

Economic Developments and Monetary Policy Environment

Federal Reserve Bank of Chicago Academic Advisory Council Meeting November 17, 2022

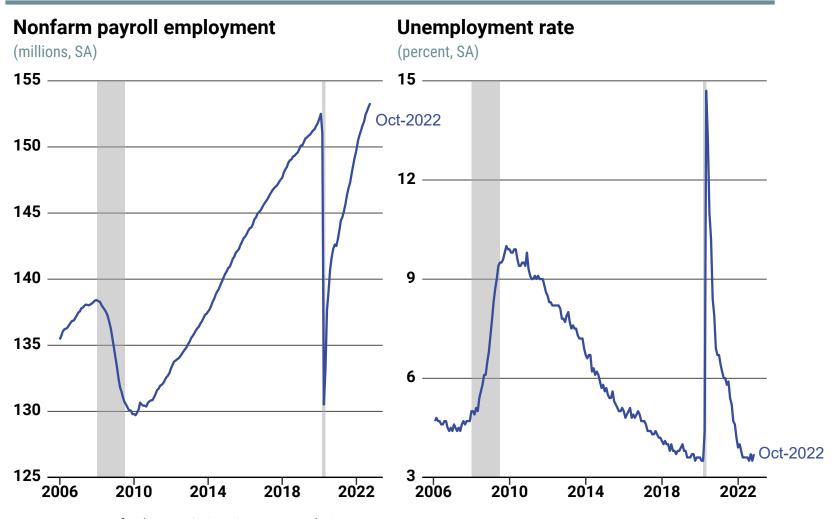
Spencer Krane

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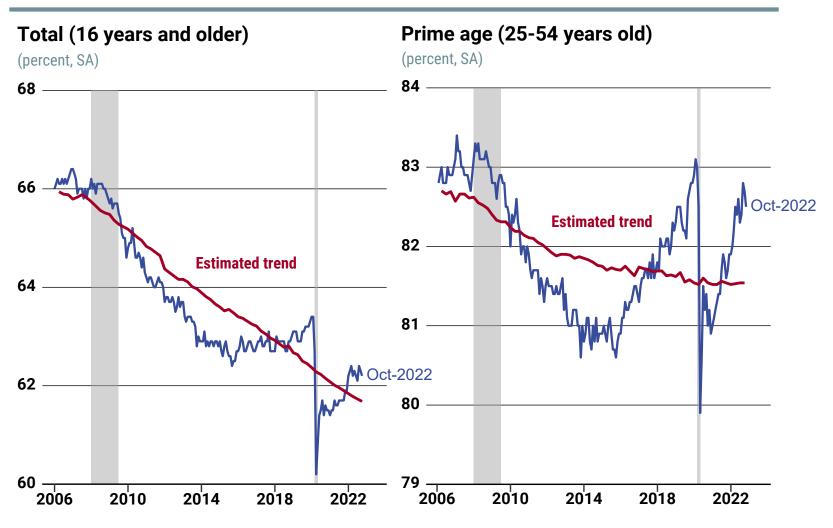
Labor market robust



Source: Bureau of Labor Statistics via Haver Analytics



Labor force participation



Source: Bureau of Labor Statistics via Haver Analytics, internal series from the Chicago Fed using methodology in Aaronson, Hu, Saifoddini, and Sullivan



Job openings and quits still extremely high



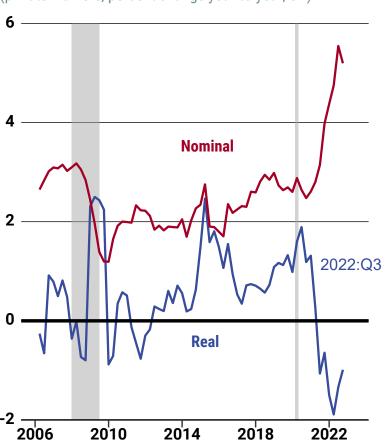
Source: Bureau of Labor Statistics via Haver Analytics



Compensation, labor costs, and prices

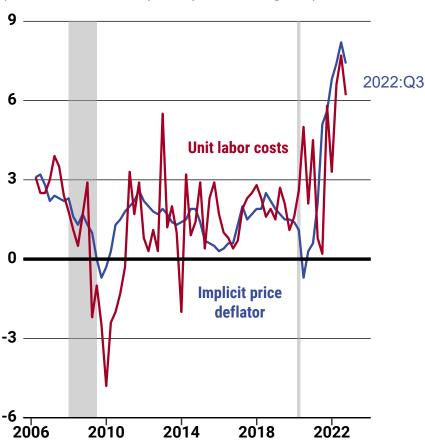
ECI compensation

(private workers, percent change year-to-year, SA)



