Monetary Policy in the Time of COVID

Remarks by

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at

“Macroeconomic Policy in an Uneven Economy,” an economic policy symposium sponsored by the Federal Reserve Bank of Kansas City

Jackson Hole, Wyoming
(via webcast)

August 27, 2021
Seventeen months have passed since the U.S. economy faced the full force of the COVID-19 pandemic. This shock led to an immediate and unprecedented decline as large parts of the economy were shuttered to contain the spread of the disease.

The path of recovery has been a difficult one, and a good place to begin is by thanking those on the front line fighting the pandemic: the essential workers who kept the economy going, those who have cared for others in need, and those in medical research, business, and government, who came together to discover, produce, and widely distribute effective vaccines in record time. We should also keep in our thoughts those who have lost their lives from COVID, as well as their loved ones.

Strong policy support has fueled a vigorous but uneven recovery—one that is, in many respects, historically anomalous. In a reversal of typical patterns in a downturn, aggregate personal income rose rather than fell, and households massively shifted their spending from services to manufactured goods. Booming demand for goods and the strength and speed of the reopening have led to shortages and bottlenecks, leaving the COVID-constrained supply side unable to keep up. The result has been elevated inflation in durable goods—a sector that has experienced an annual inflation rate well below zero over the past quarter century.¹ Labor market conditions are improving but turbulent, and the pandemic continues to threaten not only health and life, but also economic activity. Many other advanced economies are experiencing similarly unusual conditions.

In my comments today, I will focus on the Fed’s efforts to promote our maximum employment and price stability goals amid this upheaval, and suggest how lessons from

¹ See, for example, figure 5.
history and a careful focus on incoming data and the evolving risks offer useful guidance for today’s unique monetary policy challenges.

**The Recession and Recovery So Far**

The pandemic recession—the briefest yet deepest on record—displaced roughly 30 million workers in the space of two months. The decline in output in the second quarter of 2020 was twice the full decline during the Great Recession of 2007–09. But the pace of the recovery has exceeded expectations, with output surpassing its previous peak after only four quarters, less than half the time required following the Great Recession. As is typically the case, the recovery in employment has lagged that in output; nonetheless, employment gains have also come faster than expected.

The economic downturn has not fallen equally on all Americans, and those least able to shoulder the burden have been hardest hit. In particular, despite progress, joblessness continues to fall disproportionately on lower-wage workers in the service sector and on African Americans and Hispanics.

The unevenness of the recovery can further be seen through the lens of the sectoral shift of spending into goods—particularly durable goods such as appliances, furniture, and cars—and away from services, particularly in-person services in areas such as travel and leisure (figure 1). As the pandemic struck, restaurant meals fell 45 percent, air travel 95 percent, and dentist visits 65 percent. Even today, with overall gross

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2 This figure includes both the decline in the number reporting themselves as employed in the Household Survey as well as the BLS’s estimate of those who misreported themselves as employed but not at work rather than on temporary layoff.

3 From the peak to the trough quarter, gross domestic product dropped 10 percent last year, compared with 3.8 percent in the 2007–09 recession.

4 For example, the consensus forecast reported by Blue Chip Economic Indicators in April 2020 put the unemployment rate in the second quarter of 2021 at 7.4 percent, compared with the actual value of 5.9 percent.
domestic product and consumption spending more than fully recovered, services spending remains about 7 percent below trend. Total employment is now 6 million below its February 2020 level, and 5 million of that shortfall is in the still-depressed service sector. In contrast, spending on durable goods has boomed since the start of the recovery and is now running about 20 percent above the pre-pandemic level. With demand outstripping pandemic-afflicted supply, rising durables prices are a principal factor lifting inflation well above our 2 percent objective.

Given the ongoing upheaval in the economy, some strains and surprises are inevitable. The job of monetary policy is to promote maximum employment and price stability as the economy works through this challenging period. I will turn now to a discussion of progress toward those goals.

