalized” to survive the three scenarios, but it determined that there is “material uncertainty” about the trajectory for the economic recovery and corresponding uncertainty related to its effects on the financial health of banking organizations. In addition, the Fed concluded that under the first and second scenarios, all of the banks would remain well above their minimum capital ratios, but under the third scenario (a double-dip recession), several banks would approach their minimum capital ratios.\(^{253}\) As a result, the Fed announced that it will

- suspend share repurchases;
- cap the growth of dividends and impose a limit that does not exceed recent income;
- require banks to reassess their capital needs and resubmit their capital plans later this year; and
- conduct additional stress analyses later this year as data from banks become available and economic conditions evolve.\(^{254}\)

The Department of Labor announced on July 2 that an additional 1.4 million Americans had filed for Unemployment Insurance, raising the total to 48.7 million over the 15-week period from mid-March.\(^{255}\) The insured seasonally adjusted unemployment rate in June was estimated at 13.2%, unchanged from the revised rate in the previous week. On July 2, the BLS also released data on the employment situation in June, indicating that nonfarm payroll rose by 4.8 million, lowering the unemployment rate to 11.5%.\(^{256}\) The unemployment number does not include 9.1 million individuals working part time who would prefer to work full time and 8.2 million individuals who are seeking employment. In addition, the June unemployment number does not include individuals who were misclassified as being employed, but absent due to temporary, pandemic closures. Had the individuals been classified as unemployed, the overall unemployment rate would have been one percentage point higher. On July 2, the Census Bureau also reported that the U.S. goods and services trade deficit in May was $54.6 billion, up 9.7% from the April deficit as a result of a 4.4% drop in U.S. exports and a 0.9% drop in U.S. imports.\(^{257}\) Through May, U.S. exports are down by 14% and imports were down by 13.1% in value terms compared with the same five months in 2019.

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\(^{251}\) The three scenarios include (1) a rapid, or “V”-shaped recovery; (2) a slower, or “U”-shaped recovery; and (3) a “W”-shaped or double-dip recession with a short-lived recovery followed by a severe drop in activity later this year due to a second COVID event. *Assessment of Bank Capital During the Recent Coronavirus Event*, Board of Governors of the Federal Reserve System, June 2020, p. 2.

\(^{252}\) Ibid.

\(^{253}\) Ibid., p. 2.

\(^{254}\) Ibid., pp. 1-2.


On July 17, the Federal Reserve Board modified its Main Street Lending Program to provide greater access to credit for nonprofit organizations such as educational institutions, hospitals, and social service organizations.

On August 13, the Department of Labor announced that over the 21-week period from mid-March to the beginning of August 2020, 56 million Americans filed for unemployment insurance. On a seasonally adjusted basis, the number of insured unemployed workers was 15.5 million in early August, down from a peak of 25 million in mid-May. The total number of people claiming benefits in all programs in the week ending July 25, totaled 28.3 million, up from 1.7 million in the comparable week in 2019. The insured unemployment rate was 10.6%, also down from the peak reached in early May.

On August 20, the European Central, the Bank of England, the Bank of Japan, and the Swiss National Bank jointly announced they would reduce their emergency dollar swap operations with the Fed to once a week, down from three, as a result of reduced demand for dollars. On a broad dollar trade weighted index for goods and services, the dollar has depreciated by 7.2% since the high value reached on March 23 2020. Reportedly, the shift by the central banks reflects market sentiment that the global financial system has recovered from the initial negative impact of the pandemic experienced in the first quarter of 2020.

On August 27, the DOL announced that over the 23-week period from mid-March to late August 2020, 58.4 million Americans filed for unemployment insurance. On a seasonally adjusted basis, the number of insured unemployed workers was 14.5 million in mid-August, down from a peak of 25 million in mid-May. The total number of people claiming benefits in all programs in the week ending August 8, totaled 27 million, up from 1.6 million in the comparable week in 2019. The insured unemployment rate was 9.9%, also down from the peak reached in early May.

For additional information about the impact of COVID-19 on the U.S. economy see CRS Insight IN11235, COVID-19: Potential Economic Effects.

Europe

Until recently, European countries have not displayed a synchronized fiscal policy response similar to the one they developed during the 2008-2009 global financial crisis, but that reportedly changed with the adoption of a pandemic economic recovery package in July 2020. For the most part, EU members have used a combination of national fiscal policies and bond buying by the ECB to address the economic impact of the pandemic. Individual countries have adopted quarantines and required business closures, travel and border restrictions, tax holidays for businesses, extensions of certain payments and loan guarantees, and subsidies for workers and businesses. The European Commission has advocated for greater coordination among the EU members in developing and implementing monetary and fiscal policies to address the economic


fallout from the viral pandemic. Various EU and ECB officials appeared to have negotiated a coordinated fiscal response by the Eurozone and broader EU.

In its July 2020 economic forecast, the European Commission forecasted that EU GDP in 2020 would fall by 8.3%, nearly a full percentage point higher than in its May forecast, as indicated in Table 10. The Commission stated that, “Given the severity of this unprecedented worldwide shock, it is now quite clear that the EU has entered the deepest economic recession in its history.” In addition, the Commission forecasted that EU GDP would rise by 5.8% in 2021, not fast enough to erase all the 2020 decline, but would exhibit a distinct “V” shaped recession and recovery.

Greece, Spain, France, and Italy are forecasted to experience the largest declines in GDP in 2020 as a result of their dependence on tourism, which is expected to experience a slow economic recovery. Germany and other Northern European countries are projected to experience a more modest decline in economic activity. Some analysts argue that this disparity in economic effects may complicate efforts to coordinate economic policies.262

To address the crisis, the Commission argued that, “[t]he risk … is that the crisis will lead to severe distortions within the Single Market and to entrenched economic, financial and social divergences between euro area Member States that could ultimately threaten the stability of the Economic and Monetary Union.”263 The Commission also expects European countries to emerge from the recession at different rates and different paths, reflecting differences in the timing of when social distancing measures were introduced and removed, dependency on tourism, and the magnitude and effectiveness of economic policies. The Commission also noted the rise in saving among EU households that it argues is mostly involuntary, rather than precautionary and would revert to pre-crisis levels once consumers felt confident to resume their regular spending patterns.

<table>
<thead>
<tr>
<th>Table 10. European Commission Economic Forecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percentage change, real GDP</td>
</tr>
<tr>
<td>Spring Forecast</td>
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<tr>
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<td>Euro area</td>
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<td>Italy</td>
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<td>Luxembourg</td>
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<td>Malta</td>
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<tr>
<td>Netherlands</td>
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</tbody>
</table>


Pandemic-related economic effects reportedly are having a significant impact on business activity in Europe, with some indexes falling farther than they had during the height of the financial crisis and others indicating that Europe may well experience a deep economic recession in 2020.\textsuperscript{264} France, Germany, Italy, Spain, and the UK reported steep drops in industrial activity in March 2020. EU countries have issued travel warnings, banning all but essential travel across borders, raising concerns that even much-needed medical supplies could stall at borders affected by traffic backups.\textsuperscript{265} The travel bans and border closures reportedly are causing shortages of farm laborers in Germany, the UK, and Spain, which has caused growers to attempt to recruit students and workers laid off because of the pandemic.\textsuperscript{266}

According to second quarter data released by Eurostat on August 14, 2020, EU economic growth over the previous quarter contracted by 11.7\% and by 12.1\% in the Euro area. Compared with growth over the same quarter in the previous year, EU economy contracted by 15\% and by 14.1\% in the Euro area, as indicated in Table 11. At 20.4\%, the United Kingdom experienced the largest contraction among European countries in the second quarter.

\textbf{Table 11. EU Real GDP Growth Rates, Second Quarter 2020}

<table>
<thead>
<tr>
<th>Percentage change compared with the previous quarter</th>
<th>Percentage change compared with the same quarter of the previous year</th>
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</thead>
<tbody>
<tr>
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<td>Denmark</td>
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</table>


\textsuperscript{266} Evans, Judith Evans, Emiko Terazono, and Leila Abboud, “Farmers Warn over Food Supply with Harvest Workers Shut Out,” Financial Times, March 27, 2020. https://www.ft.com/content/e27a9395-db47-4e7b-b054-3ec6ba4cba3.
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#### Percentage change compared with the previous quarter

<table>
<thead>
<tr>
<th>Country</th>
<th>2019Q3</th>
<th>2019Q4</th>
<th>2020Q1</th>
<th>2020Q2</th>
</tr>
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<td>0.0</td>
<td>-2.0</td>
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#### Percentage change compared with the same quarter of the previous year

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<tr>
<th>Country</th>
<th>2019Q3</th>
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<th>2020Q1</th>
<th>2020Q2</th>
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In previous actions, the European Commission announced that it would relax rules on government debt to allow countries more flexibility in using fiscal policies. Also, the European...
Central Bank (ECB) announced that it was ready to take “appropriate and targeted measures,” if needed. France, Italy, Spain and six other Eurozone countries have argued for creating a “coronabond,” a joint common European debt instrument. Similar attempts to create a common Eurozone-wide debt instrument have been opposed by Germany and the Netherland, among other Eurozone members. With interest rates already low, however, it indicated that it would expand its program of providing loans to EU banks, or buying debt from EU firms, and possibly lowering its deposit rate further into negative territory in an attempt to shore up the Euro’s exchange rate. ECB President-designate Christine Lagarde called on EU leaders to take more urgent action to avoid the spread of COVID-19 from triggering a serious economic slowdown. The European Commission indicated that it was creating a $30 billion investment fund to address COVID-19 issues. In other actions

- On March 12, 2020, the ECB decided to (1) expand its longer-term refinance operations (LTRO) to provide low-cost loans to Eurozone banks to increase bank liquidity; (2) extend targeted longer-term refinance operations (TLTRO) to provide loans at below-market rates to businesses, especially small and medium-sized businesses, directly affected by COVID-19; (3) provide an additional €120 billion (about $130 billion) for the Bank’s asset purchase program to provide liquidity to firms that was in addition to €20 billion a month it previously had committed to purchasing.

- On March 13, 2020, financial market regulators in the UK, Italy, and Spain intervened in stock and bond markets to stabilize prices after historic swings in indexes on March 12, 2020. In addition, the ECB announced that it would do more to assist financial markets in distress, including altering self-imposed rules on purchases of sovereign debt.

- Germany’s Economic Minister announced on March 13, 2020, that Germany would provide unlimited loans to businesses experiencing negative economic activity (initially providing $555 billion), tax breaks for businesses, and export credits and guarantees.


On March 18, the ECB indicated that it would: create a €750 billion (about $800 billion) Pandemic Emergency Purchase Program to purchase public and private securities; expand the securities it will purchase to include nonfinancial commercial paper; and ease some collateral standards. In announcing the program, President-designate Lagarde indicated that the ECB would, “do everything necessary.” In creating the program, the ECB removed or significantly loosened almost all constraints that applied to previous asset-purchase programs, including a self-imposed limit of buying no more than one-third of any one country’s eligible bonds, a move that was expected to benefit Italy.

The ECB also indicated that it would make available up to €3 trillion in liquidity through refinancing operations. Britain ($400 billion) and France ($50 billion) also announced plans to increase spending to blunt the economic effects of the virus. Recent forecasts indicate that the economic effect of COVID-19 could push the Eurozone into an economic recession in 2020.

On March 23, 2020, Germany announced that it would adopt a €750 billion (over $800 billion) package in economic stimulus funding.

On April 15, Eurozone finance ministers announced a €500 billion (about $550 billion) emergency spending package to support governments, businesses, and workers and will provide funds to the European Stability Mechanism, the European Investment Bank, and for unemployment insurance.

On May 5, 2020, Germany’s Constitutional Court issued a ruling challenging the legality of a bond-buying program conducted by the ECB since 2015, the Public Sector Purchase Program (PSPP). In its ruling, the court directed the German government to request clarification from the ECB about various aspects of the PSPP program that the court argued might exceed the ECB’s legal mandate. The German government has not yet indicated how it will formally respond to the ruling, but many analysts contend that the ruling—and the challenge to the authority of the ECB and the European Court of Justice—could have far-reaching implications for future ECB activities. This could potentially include challenges to the ECB’s Pandemic Emergency Purchase Program (PEPP) initiated in March. The PEPP is a temporary program that authorizes the ECB to acquire up to €750 billion (about $820 billion) in private and public sector securities to address the economic effects of the pandemic crisis.

The German court’s ruling has heightened tensions between the court and the European Court of Justice. Following the 2008-2009 financial crisis and the subsequent Eurozone financial crisis, the ECB launched four asset purchase programs in 2014 to provide assistance to financially strapped Eurozone governments and to sustain financial liquidity in Eurozone banks. Those programs included the Corporate Sector Purchase Program (CSPP), the Public Sector Purchase Program (PSPP), the Asset-Backed Securities Purchase Program (ABSPP), and the Third Covered Bond Purchase Program (CBPP3). The programs operated from 2014 to 2018; the PSPP was restarted in 2019.

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in November 2019. As of May 8, the PSPP program held €2.2 trillion (about $2.5 trillion) with another €600 billion (about $700 billion) held under other asset purchase programs. Various groups in Germany challenged the legality of the ECB bond-buying programs before the German Constitutional Court arguing that the programs exceeded the ECB’s legal mandate. In turn, the German court referred the case to the European Court of Justice, which ruled in December 2019 that the ECB’s actions were fully within the ECB’s authority.

In the German Constitutional Court’s May 5 ruling, the German judges characterized the ECJ’s ruling as “incomprehensible,” and directly challenged the ECB and the European Court of Justice and the primacy of the European Court of Justice ruling over national law. The German justices argued that the ECB had exceeded its authority by not fully evaluating the economic costs and benefits of previous bond-buying activities, including the impact on national budgets, property values, stock markets, life insurance and other economic effects. The German court also argued that the ECB’s lack of a strategy for reducing its holdings of sovereign debt of Eurozone members increased risks for national governments that back up the ECB, and it challenged the ECB’s strategy for reducing its holdings of sovereign debt. By the end of June, however, the standoff appeared to be reaching a resolution. The ECB reportedly agreed to provide the German court with the Bank’s analysis of the economic and fiscal policy impact of the ECB bond-buying programs. The ECB reportedly will also provide the unpublished full minutes of the central bank’s governing council monetary policy meetings, including the ECB’s discussions in March 2015 of its purchases of sovereign bonds.

On May 18, German Chancellor Angela Merkel and French President Emmanuel Macron proposed a €500 billion (about $620 billion) EU recovery fund in an effort to gain a coordinated EU fiscal response to the pandemic. Reportedly, the funds would be raised by the European Commission and used to fund EU spending through grants to individual members to ease the economic strain in some of the southern EU members that have been the most negatively affected. Austria, the Netherland, Denmark, and Sweden indicated they would only support proposals that provided funds to members through loans that would be required to be repaid.

On May 27, ECB President Lagarde indicated that the ECB projected a drop in the EU economy of 8% to 12% in 2020, twice as severe as the recession following the 2008 financial crisis, and called for a €500 billion (about $620 billion) stimulus package. In addition, European Commission President Ursula von der Leyen proposed a €750 billion (about $820 billion) EU recovery fund, termed the “Next Generation Fund,” that would provide €500 billion ($550 billion) in grants in a Recovery and Resilience Facility and €250 billion ($270 billion) in loans. The proposal would take the unprecedented step of allowing the EU to issues bonds independently from the other EU central banks. Questions remain over the source and distribution of the funds. The program may have limited appeal given various restrictions: reportedly, the funds must be used to achieve certain EU goals, including increasing

competitiveness, shifting away from declining heavy industry, supporting a green economy, and building the digital economy.\textsuperscript{284} Proposals for raising funds include issuing 30-year bonds and raising taxes on large technology firms, such as Google and Facebook. In addition to the recovery fund, von der Leyen proposed a revised EC seven-year budget, the Multiannual Financial Framework (MFF), of €1.1 trillion for 2021 to 2027.

On May 28, several key political groups within the EU Parliament voiced their support for new rules that would allow the EU to retaliate in such trade areas as services and intellectual property protection without waiting for a WTO ruling. Some Parliamentarians reportedly argued that such expanded authority, termed a “trade bazooka,” was necessary to respond to trade disputes, because the United States had blocked the appointment of judges to the WTO’s appellate body.\textsuperscript{285} European leaders, reportedly interested in finalizing an investment agreement with China, announced they would not follow President Trump in applying trade restrictions on China for positioning itself to limit Hong Kong’s autonomy granted by the “one country two systems” principle after the end of British rule in 1997.\textsuperscript{286}

The European Central Bank announced on June 4 that it would double to $1.5 trillion its Pandemic Emergency Purchase Program to stimulate the European economy; it also extended the program to at least June 2021.\textsuperscript{287} At the same time, the German government announced a package of fiscal measures, including tax cuts, aid to small businesses, cash payments to parent, and other measures totaling €135 billion (about $150 billion). Austria, Denmark, the Netherland, and Sweden have resisted payouts in grants instead of loans that require repayment. The German plan reportedly would give households $336 per child, reduce value added taxes on daily items, and reduce households’ utility bills. The plan also includes about $6 billion for the social security system, $11 billion to assist cities cover housing and other costs, about $2 billion for cultural institutions and nonprofit groups and incentives for purchases of electric vehicles.\textsuperscript{288}

On June 25, Germany’s Minister for Economic Affairs and Energy announced that the German government would provide more than €300 million (about $330 million), to acquire a 25% stake in a privately owned German drug company that is conducting trials on a possible COVID-19 vaccine. Reportedly, the U.S. Government had attempted to acquire part of the company to secure supplies of a potential vaccine. Germany has in place legal restrictions on foreign investments in critical industries such as energy and telecoms, but the German Parliament amended Germany’s Foreign Trade Act, set to become law in 2020, that broadens the scope of transactions that must be approved by the Federal government to include “critical” technologies, including robotics, biotech, and quantum computing.\textsuperscript{289}


\textsuperscript{286} Lau, Stuart Lau, Jakob Hanke Vela, Jacopo Barigazzi, and Finbarr Bermingham, EU Won’t Follow Trump Into a Trade War Over Hong Kong, Politico Pro, May 28, 2020.


\textsuperscript{289} Miller, Joe, Germany Flexes its Muscles on Foreign Investment, Financial Times, June 25, 2020. https://www.ft.com/content/54f92ca5-5380-466b-95f8-3e98b40ebe82.
On July 17, the European Commission met to approve the proposed €750 billion support fund to assist European countries address the economic effects of the pandemic. Initially, the Commission was unable to agree on various aspects of the program, but talks continued over the weekend and resumed on July 20. European leaders announced on July 21 they had approved a €750 billion (about $859 billion) pandemic relief package and a multi-year EU budget, referred to as the Multiannual Financial Framework (MFF), with a combined value of over €2 trillion. The pandemic plan is aimed at funding post-pandemic economic recovery with the European Commission set to borrow an unprecedented amount of funds on European capital markets.