Unit labor costs and inflation

(business sector, four-quarter percent change, SA)



Source: Bureau of Labor Statistics via Haver Analytics

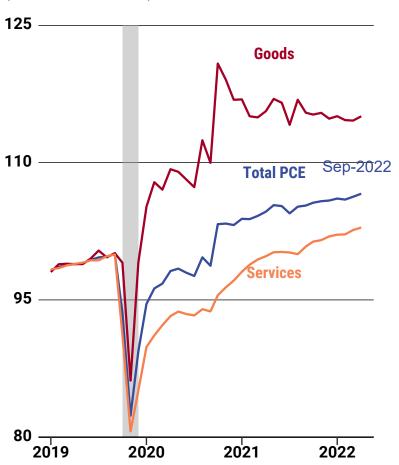
Note: Real ECI compensation is nominal ECI deflated by total PCE Price Index.



Household spending

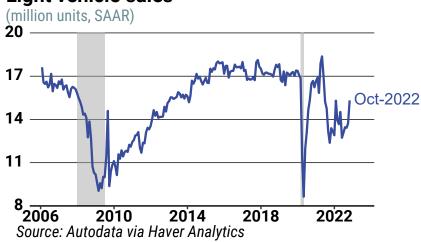
Real personal consumption expenditures

(index, Feb-2020 = 100)



Source: U.S. Bureau of Economic Analysis via Haver Analytics

Light vehicle sales

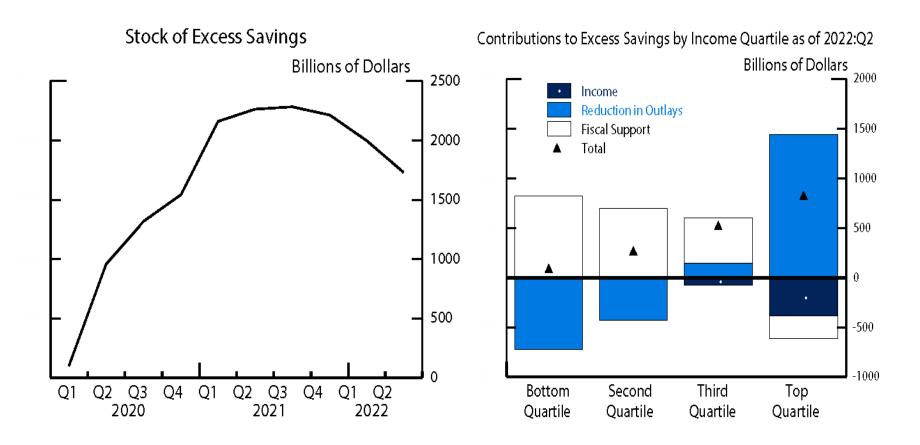


Single family housing starts and permits





Household balance sheets

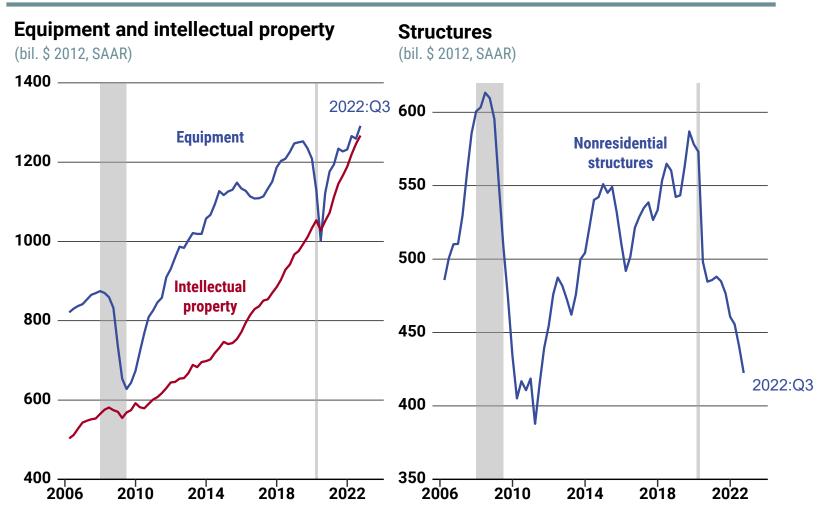


Source: Federal Reserve Board of Governors

https://www.federalreserve.gov/econres/notes/feds-notes/excess-savings-during-the-covid-19-pandemic-20221021.html



