

The Inflation Outlook

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Historical perspective

Core PCE

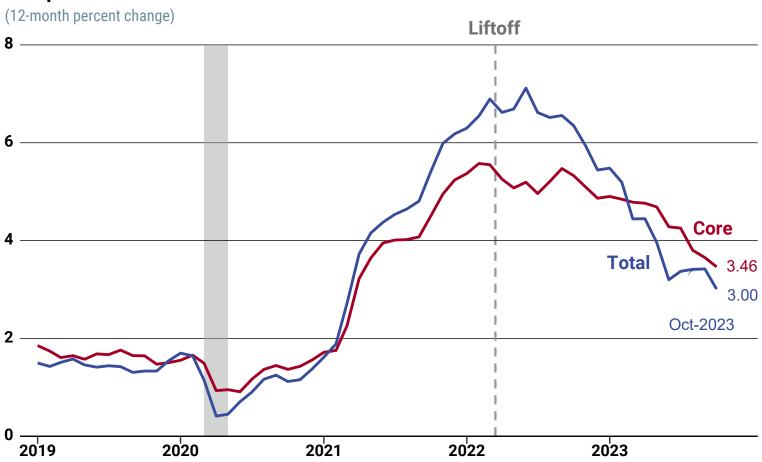
(year-year percent change)



Source: BEA via Haver Analytics, Federal Reserve Board of Governors

Progress, but inflation remains elevated

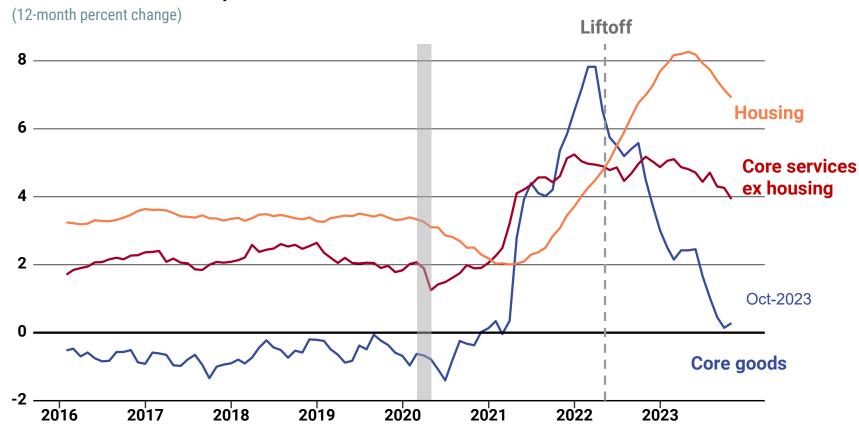
PCE price index



Source: BEA via Haver Analytics

Look at components to gauge progress

Core PCE Inflation Components



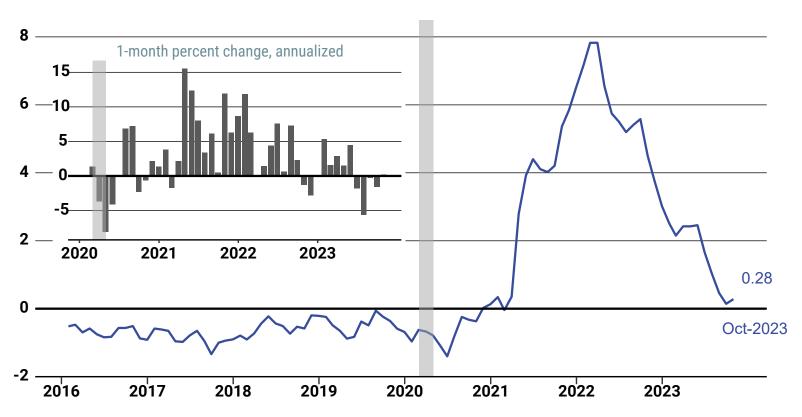
Note: Core goods are goods less food and beverages purchased for off-premise consumption and gasoline and other energy goods. Core services are services less electricity and gas. Food services are included, as is the case in BEA core PCE prices.