The €750 billion relief fund reportedly includes a Recovery and Resilience Facility of €672.5 billion, which includes €360 billion in loans and €312.5 billion in grants and half a dozen other initiatives to assist economically weakened member states. The relief fund was coupled with rebates on EU budget contributions for so-called “frugal” states, or EU members with stronger fiscal balances. Austria, the Netherlands, Denmark, and Sweden reportedly will receive such budget rebates.

On September 3, 2020, French Prime Minister Jean Castex announced that France would implement a €100 billion (about $130 billion) spending plan to speed the economy’s recovery from the economic effects of the COVID-19 pandemic. Reportedly, the plan includes funding for green energy (including hydrogen energy), transportation (state railways), and industrial innovation.

### The United Kingdom

The United Kingdom has taken a number of steps to support economic activity. These steps are expected to limit the damage to the UK economy. The Bank of England (BOE) forecasted in May 2020 that the UK economy would contract by 30% in the first half of 2020, but then rebound sharply in the second half of the year, exhibiting a “V” shaped recovery. The Bank of England has announced a number of policy initiatives including:

- On March 11, the BOE adopted a package of four measures to deal with any economic disruptions associated with COVID-19. The measures included an unscheduled cut in the benchmark interest rate by 50 basis points (0.5%) to a historic low of 0.25%; the reintroduction of the Term Funding Scheme for Small and Medium-sized Enterprises (TFSME) that provides banks with over $110 billion for loans at low interest rates; a lowering of banks’ countercyclical capital buffer from 1% to zero, which is estimated to support over $200 billion of bank lending to businesses; and a freeze in banks’ dividend payments.

- On March 15, the BOE reinstituted U.S. dollar swap lines with the Federal Reserve.

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On March 17, the BOE and the UK Treasury introduced the COVID Corporate Financing Facility (CCFF) to provide assistance to UK firms to bridge through Covid-19-related disruptions to their cash flow.

On March 19, during a Special Monetary Policy Meeting, the Bank of England reduced its main interest rate to 0.1%, increased the size of its TFSME fund, and increased the stock of asset purchases by £200 billion to a total of £645 billion financed by issuing UK government bonds and some additional nonfinancial investment-grade corporate bonds.294

On March 20, the BOE participated in an internationally coordinated central bank expansion of liquidity through U.S. standing dollar liquidity swap line arrangements.

On March, the BOE activated the Contingent Term Repo Facility (CTRF).

On April 6, announced the activation of the TFSME ahead of schedule.

On April 23, the Bank of England indicated it would quadruple its borrowing over the second quarter of 2020, reflecting a contraction in the UK economy, lower tax revenues, and increased financial demands to support fiscal policy measures.295

In terms of fiscal policy, UK Chancellor of the Exchequer Rishi Sunak proposed a national budget on March 11, 2020, that included nearly $3.5 billion in fiscal spending to counter adverse economic effects of the pandemic and increased in statutory sick leave by about $2.5 billion in funds to small and medium businesses to provide up to 14 days of sick leave for affected employees. The plan provides affected workers up to 80% of their salary, or up to £2,500 a month (about $2,800) if they are laid off. Some estimates indicate that UK spending to support its economy could rise to about $60 billion in 2020.296 Identified as the Coronavirus Job Retention Scheme (CJRS), the program was backdated to start on March 1 and had been expected to run through May, but was extended to expire the end of June 2020. Prime Minister Johnson also announced that all pubs, cafés, restaurants, theatres, cinemas, nightclubs, gyms and leisure centers would be closed.297 Part of the fiscal spending package includes open-ended funding for the National Health Service (NHS), $6 billion in emergency funds to the NHS, $600 million hardship fund to assist vulnerable people, and tax cuts and tax holidays for small businesses in certain affected sectors.298

On July 8, Chancellor Sunak proposed additional fiscal measures to support the UK economy.299 The measures include raising threshold tax levels on home purchases, reducing taxes for the


297 Ibid.


hospitality industry, and a “job retention bonus” of £1,000 (around $1,200) per worker to companies that bring employees out of furlough, estimated at around 9 million workers, and a subsidy of £2,000 for firms that hire new apprentices. In addition, the proposed plan includes a 50% discount on meals and non-alcoholic drinks eaten at restaurants and cafes during August, with some restrictions.

On August 12, the UK Government announced that UK GDP in the second quarter of 2020 contracted by 19.8% (revised) from the previous quarter, as indicated in Figure 19. The contraction, driven by lower levels of activity in services (-19.9%), production (16.9%)—primarily manufacturing, and construction (35%) and constituted the largest quarterly since 1955. In addition, household consumption contracted by 23.1%, reportedly the largest quarterly contraction on record. In other areas, business investment fell by 31.4% and government consumption fell, reflecting school closures, and declines in both imports (23.4%) and exports (11.3%). The Bank of England’s August Monetary Policy Report projected that fourth quarter 2020 UK GDP would recover from the steep drop in activity in the second quarter by posting an overall year-over-year decline of 5.6%, based primarily on an anticipated recovery in personal consumption. The forecast also indicated that GDP was projected to grow at a rate of 8.6% in 2021, although the Bank indicated that there was higher than usual uncertainty surrounding the forecast, given the uncertainty concerning the course of the pandemic. The Bank also conducted stress tests on UK banks and concluded the banks had sufficient capital buffers to absorb the losses that could arise under the Bank’s main projections.

![Figure 19. UK Month Over Month Quarterly Percentage Change in GDP](image)


On November 5, 2020, the Bank of England announced that it anticipated the UK economy would fall back into recession in the fourth quarter of 2020 as a result of a decline in consumer spending and businesses investment due to social distancing requirements and business

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300 Giles, Chris and Valentina Romei, BoE Economist Warns Against Pessimism After Record Drop in GDP, Financial Times, September 30, 2020. https://www.ft.com/content/fed4fe06-8c6a-4272-b0b3-a0759805eb64.


lockdowns imposed in response to a resurgence of COVID-19 cases in October and November. The Bank also announced an additional £150 billion in government bond purchases and increase in quantities easing, or additional bond purchases, to provide monetary stimulus in 2021. In addition, the Bank indicated that it estimated the pandemic would reduce UK GDP by 1.75 percentage points below where it had forecasted at the beginning of 2020.

Japan

The Bank of Japan, with already-low interest rates, injected $4.6 billion in liquidity into Japanese banks to provide short-term loans for purchases of corporate bonds and commercial paper and twice that amount into exchange traded funds to aid Japanese businesses. The Japanese government also pledged to provide wage subsidies for parents forced to take time off due to school closures. On March 24, 2020, Japan announced that the Summer Olympics set to take place in Tokyo would be postponed by a year, delaying a projected boost to the Japanese economy that was expected from the event. Japan adopted an emergency fiscal package of about $1.1 trillion, roughly equivalent to 10% of Japan’s annual gross domestic product (GDP). On April 27, 2020, the Bank of Japan announced it would purchase unlimited amounts of government bonds and quadruple its purchases of corporate debt to keep interest rates low and stimulate the Japanese economy.

The Japanese Cabinet proposed a second supplemental appropriation measure that included $296 billion in spending and a total value of about $1.1 trillion in loans and guarantees, funded through new bonds. This and a previous set of spending measures reportedly are comparable to 40% of Japan’s GDP and include grants for businesses to pay rents through the Development Bank of Japan and funds to small and medium-sized businesses through the Regional Economy Vitalization Corporation of Japan, payments to assist furloughed workers, and a reserve fund to provide capital injections to struggling firms through the Japan Investment Corporation.

In terms of monetary policy, the Bank of Japan (BOJ) has maintained its low interest rates policy of -0.1%, even as it increased its coronavirus lending facility from $76 trillion to $1 trillion and stated it would continue purchasing commercial paper, corporate bonds, and exchange traded funds at the rate of $12 trillion a year. The COVID-19 lending facility assists banks in providing zero interest rate loans to businesses. In a separate program, the BOJ is providing about $110 trillion to buy commercial paper and corporate bonds and providing dollars through swap arrangements with the U.S. Federal Reserve. Japan reported on August 17 that its economy contracted by 7.8% in the second quarter of 2020, compared with the previous quarter, or at an annual rate of 27.8%. This drop in economic activity was precipitated by a drop in exports of 18.5% from the preceding quarter (56.0% at an annual rate) and a decline in personal consumption of 8.6% (30.1% at an annual rate).


308 Harding, Bank of Japan Pledges $1 trillion in Coronavirus Lending.

global economic effects of COVID-19

On October 29, the Bank of Japan issued a revised forecast that indicated Japan’s GDP would contract by 5.5% in the fiscal year ending March 2021. The economy was projected to grow by 3.6% in 2021 and by 1.6% the following year. The Bank indicated, however, that the outlook remained, “highly uncertain,” with big downside risks.310

China

According to a recent CRS In Focus,311 China emerged in June 2020 as the first major country to announce a return to economic growth since the outbreak of the COVID-19 pandemic. The government reported 3.2% gross domestic product (GDP) growth in the second quarter and 4.9% GDP growth in the third quarter of 2020. China is still grappling with the economic effects of the COVID-19 pandemic, however, including sluggish domestic consumption, slow recovery in its top export markets, and reliance on government spending and exports to boost initial growth. China also is facing growing restrictions on its overseas commercial activities and access to foreign technology and pressures for firms to diversify China-based supply chains. Against this backdrop, China’s leadership is deliberating the country’s economic direction and national industrial plans for the next 5 to 15 years.

To boost economic growth, China has provided an estimated $506 billion in stimulus since February 2020 and increased the government’s budget deficit target to a record high of 3.6% of GDP, up from 2.8% in 2019. China reduced the value-added tax (VAT) rate and introduced VAT exemptions for certain goods and services. China’s central bank extended monetary support with interest rate cuts, eased loan terms, and injected liquidity into banks. Shifting from efforts to reduce debt, the government announced the issuance of $142.9 billion of special treasury bonds for the first time since 2007; increased the quota for local government special bonds (a source of infrastructure funding); and fast-tracked issuance of corporate bonds to cover pandemic costs but with potential broader uses. The IMF estimates that the fiscal measures and financing plans announced amounted to 4.1% of the China’s GDP, as of July 2020. The government says it seeks to control credit risk but the need for additional fiscal and monetary support to boost growth may undermine this goal.

Multilateral Response312

International Monetary Fund

Created in the aftermath of World War II, the IMF’s fundamental mission is to promote international monetary stability. To advance this goal, one of the key functions of the IMF is providing emergency loans to countries facing economic crises. The COVID-19 pandemic has resulted in an unprecedented demand for IMF financial assistance. More than 100 of the IMF’s 189 member countries have requested IMF programs,313 and IMF Managing Director Kristalina

311 CRS In Focus IF11667, China’s Economy in 2020: Navigating Headwinds, by Karen M. Sutter and Michael D. Sutherland.
312 For more information, see CRS Report R46342, COVID-19: Role of the International Financial Institutions, by Rebecca M. Nelson and Martin A. Weiss.
313 Remarks by IMF Managing Director Kristalina Georgieva During the G20 Finance Ministers and Central Bank
Georgieva has stated that the IMF stands ready to deploy the entirety of its current lending capacity—approximately $1 trillion—in response to the pandemic and resulting economic crises. The IMF has already approved several COVID-related programs, including for Bolivia, Chad, the Democratic Republic of Congo, Kyrgyz Republic, Nigeria, Niger, Rwanda, Madagascar, Mozambique, Pakistan, and Togo, among others, and additional programs are expected.

In addition to loans, the IMF has taken a number of other policy steps to bolster its COVID-19 response. The IMF is tapping its Catastrophe Containment and Relief Trust (CCRT), a donor country trust fund at the IMF, to cover six months of debt payments owed by 29 low-income countries to the IMF. The IMF also created a new Short-term Liquidity Line. It is a revolving and renewable backstop for member countries with very strong economic policies in need of short-term and moderate financial support, and intends to support a country’s liquidity buffers. The IMF also adopted proposals to accelerate Board consideration of member financing requests for emergency financing and doubled (to about $100 billion) access to IMF emergency assistance. The International Monetary Fund (IMF) is providing funding to poor and emerging market economies that are short on financial resources.

If the economic effects of the virus persist, countries may need to be proactive in coordinating fiscal and monetary policy responses, similar to actions taken by of the G-20 following the 2008-2009 global financial crisis.

For FY2021, the Administration had requested authorization for about $38 billion for a supplemental fund at the IMF (the New Arrangements to Borrow [NAB]). In March 2020, Congress enacted this authorization in the Coronavirus Aid, Relief, and Economic Security Act (CARES Act, P.L. 116-136) as a way to bolster IMF resources available to support countries during the pandemic. There is ongoing debate about whether member countries should contribute additional resources to the IMF, whether the IMF should raise funds by selling a portion of its gold holdings, and whether the IMF should enact policies to buffer member state reserves, through a process called an SDR allocation.

World Bank and Regional Development Banks

The World Bank, which finances economic development projects in middle- and low-income countries, among other activities, is mobilizing its resources to support developing countries during the COVID-19 pandemic. As of June 1, 2020, the World Bank had approved, or was in the process of approving, 150 COVID-19 projects, totaling $15 billion, in 99 countries. Examples of approved projects include $47 million for the Democratic Republic of Congo to support containment strategies, train medical staff, and provide equipment for diagnostic testing to ensure rapid case detection; $11.3 million for Tajikistan to expand intensive care capacity; $20

Governors Meeting, International Monetary Fund, April 15, 2020.

314 IMF Managing Director Kristalina Georgieva’s Statement Following a G20 Ministerial Call on the Coronavirus Emergency, March 23, 2020. Some policy experts estimate the IMF’s current maximum lending capacity is about $787 billion.


million for Haiti to support diagnostic testing, rapid response teams, and outbreak containment; and $1 billion for India to support screening, contract tracing, and laboratory diagnostics, procure personal protective equipment, and set up new isolation wards, among other projects.\textsuperscript{320}

Over the next 15 months, the World Bank Group estimates it could deploy as much as $160 billion to respond to the COVID-19 pandemic, more than double the amount it committed in FY2019. In April 2020, the World Bank also announced its plans to establish a new multi-donor trust fund to help countries prepare for disease outbreaks, the Health Emergency Preparedness and Response Multi-Donor Fund (HEPRF).\textsuperscript{321} The new fund is to complement, and augment, the $160 billion of financing provided by the World Bank.

In addition to the World Bank, which has a near-global membership and operates in many sectors in developing countries worldwide, a number of smaller and more specialized multilateral development banks (MDBs) are also mobilizing resources in response to the COVID-19 pandemic. The United States is a member of a number of regionally focused MDBs, including the African Development Bank, the Asian Development Bank, the European Bank for Reconstruction and Development, and the Inter-American Development Bank, as well as the functionally focused International Fund for Agricultural Development. The United States does not belong to some MDBs, including the Chinese-led Asian Infrastructure Investment Bank and the New Development Bank created by the BRICS countries (Brazil, Russia, India, China, and South Africa), the European Investment Bank, or the Islamic Development Bank.

In response to COVID-19, MDBs are reprogramming existing projects, establishing and funding with existing resources lending facilities dedicated to the COVID-19 response, and streamlining approval procedures. According to the President of the World Bank, other multilateral development banks have committed roughly $80 billion over the next 15 months to respond to COVID-19.\textsuperscript{322} Together with the World Bank’s commitment of $160 billion, $240 billion in financing is to be made available to developing countries from the MDBs during this time period.\textsuperscript{323}

To support the MDB response to COVID-19, Congress accelerated authorizations requested by the Administration for FY2021 for two lending facilities at the World Bank and two lending facilities at the African Development Bank in the CARES Act (P.L. 116-136). Given the unprecedented demand for MDB resources, discussions are underway about whether the MDBs should pursue fiduciary reforms that would allow them to expand their lending based on existing resources, particularly lending against donor country guarantees to the institutions (called “callable” capital).

\section*{International Economic Cooperation}

On March 16, 2020, the leaders of the G-7 countries (Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States) held an emergency summit by teleconference to discuss and coordinate their policy responses to the economic fallout from the global spread of COVID-19. In the joint statement released by the G-7 leaders after the emergency teleconference summit,\textsuperscript{320, 321, 322, 323}

\begin{itemize}
  \item World Bank Group President David Malpass: Remarks to G20 Finance Ministers, April 15, 2020.
\end{itemize}
the leaders stressed they are committed to doing “whatever is necessary to ensure a strong global response through closer cooperation and enhanced cooperation of efforts.”324 The countries pledged to coordinate research efforts, increase the availability of medical equipment; mobilize “the full range” of policy instruments, including monetary and fiscal measures as well as targeted actions, to support workers, companies, and sectors most affected by the spread of COVID-19; task the finance ministers to coordinate on a weekly basis, and direct the IMF and the World Bank Group, as well as other international organizations, to support countries worldwide as part of a coordinated global response.325

Saudi Arabia, the 2020 chair of the G-20, called an emergency G-20 summit on March 25 to discuss a response to the pandemic.326 The G-20 is a broader group of economies, including the G-7 countries and several major emerging markets.327 During the global financial crisis, world leaders decided that henceforth the G-20 would be the premiere forum for international economic cooperation. Some analysts have been surprised that the G-7 has been in front of the G-20 in responding to COVID-19, while other analysts have questioned whether the larger size and diversity of economies in the G-20 can make coordination more difficult.328

Analysts are hopeful that the recent G-7 summit, and a G-20 summit, will mark a shift towards greater international cooperation at the highest (leader) levels in combatting the economic fallout from the spread of COVID-19.329 An emergency meeting of G-7 finance ministers on March 3, 2020, fell short of the aggressive and concrete coordinated action that investors and economists had been hoping for, and U.S. and European stock markets fell after the meeting.330 More generally, governments have been divided over the appropriate response and in some cases have acted unilaterally, particularly when closing borders and imposing export restrictions on medical equipment and medicine. Some experts argue that a large, early, and coordinated response is needed to address the economic fallout from COVID-19, but several concerns loom about the G-20’s ability to deliver.331 Their concerns focus on the Trump Administration’s prioritization of an “America First” foreign policy over one committed to multilateralism; the 2020 chair of the G-20, Saudi Arabia, is embroiled in its own domestic political issues and oil price war; and U.S.-China tensions make G-20 consensus more difficult.

