

# **Inflation and Monetary Policy**

Federal Reserve Bank of Chicago Economic Club of Michiana October 11, 2022

#### Anna Paulson

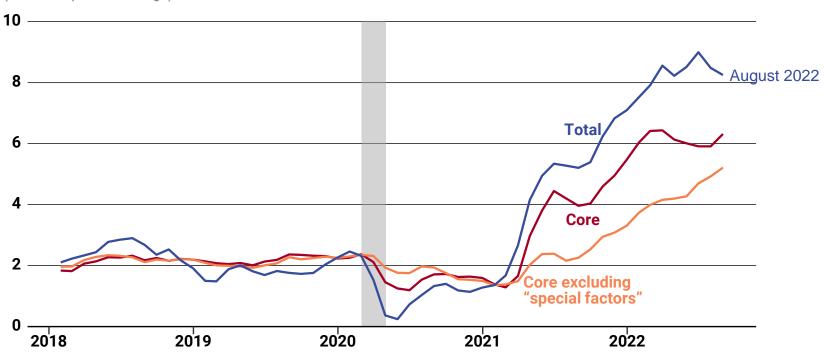
Executive Vice President and Director of Research Federal Reserve Bank of Chicago

The views expressed here do not necessarily reflect the views of the Federal Reserve Bank of Chicago or the Federal Reserve System.

# Inflation is too high

#### **Consumer price index**

(12-month percent change)

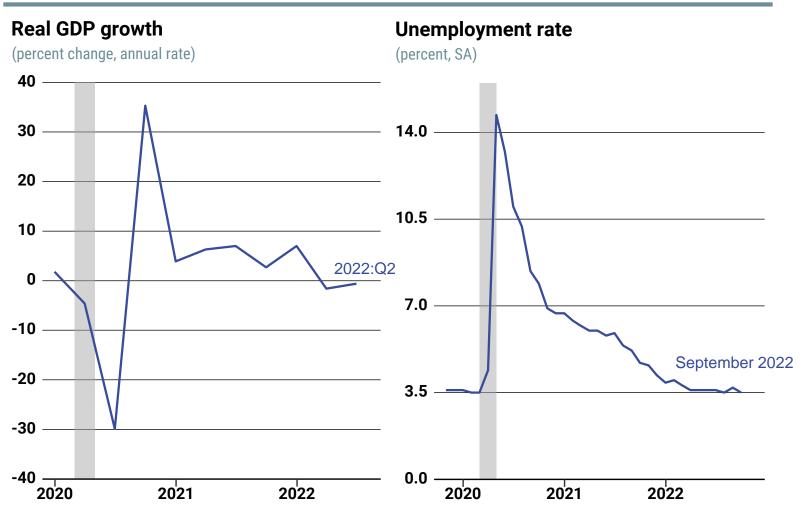


Note: Core ex. 'special factors' removes from core prices some selected categories where pandemic related shifts in demand and/or specific supply chain disruptions have had a major influence on prices, namely: used motor vehicles, new motor vehicles, household furnishings and supplies, airfares, and hotel and motel accommodations. Together these categories have had a weight of about 11 percent in core CPI since the pandemic started. CPI calculations for August 2022 use July 2022 relative importance weights as published in the August CPI release. Source: BLS via Haver Analytics, staff calculations

# Questions

- How did we get here?
- What lies ahead?
  - For monetary policy
  - For economic activity
- What are the risks and challenges?