Source: BEA via Haver Analytics; staff calculations

Core goods

PCE core goods

(12-month percent change)



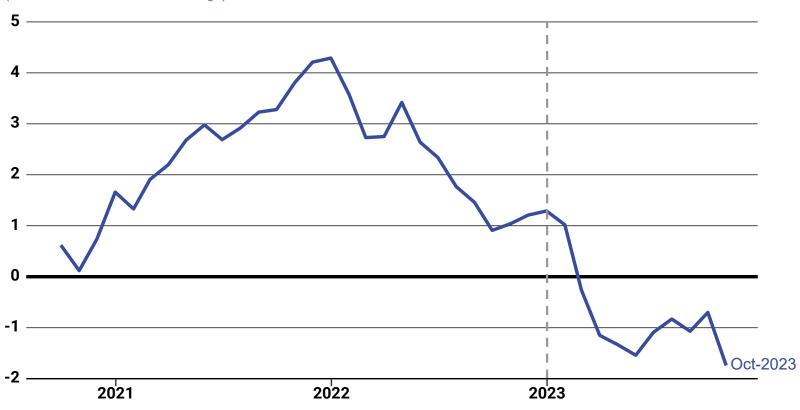
Note: Core goods are goods less food and beverages purchased for off-premise consumption and gasoline and other energy goods.

Source: BEA via Haver Analytics; staff calculations

Core goods: Supply chain healing

Global Supply Chain Pressure Index

(Standard deviations from average)

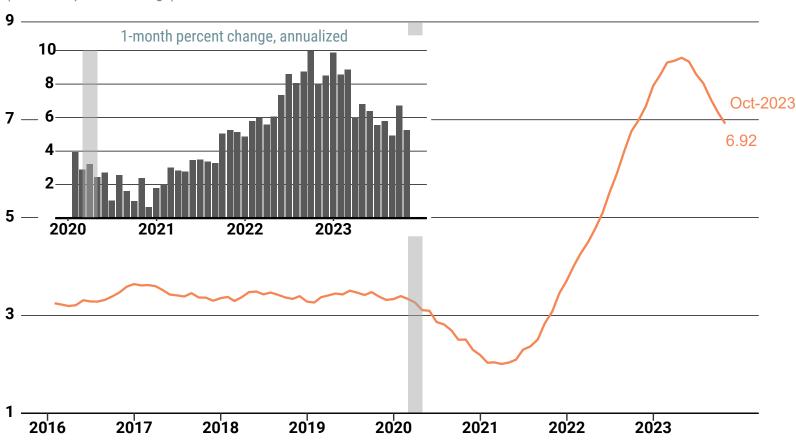


Source: Federal Reserve Bank of New York using data from Bureau of Labor Statistics; Harper Petersen Holding GmbH; Baltic Exchange; IHS Markit; Institute for Supply Management; Haver Analytics; Refinitiv

Housing services

PCE housing services

(12-month percent change)

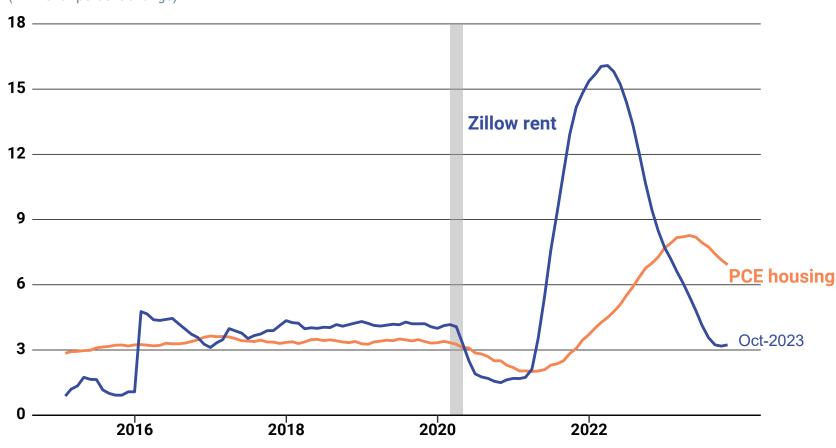


Source: BEA via Haver Analytics; staff calculations

Housing services: More to come on rents

PCE housing services and Zillow Observed Rent Index

(12-month percent change)