Meanwhile, international organizations including the IMF and multilateral development banks, have tried to forge ahead with economic support given their current resources. Additionally, the Financial Stability Board (FSB), an international body including the United States that monitors the global financial system and makes regulations to ensure stability, released a statement on March 20, 2020, that its members are actively cooperating to maintain financial stability during

325 Ibid.
327 The G-20 includes the G-7 countries plus Argentina, Australia, Brazil, China, India, Indonesia, Mexico, Russia, Saudi Arabia, South Africa, South Korea, Turkey, and the European Union (EU).
328 For more information about the G-20, see CRS Report R40977, International Economic Policy Coordination at the G-7 and the G-20, by Rebecca M. Nelson.
market stress related to COVID-19.\textsuperscript{332} The FSB is encouraging governments to use flexibility within existing international standards to provide continued access to funding for market participants and for businesses and households facing temporary difficulties from COVID-19, while noting that many FSB members have already taken action to release available capital and liquidity buffers.

## Estimated Effects on Developed and Major Economies

Among most developed and major developing economies, economic growth at the beginning of 2020 was tepid, but still was estimated to be positive. Countries highly dependent on trade—Canada, Germany, Italy, Japan, Mexico, and South Korea—and commodity exporters are now projected to be the most negatively affected by the slowdown in economic activity associated with the pandemic.\textsuperscript{333} In addition, travel bans and quarantines continue to take heavy economic toll on a broad range of countries. The OECD notes that production declines in China have spillover effects around the world given China’s role in producing computers, electronics, pharmaceuticals and transport equipment, and as a primary source of demand for many commodities.\textsuperscript{334} Across Asia, some forecasters argue that recent data indicate that Japan, South Korea, Thailand, the Philippines, Indonesia, Malaysia, and Vietnam could experience an economic recession in 2020.\textsuperscript{335}

In early January 2020, before the COVID-19 outbreak, economic growth in developing economies as a whole was projected by the International Monetary Fund (IMF) to be slightly more positive than in 2019. This outlook was based on progress being made in U.S.-China trade talks that were expected to roll back some tariffs and an increase in India’s rate of growth. Growth rates in Latin America and the Middle East were also projected to be positive in 2020.\textsuperscript{336} These projections likely will be revised downward due to the slowdown in global trade associated with COVID-19, lower energy and commodity prices, an increase in the foreign exchange value of the dollar, and other secondary effects that could curtail growth. Commodity exporting countries, in particular, likely will experience a greater slowdown in growth than forecasted in earlier projections as a result of a slowdown on trade with China and lower commodity prices.

## Asian Development Bank 2020 Forecast

According to the Asian Development Bank’s (ADB) September 2020 forecast, GDP growth for developing Asia is projected to contract by 0.7% in 2020, reportedly the first decline in economic activity in the region in six decades.\textsuperscript{337} Similar to other groups, the ADB’s forecasts indicate progressively more negative rates of growth over the April through September period, while also

\begin{itemize}
\item \textsuperscript{333} OECD Interim Economic Assessment, p. 7.
\item \textsuperscript{334} Ibid., p. 5.
\item \textsuperscript{337} Asian Development Outlook 2020 Update, Asian Development Bank, September 2020.
\end{itemize}
forecasting a rebound in growth rates in 2021. Annual rates of growth in three-fourths of the region’s economies are projected to decline in 2020.

ADB forecasts by sub-regions indicate that East Asia is projected to experience an overall positive rate of growth in 2020, as a result of the dominating influence of the Chinese economy, which is projected to grow by nearly 2% in 2020 and nearly 8% in 2021 as indicated in Figure 20. In contrast, Hong Kong, which had already experienced a slowing rate of growth primarily as a result of domestic political turmoil and trade issues between the United States and China, is projected to experience a 6.8% decline in economic growth in 2020. Economic growth in the region is projected to rise by 6.8% in 2021. Countries in the region have implemented different measures to contain the spread of the virus, reflecting differences in the extent of viral infections. Across governments within the region, total fiscal support totaled $3.6 trillion by the end of August 2020, divided between income support measures and measures intended to support liquidity. Similar to other regions and countries, growth prospects in developing Asia depend on the length and depth of the health crisis and the protracted nature of trade tensions between the United States and China.

### Figure 20. Asian Development Bank 2020 GDP Forecasts

(in percent change)

<table>
<thead>
<tr>
<th></th>
<th>April 2020</th>
<th>June 2020</th>
<th>Sept. 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Asia</td>
<td>0.0%</td>
<td>-0.5%</td>
<td>-2.1%</td>
</tr>
<tr>
<td>East Asia</td>
<td>0.0%</td>
<td>1.3%</td>
<td>1.3%</td>
</tr>
<tr>
<td>South Asia</td>
<td>0.0%</td>
<td>-3.0%</td>
<td>-6.8%</td>
</tr>
<tr>
<td>The Pacific</td>
<td>0.0%</td>
<td>-4.3%</td>
<td>-6.1%</td>
</tr>
</tbody>
</table>

**Source:** Asian Development Bank. Created by CRS.

### Emerging Markets

The combined impact of COVID-19, an increase in the value of the dollar, and an oil price war between Saudi Arabia and Russia are hitting developing and emerging economies hard. Not all of these countries have the resources or policy flexibility to respond effectively. According to figures compiled by the Institute for International Finance (IIF), cumulative capital outflows from developing countries since January 2020 are double the level experienced during the 2008/2009 crisis and substantially higher than recent market events (Figure 21).338

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Figure 21. Capital Flows to Emerging Markets in Global Shocks

Source: Original graphic and data from International Institute for Finance using data from Haver. Edited by CRS for clarification.

The impact of the price war and lower energy demand associated with a COVID-19-related economic slowdown is especially hard on oil and gas exporters, some of whose currencies are at record lows (Figure 22). Oil importers, such as South Africa and Turkey, have also been hit hard; South Africa’s rand has fallen 18%339 against the dollar since the beginning of 2020 and the Turkish lira has lost 8.5%.340 Some economists are concerned that the depreciation in currencies could lead to rising rates of inflation by pushing up the prices of imports and negatively economic growth rates in 2020.341

Depending on individual levels of foreign exchange reserves and the duration of the capital flow slowdown, some countries may have sufficient buffers to weather the slowdown, while others will likely need to make some form of current account adjustment (reduce spending, raise taxes, etc.). Several countries, such as Iran and Venezuela, have already asked the IMF for financial assistance and others are likely to follow.342 (Venezuela’s request was quickly rebuffed due to

342 “COVID-19-Hit Iran Asks IMF for Aid amid US Sanctions,” Deutsche Walle, March 13, 2020, https://www.dw.com/en/covid-19-hit-iran-asks-imf-for-aid-amid-us-sanctions/a-52763114. Iran is currently under U.S. sanctions, which include, among other things, prohibitions on the ability of the United States to vote in favor of lending IMF or World Bank assistance to Iran. The United States, however, cannot unilaterally block lending to a particular country. Approving an IMF or World Bank loan requires a majority of the total voting power and the U.S. voting power is 16.5% of the total voting power at the IMF and 15.4% at the World Bank. Iran has not borrowed from the IMF since 1962, but did borrow from the World Bank between 2003 and 2005 over U.S. opposition.
disagreement among the IMF membership over who is recognized as Venezuela’s legitimate leader: Nicolás Maduro or Juan Guaidó.\textsuperscript{343}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{Figure22.png}
\caption{Depreciation Against the Dollar Since January 1, 2020}
\end{figure}

\textbf{International Economic Cooperation}

Initial efforts at coordinating the economic response to the COVID-19 pandemic across countries have been uneven. Governments are divided over the appropriate response and in some cases have acted unilaterally, particularly when closing borders and imposing export restrictions on medical equipment and medicine. An emergency meeting of G-7 (Canada, France, Germany, Italy, Japan, the United Kingdom, and the United States) finance ministers on March 3, 2020, fell short of the aggressive and concrete coordinated action that investors and economists had been hoping for, and U.S. and European stock markets fell sharply after the meeting.\textsuperscript{344} However, on March 16, 2020, the leaders of the G-7 countries held an emergency summit by teleconference to discuss and coordinate their policy responses to the economic fallout from the global spread of COVID-19. In the joint statement released by the G-7 leaders after the emergency teleconference summit, the leaders stressed they are committed to doing “whatever is necessary to ensure a strong global response through closer cooperation and enhanced cooperation of efforts.”\textsuperscript{345} The countries pledged to coordinate research efforts, increase the availability of medical equipment; mobilize “the full range” of policy instruments, including monetary and fiscal measures as well as targeted actions, to support workers, companies, and sectors most affected by the spread of COVID-19; task the finance ministers to coordinate on a weekly basis, and direct the IMF and the World Bank Group, as well as other international organizations, to support countries worldwide as part of a coordinated global response.\textsuperscript{346} G-7 coordination has not been unproblematic however, including disagreement among G-7 foreign affairs ministers about how to refer to the virus (coronavirus or the “Wuhan virus”) and concerns about collaboration on vaccine research.\textsuperscript{347}

\begin{thebibliography}{99}
\bibitem{WhiteHouse} White House, G-7 Leaders’ Statement, March 16, 2020, https://www.whitehouse.gov/briefings-statements/g7-leaders-statement/.
\bibitem{Ibid} Ibid.
\bibitem{Pompeo} “Pompeo, G-7 Foreign Ministers Spar over ‘Wuhan Virus’,” \textit{Politico}, March 25, 2020; Katrin Bennhold and David E. Sanger, “U.S. Offered ‘Large Sum’ to German Company for Access to Coronavirus Vaccine Research, German
\end{thebibliography}
The United States is chairing the G-7 in 2020, and while the June summit at Camp David had been canceled due to concerns about COVID-19, on May 20, President Trump indicated that the summit may be held after all.

The G-20, which has a broader membership of major advanced and emerging-market economies representing 85% of world GDP, was slower to respond to the pandemic. Even though G-20 coordination is widely viewed as critical in the response to the global financial crisis of 2008-2009, several factors may have complicated G-20 coordination in the current context: the Trump Administration’s prioritization of an “America First” foreign policy over one committed to multilateralism; the 2020 chair of the G-20, Saudi Arabia, is embroiled in its own domestic political issues and oil price war; and U.S.-China tensions make G-20 consensus more difficult. The G-20 held a summit by teleconference on March 26, 2020, but the resulting communique was criticized for failing to include concrete action items beyond what national governments were already doing. However, G-20 coordination appears to be gaining momentum, most notably with the G-20 agreement on debt relief for low-income countries (see “Looming Debt Crises and Debt Relief Efforts”).

Meanwhile, international organizations including the IMF and multilateral development banks, have tried to forge ahead with economic support given their current resources. Additionally, the Financial Stability Board (FSB), an international body including the United States that monitors the global financial system and makes regulations to ensure stability, released a statement on March 20, 2020, that its members are actively cooperating to maintain financial stability during market stress related to COVID-19. The FSB is encouraging governments to use flexibility within existing international standards to provide continued access to funding for market participants and for businesses and households facing temporary difficulties from COVID-19, while noting that many FSB members have already taken action to release available capital and liquidity buffers.

Looming Debt Crises and Debt Relief Efforts

COVID-19 could trigger a wave of defaults around the world. In Q3 2019—before the outbreak of COVID-19—global debt levels reached an all-time high of nearly $253 trillion, about 320% of global GDP. About 70% of global debt is held by advanced economies and about 30% is held by emerging markets. Globally, most debt is held by nonfinancial corporations (29%), governments (27%) and financial corporations (24%), followed by households (19%). Debt in...
emerging markets has nearly doubled since 2010, primarily driven by borrowing from state-owned enterprises.

High debt levels make borrowers vulnerable to shocks that disrupt revenue and inflows of new financing. The disruption in economic activity associated with COVID-19 is a wide-scale exogenous shock that will make it significantly more difficult for many private borrowers (corporations and households) and public borrowers (governments) around the world to repay their debts. COVID-19 has hit the revenue of corporations in a range of industries: factories are ceasing production, brick-and-mortar retail stores and restaurants are closing, commodity prices have plunged (Bloomberg commodity price index—a basket of oil, metals, and food prices—has dropped 27% since the start of the year and is now at its lowest level since 1986), and overseas and in some cases domestic travel is being curtailed. Some governments, including Argentina and Lebanon, were already experiencing debt pressures, which have been exacerbated by the pandemic. Other countries are facing new debt pressures created by the pandemic, while some countries, such as Abu Dhabi and Egypt, have completed successful sovereign bond sales since the outbreak of the pandemic.

Households are facing a rapid increase in unemployment and, in many developing countries, a decline in remittances. With fewer resources, corporations and households may default on their debts, absent government intervention. These defaults will result in a decline in bank assets, making it difficult for banks to extend new loans during the crisis or, more severely, creating solvency problems for banks. Meanwhile, many governments are dramatically increasing spending to combat the pandemic, and are likely to face sharp reductions in revenue, putting pressure on public finances and raising the likelihood of sovereign (government) defaults. Debt dynamics are particularly problematic in emerging economies, where debt obligations denominated in foreign currencies (usually U.S. dollars). Many emerging market currencies have depreciated since the outbreak of the pandemic, raising the value of their debts in terms of local currency.

Governments will face difficult choices if there is a widespread wave of defaults. Most governments have signaled a commitment to or already implemented policies to support those economically impacted by the pandemic. These governments face decisions about the type of assistance to provide (loans versus direct payments), the amount of assistance to provide, how to allocate rescue funds, and what conditions if any to attach to funds. Governments have undertaken extraordinary fiscal and monetary measures to combat the crisis. However, developing countries that are constrained by limited financial resources and where health systems could quickly become overloaded are particularly vulnerable.

In terms of defaults by governments (sovereign defaults), emergency assistance is generally provided by the IMF, and sometimes paired with additional rescue funds from other governments on a bilateral basis. The IMF and other potential donor countries will need to consider whether the IMF has adequate resources to respond to the crisis, how to allocate funding if the demand for funding exceeds the amount available, what conditions should be attached to rescue funding, and whether IMF programs should be paired with a restructuring of the government’s debt (“burden sharing” with private investors).

International efforts are underway to help the most vulnerable developing countries grapple with debt pressures. In mid-April 2020, the IMF tapped its Catastrophe Containment and Relief Trust (CRRT), funded by donor countries, to provide grants to cover the debt payments of 25 poor and

vulnerable countries to the IMF for six months. The IMF hopes that additional donor contributions will allow this debt service relief to be extended for two years. Additionally, the G-20 finance ministers agreed to suspend debt service payments for the world’s poorest countries through the end of 2020. The Institute for International Finance (IIF), which represents 450 banks, hedge funds, and other global financial funds, also announced that private creditors will join the debt relief effort on a voluntary basis. This debt standstill will free up more than $20 billion for these countries to spend on improving their health systems and fighting the pandemic. Private sector commitments were critical for official creditors, so that developing countries could redirect funds to improving health systems rather than repaying private creditors.

However, the debt standstill is complicated. There is debate among creditor governments about what debts should be included in the standstill, and how it can be enforced. On May 1, the IIF in a letter laid out some of the obstacles facing private sector participation in the debt standstill, including reliance on “voluntary” participation, each participating creditor will need to make its own assessments, the standstill could require a lengthy contract-by-contract approach, and the participating borrowing countries may face risks, such as rating downgrades and inability to borrow from financial markets (often referred to as “loss of market access”). Some economists have characterized the letter as a list of reasons private creditors may cite as justification for their refusal to participate in the debt standstill. Reportedly, some African countries are opting to negotiate debt relief individually with China and other creditor nations because of concerns they will be blocked from financial markets if they participate in the G-20 debt standstill.

**Other Affected Sectors**

Public concerns over the spread of the virus have led to self-quarantines, reductions in airline and cruise liner travel, the closing of such institutions as the Louvre, and the rescheduling of theatrical releases of movies, including the sequel in the iconic James Bond series (titled, “No Time to Die”). School closures have affected 1.5 billion children worldwide, challenging parental leave policies. Other countries have limited the size of public gatherings.

Some businesses are considering new approaches to managing their workforces and work methods. These techniques build on, or in some places replace, such standard techniques as self-quarantines and travel bans. Some firms are adopting an open-leave policy to ensure employees receive sick pay if they are, or suspect they are, infected. Other firms are adopting paid sick leave policies to encourage sick employees to stay home and are adopting remote working policies.

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361 Hill, Andrew and Emma Jacobs, “Covid-19 May Create Lasting Workplace Change,” *Financial Times*, February 27,
Microsoft and Amazon initially instructed all of their Seattle-based employees to work from home until the end of March 2020, but Microsoft indicated in October it would allow a large share of its employees to work from home permanently.362

The drop in business and tourist travel has caused a sharp drop in scheduled airline flights by as much as 10%; airlines are estimating they could lose $113 billion in 2020 (an estimate that could prove optimistic given the Trump Administration’s announced restrictions on flights from Europe to the United States and the growing list of countries that are similarly restricting flights),363 while airports in Europe estimate they could lose $4.3 billion in revenue due to fewer flights.364 Industry experts estimate that many airlines will be in bankruptcy by May 2020 under current conditions as a result of travel restrictions imposed by a growing number of countries.365 The loss of Chinese tourists is another economic blow to countries in Asia and elsewhere that have benefitted from the growing market for Chinese tourists and the stimulus such tourism has provided.

The decline in industrial activity has reduced demand for energy products such as crude oil, causing prices to drop sharply, which negatively affects energy producers, renewable energy producers, and electric vehicle manufacturers, but generally is positive for consumers and businesses. Saudi Arabia is pushing other OPEC (Organization of the Petroleum Exporting Countries) members collectively to reduce output by 1.5 million barrels a day to raise market prices. U.S. shale oil producers, who are not represented by OPEC, support the move to raise prices.366 An unwillingness by Russia to agree to output reductions added to other downward pressures on oil prices and caused Saudi Arabia to engage in a price war with Russia that drove oil prices below $20 per barrel at times, half the estimated $50 per barrel break-even point for most oil producing countries.367 Rising oil supplies and falling demand combined to create an estimated surplus of 25 million barrels a day and overwhelmed storage capacity at times and challenged the viability of U.S. shale oil production.368 In 2019, low energy prices combined with high debt levels reportedly caused U.S. energy producers to reduce their spending on capital equipment, reduced their profits and, in some cases, led to bankruptcies.369 Reportedly, in late


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2019 and early 2020, bond and equity investors, as well as banks, reduced their lending to shale oil producers and other energy producers that typically use oil and gas reserves as collateral.\(^{370}\)

Disruptions to industrial activity in China reportedly caused delays in shipments of computers, cell phones, toys, and medical equipment.\(^{371}\) Factory output in China, the United States, Japan, and South Korea all declined in the first months of 2020.\(^{372}\) Reduced Chinese agricultural exports, including to Japan, are leading to shortages in some commodities. In addition, numerous auto producers have faced shortages in parts and other supplies that have been sourced in China. Reductions in international trade have also affected ocean freight prices. Some freight companies argue they could be forced to shutter if prices did not rebound quickly.\(^{373}\) Disruptions in the movements of goods and people reportedly caused some companies to reassess how international they want their supply chains to be.\(^{374}\) According to some estimates, nearly every member of the Fortune 1000 has been affected by disruptions in production in China.\(^{375}\)

Conclusions

The quickly evolving nature of the COVID-19 crisis creates a number of issues that make it difficult to estimate the full cost to global economic activity. These issues include, but are not limited to the following:

- How long will the crisis last?
- How many workers will be affected both temporarily and permanently?
- How many countries will be infected and how much economic activity will be reduced?
- When will the economic effects peak?
- How much economic activity will be lost as a result of the viral outbreak?
- What are the most effective monetary and fiscal policies at the national and global level to address the crisis?
- What temporary and permanent effects will the crisis have on how businesses organize their work forces?
- Many of the public health measures taken by countries such as Italy, Taiwan, South Korea, Hong Kong, and China have sharply impacted their economies (with plant closures, travel restrictions, and so forth). How are the tradeoffs between public health and the economic impact of policies to contain the spread of the virus being weighed?