# Covid: deep recession and quick recovery



Source: Bureau of Economic Analysis via Haver Analytics

Source: Bureau of Labor Statistics via Haver Analytics

# The labor market is unusually tight

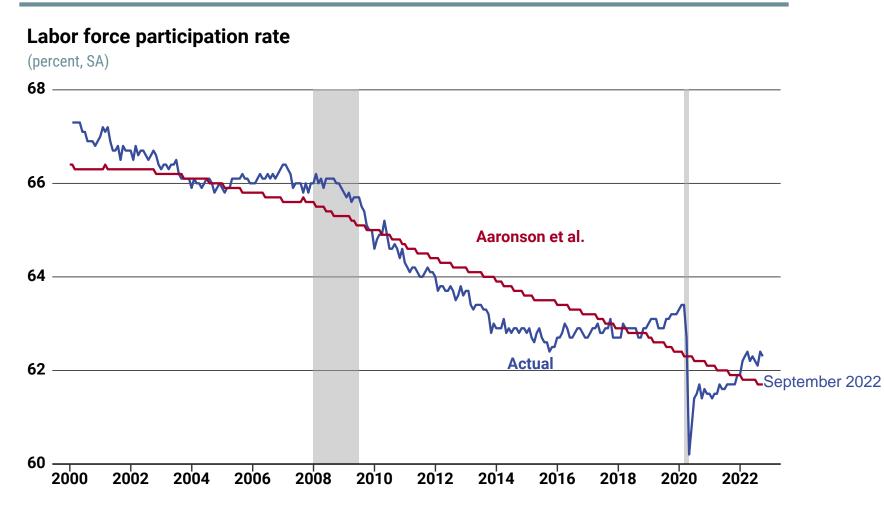
## **Labor market tightness**

(tightness = job openings per unemployed worker)



Source: Bureau of Labor Statistics via Haver Analytics

## Some workers have not returned to the labor market

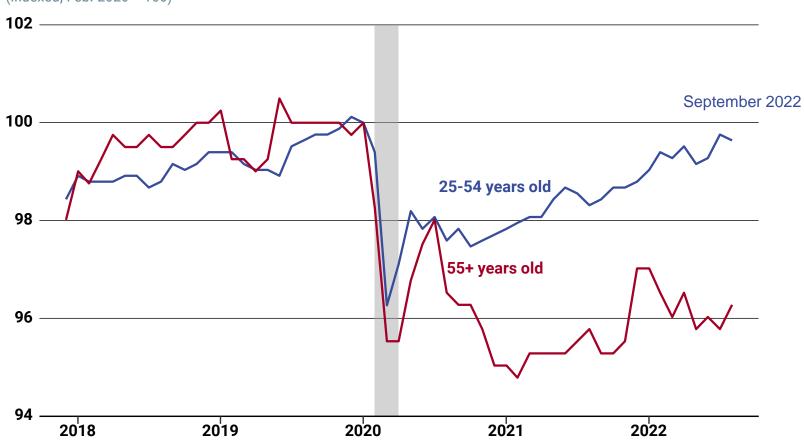


Sources: Bureau of Labor Statistics via Haver Analytics; Chicago Federal Reserve Bank staff calculations using methodology in Aaronson, Hu, Seifoddini, and Sullivan (2014)

## Older workers remain on the sidelines

## Labor force participation by age

(indexed, Feb. 2020 = 100)

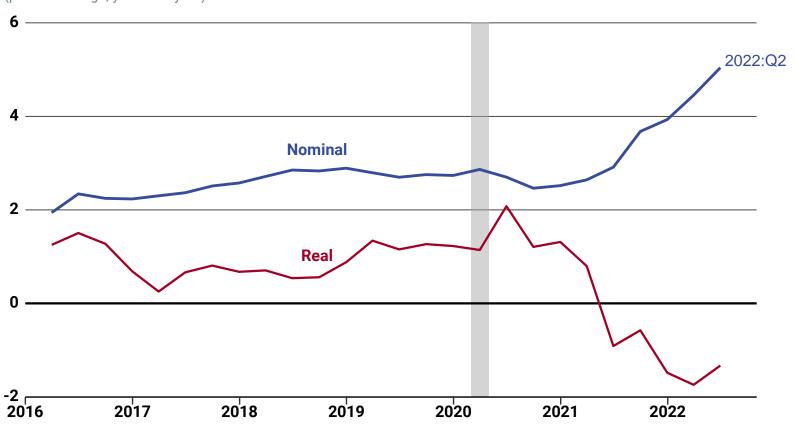


Source: Bureau of Labor Statistics via Haver Analytics

# Wages are up but have not kept up with inflation

## **Employment cost index: civilian workers**

(percent change, year-over-year)



