The most frequent question I am asked these days is, “What will the Fed do next?”

I understand. People are worried. Inflation is high and the Federal Open Market Committee (FOMC) has taken aggressive policy action to bring it down. The responses range from fearing these actions will tip the economy into a recession to fearing they won’t be enough to get the job done.

For most, this adds up to a lot of uncertainty. And the impulse to look for answers in the immediate. The next meeting. The next data release. The next market update. It doesn’t help that we face a round-the-clock ticker tape of economic and financial news.

But achieving our mandated goals takes time and a broader view. As policymakers, we have to respond to an economy that is evolving in real time and prepare for what the economy will look like in the future.

So today, I am going to do just that. I will pull back the lens from the immediate and talk about what the inflation landscape looked like before the pandemic, what it looks like now, and what both could mean for the future.

Before I get started, let me give the usual disclaimer that the views I express today are my own and do not necessarily reflect those of my colleagues or anyone else within the Federal Reserve system.
The World We Had

To understand how future inflation could evolve, we must first remember where we were before the pandemic. So, let me start there.

Before the pandemic and the current episode of high inflation, the world was starkly different. The central and decade-long challenge for the Federal Reserve and most other central banks was trying to bring inflation up to target, rather than pushing it down.

Large structural forces were at play. The most notable was population aging, which was affecting the labor force and savings rates in industrialized and developing nations alike. Global productivity growth was also slowing, affecting demand for investment. Together, these developments brought about weaker trend growth and lower real interest rates, and they put steady downward pressure on inflation. Economics and policy discussions became focused on secular stagnation—a persistent state of little or no growth with economies running below potential. And a low neutral rate of interest, the zero lower bound on interest rates, and the risks of consistently below target inflation were top of mind.

The inflation challenges in the U.S. were pronounced (Figure 1). Despite sustained monetary policy accommodation after the Great Recession, annual personal consumption expenditures (PCE) inflation remained below 2 percent for 84 of the 98 months from 2012 through February 2020, or about 86 percent of the time. Over that same period, the federal funds rate was set near zero almost half of the time and below the neutral rate of interest the entire time.

This environment ended up offering some advantages. The economy was able to run consistently above estimates of potential growth and unemployment was able to fall to near-historic levels without spurring inflation.

But it also came with risks. Namely, that inflation would fail to get to target in good times and fall further in bad ones. Eventually, this would seep into inflation expectations, reducing monetary policy space and compounding the existing structural downward pressures on

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1 United Nations (2022) and Jones (2022).
2 Fernald et al. (2017) and Fernald and Li (2022).
3 Carvalho, Ferrero, and Nechio (2017) and Jordà et al. (2019).
5 Bernanke (2012), Dudley (2013), and Yellen (2013).
7 The sustained accommodation included low interest rates, forward guidance, and the announcement of a formal inflation target in January 2012 (Board of Governors 2012).
8 The neutral rate of interest declined over this period and currently is estimated to be about 2.5 percent.
inflation. The persistent deflation in Japan underscored this challenge, and it motivated the Fed and many other central banks to fight vigorously to get inflation up to target.

This was the seemingly unchangeable topography of the economy before the pandemic.

And then of course, everything changed.

The Pandemic Shock

We all know the story. When COVID-19 hit, the economy faltered. The Fed cut interest rates, purchased long-term assets, and opened lending facilities, all to help bridge the economy through the very worst. U.S. fiscal agents took equally aggressive action, infusing about $5 trillion in federal spending into the economy.

These actions were unprecedented. And they worked, to an extent. U.S. economic growth rebounded, demand surged, and the labor market began to recover. Supply chains, however, were slow to respond. And by early 2021, price pressures were starting to build—first in a few sectors directly affected by the pandemic, and then more broadly, as imbalances between robust demand and limited supply spread throughout the economy. By the fall of 2021, inflation was high and heading higher.

The chart puts the change in inflation in perspective (Figure 1). After averaging about 1.4 percent per year in the low-inflation period, PCE inflation shot up to an average rate of 5.8 percent between February 2021 and today—a quadrupling of average inflation. Said simply, within a year, inflation went from consistently undershooting our 2 percent target to reaching levels not seen in more than a generation.

In response, the Fed pivoted from a stance of sustained accommodation to one of rapid tightening, first through forward guidance and then through conventional increases in interest rates. Since March of last year, the FOMC has raised the federal funds rate at every meeting, by

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9 Amano, Carter, and Leduc (2020) and Diwan, Leduc, and Mertens (2020).
10 It also prompted a review of policy objectives and tools that could reliably deliver on this goal. See Board of Governors (2020).
11 Initially, the FOMC believed the run-up in inflation was transitory. From April through November 2021, five consecutive FOMC statements described inflation developments as “largely reflecting transitory factors” or “factors that are expected to be transitory.” But the word “transitory” did not appear in any subsequent FOMC statements. Not everyone shared this initial view that inflation would be transitory, with some commentators arguing that the extensive federal fiscal relief to address the pandemic could trigger a prolonged episode of high inflation. See Blanchard (2021) and Summers (2021).
12 Notably, the inflation surge over the past two years has brought the price level close to a linear trend of 2 percent growth as measured since January 2012. Stated differently, the PCE price index has risen at an average, annual rate of slightly above 2 percent when measured over the entire 11-year period from January 2012 through January 2023.
a cumulative total of 4½ percentage points. This is the fastest pace of monetary policy tightening in 40 years. Broader financial market conditions, which capture funds rate movements, along with FOMC forward guidance and the reduction in the Fed’s balance sheet, have tightened even more.\textsuperscript{13}

This tightening, while pronounced, was and remains appropriate given the magnitude and persistence of elevated inflation readings. Higher interest rates help bridle demand growth, bringing it back in line with supply. This rebalancing helps reduce inflation pressures.\textsuperscript{14}

And this is what we are seeing (Figure 2). The economy has been gradually slowing and inflation has followed. Since June of 2022, overall inflation has been easing, falling from its highs of around 7 percent to its current reading of 5.4 percent in January of this year.