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370 Ibid.
374 Ibid.
375 Ibid.
Appendix. Table A-1. Select Measures Implemented and Announced by Major Economies in Response to COVID-19

<table>
<thead>
<tr>
<th>United States</th>
<th>U.S. Federal Reserve</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>March 3</strong></td>
<td>Cut the target range for the federal funds rate by 0.5 percentage point.</td>
</tr>
<tr>
<td><strong>March 12</strong></td>
<td>Expanded reverse repo operations, adding $1.5 trillion of liquidity to the banking system.</td>
</tr>
<tr>
<td><strong>March 15</strong></td>
<td>Cut the target range for the federal funds rate by a full percentage point to a range of 0.00% to 0.25% and restarted quantitative easing with the purchase of at least $500 billion in Treasury securities and $200 billion in mortgage-backed securities.</td>
</tr>
<tr>
<td><strong>March 16</strong></td>
<td>Increased reverse repo operations by another $500 billion.</td>
</tr>
<tr>
<td><strong>March 17</strong></td>
<td>U.S. Treasury Secretary Mnuchin approved the Federal Reserve's creation of a “Commercial Paper Funding Facility,” (CPFF) through March 17, 2021, which will allow the Fed to create a corporation which can purchase commercial paper, short-term, unsecured loans made by businesses for everyday expenses and authorized up to $10 billion from the Treasury to help cover loan losses incurred under this program.</td>
</tr>
<tr>
<td><strong>March 17</strong></td>
<td>Relaunched the Primary Dealer Credit Facility (PDCF) for at least six months. Starting March 20, the PDCF will offer short-term loans to banks secured by collateral such as municipal bonds or investment-grade corporate debt.</td>
</tr>
<tr>
<td><strong>March 18</strong></td>
<td>Launched the Money Market Mutual Fund Liquidity Facility (MMLF) through the end of September, a new program to lend money to banks so they can purchase assets from money market funds. Treasury is offering up to $10 billion to cover loan losses the Fed incurs from the program.</td>
</tr>
<tr>
<td><strong>March 23</strong></td>
<td>Announced a series of measures designed to stabilize markets, enhance liquidity and stimulate growth. The measures included the roll out of 2 new facilities, the Primary Market Corporate Credit Facility (PMCCF) for new bond and loan issuance and the Secondary Market Corporate Credit Facility (SMCCF) to provide liquidity for outstanding corporate bonds. The FOMC removed its caps on planned QE purchases and will now purchase Treasuries and agency mortgage-backed securities “in the amounts needed to support smooth market functioning and effective transmission of monetary policy to broader financial conditions and the economy.”</td>
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</tbody>
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<table>
<thead>
<tr>
<th>U.S. Congress</th>
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<tbody>
<tr>
<td><strong>March 5</strong></td>
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<tr>
<td><strong>March 13</strong></td>
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<tr>
<td><strong>March 19</strong></td>
</tr>
</tbody>
</table>
| **March 27**  | Passed, and the President signed, the COVID-19 Aid, Relief, and Economic Security Act (CARES Act, H.R. 748, P.L. 116-136), a $2.1 trillion fiscal stimulus package. It includes $454 billion in loans for businesses, $349 billion in loans for small businesses, $300 billion for direct payments of $1,200 each for lower- and
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middle-income individual taxpayers (and $500 for each child), $250 billion for unemployment insurance, and $221 billion in tax deferrals, among other measures.

**March 30:** Some Members of the House of Representatives announced they had begun work on a fourth COVID-19 bill targeting a number of issues, including short supplies of medical equipment and protective gear to enhance worker protections, infrastructure needs, and additional payments to individuals.

**Trump Administration**

**March 13:** President Trump declared a state of emergency, allowing the Federal Government to distribute up to $50 billion in aid to states, cities, and territories.

**March 17:** The Internal Revenue Service postponed the April 15 tax-payment deadline for 90 days and will waive interest and penalties. (The extension and waiver is available only to individuals and corporations that owe $1 million or $10 million or less, respectively.)

**March 17:** Administration officials begin negotiations with Members of Congress on a third stimulus package.

**March 31:** President Trump calls for $2 trillion infrastructure spending, possibly as part of fourth COVID-19 stimulus bill.

### Albania

**The Bank of Albania**

**March 25:** Cut its benchmark interest rate to a record-low 0.5% and its one-day lending rate to 0.9% on to help lending in the economy affected by the COVID-19 outbreak. It also announced that it would inject unlimited liquidity into the banking sector, ensure the normal functioning of the electronic payments system, and that, together with the government, it had agreed to postpone until the end of May all loan repayments by businesses and individuals facing difficulties due to the outbreak.

**Government of Albania**

**March 20:** Passed measures totaling $370 million in its budget to soften the impact from the COVID-19 crisis, including $25 million for the health sector; guarantees worth $100 million to companies unable to pay their employees; and $65 million to help the needy, small businesses, and those unable to work because of stay-at-home orders. It also announced that it would write off penalties on delayed electricity bill payments worth some $150 million, postpone taxes on company profits, and cut the wages of government ministers and lawmakers by half for the duration of the crisis.

### Argentina

**Central Bank of Argentina**

**March 19:** Indicated that it would lower reserve requirements for banks that extended special credit lines to small and medium-sized enterprises at a maximum annual interest rate of 24% in a bid to offset the impact of COVID-19.

**Government of Argentina**

**March 19:** Announced a fiscal stimulus package of 700 billion pesos ($11.3 billion) to mitigate the impact of the COVID-19 and support the economy. The main measures include providing credit to productive activities (350 billion pesos), increasing public investments (100 billion pesos), and waiving payroll taxes for firms affected by the COVID-19.

### Armenia

**March 17:** The Central Bank of Armenia cut its key refinancing rate by 25 basis points to 5.25% from 5.5% due to the effects of the COVID-19 outbreak on the economy.

### Australia

**Reserve Bank of Australia**

**March 3:** Cut its benchmark interest rate by 25 basis points to 0.5% due to the significant effect of the COVID-19 outbreak on the Australian economy.

**March 19:** Cut its cash rate by 25 basis points to 0.25% and and introduced a series of measures: (1) targeting the 3-year government bond yield at 0.25% via purchases in
the secondary market, (2) providing a three-year term funding facility to authorized
deposit-taking institutions worth at least AU$90 billion at a fixed rate of 0.25%,
aiming to support credit to small and medium-sized enterprises, (3) fixing the
exchange settle balances at the central bank at 10 basis points. It will also continue to
provide liquidity by conducting one-month and three-month repo operations until
further notice. Longer-term repo operations of six-month maturity or longer would
be undertaken at least weekly. The central bank also set out forward guidance, saying
that it will not increase the cash rate until progress is made towards full employment
and confident that inflation is sustainably within its target band.

**March 19:** Through its daily money market operation, it has injected cash into the
banking system (through repurchasing agreements), aiming to ease liquidity
constraints in the stressed bond market: AU$12.7 billion (March 19), AU$10.7 billion
(March 18), AU$8.8 (March 17), AU$5.9 billion (March 16), and AU$8.8 (March 13).

**Government of Australia**

**March 12:** Announced a AU$17.6 billion ($11.4 billion) stimulus package that
includes support for business investment, cash flow assistance for small and medium
sized business and employees, and household stimulus payments.

**March 16:** The Australian Securities and Investments Commission ordered large
equity market participants to reduce their number of executed trades by 25% from
the levels executed on March 13, 2020, until further notice.

**March 19:** Announced that the Australian Office of Financial Management (AOFM)
will be provided with an investment capacity of $15 billion to enable smaller lenders
to continue supporting Australian consumers and small businesses. (AOFM will be
able to purchase residential mortgage backed securities and invest in a range of other
asset backed securities and warehouse facilities over the next 12 months.)

**March 22:** Announced an additional AU$66.4 billion ($38.5 billion) fiscal package,
which extends income support measures for existing welfare and newly unemployed
workers, and boosted previously announced measures for businesses such as cash
flow and wage subsidies. The government is also expected to give local businesses
AU$100,000 if the company has a turnover of less than AU$50 million each year and
underwrite 50% of up AU$40 billion in loans offered by local lenders to small and
medium sized companies.

**March 30:** Unveiled an economic package of AU$130 billion ($79.85 billion) to
subsidize the wages of an estimated 6 million people, marking a third tranche of
stimulus designed to limit the fallout of the COVID-19 pandemic on the country’s
economy. The “job keeper” allowance, which would bring the country’s COVID-19-
related stimulus so far to A$320 billion (about 15% of Australia’s gross domestic
product), will provide eligible companies with AU$1,500 every fortnight for six
months for each employee. Any company that lost 30% of its revenue can apply for
the funds.

**Austria**

**Government of Austria**

**March 14:** Set up an initial 4 billion euro ($4.4 billion) “corona crisis fund” to cover,
among other things, benefits for affected workers, as well as bridge loans and credit
guarantees to shore up businesses’ liquidity.

**March 18:** Announced that it will spend up to 38 billion euros ($42 billion) to secure
jobs and keep companies afloat, and it will provide another 9 billion euros in
guarantees and warranties, 15 billion euros in emergency aid, and 10 billion euros in
tax deferrals.

**Bosnia and Herzegovina**

**March 17:** The prime minister met with the IMF Resident Representative in Bosnia
to request assistance from the IMF. The IMF indicated that it may extend a 165
million euros ($181 million) loan to Bosnia under a Rapid Financing Instrument (RFI)
to finance the increasing costs sustained by the country’s health system in combating
COVID-19.
### Brazil

**Central Bank of Brazil**

**March 18:** Cut its benchmark interest rate by 50 basis points to 3.75% to cushion the economic blow of the COVID-19 pandemic. It also sold $830 million in two rounds of spot foreign exchange intervention and announced a repurchase program for dollar-denominated sovereign bonds held by Brazilian banks, which will be carried out in conjunction with the Treasury.

**March 23:** Announced that it planned to inject 1.2 trillion reais ($233.81 billion) into the country’s financial system to counteract the effects of the COVID-19 outbreak, with more than half that amount comprising loans to banks. Under the program, lenders will be able to package their loan portfolios into long-term deposits to be acquired by the central bank in a move aimed at freeing up 670 billion reais for fresh loans. It also (1) cut long-term reserve requirements to 17% from 25%, freeing up 68 billion reais currently in compulsory deposits with the central bank to banks, (2) announced measures allowing small and mid-sized lenders to issue up to 2 billion reais in special long-term bonds guaranteed by a privately held deposit insurance fund, limited to an amount equivalent to its shareholders’ equity, and (3) will extend loans backed by corporate bonds to financial institutions between March 23 and April 30 to add liquidity to their investment funds.

**Government of Brazil**

**March 16:** Announced a fiscal stimulus package of 147.1 billion reais ($28.6 billion) to mitigate the impact of the COVID-19 and boost the economy. It does not contain new money, but is a range of measures that aim to protect the most vulnerable population through social assistance payments (83.4 billion reais), support domestic companies and defer business taxes (59.4 billion reais), and increase investments in healthcare to combat the COVID-19 (4.5 billion reais). The government also announced a 3.1 billion reais boost to the “Bolsa Familia” assistance for some of Brazil’s poorest families.

**March 16:** The National Monetary Council (CMN) approved the measures that will allow banks to (1) increase loans and offer better terms to firms and households over the next six months and (2) extend certain loan maturities for the next six months. It also lowered capital requirements for banks.

**April 1:** Announced that it will cut the IOF financial tax for 90 days. It will be temporary and cost 7 billion reais. It will also extend the deadline for submitting the 2019 base year net income report to June 30 from April 30 and allow companies to postpone payment of certain tax contributions for two months and reduce wages by up to 70% (or the minimum wage) for three months, among other measures.

### Bulgaria

**Government of Bulgaria**

**March 30:** Announced it will spend more than 1 billion lev ($566 million) to pay part of workers’ salaries in companies whose operations have been hit by the COVID-19 crisis, part of part of an overall 4.5 billion-lev package.

**March 31:** Announced plans to raise the ceiling on new debt it can raise to 10 billion lev due to the COVID-19 pandemic.

### Cambodia

**Government of Cambodia**

**March 5:** Announced that it would allocate $30 million to finance Cambodia’s COVID-19 screening and monitoring efforts.

**March 10:** Allocated between $800 million to $2 billion to address the economic impacts of the novel COVID-19 outbreak.

### Canada

**Bank of Canada**

**March 4:** Lowered its target for the overnight rate by 50 basis points to 1.25% (setting the bank rate to 1.5% and the deposit rate to 1%).

**March 12:** Announced that it will broaden the scope of the current Government of Canada bond buyback program and temporarily add new Term Repo operations.
**Global Economic Effects of COVID-19**

<table>
<thead>
<tr>
<th>Country</th>
<th>Actions</th>
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<tbody>
<tr>
<td><strong>March 13</strong></td>
<td>Lowered its benchmark overnight rate to 1.25% from 1.75% in response to the epidemic.</td>
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<td><strong>March 13</strong></td>
<td>Announced its intention to launch the Bankers’ Acceptance Purchase Facility (BAPF), starting the week of March 23, 2020, in an effort to support the continuous functioning of financial markets; it will conduct secondary market purchases of one-month Bankers’ Acceptances issued and guaranteed by any Canadian bank and of sufficiently high quality. BAPF operations will be conducted weekly with the purchase amount and reserve rate being adjusted to reflect market conditions. (For the first operation, the Bank of Canada will purchase up to $10 billion of one-month Bankers’ Acceptances with a reserve rate of the overnight index swap rate plus 20 basis points.)</td>
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<td><strong>March 16</strong></td>
<td>Announced that it will broaden eligible collateral for its term repo facility and increase purchases of mortgage-backed securities (Canada Mortgage Bonds).</td>
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<td><strong>March 27</strong></td>
<td>Cut its overnight interest rate by 50 basis points to 0.25%, its lowest level since June 2010 and the third cut in March, to support an economy hit hard by the outbreak of COVID-19. It also announced that it would begin purchases of CA$5 billion per week of Government of Canada securities in the secondary market.</td>
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<td><strong>Canadian Government</strong></td>
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<td><strong>March 6</strong></td>
<td>Announced an investment of CA$27 million to fund COVID-19 research and accelerate the development, testing, and implementation of measures to deal with the COVID-19 outbreak.</td>
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<td><strong>March 11</strong></td>
<td>Unveiled CA$1 billion ($750 million) in funding for vaccine research and health measures.</td>
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<td><strong>March 13</strong></td>
<td>Established a Business Credit Availability Program (BCAP) to support financing in the private sector through the Business Development Bank of Canada (BDC) and Export Development Canada (EDC); it will allow BDC and EDC to provide more than $10 billion of additional support to businesses.</td>
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<td><strong>March 13</strong></td>
<td>The Office of the Superintendent of Financial Institutions (OSFI) lowered the Domestic Stability Buffer requirement for domestic systemically important banks by 1.25% of risk weighted assets; it will increase the lending capacity of Canada’s large banks and support the supply of credit to the economy by more than CA$300 billion.</td>
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<td><strong>March 25</strong></td>
<td>Almost doubled the value of an aid package previously announced to help people and businesses deal with losses from the COVID-19 outbreak, from CA$27 billion to CA$52 billion ($36.6 billion). It will give people affected by the outbreak CA$2,000 a month, delay student loan repayments, and defer tax payments, among other measures to boost the economy.</td>
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**Chile**

| **Central Bank of Chile** | **March 16** | Cut its benchmark rate by 75 basis points to 1% and announced measures to inject liquidity, including allocating $4 billion to purchase inflation-linked bank bonds and providing additional credit to banks. |
| **March 31**             | Cut its benchmark interest rate by 50 basis points to 0.50% amid the COVID-19 pandemic. |

**Government of Chile**

| **March 19** | Announced a stimulus package of $11.75 bn to mitigate the negative economic impact of the outbreak of COVID-19 and civil unrest. The measures include extending unemployment insurance to those who are sick or unable to work from home, delaying tax payments for small businesses, a cash bonus for approximately 2 million workers who lack formal employment, and emergency funds for municipalities. |

**China**

| **People’s Bank of China (PBOC)** | **February 3** | Expanded reverse repo operations by $174 billion; added another $71 billion on February 4. |
February 16: Cut the one-year medium-term lending facility rate by 10 basis points.
February 20: Cut the one-year and five-year prime rates by 10 and 5 basis points, respectively.
March 13: Lowered bank reserve requirements, freeing up about $79 billion to be loaned out.
March 30: Lowered the interest rate on reverse repurchase agreements to 2.20% from 2.40%, as authorities stepped up easing measures to relieve pressure on the economy that has been hit hard by the epidemic.

PRC Government
February: Asked banks to extend the terms of business loans and commercial landlords to reduce rents.
February 24: The Asian Infrastructure Investment Bank (AIIB) contributed $1 million in medical equipment to help China control the spread of COVID-19.
February 27: Announced a number of tax relief measures to tackle COVID-19 disruption, including a temporary reduction its value-added tax (VAT) and the elimination of VAT on medical, catering, accommodation, hairdressing, and laundry services as well as on masks and protective clothing.
March: Earmarked $15.9 billion to fight the epidemic.
March 21: Announced that it would cut fees on a large scale to stimulate private-sector investment and also accelerate the development of “new infrastructure” to help spur the economy.
March 19: Reportedly is considering a fiscal stimulus package worth trillions of yuan to revive the economy amid the COVID-19 pandemic. The ramped-up spending will aim to spur infrastructure investment, backed by as much as 2.8 trillion yuan ($394 billion) of local government special bonds.
March 27: The Communist Party’s Politburo announced that it would step up macroeconomic policy changes and pursue more proactive fiscal policy. It called for expanding the budget deficit, issuing more local and national bonds, guiding interest rates lower, delaying loan repayments, reducing supply-chain bottlenecks and boosting consumption.

Colombia
Central Bank of Colombia
March 18: Announced a $400 million dollar to peso swap to take place on March 19, and that it would increase the resources available to financial institutions and ease rules on which institutions can have access to funds.
March 27: Cut its benchmark interest rate by 50 basis points to 3.75% in an effort to boost economic growth amid fall-out from COVID-19.