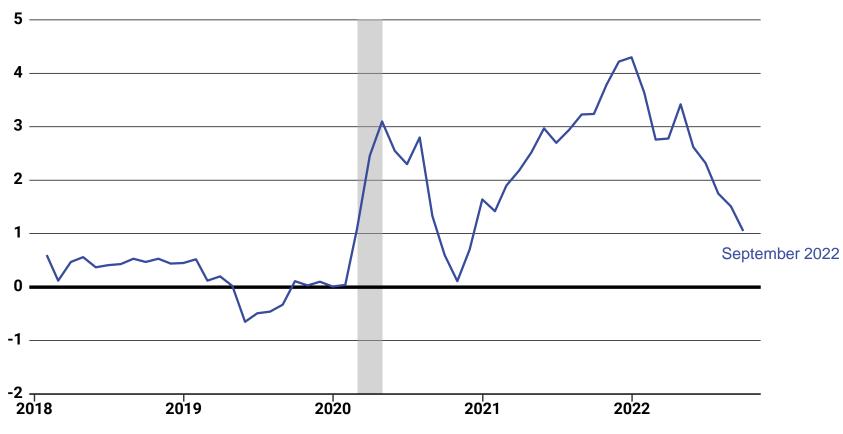
Note: Real ECI is nominal ECI deflated by the price index for total personal consumption expenditures.

Source: BLS via Haver Analytics

# Supply chain issues have been a challenge

## Federal Reserve Bank of New York Global Supply Chain Pressure Index

(standard deviations from average)

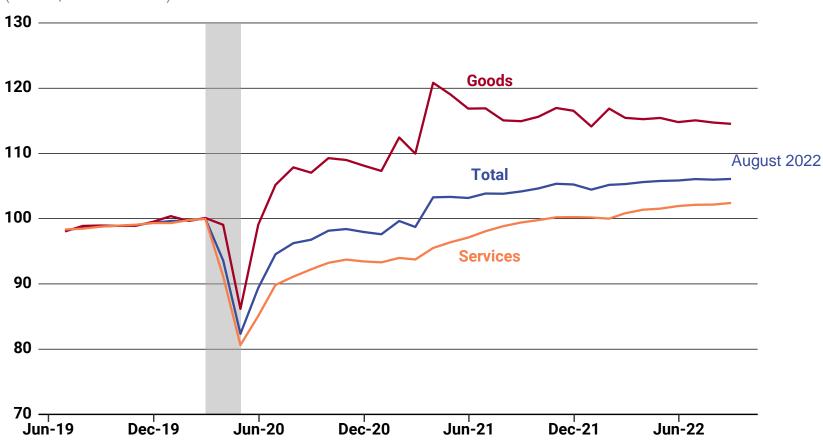


Source: Federal Reserve Bank of New York using data from Bureau of Labor Statistics; Harper Petersen Holding GmbH; Baltic Exchange; IHS Markit; Institute for Supply Management; Haver Analytics; Refinitiv

# High demand for goods contributes to imbalances

#### Real personal consumption expenditures

(indexed, Feb. 2020 = 100)