This is good news, a sign that policy is doing its job and—along with improvements in supply—working to reduce the imbalances that have pushed inflation so high. But the work is far from done.

\textsuperscript{13} Choi et al. (2022).
\textsuperscript{14} The Phillips curve summarizes the link between inflation and economic activity. For evidence, see Hazell et al. (2022) and Jørgensen and Lansing (2021, 2023). Shapiro (2022) decomposes inflation into demand-driven versus supply-driven components.
Overall inflation remains well above target and contributions from each of the components of inflation—goods, housing, and other services—remain well above their historical trend (Figure 2). Moreover, the incoming data have been bumpy. The recent PCE reading is a good example. After months of decline, headline and core inflation both ticked up in January on a 12-month basis, and the monthly inflation rate rose at its fastest pace in seven months. This suggests that the disinflation momentum we need is far from certain.

Putting all of this together, it’s clear there is more work to do. In order to put this episode of high inflation behind us, further policy tightening, maintained for a longer time, will likely be necessary. Restoring price stability is our mandate and it is what the American people expect. So, the FOMC remains resolute in achieving this goal.

As we work toward that end, we must also consider the world we are entering. What will the pressures on inflation be once the pandemic shock has fully worn off? Will we return to a world where the central bank struggles to get inflation up to target? Or has the pandemic left a more permanent imprint, such that the pressures on inflation now trend higher and we have to work to keep them at bay?
The answers aren’t yet clear. But the questions are imperative.

An Uncharted Path

We know what forces drove the pre-pandemic inflation trend. And we know what forces are driving the ongoing pandemic-induced inflation surge. What we don’t know is how they will evolve and interact after the pandemic is gone, or what this new confluence will mean for underlying inflation.

Indeed, a number of forces have either grown in importance during the pandemic era or were set in motion by it. And I want to touch on four in particular that could counterbalance or even offset entirely the deflationary trend of the past.

One is a decline in global price competition. If firms decide to reshore some or all of their foreign production facilities, costs and prices are likely to continue to rise. My conversations with business leaders suggest that some of this is already happening. But it’s a major undertaking to completely revamp well-established production networks, and it remains to be seen how far this trend will go. One thing, however, is clear. Globalization has been a key driver of past goods deflation in the United States. And a trend toward less global competition could mean more inflation in the goods sector and more pressure on overall inflation going forward.

Another potential factor affecting future inflation is the ongoing domestic labor shortage. Labor force participation fell precipitously during the pandemic and has been slow to recover, especially among workers aged 55 years and older. These developments exacerbate the already significant downward drag on participation related to population aging. Absent a substantial pickup in the share of working-age adults looking to be employed or a large change in immigration flows, labor force participation will continue to decline and worker shortages will persist, pushing up wages and ultimately prices, at least in the near and medium term.

Inflation pressures could also move upward as firms make the transition to a greener economy, which will require investment in new processes and infrastructure. As firms increase investments in renewable energy and energy-efficient technologies, they are likely to pass some portion of these transition costs on to consumers, boosting inflation. This increased demand for investment could raise the neutral rate of interest, at least in the short and medium term, lessening the importance of the zero lower bound and the downward pressures on inflation that came with it.

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15 See for example Guerrieri, Gust, and López-Salido (2010).
16 See Figure 2 (green bars) for the contributions of goods inflation to overall PCE inflation over time.
17 Hornstein and Kudlyak (2019; updated FRBSF estimates) and Montes, Smith, and Dajon (2022).
18 Duzhak (2023).
19 Daly (2021).
Finally,—and this is at the forefront of my mind as a policymaker—there is the possibility that inflation expectations could change. To date, these expectations—especially in the longer run—have remained stable and well anchored near the Fed’s 2 percent goal.\textsuperscript{20} In other words, so far, inflation psychology has not shifted and public faith in the Fed’s ability to achieve its price stability mandate remains intact. But the longer inflation remains high, the more likely it is to undermine confidence. And once high inflation becomes embedded in public psychology, it is very hard to change.

Any or all of these factors could influence the natural tilt of inflation and the monetary policy approach necessary to maintain price stability over the long term.

The hard part, of course, is knowing when and how each of these factors will evolve or what force they will have relative to the strong pull coming from population aging and slow productivity growth. If those pre-pandemic trends reemerge as the dominant structural forces, then our efforts to bring inflation down will be reinforced by natural features of the economy. But if the old dynamics are eclipsed by other, newer influences and the pressures on inflation start pushing upward instead of downward, then policy will likely need to do more.

We don’t know what the trend will be. But we do know that, while we continue to diffuse the ongoing inflation shock, we need to be working to gather data and research that illuminates the likely path forward. That’s prudent policymaking.

The Duality of Policymaking

Still, when things are hard and you’re in the middle of it, it’s easy to get caught up in the here and now. So much so that we can forget to look forward, take stock, and imagine what the future could hold.

But policymaking requires it. The pandemic and its shockwaves will one day fully dissipate. And we must be ready.

So as I close today, I will return to the question I started with: What will the Fed do next?

My answer: We will work on the economy we have, and prepare for the economy to come. That’s what this moment demands.

Thank you.

\textsuperscript{20} Armantier et al. (2022).
References