**The Path Ahead: Maximum Employment**

The outlook for the labor market has brightened considerably in recent months. After faltering last winter, job gains have risen steadily over the course of this year and now average 832,000 over the past three months, of which almost 800,000 have been in services (figure 2). The pace of total hiring is faster than at any time in the recorded data before the pandemic. The levels of job openings and quits are at record highs, and employers report that they cannot fill jobs fast enough to meet returning demand.

These favorable conditions for job seekers should help the economy cover the considerable remaining ground to reach maximum employment. The unemployment rate has declined to 5.4 percent, a post-pandemic low, but is still much too high, and the reported rate understates the amount of labor market slack. Long-term unemployment

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5 An alternative measure that adjusts for the misclassification of some unemployed workers as employed but not at work (as reported by the Bureau of Labor Statistics) and for diminished labor force participation
remains elevated, and the recovery in labor force participation has lagged well behind the rest of the labor market, as it has in past recoveries.

With vaccinations rising, schools reopening, and enhanced unemployment benefits ending, some factors that may be holding back job seekers are likely fading. With the Delta variant presenting a near-term risk, the prospects are good for continued progress toward maximum employment.

The Path Ahead: Inflation

The rapid reopening of the economy has brought a sharp run-up in inflation. Over the 12 months through July, measures of headline and core personal consumption expenditures inflation have run at 4.2 percent and 3.6 percent, respectively—well above our 2 percent longer-run objective. Businesses and consumers widely report upward pressure on prices and wages. Inflation at these levels is, of course, a cause for concern. But that concern is tempered by a number of factors that suggest that these elevated readings are likely to prove temporary. This assessment is a critical and ongoing one, and we are carefully monitoring incoming data.

The dynamics of inflation are complex, and we assess the inflation outlook from a number of different perspectives, as I will now discuss.
1. The absence so far of broad-based inflation pressures

The spike in inflation is so far largely the product of a relatively narrow group of goods and services that have been directly affected by the pandemic and the reopening of the economy. Durable goods alone contributed about 1 percentage point to the latest 12-month measures of headline and core inflation. Energy prices, which rebounded with the strong recovery, added another 0.8 percentage point to headline inflation, and from long experience we expect the inflation effects of these increases to be transitory. In addition, some prices—for example, for hotel rooms and airplane tickets—declined sharply during the recession and have now moved back up close to pre-pandemic levels. The 12-month window we use in computing inflation now captures the rebound in prices but not the initial decline, temporarily elevating reported inflation. These effects, which are adding a few tenths to measured inflation, should wash out over time.

We consult a range of measures meant to capture whether price increases for particular items are spilling over into broad-based inflation. These include trimmed mean measures and measures excluding durables and computed from just before the pandemic. These measures generally show inflation at or close to our 2 percent longer-run objective (figure 3). We would be concerned at signs that inflationary pressures were spreading more broadly through the economy.

2. Moderating inflation in higher-inflation items

We are also directly monitoring the prices of particular goods and services most affected by the pandemic and the reopening, and are beginning to see a moderation in some cases as shortages ease. Used car prices, for example, appear to have stabilized; indeed, some price indicators are beginning to fall. If that continues, as many analysts
predict, then used car prices will soon be pulling measured inflation down, as they did for much of the past decade.8

This same dynamic of upward inflation pressure dissipating and, in some cases, reversing seems likely to play out in durables more generally. Over the 25 years preceding the pandemic, durables prices actually declined, with inflation averaging negative 1.9 percent per year (figure 5).9 As supply problems have begun to resolve, inflation in durable goods other than autos has now slowed and may be starting to fall. It seems unlikely that durables inflation will continue to contribute importantly over time to overall inflation. We will be looking for evidence that supports or undercuts that expectation.