Government of Colombia
March 18: Announced that it has 14.8 trillion pesos ($3.65 billion) to spend on emergency measures to ease the economic fallout from COVID-19, but it will not take on additional debt to finance the efforts (12.1 trillion pesos will come from the country’s savings programs). It will initially spend 1 trillion pesos on the healthcare system and 500 billion pesos on additional payments to social welfare programs for families, young people and the elderly, accelerate a plan to return value added tax to the neediest Colombians from April, and make 48 trillion pesos available to give credit guarantees to small and medium-sized businesses and households.

Congo-Kinshasa (Democratic Republic of the Congo)
March 24: The Central Bank of the Congo cut its base interest rate to 7.5% from 9.0% in order to cushion the economic impact of the COVID-19 outbreak. It will also cut mandatory reserve requirements and provide liquidity to banks.

Cyprus
Government of Cyprus
March 15: Unveiled a 700 million euro support package for companies and workers to deal with the impact of the spread of COVID-19, which includes a temporary VAT
Global Economic Effects of COVID-19

**Czech Republic**

**Czech National Bank**

**March 16:** The Czech National Bank lowered its main two-week repo rate by 50 basis points to 1.75%, reversing its February rate hike to combat the hit from the virus outbreak. It also raised the number of repo operations that provide liquidity to banks to three times a week from once, noting that bids would be met with zero spread to the repo rate.

**March 17:** Revised the countercyclical capital buffer for exposures located in the Czech Republic to 1.75%.

**March 26:** Cut its main two-week repo rate by 75 basis points to 1.00% and announced that it was ready to cut interest rates further if needed.

**Government of the Czech Republic**

**March 9:** Adopted a number of economic measures, which will include providing 100 billion CZK ($3.9 billion) in direct support and 900 billion CZK ($34.8 billion) in indirect in the form of guarantees to maintain the employment rate, paying out (through the respective employers) 60% of the average contribution base to employees affected by the quarantine, supporting employers who continue, despite their businesses being shut down, to pay out 100% of the salary to affected employees by covering 80% of salary costs (up to 1.2 billion CZK), and allocating 10 billion CZK ($390 million) to the Czech-Moravian Guarantee and Development Bank for immediate granting of interest-free loans with a one-year deferral with the possibility of a two-year extension for businesses affected by the COVID-19 (“COVID Loans Program”). (On March 16, the government earmarked another 1 billion CZK to the COVID Loans Program.)

**March 13:** Extended the deadline for the filing of tax returns until 1 July and waived fines stemming from the late submission of tax declarations or reports.

**March 13:** The Czech Banking Association (CBA) will allow banks to voluntarily extend the deadlines on loan and mortgage payments.

**March 23:** Approved a five-fold rise in this year’s budget deficit, as it offers help to businesses hit hard by the COVID-19 outbreak.

**April 1:** Announced that it had approved a scheme for a moratorium of up to six months on consumer, company, and mortgage loan payments to help the country through the COVID-19 crisis.

**Denmark**

**Danmarks Nationalbank**

**March 12:** Released banks’ emergency buffer and will be offering low interest rate loans to banks.

**March 26:** Injected $2.85 billion in loans to Danish banks and financial institutions by auctioning off U.S. dollars in two loans with a maturity date on April 8 and June 19 and a cut-off rate of 0.32 and 0.34, respectively.

**April 1:** Sold $750 million worth of its mint 30-year government bonds in an auction that was held a month early to expedite funding of aid packages due to COVID-19 that is expected to cost the state more than 60 billion Danish crowns ($8.8 billion).

**Government of Denmark**

**March 10:** Will grant tax breaks to businesses affected by the COVID-19 as part of a series of measures worth $20 billion. Large businesses will be given an additional 30 days to pay value added tax, while all companies will be granted four additional
months to pay their labor contributions. The government is also lifting the ceiling on businesses’ tax accounts, so that corporations can avoid paying the negative interest rates they are charged when placing cash in the bank.

**March 12:** Indicated that it would release banks’ counter-cyclical capital buffer, freeing about 200 billion Danish crowns ($30 billion) for lending. Other fiscal measures, worth 2.8 billion Danish crowns ($416 million), include compensation to companies for salary payments to employees who have fallen ill or been quarantined due to the COVID-19.

**March 18:** Proposed an economic aid package worth 40 billion kroner ($5.8 billion) to help small businesses cover (for three months) most of the losses in revenue and some of their fixed expenses as a result of the COVID-19 outbreak. Under the program, companies who have seen their revenues decline by 40% or more will receive government grants to help cover between 25% to 80% of their fixed costs, and self-employed and small firms who see their revenues fall more than 30% will also be offered government compensation worth 75% of their normal monthly income.

**March 31:** Announced that it will postpone by three months around 200,000 companies’ deadline of end-May to submit their annual reports in an effort to help companies affected by the COVID-19 outbreak.

### Egypt

**Central Bank of Egypt**

**March 16:** Cut by 300 basis points both the overnight lending rate (from 13.25% to 10.25%) and the overnight deposit rate (from 12.25% to 9.25%) in what it described as a “preemptive” move to support the economy in the face of the COVID-19 outbreak.

**March 23:** Told commercial banks to cut interest on dollar deposits to 1% above the London Interbank Offered Rate (Libor) instead of 1.5% above Libor, starting March 23, in order to control the exchange market and reduce the expected dollarization operations after cutting interest rates on March 16.

**March 29:** Instructed Egyptian banks to apply temporary limits on daily withdrawals and deposits in a move seemingly designed to control inflation and hoarding during the coronavirus’ spread, after 30 billion Egyptian pounds ($1.91 billion) were withdrawn from banks in the past three weeks. The daily limit for individuals would be 10,000 Egyptian pounds ($635) and 50,000 pounds for companies.

**Government of Egypt**

**March 14:** Indicated that the government will allocate 100 billion Egyptian pounds ($6.4 billion) to finance a “comprehensive” state plan for combating the COVID-19 outbreak.

**March 22:** Announced that the government would allocate 20 billion Egyptian pounds ($1.27 billion) to support the stock exchange.

**March 30:** Ordered relevant authorities to boost strategic reserves of staple goods, as global concerns about food security rise amid the COVID-19 crisis.

### Eswatini (Swaziland)

**March 21:** The Central Bank of Eswatini cut its main lending rate by 100 basis points to 5.5%, citing global and domestic economic developments and the impact of COVID-19. The reduction was to ensure the equal pegging of the local currency with the South African rand after the South African Reserve Bank (SARB) cut its main lending rate by 100 basis points to 5.25% on March 19.

### European Union

**European Central Bank (ECB)**

**March 12:** Announced that it would provide banks with loans at a rate as low as minus 0.75%, below the-0.5% deposit rate, increase bond purchases by 120 billion euros ($135.28 billion) this year (with a focus on corporate debt), and allow euro zone banks to fall short of some key capital and cash requirements (in order to keep credit flowing to the economy).

**March 18:** Launched a new, 750 billion euro ($818 billion) temporary asset purchase program of private and public sector securities to counter the risks posed by the outbreak and escalating diffusion of COVID-19 (the Pandemic Emergency Purchase
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<td>Fiji</td>
<td>March 18: The Reserve Bank of Fiji cut its Overnight Policy Rate by 25 basis points to 0.25% in order to stimulate demand and cushion the blow to its important tourism industry from the global spread of COVID-19.</td>
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| France  | March 12: Pledged more generous guarantees on loans made to small businesses, more cash for firms struggling to hold on to workers, and a solidarity fund to help companies cushion the blow from the COVID-19 outbreak; it also announced that the government would be ready to increase funds available to help companies reduce workers’ hours, instead of laying them off.  
March 16: Announced that the government would guarantee 300 billion euros in bank loans for small and medium-sized businesses.  
March 17: The Autorité des Marchés Financiers (AMF), France’s financial-markets authority, stated that it would forbid short selling of stock in 92 companies during the March 17 session.  
March 17: Announced that it would spend 45 billion euros ($50 billion) to help small businesses and employees struggling with the COVID-19 outbreak, including through an expanded partial-unemployment package in which the state pays the salaries of employees who are not needed during the crisis. |
| Gambia  | February 28: The Central Bank of The Gambia lowered its policy rate by 50 basis points to 12.0% amid risks from the COVID-19 outbreak and uncertainty surrounding global food prices. |
| Georgia | April 1: The government announced that it will put 2 billion lari ($606 million) from its state budget toward helping the economy through the COVID-19 pandemic, in addition to 351 million lari that will be allocated for the healthcare system from the state budget. The government will fund three months’ payments for electricity and gas consumption to Georgians who used less than 200 kilowatts of electricity and 200 cubic meters of gas a month in March, April, and May. |

Purchases will be conducted until the end of 2020 and will include all the asset categories eligible under the existing asset purchase program. It will also support commercial debt markets by expanding the range of eligible assets under the corporate sector purchase program to nonfinancial commercial paper of sufficient credit quality, and by easing collateral standards by expanding the scope of Additional Credit Claims to include claims related to the financing of the corporate sector.

**March 26:** Announced that under the new 750 billion euro ($818 billion) temporary bond purchase Pandemic Emergency Purchase Program (PEPP), it would not apply self-imposed limits on how many bonds it could buy from any single euro zone country. Under its long-running asset purchase scheme, the ECB has capped bond buys at 33% of each euro zone state’s debt.

**European Commission**

**March 11:** Announced a 37 billion euro ($41 billion) “Corona Investment Fund” that would use “spare” money from the EU budget to help businesses, health-care systems, and sectors in need; additionally, the EU’s own investment fund will guarantee 8 billion euros ($8.9 billion) of loans to 100,000 small- and medium-sized enterprises and affected companies may be able to delay the payment of their existing loans.

**March 19:** Adopted a Temporary Framework to enable Member States to use the full flexibility foreseen under state aid rules to support the economy in the context of the COVID-19 outbreak. It provides for five types of aid: (1) direct grants, selective tax advantages and advance payments (Member States will be able to set up schemes to grant up to 800,000 euros to a company to address its urgent liquidity needs); (2) state guarantees for loans taken by companies from banks; (3) subsidized public loans to companies; (4) safeguards for banks that channel state aid to the real economy; and (5) short-term export credit insurance.

**Fiji**

**March 18:** The Reserve Bank of Fiji cut its Overnight Policy Rate by 25 basis points to 0.25% in order to stimulate demand and cushion the blow to its important tourism industry from the global spread of COVID-19.

**France**

**March 12:** Pledged more generous guarantees on loans made to small businesses, more cash for firms struggling to hold on to workers, and a solidarity fund to help companies cushion the blow from the COVID-19 outbreak; it also announced that the government would be ready to increase funds available to help companies reduce workers’ hours, instead of laying them off.

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**March 17:** Announced that it would spend 45 billion euros ($50 billion) to help small businesses and employees struggling with the COVID-19 outbreak, including through an expanded partial-unemployment package in which the state pays the salaries of employees who are not needed during the crisis.

**Gambia**

**February 28:** The Central Bank of The Gambia lowered its policy rate by 50 basis points to 12.0% amid risks from the COVID-19 outbreak and uncertainty surrounding global food prices.

**Georgia**

**April 1:** The government announced that it will put 2 billion lari ($606 million) from its state budget toward helping the economy through the COVID-19 pandemic, in addition to 351 million lari that will be allocated for the healthcare system from the state budget. The government will fund three months’ payments for electricity and gas consumption to Georgians who used less than 200 kilowatts of electricity and 200 cubic meters of gas a month in March, April, and May.
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<td>Germany</td>
<td>Government of Germany</td>
<td>March 13:</td>
<td>Pledged to provide unlimited liquidity assistance to German companies hit by the pandemic. (The measure envisages an expansion of loans provided by KfW, the state development bank, and will allow companies to defer billions of euros in tax payments.) The Bundestag also expanded the Kurzarbeit or short-time work scheme, under which companies that put their workers on reduced hours can receive state support. The government also indicated that it would boost investments by €3.1 billion per year (about $3.5 billion) between 2021 and 2024.</td>
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<td>March 23:</td>
<td>Agreed to a package worth more than 750 billion euros ($808 billion) to mitigate the damage of the COVID-19 outbreak. It includes 156 billion euros in debt to finance higher social spending, 50 billion-euro liquidity fund for self-employed people, 600 billion-euro rescue fund (400 billion euros in guarantees, 100 billion euros in loans through state-run development bank KfW, and 100 billion euros earmarked for equity stakes in companies). Additionally, the state’s KfW bank has 500 billion euros available to boost liquidity of German companies.</td>
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<td>March 30:</td>
<td>Announced that, in response to COVID-19, it would expand export loan guarantees on short-term payments to include transactions within the EU and with Australia, Canada, Iceland, Japan, New Zealand, Norway, Switzerland, Britain, and the United States.</td>
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<td>Ghana</td>
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<td>March 18:</td>
<td>The Bank of Ghana (Ghana’s central bank) cut its interest rate to 14.5% from 16% due to the negative economic impacts it anticipates from the spread of the COVID-19.</td>
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<td>Greece</td>
<td>Government of Greece</td>
<td>March 9:</td>
<td>Will suspend the payment of sales taxes due at the end of March (for four months) of social security contributions by companies (until June 30).</td>
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<td>March 17:</td>
<td>Announced a package of up to 2 billion euros ($2.20 billion) to support businesses following the COVID-19 outbreak</td>
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<td>March 17:</td>
<td>The Hellenic Bank Association will offer businesses hit by the COVID-19 crisis a six-month freeze on loan payments as part of relief efforts to help borrowers deal with the economic shutdown.</td>
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<td>March 30:</td>
<td>Announced new tax breaks and economic assistance to thousands of businesses and workers to buffer its economy from a national lockdown triggered by the COVID-19 pandemic. The support measures include a one-off benefit for 1.7 million, or 81% of private sector workers whose jobs are temporarily suspended and payment of their social security contributions for 45 days, extend financial aid for the self-employed, and suspend VAT and tax arrear payments for 800,000 businesses.</td>
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<td>Guatemala</td>
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<td>March 29:</td>
<td>The government announced that it would use nearly $26 million from an emergency fund to help the country’s neediest families, as measures to combat the spread of a COVID-19 impact on the economy and jobs. It plans to withdraw 200 million quetzals ($25.8 million) from the emergency fund and give families 1,000 quetzals ($129) to help pay for electricity, water and supplies.</td>
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<td>Hong Kong</td>
<td>Hong Kong Monetary Authority</td>
<td>March 3:</td>
<td>Lowered its base rate charged through the overnight discount window by 50 basis points to 1.5% after the U.S. Federal Reserve delivered a rate cut of the same margin.</td>
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<td>March 16:</td>
<td>Lowered its base rate charged through the overnight discount window to 0.86%, after the U.S. Federal Reserve delivered a rate cut. It also cut the level of capital buffers it requires financial institutions to hold to 1% from 2% of their risk-weighted assets to help companies and lenders weather the impact of the COVID-19 outbreak.</td>
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<td>Government of Hong Kong</td>
<td>February 26:</td>
<td>Announced a HK$120 billion ($15.4 billion) relief package as part of its 2020-2021 budget, including a payment of HK$10,000 ($1,200) to each permanent</td>
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resident of the city 18 or older, paying one month’s rent for people living in public housing, cutting payroll, income, property, and business taxes, low-interest, government-guaranteed loans for businesses, and an extra month’s worth of payments to people collecting old-age or disability benefits.

### Hungary

**Hungarian National Bank**

**March 16:** Announced emergency steps to help businesses, boosting the range of collateral it accepts from banks and calling on lenders to apply a loan repayment moratorium for firms hit by the coronavirus economic fallout. (It said in a statement that performing corporate loans in domestic banks’ balance sheets totaled close to 3.6 trillion forints, and that it would apply a 30% haircut on those, boosting the range of collaterals that can be used and thus also lifting banks’ lending potential by more than 2.5 trillion forints ($8.10 billion)). It also offered to inject forint liquidity into the banking system via foreign exchange swaps.

**March 18:** Urged domestic banks to introduce a moratorium on household loan repayments considering the “extraordinary situation” due to the coronavirus crisis, and that if banks did not bring in the measure, the Bank would ask the government to pass a decree enforcing it. It also announced that it was considering restarting its mortgage note buying program to provide more long-term liquidity for the banking system and reduce the financing costs of household loans.

**March 24:** Launched new measures to boost liquidity and flagged further steps if needed to prevent long-term damage to the economy from the coronavirus pandemic. It moved to pump more money into the banking system by introducing a massive fixed-rate collateralized loan instrument. Lending will be provided to banks at a fixed interest rate in unlimited quantity, to support bank lending and also government bond purchases. It also released domestic lenders from the requirement to hold a certain level of cash as reserves.

**April 1:** Announced its collateralized loan tenders, offering liquidity to banks at a fixed rate of 0.9% on various maturities, and that it would offer them to domestic open-ended investment funds, in order to support the government securities market and the real estate market and help offset the fallout from the coronavirus pandemic.

**Government of Hungary**

**April 4:** Created a $2 billion special fund to aid the fight against COVID-19 and it will include contributions from banks and foreign retailers. Hungarian banks will be expected to pay 55 billion forints ($163 million) in the fund this year, with multinational retailers adding 36 billion forints. Local governments will have to divert vehicle taxes amounting to a total of 34 billion forints to the fund, while political parties will pay half of their central budget revenue to the fund for a total of 1.2 billion forints.

**April 6:** Announced a stimulus package, which includes subsidized loans to Hungarian companies and funds to preserve jobs. It would amount to 18%-20% of gross domestic product (GDP), including National Bank of Hungary programs. The prime minister said that the government was ready to pay some of the wage costs of companies forced to cut working hours, would support investments with 450 billion forints ($1.3 billion), and would provide targeted support for sectors such as tourism, the food industry, and construction. Subsidized loans to companies will total more than 2 trillion forints, while pensioners will get one month’s extra pension to be disbursed in four tranches from early 2021.

### Iceland

**The Central Bank of Iceland**

**March 11:** Cut its benchmark interest rate by 50 basis points to 2.25%, as it tries to alleviate the potential impact of the COVID-19 on its tourism-dependent economy. It will also lower deposit institutions’ average reserve requirement to 0% from 1% to ease banks’ liquidity positions.