Nonresidential investment



Source: Bureau of Economic Analysis via Haver Analytics



Global growth outlook revised down

IMF GDP Forecasts ¹	2022	2023
Advanced Economies	2.4	1.1
April	3.3	2.4
Emerging Economies	3.7	3.7
April	3.8	4.4
United Kingdom	3.6	0.3
April	3.7	1.2
Euro Area	3.1	0.5
April	2.8	2.3
China	3.2	4.4
April	4.4	5.1

¹ Percent change in average annual level of real GDP

Source: International Monetary Fund World Economic Outlook, October (current) and April 2022



Business activity and supply constraints



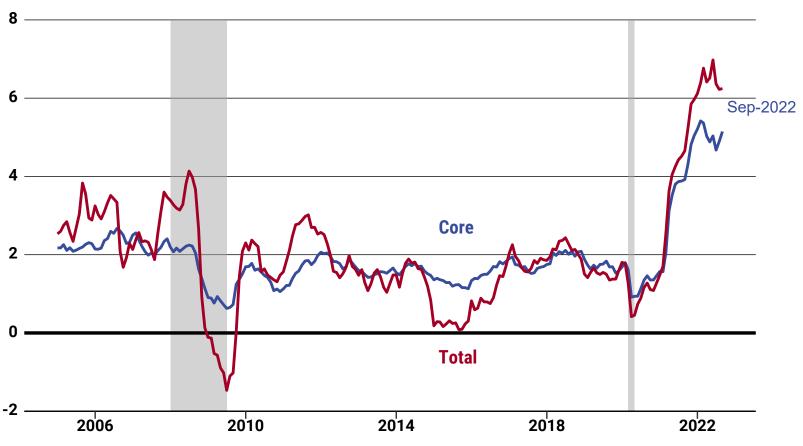
^{1.} Institute for Supply Management via haver Analytics; 2. Federal Reserve Bank of New York using data from Bureau of Labor Statistics, Harper Petersen Holding GmbH, Baltic Exchange, IHS Markit, Institute for Supply Management, Refinitiv, Haver Analytics



Inflation very high

PCE Price Index

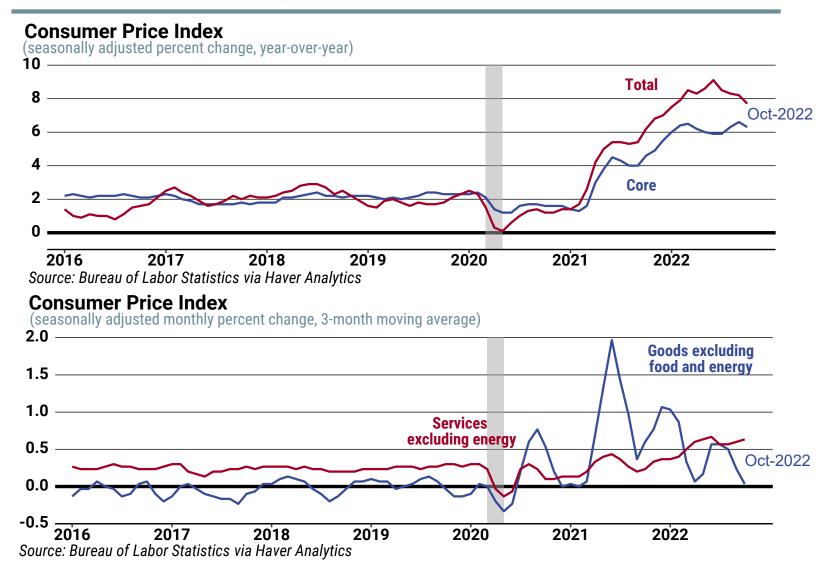
(12-month percent change)