3. Wages

We also assess whether wage increases are consistent with 2 percent inflation over time. Wage increases are essential to support a rising standard of living and are generally, of course, a welcome development. But if wage increases were to move materially and persistently above the levels of productivity gains and inflation, businesses would likely pass those increases on to customers, a process that could become the sort of “wage–price spiral” seen at times in the past.10 Today we see little evidence of wage increases that might threaten excessive inflation (figure 6). Broad-based measures of wages that adjust for compositional changes in the labor force, such as the employment

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8 Declines in used car prices would begin holding down 12-month inflation once most of the earlier price increases have fallen out of the 12-month window.
9 The lower inflation in durable goods is probably due to a number factors, including faster productivity growth in durable goods than in services and globalization.
10 If wages rise in line with inflation and labor productivity growth, then real unit labor costs (or the labor cost of producing one unit of output) to businesses are constant. Wages may grow slower or faster than inflation plus productivity growth for extended periods because of changing structural factors without being reflected in inflation. Ultimately, however, persistently rising real unit labor costs will put upward pressure on prices.
cost index and the Atlanta Wage Growth Tracker, show wages moving up at a pace that appears consistent with our longer-term inflation objective. We will continue to monitor this carefully.

4. Longer-term inflation expectations

Policymakers and analysts generally believe that, as long as longer-term inflation expectations remain anchored, policy can and should look through temporary swings in inflation. Our monetary policy framework emphasizes that anchoring longer-term expectations at 2 percent is important for both maximum employment and price stability.

We carefully monitor a wide range of indicators of longer-term inflation expectations. These measures today are at levels broadly consistent with our 2 percent objective (figure 4). Because measures of inflation expectations are individually noisy, we also focus on common patterns across the measures. One approach to summarizing these patterns is the Board staff’s index of common inflation expectations (CIE), which combines information from a broad range of survey and market-based measures.¹¹ This index captures a general move down in expectations starting around 2014, a time when inflation was running persistently below 2 percent. More recently, the index shows a welcome reversal of that decline and is now at levels more consistent with our 2 percent objective.

Longer-term inflation expectations have moved much less than actual inflation or near-term expectations, suggesting that households, businesses, and market participants

¹¹ The way the CIE combines the underlying measures means that it will tend not to be affected by underlying movements that are unique to individual measures; the CIE will reflect movements that are more common across underlying measures.
also believe that current high inflation readings are likely to prove transitory and that, in
any case, the Fed will keep inflation close to our 2 percent objective over time.12

5. The prevalence of global disinflationary forces over the past quarter century

Finally, it is worth noting that, since the 1990s, inflation in many advanced
economies has run somewhat below 2 percent even in good times (figure 7). The pattern
of low inflation likely reflects sustained disinflationary forces, including technology,
globalization and perhaps demographic factors, as well as a stronger and more successful
commitment by central banks to maintain price stability.13 In the United States,
unemployment ran below 4 percent for about two years before the pandemic, while
inflation ran at or below 2 percent. Wages did move up across the income spectrum—a
welcome development—but not by enough to lift price inflation consistently to 2 percent.
While the underlying global disinflationary factors are likely to evolve over time, there is
little reason to think that they have suddenly reversed or abated. It seems more likely that
they will continue to weigh on inflation as the pandemic passes into history.14

We will continue to monitor incoming inflation data against each of these
assessments.

To sum up, the baseline outlook is for continued progress toward maximum
employment, with inflation returning to levels consistent with our goal of inflation

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12 On a Q4-over-Q4 basis, the August 13, 2021, Survey of Professional Forecasters reports a consensus
forecast for total personal consumption expenditures inflation of 4.1 percent, 2.2 percent, and 2.3 percent
for 2021 to 2023, respectively. The corresponding numbers for core inflation are 3.7 percent, 2.2 percent,
and 2.1 percent, respectively. The August 10, 2021, Blue Chip Economic Indicators Forecast presents
similar consensus forecasts for 2021 and 2022.
13 For views on this, see Canon, Kudlyak, and Reed (2015), Forbes (2019), Goodhart and Pradhan (2020),
Obstfeld (2020).
14 For an opposing view, see Goodhart and Pradhan (2020), who argue that the globalization and
demographic factors that had been fueling global disinflationary forces are now reversing and could give
rise to an inflationary period. Even if we are near an inflection point, as Goodhart and Pradhan argue,
demographic forces move slowly relative to the near-term policy horizon I am discussing here today.
averaging 2 percent over time. Let me now turn to how the baseline outlook and the
associated risks and uncertainties figure in our monetary policymaking.