**March 18:** Cut its key interest rate for the second time in a week by 50 basis points to 1.75% and reduced the banks’ countercyclical capital buffer to 0% from 2%.
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<tbody>
<tr>
<td>Government of Iceland</td>
<td><strong>March 10:</strong> Announced an action plan to respond to the economic impact of COVID-19, which includes deferring taxes and levies, providing temporary relief to the tourism industry, and accelerating ongoing and planned infrastructure projects.</td>
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<tr>
<td>Government of Iceland</td>
<td><strong>March 21:</strong> Announced a 230-billion-krona ($1.6 billion) package (8% of gross domestic product) to cushion the impact of COVID-19 on the economy. It includes state guarantees on bridge loans to businesses and the payment of as much as 75% of an employee’s lost salaries over the next two-and-a-half months. In addition, public projects worth 20 billion krona will be moved forward to this year and tax breaks for banks will be implemented sooner than originally planned.</td>
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<tr>
<td>India</td>
<td><strong>Reserve Bank of India</strong></td>
<td><strong>March 12:</strong> Announced a $2 billion injection into the foreign-exchange market to support the rupee. <strong>March 13:</strong> Announced a plan to add liquidity through short-term repurchase operations. <strong>March 14:</strong> Plans to infuse 250 billion rupees ($3.4 billion) into the system through short-term repurchase operation. <strong>March 19:</strong> Announced that it will buy bonds on the open market for a total of 100 billion Indian rupees ($1.35 billion) due to mature between 2022 and 2025 to try to keep all market segments liquid and stable. <strong>March 27:</strong> Lowered its benchmark repo rate by 75 basis points to 4.40% and announced several other steps to tackle the impact of COVID-19 on various industries from the lockdown, some of which include cutting banks’ cash reserve ratio and targeted long term repos operations. The reverse repo rate was reduced by 90 basis points to 4%.</td>
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<td>Government of India</td>
<td><strong>March 15:</strong> Pledged $10 million towards South Asian Association for Regional Cooperation (SAARC) “COVID-19 emergency fund.” <strong>March 15:</strong> Is reportedly “pushing” state-run banks to approve new loans amounting to 500 billion-600 billion rupees by the end of March. <strong>March 26:</strong> Announced a 1.7-trillion-rupee ($22.6 billion) economic stimulus plan providing direct cash transfers and food security measures to give relief to millions of poor people hit by a nationwide lockdown over COVID-19. It will provide direct cash transfers to 200 million women and the elderly, hand out free cooking gas cylinders to 83 million poor families, and help feed about 800 million poor people over the next three months by distributing 5 kilograms of staple food-grains wheat or rice for each person free of cost, with a kilogram of pulses for every low-income family. The government outlined plans for medical insurance cover of 5 million rupees ($66,000) for every frontline health worker, from doctors, nurses and paramedics to those involved in sanitary services.</td>
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<td>Indonesia</td>
<td><strong>Bank Indonesia (Bank Sentral Republik Indonesia)</strong></td>
<td><strong>February 20:</strong> Cut the seven-day reverse repurchase rate by 25 basis points to 4.75%. <strong>March 19:</strong> Cut the seven-day reverse repurchase rate by 25 basis points to 4.50% and indicated that it will intensify intervention to ensure market confidence and liquidity. It has purchased government bonds to combat capital outflows amid the COVID-19 epidemic, including 27 trillion rupiah ($2 billion) on February 20 and 6 trillion rupiah ($405 million) on March 13, adding to 8 trillion rupiah of bonds purchased March 12.</td>
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**March 25:** Announced with the country’s financial regulator that currency market and stock trading hours will be limited next week as part of efforts to contain the spread of COVID-19.

**Government of Indonesia**

**February 25:** Announced a stimulus package worth 10.3 trillion rupiah ($742.6 million) to protect its economy from the impact of the COVID-19 outbreak. It includes 4.6 trillion rupiah in subsidies for basic needs for poor households, 1.5 trillion rupiah for the state property financing program, 443.4 billion rupiah for airlines and travel agents, 298.5 billion rupiah to bring in foreign tourists, 3.3 trillion rupiah cover for shortfalls in regional budgets, and fiscal transfers (147 billion rupiah).

**March 13:** Announced a 120 trillion rupiah ($8.1 billion) stimulus package to support the economy, of which 22.9 trillion rupiah will be tax breaks, lasting six months starting in April. The government is also exempting companies in 19 manufacturing sectors from having to pay import taxes, while giving them a 30% corporate tax discount, relaxing rules for exports (e.g., fisheries and forestry products) and imports (e.g., steel, sugar, flour and salt), and easing rules on loan restructuring for small- and medium-sized companies.

**March 17:** Ordered the Finance Minister to divert 40 trillion rupiah ($2.7 billion) from the non-urgent government budget to increase spending in programs that could provide direct support to household consumption or increase people’s purchasing power.

**March 31:** Announced a national public health emergency and that it would spend 405.1 trillion rupiah ($24.85 billion) more on COVID-19 response, social welfare programs, and economic stimulus, including a 3 percentage point cut in corporate tax rates to 22%.

**Iran**

**Central Bank of Iran**

**February/March:** Indicated that it would help small businesses affected by the COVID-19 outbreak by providing tax breaks and allowing defaults on bank loans for several months.

**March 12:** Requested $5 billion emergency funding from the International Monetary Fund’s Rapid Financing Instrument to help Iran fight the COVID-19 outbreak.

**March 17:** Allocated at least 250 million euro to import medicine and medical equipment required to fight COVID-19.

**Government of Iran**

**March 12:** Asked the United Nations to allocate resources to help it tackle COVID-19 and facilitate imports as a way of boosting the country’s sanctions-hit healthcare system.

**March 15:** Announced a series of banking, welfare and tax relief measures to support businesses and families as the COVID-19 outbreak puts severe strain on the economy. Employees will be able to defer health insurance, tax and utility bill payments for the next three months, while the 3 million poorest Iranians will receive an additional cash subsidy starting March 17, 2020.

**March 23:** The European Union’s High Representative of the Union for Foreign Affairs and Security Policy (Josep Borrell) announced that the EU would provide 20 million euros in humanitarian aid to Iran to help alleviate the COVID-19 and support Iran’s request for IMF financial help.

**March 26:** President Hassan Rouhani wrote to Supreme Leader Ayatollah Ali Khamenei requesting permission to withdraw $1 billion from the country’s sovereign wealth fund (the National Development Fund) to support the healthcare system, which is overstretched by the COVID-19 outbreak.

**March 28:** Announced that it would allocate 20% of its annual state budget to fighting the pandemic in the country. The budget allocation, amounting to about 1,000 trillion rials, would include grants and low-interest loans to those affected by COVID-
Global Economic Effects of COVID-19

<table>
<thead>
<tr>
<th>Country</th>
<th>Action</th>
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<tbody>
<tr>
<td>Iran</td>
<td>Rouhani said. While the allocated amount is worth some $6.3 billion at the rial’s free market exchange rate of about 160,000 rials per dollar, the government may decide to allocate some of the funds at the official rate of 42,000 (which is used to subsidize food and medicine).</td>
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<tr>
<td>Ireland</td>
<td><strong>March 9:</strong> The government announced that it will set aside 3 billion euros ($3.44 billion) to provide additional funding to the health service (435 million euros), boost workers’ sick pay and benefits (2.4 billion euros), and offer liquidity assistance to businesses affected (200 million euros).</td>
</tr>
</tbody>
</table>
| Israel  | **Bank of Israel**

**March 18:** Announced it would allocate up to $15 billion for swap transactions between currencies for domestic banks, part of a move aimed at shoring up the Israeli economy amid the COVID-19 pandemic.

**April 6:** Cut its benchmark interest rate to 0.1% from 0.25%, its first rate cut in five years, expanded its repo transactions so that the agreements can include corporate bonds—in addition to government bonds—as security, and will provide loans to banks for a term of three years (with a fixed interest rate of 0.1%) with the goal of increasing the supply of bank credit to small businesses. The size of the plan will be 5 billion shekels.

**Government of Israel**

**March 9:** The Finance Ministry announced that it was opening a 4 billion-shekel credit line for banks to lend money to small and medium-sized businesses facing a cash crisis with a high-level government guarantee.

**March 11:** Will expand an aid package (for a second time) to help the country deal with the COVID-19 outbreak by 6 billion shekels to a total of 10 billion shekels ($2.8 billion). Of that, 8 billion shekels will be in a fund to provide cheap loans to businesses, 1 billion shekels will boost the health system by increasing medicine stocks and preparing hospitals to receive a larger number of patients, and 1 billion will be earmarked for needs such as the police force.

**March 16:** Will expand its aid package (for a third time) to help businesses hurt by the COVID-19 crisis by another 5 billion shekels ($1.3 billion).

**March 30:** Announced that it will spend 80 billion shekels ($22 billion) to help the economy weather the COVID-19 crisis—70 billion shekels in addition to 10 billion already promised to boost welfare services for those who have lost their jobs or are on unpaid leave and to assist the private sector. It includes a 20-billion-shekel social safety net, with stipends for those who lost income; 40 billion shekels earmarked to assist businesses with tax breaks, loans, and other services; about 10 billion for the healthcare system; and nearly 8 billion will be spent to speed up the recovery.

| Italy   | **March 11:** Announced two packages worth 25 billion euros ($28.3 billion): A package worth 12 billion euros will provide extra funding for the health system as well as a mix of measures to help companies and households, including freezing tax and loan payments and boosting unemployment benefits to ensure no jobs were lost. The remainder will be a reserve to pay for any further measures. The government also indicated that payments on mortgages will be suspended across Italy. ABI, Italy’s banking lobby, said lenders would offer debt moratoriums to small firms and households grappling with the economic fallout from the virus.

**April 6:** Announced a new emergency decree aimed at granting liquidity and bank loans worth more than 400 billion euros to companies hit by COVID-19. The new legislation, combined with a previous stimulus package in March, would allow banks to offer credit totaling over 750 billion euros ($809.78 billion).

| Japan   | **Bank of Japan**

**March 16:** Announced that it would (1) double its upper limit of annual purchases of exchange traded funds to 12 trillion yen ($112.46 billion) and of real-estate investment trusts to 180 billion yen ($1.7 billion) per year, (2) expand its upper limit...
of its corporate bond balance and commercial paper balance by 1 trillion yen ($9.5 billion) each, and (3) start a lending program for commercial banks, providing them with one-year loans in exchange for corporate collateral worth 8 trillion yen ($75.6 billion).

**Government of Japan**

**February 13:** Unveiled a set of measures worth 15.3 billion yen ($140 million) to fight the spread of COVID-19; secured 500 billion yen ($4.7 billion) for emergency lending and loan guarantees at the Japan Finance Corporation and other institutions for small businesses hit hard by the virus outbreak.

**March 10:** Unveiled a second package of measures totaling 430.8 billion yen ($4.1 billion) in spending to cope with the fallout of the COVID-19 outbreak (focusing on support to small and mid-sized firms) and boosted to 1.6 trillion yen ($15.1 billion) its special financing for small- and mid-size firms hit by the virus, up from 500 billion yen.

**March 23:** Announced that it is working on a package of measures to combat the widening economic fallout from the COVID-19 that will involve direct fiscal spending exceeding 15 trillion yen ($137 billion). Including loans and other steps that does not include direct spending, the size of the package may exceed 30 trillion yen.

**April 6:** Announced a 108 trillion yen ($989 billion, equivalent to 20% of gross domestic product) stimulus package, Japan’s largest ever, to rescue the COVID-19-hit economy. It will include cash handouts worth 6 trillion yen for households and small businesses hit by the virus and offers businesses deferrals on tax and social service costs worth 26 trillion yen. The first phase of the package aims to stop job losses and bankruptcies, while a second round of aid, after the virus is contained, will try to support a V-shaped economic recovery.

<table>
<thead>
<tr>
<th>Country</th>
<th>Monetary Authority</th>
<th>Action</th>
<th>Details</th>
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<tbody>
<tr>
<td>Kazakhstan</td>
<td>National Bank of Kazakhstan</td>
<td>April 3</td>
<td>Cut its policy rate to 9.5% from 12.0% in an unscheduled move aimed at boosting economic growth.</td>
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<tr>
<td>Government of Kazakhstan</td>
<td>March 23</td>
<td>The president ordered state-owned companies to start selling part of their foreign currency revenue on the domestic market to support the local tenge currency (and to pay out up to 100% of last year’s profits in dividends) in order to soften the impact of the oil price crash and the COVID-19 outbreak on the economy. He also ordered a standstill on bank loan repayments by individuals and small- and medium-sized businesses for the duration of the state of emergency, announced that the government would pay 42,500 tenge ($95) per month to people who have lost their source of income, was delaying tax payments for small businesses, and stood ready to more than triple spending on a program to provide temporary employment through infrastructure maintenance and construction projects. Together with soft loan program and other spending, the volume of the stimulus package is expected to reach $10 billion.</td>
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<tr>
<td>Kenya</td>
<td>Central Bank of Kenya</td>
<td>March 23</td>
<td>Cut its benchmark lending rate by 100 basis points to 7.25% and lowered the cash reserve ratio for commercial banks to 4.25% from 5.25%. The move to lower the cash ratio is expected to release an extra 35.2 billion shillings ($330.83 million) for banks to lend to customers trying to deal with the outbreak.</td>
</tr>
<tr>
<td>Government of Kenya</td>
<td>March 16</td>
<td>The World Bank announced that it is making $60 million available to Kenya’s health sector to help it deal with the COVID-19 outbreak.</td>
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<tr>
<td>March 24</td>
<td>Announced that it will seek emergency assistance from the IMF of up to $350 million, and $750 million from the World Bank, release 49 billion shillings ($460 million) for small and medium businesses to help them cope with the impact of the COVID-19 outbreak.</td>
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<td>Country</td>
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<tr>
<td>Kuwait</td>
<td>Central Bank of Kuwait</td>
<td>March 16: Cut by 100 basis points its deposit rate to 1.5% and its overnight, one-week, and one-month repo rates to 1%, 1.25%, and 1.75%, respectively.</td>
<td>Increased the repo rate to 1%, 1.25%, and 1.75%, respectively.</td>
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<td>April 2: Announced a stimulus package to support vital sectors and small and medium enterprises (SMEs) amid the fallout from the COVID-19 pandemic.</td>
<td>Cut capital adequacy requirements by 2.5%, eased the risk weighting for SMEs to 25% from 75%, raised the maximum lending limit to 100% from 90%, and increased the maximum financing for residential real estate developments to the value of the property or the cost of development. The measures are expected to raise banks’ lending capacity by 5 billion dinars ($16 billion).</td>
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<tr>
<td>Kuwait</td>
<td>Government of Kuwait</td>
<td>April 1: Announced measures aimed at shoring up its economy against the pandemic, including soft long-term loans from local banks to provide liquidity for small and medium-sized enterprises and directing government agencies to pay obligations to the private sector as soon as possible.</td>
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<tr>
<td>Malaysia</td>
<td>Government of Malaysia</td>
<td>February 27: Announced the “Economic Stimulus Package 2020” to mitigate the economic impact of COVID-19, improve the cash flow of affected businesses, stimulate private consumption, and accelerate domestic investment activities. It includes exempting accommodation services from services tax, providing sales tax exemptions, and lifting duties on certain imports.</td>
<td>Exempted accommodation services from services tax, providing sales tax exemptions, and lifting duties on certain imports.</td>
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<td>March 27: Announced a stimulus package worth 250 billion ringgit ($58.28 billion), its second in a month, to help cushion the economic blow from the pandemic.</td>
<td>Includes a 25 billion ringgit direct fiscal injection by the government aimed at helping families and business owners; one-off payments and discounts on utilities for people whose livelihoods have been affected; 1 billion ringgit for a food security fund; and a 50 billion ringgit loan scheme for larger companies, which will offer guarantees of up to 80% of the sum borrowed to shore up working capital in the corporate sector.</td>
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<tr>
<td>Mauritius</td>
<td>The Bank of Mauritius</td>
<td>March 10: The Bank of Mauritius cut its key repo rate by 50 basis points to 2.85% amid the COVID-19 outbreak, which is expected to have a significant impact on the domestic economy.</td>
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<tr>
<td>Mexico</td>
<td>Banxico (Bank of Mexico)</td>
<td>February 13: Cut its key rate by 25 basis points to 7.0%.</td>
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<td>March 19: Lowered its benchmark interest rate by 50 basis points to 6.50% in an out-of-cycle cut in a bid to support the country’s financial markets, reduced the rates on its additional ordinary liquidity facility, and cut by 50 billion pesos ($2.06 billion) the monetary regulation deposit that private banks must observe.</td>
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<td>Moldova</td>
<td>National Bank of Moldova</td>
<td>March 4: Cut its main interest rate by 100 basis points to 4.50%, citing the domestic disinflationary trend and global economic concerns related to the COVID-19 outbreak.</td>
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<td>March 20: Cut its main interest rate for the second time in March to 3.25% from 4.50% in order to support banking system amid markets volatility due to the COVID-19 spread.</td>
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<tr>
<td>Country</td>
<td>Action 1</td>
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<td>Action 3</td>
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<tr>
<td>Mongolia</td>
<td>March 11: The Central Bank of Mongolia cut its policy rate 100 basis points to 10.0% in response to increased uncertainties in connection with the spread of COVID-19. It also lowered the reserve requirement on banks.</td>
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<td>Morocco</td>
<td>March 15: Morocco’s King Mohammed VI ordered the creation of a 10 billion-dirham ($1 billion) fund to upgrade health infrastructure, help vulnerable economic sectors such as tourism, maintain jobs, and mitigate the social repercussions of the outbreak.</td>
<td>March 17: Bank Al-Maghrib (Central Bank of the Kingdom of Morocco) cut its benchmark interest rate by 25 basis points to 2% in order to help shore up economic activity following a drought and the outbreak of COVID-19.</td>
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<tr>
<td>Netherlands</td>
<td>Government of the Netherlands</td>
<td>March 12: Announced that it would expand loan guarantees for small and medium-sized enterprises, from 50% to 75%.</td>
<td>March 12: The Tax Authority will allow companies affected by COVID-19 to defer income, corporate, turnover, and wage taxes for the time being.</td>
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<tr>
<td>New Zealand</td>
<td>Reserve Bank of New Zealand</td>
<td>March 16: Cut the official cash rate by 75 basis points to a record low of 0.25%, and pledged to keep it at this level for at least 12 months.</td>
<td>March 22: Announced that it will purchase up NZ$30 billion ($17 billion) of government bonds in the secondary market over the next 12 months. It will seek to buy NZ$750 million bonds a week across a range of maturities, via an auction process.</td>
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<td>March 24: Reduced banks’ core funding ratios to 50% from 75% to help banks make credit available.</td>
<td>March 30: Announced that it was deploying more tools to provide additional liquidity to the corporate sector and support market functioning to offset the impact of the pandemic. A new weekly Open Market Operation—to be held each Tuesday—will provide liquidity in exchange for eligible corporate and asset-backed securities by offering up to NZ$500 million ($300 million) for terms out to approximately three months, starting on March 31. The bank also will offer to purchase government bonds maturing on May 15, 2021, for liquidity management purposes.</td>
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<tr>
<td>Norway</td>
<td>Norges Bank</td>
<td>March 13: Cut its key interest rate to 1% from 1.5%, as it seeks to counter the economic impact of the COVID-19 pandemic. It indicated that it would offer funding to banks to help counter the volatility in financial markets and announced that banks'</td>
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</table>
countercyclical capital buffer would be reduced from 2.5% to 1%, to help banks continue to lend money.