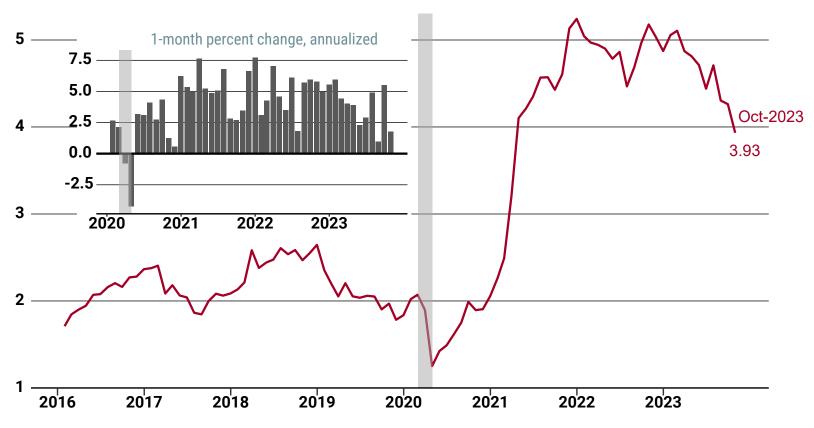


Source: BEA and Zillow via Haver Analytics; staff calculations

Services ex housing

PCE core services ex housing

(12-month percent change)



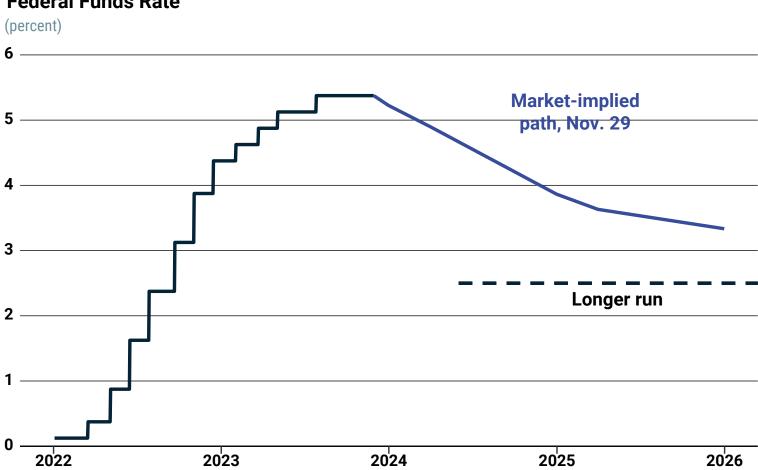
Note: Core services are services less electricity and gas. Food services are included, as is the case in BEA core PCE prices. Source: BEA via Haver Analytics; staff calculations

Monetary policy the key going forward

- Pandemic-related distortions are mostly resolved
- Monetary policy must do the heavy lifting now
- Looking for further softening in labor market and below trend growth
- Stable long term inflation expectations