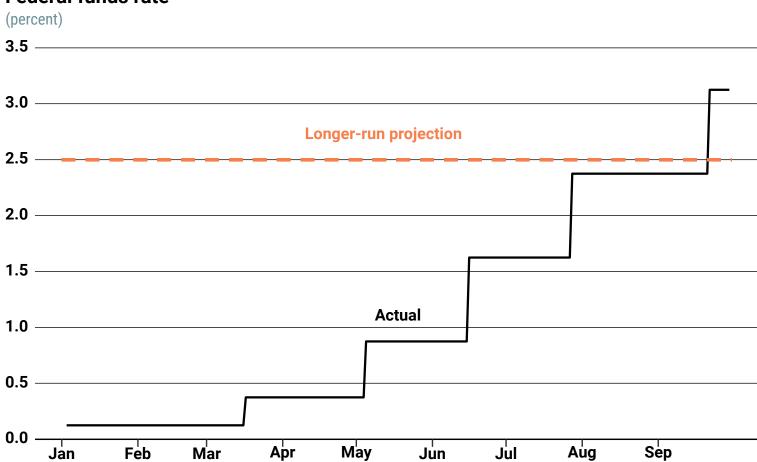
Source: Bureau of Economic Analysis via Haver Analytics

# How do we bring inflation down?

- Get demand and supply in better balance
- Need restrictive monetary policy to slow demand
  - Returning inflation to the 2% target will require a slowdown in growth and some increase in unemployment
- Supply chain repair will help
- Policy goal:
  - Bring inflation back to 2% without causing unnecessary pain

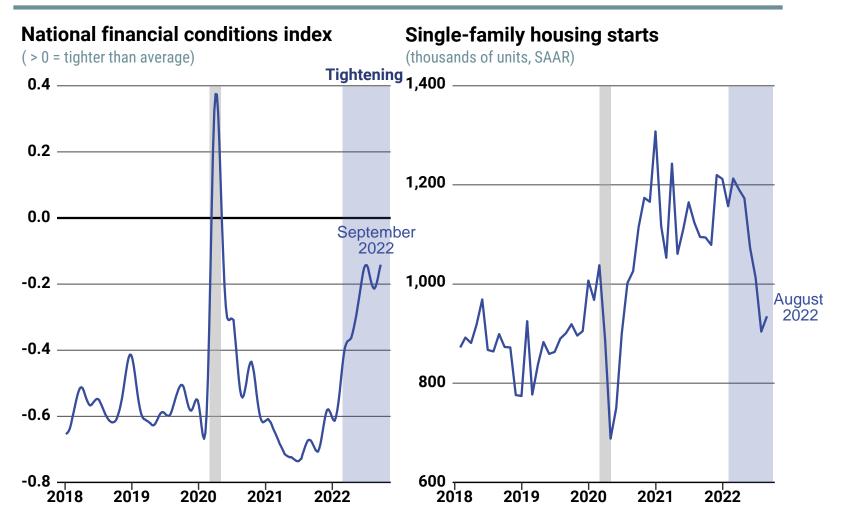
# Monetary policy has tightened rapidly

#### **Federal funds rate**



Sources: Federal Reserve Board Division of Monetary Affairs; FOMC Summary of Economic Projections via Haver Analytics

# Impact of tighter monetary policy

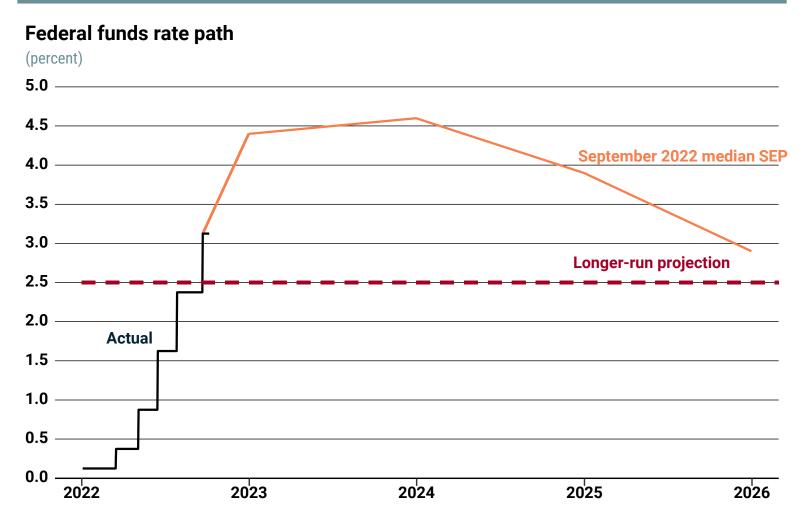


Sources: Federal Reserve Bank of Chicago and U.S. Census Bureau via Haver Analytics