**March 20**: Cut its key policy rate by 75 basis points to 0.25% from 1.0% in a bid to alleviate the economic impact from the COVID-19 outbreak. It also offered a third batch of extraordinary loans to the banking industry to ensure it has enough for the months ahead.

**March 30**: Increased its planned issuance of government bonds this year to between 70 billion and 85 billion Norwegian crowns ($6.68 billion-$8.11 billion) from an original plan of 55 billion crowns, following the government’s decision to offer loans worth tens of billions of crowns in emergency funding to companies hurt by the coronavirus outbreak.

**March 31**: Will increase further its daily purchase of Norwegian currency to 2 billion crowns ($190 million) per day from 1.6 billion crowns in order to make funds available for the government’s fiscal budget. (On March 18, it announced that it would increase it to 1.6 billion Norwegian crowns per day from 500 million crowns.)

**Government of Norway**

**March 13**: Announced that it would pay a greater part of the bill for all companies seeking to make temporary layoffs, suspended all airport fees for the first six months of 2020, and lifted for a period of 10 months the tax charged for each passenger.

**March 15**: Announced that it would offer companies at least 100 billion Norwegian crowns ($9.7 billion) in funding in the form of loan guarantees (50 billion crowns to small and medium sized companies seeking bank loans) and bond issues (50 billion crowns to large firms issuing corporate bonds). In addition, payments of payroll taxes will be postponed.

**March 20**: Presented legislation that would temporarily reduce the value-added tax, postpone tax filing deadlines and add worker and business protections under a 280 billion kroner ($24 billion) plan to boost the economy amid the pandemic. Along with the tax provisions, the legislative package includes two previously announced lending programs that the government said would provide up to 100 billion kroner in support for Norwegian businesses, improving their access to credit to ensure liquidity.

**March 27**: Proposed new measures to support businesses hit by the viral outbreak and a sharp fall in the price of oil. They include, among other things, covering fixed costs for companies affected by the coronavirus outbreak at a cost of 10 billion to 20 billion Norwegian crowns ($958 million to $1.92 billion) per month for two months.

**March 18**: The Central Bank of Oman announced that it will provide about 8 billion Omani rials ($20.8 billion) in extra liquidity to banks as one of several measures aimed at supporting the economy. It also asked banks to cut banking fees, adjust capital and credit ratios, allow repayment postponements for up to six months, and facilitate lending, particularly in sectors affected by the COVID-19, including healthcare, travel and tourism.

**March 17**: Cut its key interest rate by 75 basis points to 12.50% in response to the anticipated slowdown due to COVID-19, provided additional support to investment, offering a new package of 100 billion rupees ($630.5 million) for investment in the manufacturing sector to fund investors at 7% for 10 years, and announced that it would refinance banks to provide 5 billion rupees ($31.5 million) at a maximum of 3% for the purchasing of equipment used to fight the COVID-19.

**March 24**: Cut its benchmark interest rate for the second time in a week, lowering it by 150 basis points to 11% amid considerable uncertainty about how the COVID-19 outbreak would impact the global economy and Pakistan.

**Government of Pakistan**

**March 24**: Announced a financial-relief package of more than 1 trillion rupees ($6.3 billion) to support the economy and poorer workers. It will include help to the
export and industry sectors, tax breaks, procurement of medical and other equipment required to fight the pandemic, and the distribution of a monthly cash stipend among the poor.

<table>
<thead>
<tr>
<th>Country</th>
<th>Institution</th>
<th>Event Date</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Paraguay</td>
<td><strong>Central Bank of Paraguay</strong></td>
<td><strong>March 13</strong></td>
<td>Cut its benchmark interest rate by 25 basis points to 3.75%, as part of a series of measures aimed at dealing with the impact of the COVID-19 outbreak. Banks’ reserve requirements will also be reduced to help the financial sector refinance debts.</td>
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<td><strong>Government of Paraguay</strong></td>
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<td><strong>March 13</strong>: Announced tax relief measures, as well as $150 million of credit lines in state banks and loans from multilateral agencies.</td>
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<td>Peru</td>
<td><strong>Central Reserve Bank of Peru</strong></td>
<td><strong>March 19</strong></td>
<td>Cut its benchmark interest rate by 100 basis points to 1.25%, from 2.25% to counter the economic impact of the COVID-19 pandemic and announced that, if necessary, could employ other additional liquidity injection instruments to alleviate the crisis.</td>
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<td><strong>March 29</strong></td>
<td>Announced that that as part of the 90 billion soles stimulus plan announced on March 29, the Bank would inject 30 billion soles into banks for loans to mainly smaller companies to help cover their working capital.</td>
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<td><strong>April 2</strong>: Announced that it is preparing a major bond issuance to help underwrite an unprecedented stimulus package to counter the economic impact of the fast-spreading pandemic.</td>
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<td><strong>Government of Peru</strong></td>
<td><strong>March 29</strong></td>
<td>Announced that it is planning an economic stimulus package worth around 90 billion soles ($26.41 billion or 12% of gross domestic product) to support citizens and the key mining sector that have been impacted by COVID-19. It will have three phases of 30 billion soles each: containing the disease, ensuring companies’ payment chains by granting credit guarantees, and reactivating production, particularly in the copper industry.</td>
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<tr>
<td>Philippines</td>
<td><strong>Central Bank of the Philippines (Bangko Sentral ng Pilipinas)</strong></td>
<td><strong>March 19</strong></td>
<td>Cut the rate on its overnight reverse repurchase facility by 50 basis points to 3.25%, authorized a temporary relaxation of regulations on compliance reporting by banks, calculations of penalties on required reserves and single borrower limits, and approved a temporary reduction to zero of the term spread on rediscounting loans relative to the overnight lending rate.</td>
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<td><strong>March 23</strong></td>
<td>Revealed it would purchase up to 300 billion Philippine peso ($5.9 billion) worth of short-term securities under a repurchase agreement with the Bureau of the Treasury in a bid to inject a fresh round of liquidity into the market and to keep a lid on interest rates in the process.</td>
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<td><strong>March 24</strong></td>
<td>Announced a 200 basis points reduction in the reserve requirement ratio (RRR) to calm financial markets and boost lending. The cut, effective March 30, will bring the ratio to 12% and ensure there is sufficient liquidity to counter the economic impact of the COVID-19 outbreak.</td>
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<td><strong>Government of the Philippines</strong></td>
<td><strong>March 13</strong></td>
<td>Instructed the Government Service Insurance System and the Social Security System “to take advantage of the low stock prices” and “support the stock market by at least doubling their daily average purchase volumes” from 2019.</td>
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<td><strong>March 16</strong></td>
<td>The government announced a 27.1-billion peso package to help fight the COVID-19 pandemic and provide economic relief to affected sectors.</td>
</tr>
</tbody>
</table>

**Global Economic Effects of COVID-19**

Congressional Research Service 113
**March 17:** The Philippine Stock Exchange halted all stock, bond and currency trading until further notice, after President Rodrigo Duterte placed Luzon, the country’s economic powerhouse, under “enhanced community quarantine.”

**March 22:** The Philippine Congress is reportedly drafting a stimulus package of at least 200 billion pesos ($3.9 billion) as part of a supplemental budget to shore up the economy from the impact of the COVID-19 outbreak.

**March 19:** The Philippine Stock Exchange reopened with shortened hours.

### Poland

**National Bank of Poland**

**March 17:** Cut its benchmark interest rate by 50 basis points to 1.0% from 1.5% in response to the COVID-19 pandemic; it also lowered its lombard rate to 1.50% from 2.50% and the rediscount rate to 1.05% from 1.75%, reduced banks’ required reserve ratios to 0.5% from 3.5%, announced plans to boost banking sector liquidity (through the extension of repo operations), and offered “large-scale” purchases of government bonds as part of its open-market operations.

**Government of Poland**

**March 18:** Announced an economic stimulus package of 212 billion zloty ($52 billion, or approximately 9% of gross domestic product) to assist entrepreneurs and employees during the COVID-19 crisis. It consists of 5 pillars: employee safety, company financing, health protection, strengthening the financial system, and a public investment program. Specific measures include holidays in debt repayments and social contributions, loan guarantees, as well as payments of salaries to those unable to work.

**March 26:** Announced that the state bank BGK will issue bonds worth around 16 billion zlotys ($3.9 billion) in 2020-2021 as part of a wider plan to combat the coronavirus impact on the economy. The state will buy the bonds back in 2021-2025, spending around 2.5 billion zlotys a year in the first year and then around 3.7 billion zlotys annually.

### Portugal

**Government of Portugal**

**March 13:** Announced a 2.3 billion-euro package that will include delaying some tax payments and granting soft loans. Companies will be allowed to suspend social security payments and maintain employees’ contracts with payments equal to two-thirds of salaries, funded largely by the state, and workers who have to stay at home to care for school children of up to 12 years of age will receive 66% of their base salaries.

**March 18:** Announced a 9.2 billion-euro package to support workers and provide liquidity for companies affected by the COVID-19 outbreak. It consists of 5.2 billion euros in fiscal stimulus, 3 billion in state-backed credit guarantees, and 1 billion related to social security payments. (Just over half of the 3 billion euros in credit lines announced is aimed at companies working in tourism, hotels and restaurants. The other half goes to industries like textiles, clothing and wood. Around a third is set aside for micro and small enterprises.)

### Qatar

**Qatar Central Bank**

**March 16:** Cut the deposit rate by 50 basis points to 1%, lending rate by 100 basis points to 2.50%, and repurchase rate (repo) by 50 basis points to 1%.

**Government of Qatar**

**March 15:** The Emir of Qatar announced several measures to shield the economic and financial sectors in the country from the impact of the COVID-19, including (1) allocating 75 billion Qatari riyals ($20.6 billion) to support and provide financial and economic incentives in the private sector, (2) directing the Central Bank of Qatar to provide additional liquidity to banks operating in the country and putting in place the appropriate mechanism to encourage banks to postpone loan installments and obligations of the private sector with a grace period of six months, (3) directing the Qatar Development Bank to postpone the installments for all borrowers for a period
of six months, (4) directing the government to increase its investments in the stock exchange by 10 billion Qatari riyals ($2.75 billion), (5) exempting food and medical goods from customs duties for a period of six months, and (6) exempting the various sectors of the economy from electricity and water fees for a period of 6 months.

**Romania**

**March 20:** The National bank of Romania cut its benchmark interest rate by 50 basis points to 2.0% in order to curb the economic fallout from the COVID-19 outbreak. It also cut its lending rate facility to 2.50% from 3.50% and will provide liquidity to banks via repo transactions and purchase leu-denominated debt on the secondary market.

**Saudi Arabia**

**March 15:** Announced that it had prepared a 50 billion riyal ($13.32 billion) package to help small and medium-sized enterprises cope with the economic impacts of COVID-19; it also lowered by 75 basis points both its repo rate to 1%, and its reverse repo rate to 0.5%.

**Government of Saudi Arabia**

**March 20:** Introduced an additional stimulus package worth 120 billion riyals ($32 billion) to aid businesses, including the postponement of value-added tax (VAT), excise tax, and income tax payments for a period of three months and exemptions of various government levies and fees.

**March 30:** Announced that it will finance treatment for anyone infected with COVID-19 in the country, and took steps to boost wheat and livestock supplies amid global fears of a food shortage.

**Serbia**

**March 11:** Cut its reference interest rate by 50 basis points to 1.75% to help minimize economic disruption caused by the COVID-19 outbreak.

**Government of Serbia**

**March 29:** Announced that it plans to offer about 5 billion euros ($5.54 billion) in loans and subsidies to businesses to help them cope with the economic impact of COVID-19 and make a one-time payment of 100 euros to every citizen older than 18. The president indicated that the state would use 700 million euros to pay minimum wages of 30,367 dinars ($288.58) and allow tax delays for micro and small enterprises for the three months after the end of the state of emergency to avoid job loss.

**Seychelles**

**March 24:** The Central Bank of Seychelles cut its monetary policy rate by 100 basis points to 4.0%, indicating that this was the first phase of its response to the challenge from the spread of the COVID-19, which is expected to lower this year’s earnings from tourism by 70% and trigger a double-digit drop in economic growth.

**Singapore**

**March 30:** Announced that it would adopt a 0% per annum rate of appreciation of the policy band starting at the prevailing level of the Singapore Dollar Nominal Effective Exchange Rate (S$NEER), currently slightly below the mid-point of the policy band.

**Government of Singapore**

**February 18:** Announced around $4.5 billion in financial packages to help contain the COVID-19 outbreak, including $575 million to fight and contain the disease, mainly through healthcare funding, and 4 billion in economic stimulus measures to manage its impact on businesses, jobs and households.

**March 26:** Unveiled stimulus plan worth around S$48 billion ($33.7 billion) to deal with the economic fallout from COVID-19 (of which S$17 billion will be drawn from the national reserves). A key part of the stimulus package involves ramping up a jobs support scheme first announced in February. The government will now offset up to
25% of the first S$4,600 of workers’ monthly wages for a nine-month period (up from the 8% quantum and S$3,600 cap announced in February), while self-employed workers will be eligible to receive monthly payments of S$1,000 for nine months. Some hard-hit sectors will receive additional support: the government would offset up to 50% of wages in the food services sector and up to 75% of wages in the aviation and tourism sectors. A previously announced cash payout to all adult Singaporeans would be tripled and low-income families will also receive grocery vouchers.

**Slovakia**

**Government of the Slovak Republic**

**March 29:** Announced plans for an aid package of up to 1 billion euros a month to help firms and employees hurt by the pandemic. Under the plan, the state would (1) pay 80% of wages for employees at firms forced to shut, (2) help self-employed people and employees in firms that suffer falling revenue, with payments linked to the size of the revenue drop, (3) allow employers to postpone their contributions to state social and health systems and delay some tax payments if they suffer a 40% drop in revenue; (4) allow firms to offset accumulated losses from past years going back to 2014 against corporate income tax, and (5) offer firms bank guarantees of up to 500 million euros a month.

**South Africa**

**South African Reserve Bank**

**March 19:** Cut its main lending rate by 100 basis points to 5.25% as it sought to offset the drag from the COVID-19 outbreak and the plunge in oil prices.

**March 20:** Announced measures to inject liquidity into local markets, including intraday overnight supplementary repos to provide liquidity support to clearing banks, lowering the standing facilities’ borrowing rate by 100 basis points to 200 basis point below the benchmark repo rate, and lowering the standing facilities’ lending rate to the repo rate from the previous rate of repo plus 100 basis points.

**March 25:** Announced that it would begin buying an unspecified amount of government bonds as part of additional emergency policy measures aimed at easing a severe liquidity crunch triggered by the COVID-19.

**South Korea**

**Bank of Korea**

**March 16:** Cut the seven-day repurchase rate by 50 basis points to 0.75% in an effort to soften the impact of the COVID-19 pandemic on the Korean economy. It also lowered borrowing costs for the bank’s low interest rate loan programs and relaxed collateral rules of its repurchasing operations, to ensure companies can easily and cheaply access credit.

**March 19:** Announced that it will buy government bonds worth 1.5 trillion won ($1.2 billion) to bolster liquidity in the bond market and back short-term liquidity in banks under increased loan demand due to fallout from COVID-19.

**Government of the Republic of Korea**

**March 3:** Announced a 11.7 trillion won ($9.8 billion) stimulus package that includes funding for medical institutions and quarantine efforts, assistance to small- to medium-sized businesses struggling to pay wages to their workers, and subsidies for child care.

**March 17:** The National Assembly approved a supplementary budget worth 11.7 trillion won ($9.4 billion) to help contain COVID-19 and cushion the economic fallout. The government has indicated that it plans to execute at least 75% of its spending within the next two months.

**March 18:** Pledged 50 trillion won ($40 billion) in emergency financing for small businesses and other stimulus measures to help the economy. Some highlights of the package include 12 trillion won in low-interest financing for small firms, 5.5 trillion won in loan guarantees, easing loan terms and suspending interest payments for small businesses. The Bank of Korea reportedly will actively provide liquidity support for around half of the new package.
### March 20:
South Korea’s financial authorities and local banks agreed to set up a bond market stabilization fund worth more than 10 trillion won ($7.9 billion) as part of the country’s efforts to calm financial markets roiled by the spread of COVID-19.

### March 24:
Announced that it would double the planned economic rescue package announced on March 18 to 100 trillion won ($80 billion) to save companies hit by the COVID-19 and put a floor under crashing stocks and bond markets. It includes 29.1 trillion won in loans to small- and medium-sized companies and 20 trillion won will be used to buy corporate bonds and commercial paper of companies facing a credit crunch. As part of the rescue package, the Financial Services Commission will establish a 10.7 trillion won facility set up to stabilize stock markets. It will also commence a bond buying facility in April that will be funded by 84 institutions, including the Bank of Korea, commercial banks and insurers.

### March 29:
Announced that an “emergency disaster relief payment” of up to 1 million won ($820) would be made to all households (except the top 30% by income), totaling some 9.1 trillion won ($7.44 billion). It is also preparing another extra budget worth 7.1 trillion won ($5.80 billion) for parliamentary approval in April, and will exempt some small and medium-sized companies from paying utility bills.

### Spain

#### Government of Spain

**March 12:** Approved the creation of a 2.8 billion euro ($3 billion) aid package to help regional authorities mitigate the economic impact from COVID-19, and announced a 1 billion euro contribution to the health ministry’s budget and 14 billion euros ($15.1 billion) in liquidity for small and medium companies (e.g., small businesses affected by the outbreak would be exempt from paying taxes for six months). It also announced that it would open a 400 million euro credit line to aid the tourism industry.

**March 17:** Unveiled a package of 200 billion euros ($219 billion) to mitigate the effects of COVID-19 (117 billion euros will be mobilized by the state, with the rest coming from private companies). It will include state-backed credit guarantees for companies, loans and aid for vulnerable people, a moratorium on mortgage payments and evictions; the government will also guarantee water, electricity and internet to all people adversely affected.

### Sri Lanka

**March 16:** The Central Bank of Sri Lanka cut the Standing Deposit Facility Rate (SDFR) and the Standing Lending Facility Rate (SLFR) by 25 basis points to 6.25% and 7.25%, respectively, and the Statutory Reserve Ratio (SRR) on all rupee deposit liabilities of licensed commercial banks was reduced by 1 percentage point to 4%.

**March 16:** The Colombo Stock Exchange was closed until March 19, as the government extended the public holiday in a bid to halt the spread of COVID-19 in the country.

**April 3:** The Central Bank of Sri Lanka cut by a further 25 basis points its benchmark interest rates (the Standing Deposit Facility Rate and Standing Lending Facility Rate to 6.00% and 7.00%, respectively), its second such reduction in three weeks, in a move to support the economy amid the coronavirus pandemic.