**Implications for Monetary Policy**

The period from 1950 through the early 1980s provides two important lessons for
managing the risks and uncertainties we face today. The early days of stabilization
policy in the 1950s taught monetary policymakers not to attempt to offset what are likely
to be temporary fluctuations in inflation.\(^\text{15}\) Indeed, responding may do more harm than
good, particularly in an era where policy rates are much closer to the effective lower
bound even in good times. The main influence of monetary policy on inflation can come
after a lag of a year or more. If a central bank tightens policy in response to factors that
turn out to be temporary, the main policy effects are likely to arrive after the need has
passed. The ill-timed policy move unnecessarily slows hiring and other economic
activity and pushes inflation lower than desired. Today, with substantial slack remaining
in the labor market and the pandemic continuing, such a mistake could be particularly
harmful. We know that extended periods of unemployment can mean lasting harm to
workers and to the productive capacity of the economy.\(^\text{16}\)

History also teaches, however, that central banks cannot take for granted that
inflation due to transitory factors will fade. The 1970s saw two periods in which there
were large increases in energy and food prices, raising headline inflation for a time. But
when the direct effects on headline inflation eased, core inflation continued to run

\(^\text{15}\) As I discussed here two years ago, Milton Friedman first made this argument referring to the stop-and-go
policies in the 1950s. See Powell (2019) and Friedman (1958, p. 241). Bodenstein, Erceg, and Guerrieri
(2008) and Mishkin (2007) illustrate the problems that reacting to transitory sources of inflation can cause
using two of the Board staff’s models.

\(^\text{16}\) See, for example, Davis and von Wachter (2011).
persistently higher than before. One likely contributing factor was that the public had come to generally expect higher inflation—one reason why we now monitor inflation expectations so carefully.\textsuperscript{17}

Central banks have always faced the problem of distinguishing transitory inflation spikes from more troublesome developments, and it is sometimes difficult to do so with confidence in real time. At such times, there is no substitute for a careful focus on incoming data and evolving risks. If sustained higher inflation were to become a serious concern, the Federal Open Market Committee (FOMC) would certainly respond and use our tools to assure that inflation runs at levels that are consistent with our goal.

Incoming data should provide more evidence that some of the supply–demand imbalances are improving, and more evidence of a continued moderation in inflation, particularly in goods and services prices that have been most affected by the pandemic. We also expect to see continued strong job creation. And we will be learning more about the Delta variant’s effects. For now, I believe that policy is well positioned; as always, we are prepared to adjust policy as appropriate to achieve our goals.

That brings me to a concluding word on the path ahead for monetary policy. The Committee remains steadfast in our oft-expressed commitment to support the economy for as long as is needed to achieve a full recovery. The changes we made last year to our Statement on Longer-Run Goals and Monetary Policy Strategy are well suited to address today’s challenges.

We have said that we would continue our asset purchases at the current pace until we see substantial further progress toward our maximum employment and price stability

\textsuperscript{17} See, for example, Orphanides and Williams (2013) on the role of de-anchored inflation expectations. This paper is in Bordo and Orphanides (2013), which discusses a wide range of related issues.
goals, measured since last December, when we first articulated this guidance. My view is that the “substantial further progress” test has been met for inflation. There has also been clear progress toward maximum employment. At the FOMC’s recent July meeting, I was of the view, as were most participants, that if the economy evolved broadly as anticipated, it could be appropriate to start reducing the pace of asset purchases this year. The intervening month has brought more progress in the form of a strong employment report for July, but also the further spread of the Delta variant. We will be carefully assessing incoming data and the evolving risks. Even after our asset purchases end, our elevated holdings of longer-term securities will continue to support accommodative financial conditions.

The timing and pace of the coming reduction in asset purchases will not be intended to carry a direct signal regarding the timing of interest rate liftoff, for which we have articulated a different and substantially more stringent test. We have said that we will continue to hold the target range for the federal funds rate at its current level until the economy reaches conditions consistent with maximum employment, and inflation has reached 2 percent and is on track to moderately exceed 2 percent for some time. We have much ground to cover to reach maximum employment, and time will tell whether we have reached 2 percent inflation on a sustainable basis.