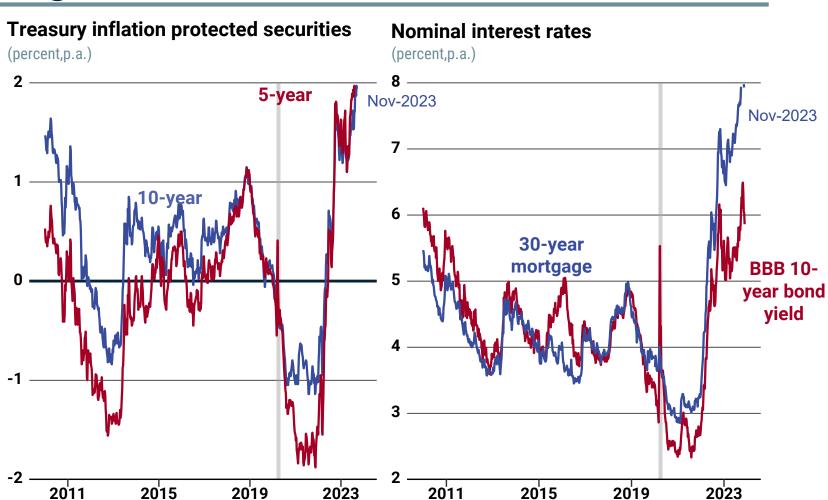
Monetary policy: Federal Funds Rate

Federal Funds Rate



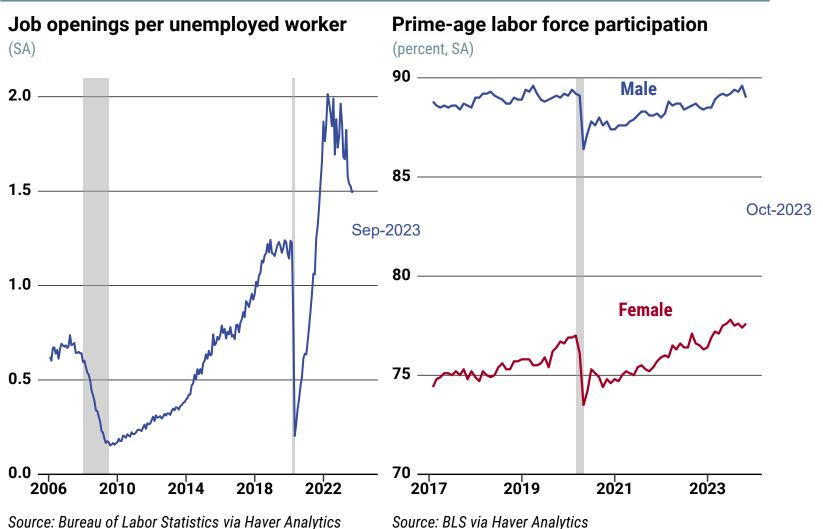
Sources: Federal Reserve Board of Governors

Tight financial conditions



Source: Federal Reserve Board via Haver Analytics

Labor market coming into balance ...



Source: Bureau of Labor Statistics via Haver Analytics

... with signs of cooling

Total Hours Worked, Private Employees

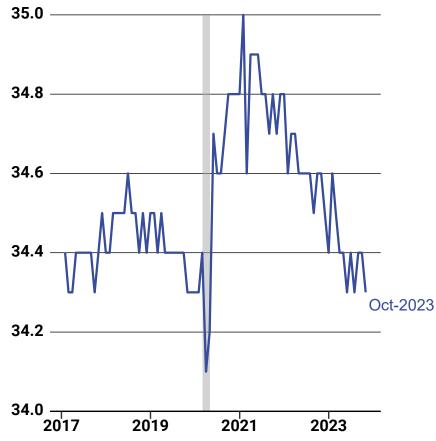
(Index = 100 @ 2007; seasonally adjusted)



Source: BLS via Haver Analytics

Average weekly hours worked, private employees

(seasonally adjusted)