## What lies ahead?

- Tighter monetary policy
- Slowing growth
- Some increase in unemployment
- Inflation moderating toward 2% target

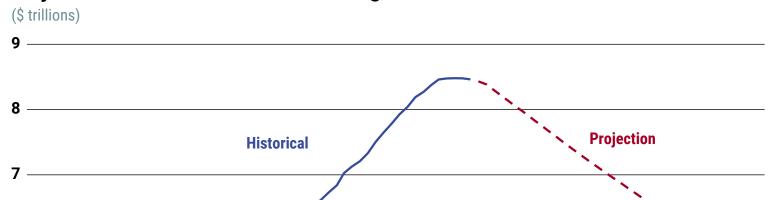
# Monetary policy is expected to tighten further

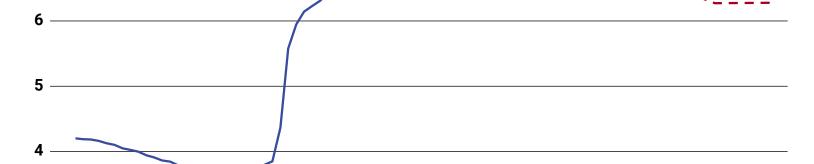


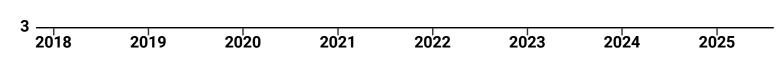
Sources: Federal Reserve Board Division of Monetary Affairs; FOMC Summary of Economic Projections via Haver Analytics

# Quantitative tightening is also underway

## Projected baseline balance sheet holdings





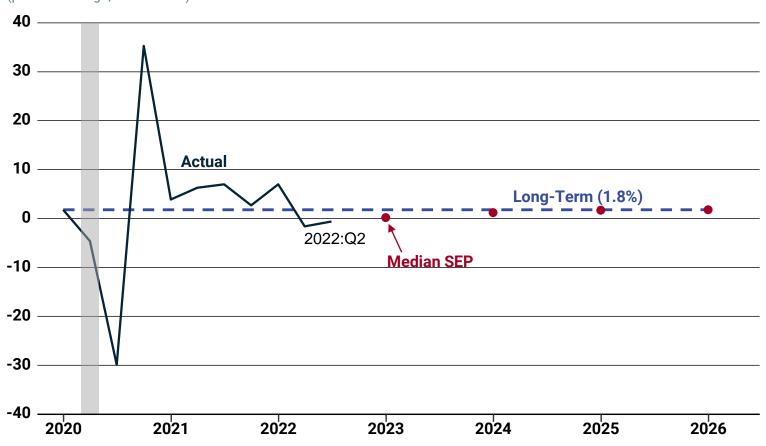


Source: Board of Governors of the Federal Reserve System, July 15, 2022

# Growth is expected to be low

#### **Real GDP Growth and Median SEP**

(percent change, annual rate)

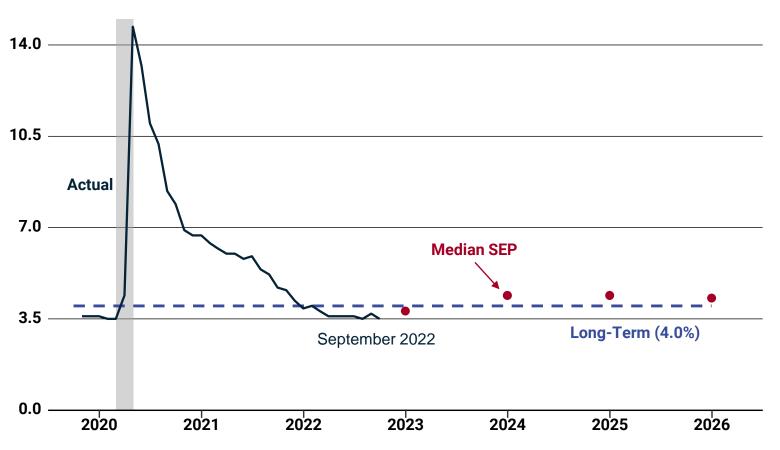


Source: Bureau of Economic Analysis and FOMC Summary of Economic Projections via Haver Analytics