### Sweden

**Sveriges Riksbank**

**March 13:** Stated that it would lend up to 500 billion crowns ($51 billion) to Swedish companies via banks to shore up credit flows as the epidemic wreaks havoc on financial markets.

**March 16:** Announced that it would buy securities for up to an additional 300 billion Swedish crowns ($31 billion) in 2020 to facilitate credit supply and mitigate the downturn in the economy caused by the COVID-19, reduced the overnight lending rate to banks to 0.2 percentage point above its repo rate (from 0.75 percentage point), and indicated that it would be flexible with the collateral banks can use when they borrow money from the Riksbank, giving lenders more scope to use mortgage bonds as collateral.
### Government of Sweden

**March 16:** Presented a package worth more than 300 billion Swedish crowns ($31 billion) to support the economy in the face of the COVID-19 pandemic. It included measures such as the central government assuming the full cost for sick leave from companies through the months of April and May 2020 and for temporary redundancies due to the crisis, and allowing companies to put off paying tax and VAT for up to a year (retroactive to the start of 2020).

### Switzerland

**Swiss National Bank**

**March 23:** Hiked its foreign currency interventions to their highest level since the Brexit referendum in 2016 in an effort to stem the rise in the franc, which has appreciated as investors sought safe assets while stock markets have plunged during the coronavirus pandemic.

**Government of Switzerland**

**March 13:** Unveiled an emergency economic-aid package of roughly 10 billion francs ($10.5 billion) for workers and small businesses. It includes 8 billion francs for “Kurzarbeit,” or short-time work, and 580 million francs in guaranteed bank loans.

**March 20:** Announced a new 32 billion franc ($32.56 billion) aid package to support companies and workers hit by the widening COVID-19 outbreak. The bulk of the cash (20 billion francs) will go into guarantees for bank loans to companies at “very modest” interest rates. Firms will be able to get loans worth up to 10% of their revenue, to a maximum of 20 million francs. Amounts of 500,000 francs will be paid out immediately and guaranteed by the government. The government’s short-time working scheme would also be extended to fixed-term, temporary workers, and trainees. The package follows one worth 10 billion francs announced on March 13, bringing the total stimulus to 42 billion francs ($42.8 billion).

**March 31:** Announced that it is stepping up its funding plans in response to government measures to cushion the economic impact of the pandemic, doubling the volume of outstanding short-term money market instruments. The Federal Finance Administration (FFA) will increase the outstanding volume of short-term money market instruments, from around 6 billion francs ($6.24 billion) to 12 billion francs, and will once again step up sales of its own Confederation bond holdings.

### Taiwan

**Central Bank of the Republic of China (Taiwan)**

**March 19:** Cut its benchmark rate by 25 basis points to 1.125%, and announced that it would expand the scope of repurchase facility operations and provide banks with T$200 billion ($6.6 billion) of financing to support small and medium sized companies which have been hard hit by the COVID-19 outbreak.

**Government of Taiwan**

**February 25:** Approved a T$60 billion ($2 billion) package to help cushion the impact of the COVID-19 outbreak on its export-reliant economy, including loans for small businesses, subsidies for hard-hit tour agencies, tax cuts for tour bus drivers, and vouchers to spend on food in night markets.

**March 12:** Announced that an additional T$40 billion ($1.33 billion) from the Employment Stabilization Fund and the Tourism Development Fund would be available to stimulate Taiwanese economy.

**March 19:** The president said that the government would help its hard-hit airline industry access T$50 billion in financing, and did not rule out further economic stimulus. 

**March 19:** Authorized its National Stabilisation Fund to intervene and buy stocks on the market, as the island’s bourse continues to fall on COVID-19 worries.

### Thailand

**Bank of Thailand**

**March 20:** Cut its key interest rate by 25 basis points to 0.75%, as the spread of COVID-19 exerted further pressure on the Thai economy.
March 22: Together with the Ministry of Finance and the Securities and Exchange Commission, announced three measures to address liquidity concerns and ensure the functioning of local financial markets: (1) setting up a special facility that allows commercial banks that purchase units in high-quality money market funds or daily fixed-income funds to use them as collateral for liquidity support (initial estimate is 1 trillion baht); (2) creation of a 70-100 billion baht “Corporate Bond Stabilization Fund” that invests in high-quality, newly issued bonds by corporates that cannot fully rollover maturing corporate bonds, and (3) Bank of Thailand will continue to purchase government bonds to provide liquidity to the market.

Government of Thailand

March 10: Approved a stimulus package worth an estimated 400 billion baht ($12.74 billion) to help alleviate the impact of the COVID-19 outbreak. It includes 150 billion baht of soft loans, a 20 billion baht fund to help firms and workers affected, and tax benefits and support for utilities costs.

March 24: Approved a package of stimulus measures worth at least 117 billion baht ($3.56 billion) to try to mitigate the impact of the coronavirus outbreak. The measures include cash handouts worth 45 billion baht for 3 million workers outside the social security system; soft loans worth 60 billion baht; and tax breaks. Separately, small firms will be offered 10 billion baht of loans and business tax payments will be delayed.

March 30: Announced that it is preparing a third stimulus package, worth more than 500 billion baht ($15.3 billion), to alleviate the impact of the coronavirus crisis.

March 31: Agreed to triple the number of workers receiving cash handouts to nine million to help ease the impact of the spreading coronavirus. It had previously planned to provide cash handouts of 15,000 baht ($458) each to 3 million workers, taking the total to 45 billion baht ($1.38 billion). Now its total handout will reach 135 billion baht ($4.13 billion).

Tunisia

Central Bank of Tunisia

March 17: Cut its key interest rate by 100 basis points to 6.75%, as it responded to the negative impact of the COVID-19 on the global growth outlook.

April 1: Asked banks and financial institutions to suspend the distribution of 2019 dividends and allow customers to defer loan payments for three months as part of a package to ease the social and economic effects of the coronavirus.

Government of Tunisia

March 21: Announced that it would allocate 2.5 billion dinars ($850 million) to combat the economic and social effects of the COVID-19 health crisis. Among new measures, the government will delay tax debts, postpone taxes on small- and medium-sized businesses, delay repayment of low-income employee loans, and provide financial assistance to poor families and those who have lost their jobs due to the crisis and loans and aid to help companies affected.

March 23: The finance minister announced that the International Monetary Fund will disburse $400 million to help the country face the effects of COVID-19.

March 28: The European Union granted Tunisia 250 million euros in aid to help it cope with the economic and social effects of the viral outbreak.

Turkey

Central Bank of Turkey

March 17: Lowered its benchmark one-week repo rate by 100 basis points to 9.75%, as it responded to the negative impact of the COVID-19 on the global growth outlook.

March 31: Announced emergency measures to stem the fallout from a growing pandemic. It would (1) allow primary dealers to sell to the Bank (for a temporary period) debt they purchased from the Unemployment Insurance Fund, (2) extend 60 billion lira ($9 billion) worth of rediscount credits, (3) add more lending options well below its 9.75% policy rate, (4) hold swap auctions with six-month maturities for lira...
against dollars, euros, or gold at an interest rate 125 basis points lower than the policy rate, and (5) allow lenders to use mortgage- and asset-backed securities as collateral for foreign exchange operations.

**Government of Turkey**

**March 18:** Unveiled a 100 billion-lira ($15.4 billion) plan to help businesses affected by the COVID-19 pandemic. It includes measures from tax cuts and payment deferrals for businesses to an increase in minimum pension payouts.

**Ukraine**

**March 19:** The government published a new law that will exempt taxpayers from paying the land and property taxes from March 1 to April 30, introduced a moratorium on tax audits from March 18 to May 31, and suspended some tax-related penalties from March 1 to May 31.

**Uganda**

**Bank of Uganda**

**March 24:** Sold dollars in the interbank market to support the local currency, which has been experiencing sharp depreciation due to COVID-19-related disruptions.

**April 6:** Cut its policy rate by 100 basis points to 8.0% to support the economy which has been hit by the impact of COVID-19. It also announced that it had “directed” commercial banks to defer all discretionary payments, such as dividends and bonus payments, for at least 90 days from March.

**United Arab Emirates (UAE)**

**Central Bank of the UAE**

**March 15:** Announced a 100 billion dirham ($27 billion) stimulus package to deal with the economic effects of the COVID-19 pandemic; it cut the rate on one-week certificates of deposit by 75 basis points and will also ease regulatory limits on loans.

**April 5:** Announced new measures to guarantee liquidity in the banking system in the face of the pandemic, boosting its stimulus to a total of 256 billion dirhams ($70 billion) from a previously announced 100 billion dirhams ($27 billion) package. It also halved banks’ reserve requirements for demand deposits to 7% from 14%, which will inject about 61 billion dirhams of liquidity to support banks’ lending and liquidity management, extended the duration of a previously announced deferral of loan principal and interest payments for customers until the end of the year, and said banks participating in the scheme can benefit from a capital buffer relief of 50 billion dirhams until December 2021, among other measures.

**Government of the UAE**

**March 30:** Announced that it would inject funding into state-owned Emirates Airlines to help it deal with the impact of COVID-19 on its business.

**April 5:** Announced that it would reinforce its stockpile of strategic goods and waive residency visa fines for the rest of the year in response to the viral outbreak.

**United Kingdom**

**Bank of England**

**March 11:** Cut its benchmark interest rate by half a percentage point, to 0.25%, revived a program to support lending to small and midsize businesses, and reduced bank capital requirements to further boost credit.

**March 19:** Cut its benchmark rate by 15 basis points to 0.1% to try to mitigate the impact of COVID-19 on the British economy, added 200 billion pounds ($232 billion) to its asset purchase program (including sovereign and private debt), increased its banks’ borrowing allowance under the Term Funding Scheme for Small and Medium Enterprises from 5% to 10% of participants’ stock of real economy lending, and cancelled its 2020 stress test of the 8 major UK banks.

**April 2:** Announced that it will double the size of its corporate bond purchase program to at least 20 billion pounds ($24.7 billion), part of a previously announced stimulus package to help the economy. It will begin ramping up its corporate bond purchases through a series of reverse auctions starting on April 7, holding three a week, and it will be able to buy 20 million pounds of any single bond—double the previous amount.
<table>
<thead>
<tr>
<th>Country</th>
<th>Event Date</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>UK Government</td>
<td>March 11:</td>
<td>Announced a stimulus package totaling 30 billion pounds ($39 billion). It will include 7 billion pounds ($8.6 billion) available to support the labor market, 5 billion pounds ($6.1 billion) to help the health-care system, and 18 billion pounds ($22 billion) to support the UK economy, bringing the total fiscal stimulus to 30 billion pounds ($39 billion). (Among the specific measures, there will be a tax cut for retailers, cash grants to small businesses, a mandate to provide sick pay for people who need to self-isolate, subsidies to cover the costs of sick pay for small businesses, and expanded access to government benefits for the self-employed and unemployed.)</td>
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<td></td>
<td>March 17:</td>
<td>Unveiled a package of 350 billion pounds ($424 billion) to support the economy; it includes 330 billion pounds of guaranteed loans for businesses that need cash to pay rent or suppliers, 20 billion pounds of tax cuts and grants for businesses in 2020, a three-month mortgage payment holiday for borrowers affected by the virus, and a one-year “business rates” holiday for businesses in the retail, leisure, and hospitality industry.</td>
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<td>March 28:</td>
<td>Will ease regulations for affected businesses, including simplifying the insolvency system to keep companies trading, easing administrative requirements and barriers to the import of personal protective equipment, and helping new companies produce and distribute hand sanitizer within a matter of days.</td>
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<td>Vietnam</td>
<td>February 24:</td>
<td>Ordered commercial banks to eliminate, cut, or delay interest payments on loans to companies facing losses due to the coronavirus outbreak.</td>
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<td>March 16:</td>
<td>Cut by 100 basis points both its refinance rate (to 5%) and the overnight lending rate in the inter-bank market (to 6%), and by 50 basis points its discount rate (to 3.5%).</td>
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<td>March 3:</td>
<td>Announced measures worth 27 trillion dong ($1.16 billion) to help businesses cope with the coronavirus epidemic and help the economy stick to its 6.8% growth target this year. They include tax breaks, delayed tax payments, and a reduction in land lease fees. The government will also speed up state spending on infrastructure projects.</td>
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<td>Zimbabwe</td>
<td>March 26:</td>
<td>Cut its main lending rate to 25% from 35% and set a fixed exchange rate (at 25 Zimbabwe dollars to the U.S. dollar) as part of measures to support the economy. It indicated that it had suspended the managed floating exchange rate system to provide for greater certainty in the pricing of goods and services in the economy.</td>
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<td>March 29:</td>
<td>Published new exchange control regulations making it legal for Zimbabweans to use electronic and cash foreign currencies in domestic transactions, as the country readies for a 21-day lockdown to prevent the spread of COVID-19.</td>
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### Multi-Country and International Institutions' Responses

<table>
<thead>
<tr>
<th>Date</th>
<th>Institution</th>
<th>Action and Details</th>
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<tbody>
<tr>
<td><strong>March 4</strong></td>
<td>The International Monetary Fund (IMF)</td>
<td>made $50 billion in loans available to deal with the COVID-19 through its rapid-disbursing emergency financing facilities, including $10 billion of zero-interest loans to the poorest IMF member countries. On March 16, the IMF announced that it “stands ready to mobilize its $1 trillion lending capacity to help our membership” and that it has “40 ongoing arrangements—both disbursing and precautionary—with combined commitments of about $200 billion,” some of which could be used for this crisis, and that it is aiming to boost its debt relief fund to $1 billion from its current level of $400 million.</td>
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<td><strong>March 3</strong></td>
<td>The World Bank</td>
<td>announced an initial package of up to $12 billion in loans for countries to help countries cope with the effects of the COVID-19 outbreak. Specifically, it comprises up to $2.7 billion new financing from IBRD, $1.3 billion from IDA, complemented by reprioritization of $2 billion of the Bank’s existing portfolio, and $6 billion from IFC, as well as policy advice and technical assistance ($8 billion is new funding and the remaining $4 billion is redirected from current lines of credit).</td>
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<td><strong>March 11</strong></td>
<td>The Inter-American Development Bank (IADB)</td>
<td>announced that it has up to $2 billion in resources that can be programmed to countries requesting support for disease monitoring, testing and public health services, and that it could work with countries that have undisbursed loan balances to redirect resources to pandemic-response efforts.</td>
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<tr>
<td><strong>March 13</strong></td>
<td>The European Bank for Reconstruction and Development (EBRD)</td>
<td>unveiled an emergency €1 billion “Solidarity Package” of measures to help companies across its regions deal with the impact of the COVID-19 pandemic. Under the emergency program, the EBRD will set up a “resilience framework” to provide financing for existing EBRD clients with strong business fundamentals experiencing temporary credit difficulties, comprising emergency liquidity, working capital and trade finance.</td>
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<td><strong>March 15</strong></td>
<td>The Bank of Canada, the Bank of England, the Bank of Japan, the European Central Bank, the U.S. Federal Reserve, and the Swiss National Bank</td>
<td>agreed to lower the pricing on the standing US dollar liquidity swap arrangements by 25 basis points, so that the new rate will be the US dollar overnight index swap (OIS) rate plus 25 basis points.</td>
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<td><strong>March 16</strong></td>
<td>The European Investment Bank Group (EIBG)</td>
<td>proposed a 40 billion euro financing package consists of dedicated guarantee schemes to banks based on existing program for immediate deployment (20 billion euros), liquidity lines to banks to ensure additional working capital support for SMEs and mid-caps (10 billion euros), and asset-backed securities purchasing programs to allow banks to transfer risk on portfolios of SME loans (10 billion euros).</td>
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<td><strong>March 16</strong></td>
<td>The Islamic Development Bank (IsDB) Group</td>
<td>announced that it is setting-up a special “Strategic Preparedness and Response Facility” of $730 million to mitigate the negative health and socio-economic impact of the COVID-19 pandemic. It will include $280 million from the Bank and Islamic Solidarity Fund for Development (ISFD) for sovereign projects and programs, $300 million from International Islamic Trade finance Corporation (ITFC) for trade finance and $150 million from the Islamic Corporation for the Insurance of Investment and Export Credit (ICIEC) for insurance coverage.</td>
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<td><strong>March 16</strong></td>
<td>The Central American Bank for Economic Integration (CABEI)</td>
<td>granted a nonreimbursable financial package worth $8 million to the eight countries of the Central American Integration System in order to combat the widening economic fallout from the COVID-19 (Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica, Panama, Belize, and the Dominican Republic will each receive $1 million).</td>
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<td><strong>March 18</strong></td>
<td>The Asian Development Bank (ADB)</td>
<td>announced a $6.5 billion initial package to address the immediate needs of its developing member countries (DMCs) as they respond to the COVID-19 pandemic. The initial package includes approximately $3.6 billion in sovereign operations for a range of responses to the health and economic consequences of the pandemic, $1.6 billion in non-sovereign operations for micro, small, and medium-sized enterprises, domestic and regional trade, and firms directly impacted, about $1 billion in concessional resources through economic measures.</td>
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reallocations from ongoing projects and assessing possible needs for contingencies, and $40 million in technical assistance and quick-disbursing grants. (Since February 2020, ADB has provided more than $225 million to meet urgent needs of both governments and businesses in DMCs.)

**March 19:** The U.S. Federal Reserve announced the establishment of temporary U.S. dollar liquidity arrangements (swap lines) with 9 central banks to help lessen strains in global U.S. dollar funding markets. These new facilities will support the provision of U.S. dollar liquidity in amounts up to $60 billion each for the Reserve Bank of Australia, the Banco Central do Brasil, the Bank of Korea, the Banco de Mexico, the Monetary Authority of Singapore, and the Sveriges Riksbank, and $30 billion each for the Danmarks Nationalbank, the Norges Bank, and the Reserve Bank of New Zealand.

**March 19:** The Board of Directors of the New Development Bank approved RMB 7 billion ($1 billion) Emergency Assistance Program Loan to the People’s Republic of China. The Program will help finance urgent and unexpected public health expenditures in Hubei, Guangdong, and Henan.

**March 20:** The Development Bank of Latin America (CAF) announced that it has opened an additional $2.5 billion line of credit to support the measures that member countries are taking to mitigate the effects of COVID-19. On March 3, it approved a credit line worth $300 million to manage emergencies related to COVID-19 and the possibility of granting technical help of up to $5 million for initiatives related to the outbreak in countries across the region.

**March 26:** The Group of 20 (G20) announced that it would inject “over $5 trillion into the global economy, as part of targeted fiscal policy, economic measures, and guarantee schemes to counteract the social, economic and financial impacts” of COVID-19.

**Source:** Congressional Research Service based on information from news articles and press releases.

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