These are challenging times for the public we serve, as the pandemic and its unprecedented toll on health and economic activity linger. But I will end on a positive note. Before the pandemic, we all saw the extraordinary benefits that a strong labor market can deliver to our society. Despite today’s challenges, the economy is on a path
to just such a labor market, with high levels of employment and participation, broadly shared wage gains, and inflation running close to our price stability goal.

Thank you very much.
References


Reserve Bank of Kansas City, held in Jackson Hole, Wyo., August 23, 
Figure 1. Spending on Durable Goods Has Surged, while Spending on Services Remains Weak

Note: The data are monthly estimates of real personal consumption expenditures and extend through June 2021. Trend spending is shown by the dashed lines and is constructed using the average growth rates from January 2018 to January 2020.

Source: U.S. Bureau of Economic Analysis.
Figure 2. The Labor Market Is Recovering, but the Recovery Is Far from Complete

A. Change in nonfarm payrolls and total hiring

Note: Payroll data are three-month moving averages of total nonfarm payroll employment and extend through July 2021. Total private hire data are three-month moving averages and extend through June 2021.

B. Measures of unemployment

Note: The data extend through July 2021. The long-term unemployment rate is the share of the labor force that has been unemployed for 27 weeks or more. The adjusted unemployment rate begins in February 2020 and is defined in footnote 5.
Figure 3. Measures of Broad-Based Inflation Generally Remain Moderate

12-month Dallas Trimmed Mean (PCE)
18-month core PCE inflation ex. durable goods
18-month total PCE inflation ex. durable goods

Note: Dallas Trimmed Mean data are 12-month percent changes and extend through June 2021. Inflation excluding durables are 18-month annualized changes and extend through June 2021. Source: Federal Reserve Bank of Dallas; Federal Reserve Board staff calculations.
Figure 4. Longer-Term Inflation Expectations Have Largely Reversed Earlier Declines

A. Selected indicators of inflation expectations

- Michigan survey, price changes next 5-10 years
- Survey of Professional Forecasters, 10-year PCE inflation
- TIPS, inflation compensation, 6-10 years ahead

B. Index of Common Inflation Expectations

- CIE projected on SPF, 10-year PCE inflation

Note: Treasury Inflation-Protected Securities (TIPS) data are monthly and extend through July 2021. The Michigan survey data are monthly and extend through August 2021; the August data are preliminary. Survey of Professional Forecasters data are quarterly and extend through 2021:Q2. PCE is personal consumption expenditures.

Source: Federal Reserve Bank of Philadelphia, Survey of Professional Forecasters; University of Michigan Surveys of Consumers; Federal Reserve Board staff calculations.

Note: The data extend through 2021:Q2. CIE is Index of Common Inflation Expectations, and SPF is Survey of Professional Forecasters.

Source: Federal Reserve Board staff calculations.
Figure 5. Durable Goods Inflation Has Run Far below That of Services for 25 Years before the Pandemic

Source: U.S. Bureau of Economic Analysis.

Note: The data are price deflators for personal consumption expenditures and extend through June 2021.
Figure 6. Overall Wage Growth Remains Moderate

Note: Employment Cost Index (ECI) data are 12-month percent changes ending in the last month of each quarter and extend through 2021:Q2. Atlanta Fed’s Wage Growth Tracker data are 3-month moving averages of the 12-month percent change and extend through July 2021. The dashed line represents missing data.

Figure 7. Inflation in Many Advanced Economies Has Run Consistently below 2 since the Late 1990s

Note: The data are 36-month moving averages, extend through July 2021, and are based on seasonally adjusted data except for Canada in 1995 and Japan from January 1995 through March 1999.

Source: For Japan, Ministry of Internal Affairs and Communications; for Sweden, Switzerland, and the euro area, Statistical Office of the European Communities; for Canada, Statistics Canada; all via Haver Analytics.