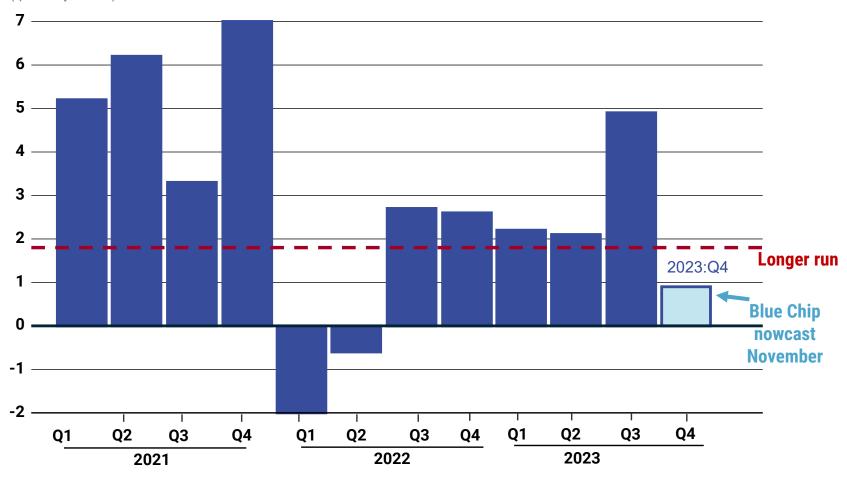


Source: BLS via Haver Analytics

But growth has come in strong

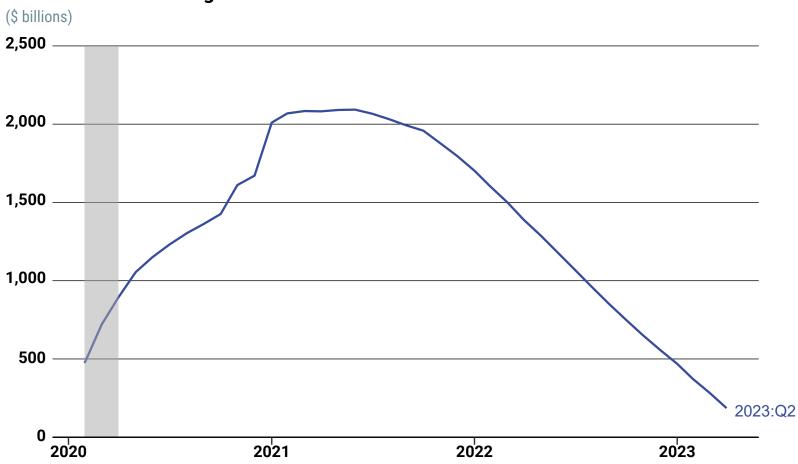
Real GDP growth

(quarterly, SAAR)



Households have less "extra" savings

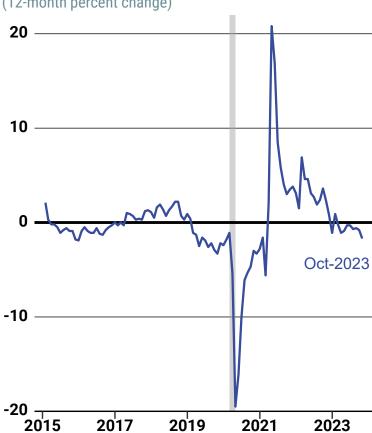
Stock of Excess Savings



Moderating real activity

Industrial production, manufacturing sector

(12-month percent change)



Source: Federal Reserve Board via Haver Analytics

Private residential investment

(4-quarter percent change)

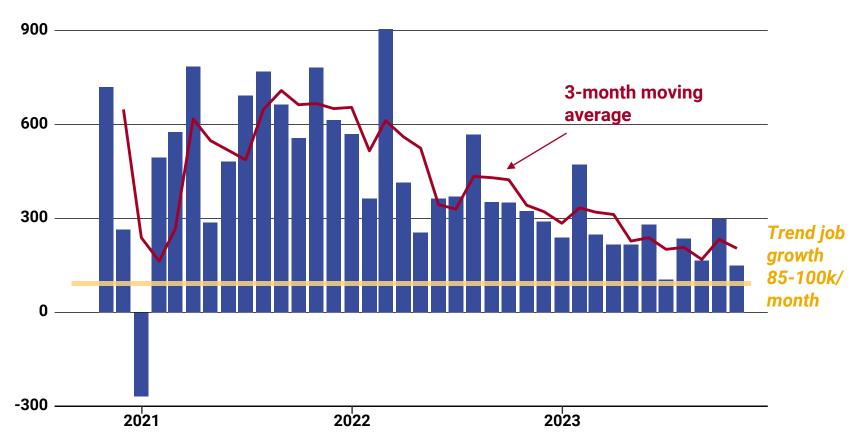


Source: BEA via Haver Analytics

Yet labor market still strong

Change in Total Nonfarm Payroll Employment

(Thousands, SA)