# Unemployment is expected to rise modestly

## **Unemployment Rate and Median SEP**

(percent, SA)



Source: Bureau of Labor Statistics and FOMC Summary of Economic Projections via Haver Analytics

# Inflation is expected to moderate

## **Total and core PCE price indices and median SEPs**

(12-month percent change; Q4/Q4 for SEPs)



Source: Burueau of Economic Analysis and FOMC Summary of Economic Projections via Haver Analytics

## Outside forecasters are similar to the FOMC

#### **Median Private-Sector Forecasts of Key Indicators**

	2022	2023
GDP	-0.1	0.5
Unemployment	3.7	4.4
PCE	5.4	2.2
Core PCE	4.4	2.8

Notes: Private forecaster median projections as of October 6. GDP growth and inflation rates are Q4/Q4. Unemployment is the projected rate in Q4 of each year.

Sources: Various private forecasters; staff calculations

# Monetary policy tradeoffs

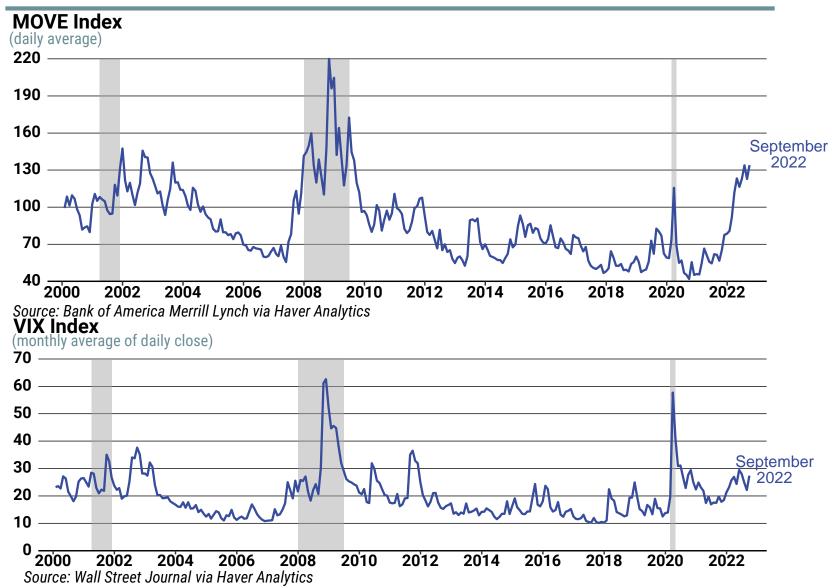
- Aim: Full employment and price stability
- If raise rates too slowly and/or to a level that isn't restrictive enough inflation will stay elevated
- Threading a needle



## Long-run inflation expectations appear anchored



## Financial market risk has increased



# Threading the needle on inflation

## Helps

- Workers on the sidelines return to the labor market
- Consumption patterns normalize and take pressure off supply chains
- Supply backlogs get worked out
- Job postings go down, wage growth slows

## Hinders

- Global conflict or other shocks intensify supply disruptions
- Wage growth accelerates and fuels inflationary pressures
- Long-run inflation expectations increase

# Summing up

- Sharp, rapid decline followed by sharp, rapid recovery
- Inflation has increased and inflation pressures have broadened
- Rapid tightening of monetary policy and more to come
- Forecast is that we thread the needle: bring inflation down with only modest costs in terms of growth and unemployment
- Risks abound



www.chicagofed.org