Source: BLS via Haver Analytics

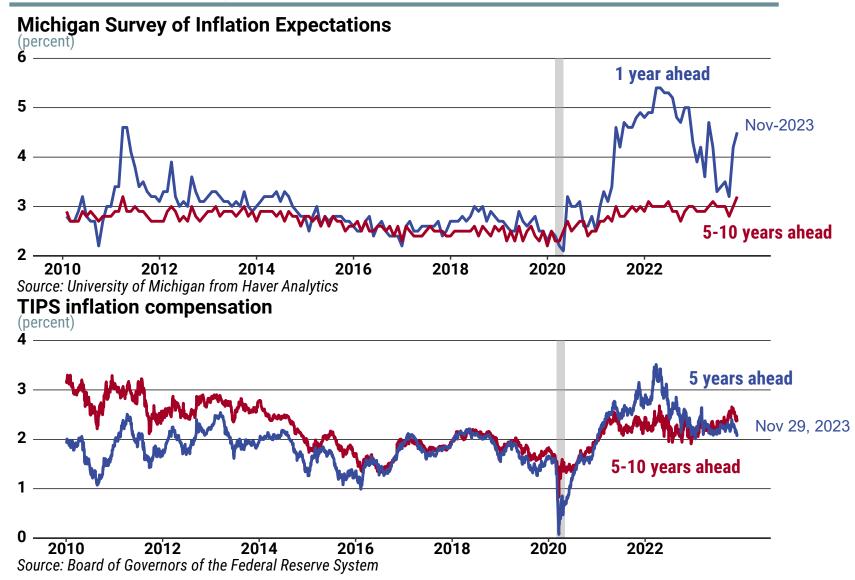
Soft landing?

	GDP	Unemployment Rate	Total PCE	Core PCE
2023 Year-to-date	3.1	3.9	3.1	3.3
2024 Blue Chip Median Forecast (Nov. 2023)	0.8	4.3	2.3	2.4

Notes: 2024 Blue Chip Forecast as of November 2023. For Blue Chip forecasts, GDP and total and core PCE prices are Q4/Q4 percent changes. Unemployment rate is the Q4 average. For YTD data, GDP is the annualized real GDP growth rate from 2022:Q4 through 2022:Q3; unemployment rate is the rate in Oct. 2023; and total and core PCE inflation are the annualized percent change in the indexes from December 2022 through October 2023.

Sources: Wolters Kluwer, BEA, and BLS via Haver Analytics

Stable longer term inflation expectations



Summing up

- Inflation remains elevated, but clear progress
- Monetary policy remains restrictive
- Cooling labor market and reasons to expect a slowdown
- Soft landing?

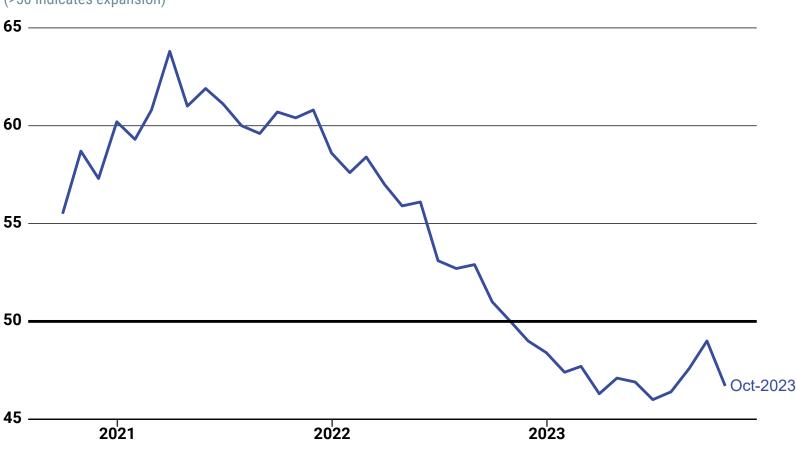


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Manufacturing activity still slowing

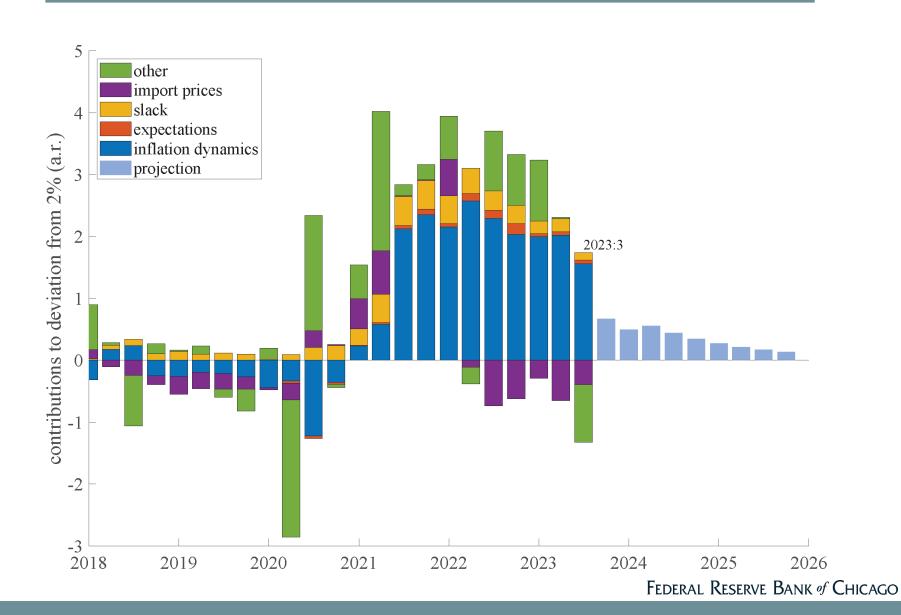
ISM Manufacturing: PMI Composite Index

(>50 indicates expansion)



Source: Institute for Supply Management via Haver Analytics

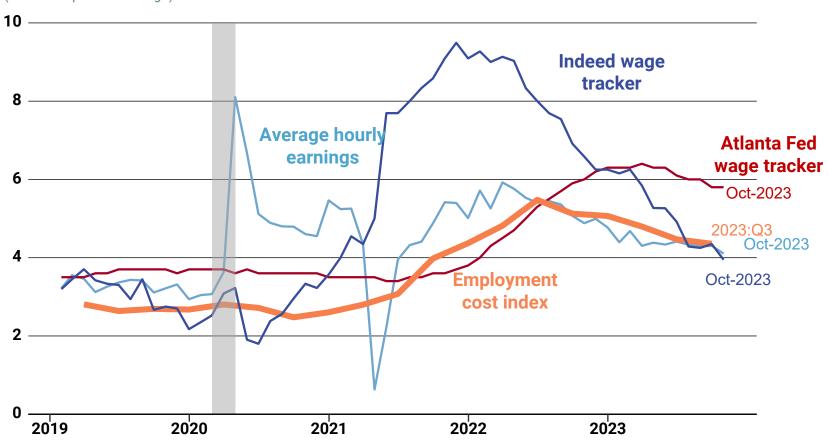
Drivers of core PCE inflation



Wage growth slowing

Wage growth

(12-month percent change)



Source: BLS, Federal Reserve Bank of Atlanta via Haver Analytics; Indeed

Signs of moderating real activity

Industrial production, manufacturing sector

(12-month percent change)



Source: Federal Reserve Board via Haver Analytics

Private residential investment

(4-quarter percent change)



Source: BEA via Haver Analytics