Source: Bureau of Economic Analysis via Haver Analytics



CPI inflation: goods lower; services higher



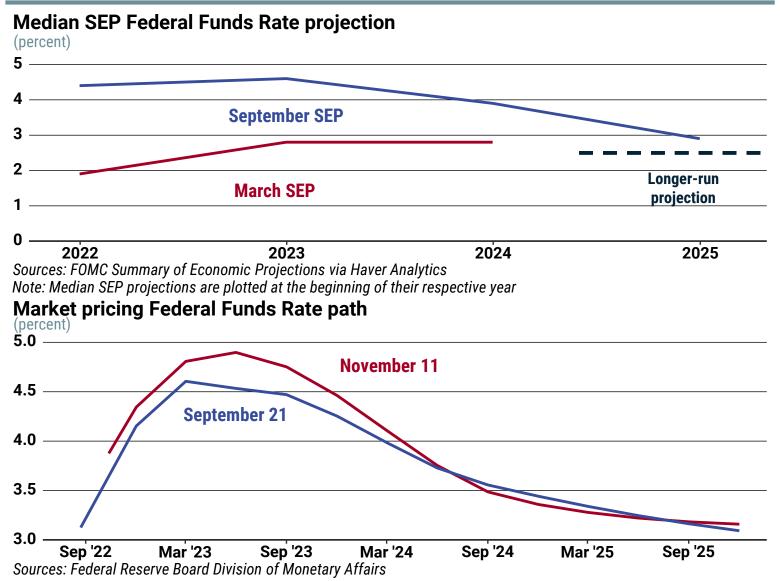


Inflation expectations





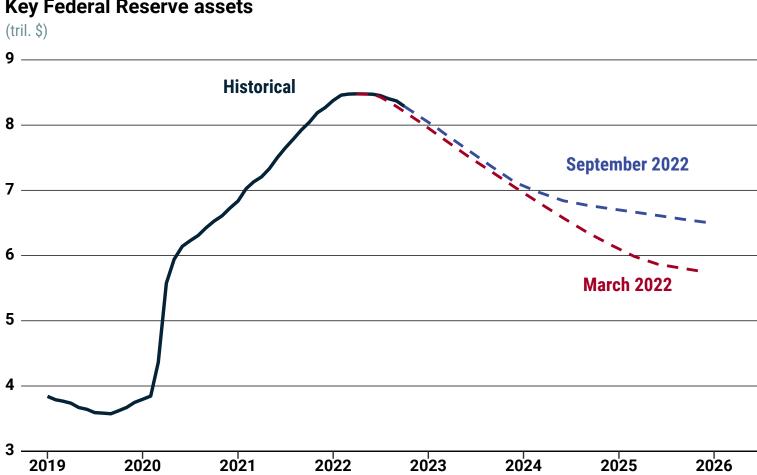
Higher fed funds rate





Smaller balance sheet

Key Federal Reserve assets



Source: Federal Reserve Board via Haver Analytics; FRBNY Survey of Market Participants



Financial market developments

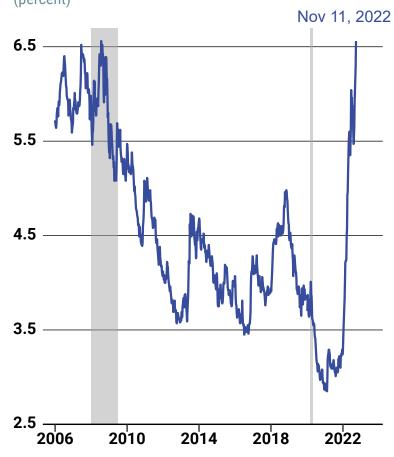




Financial market developments, cont.

30-year fixed mortgage rate

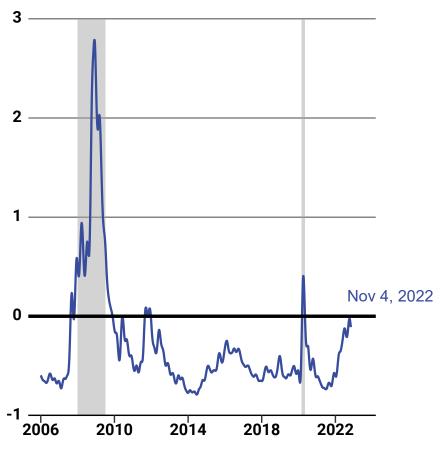
(percent)



Source: Wall Street Journal via Haver Analytics

Chicago Fed National Financial Conditions Index

(>0 indicates tighter than average)



Source: Federal Reserve Bank of Chicago from Haver Analytics



Interest rate uncertainty





Blue Chip consensus forecasts

Variable	2022	2023
GDP ¹	0.2	0.1
May	1.5	1.9
Unemployment rate ²	3.7	4.7
May	3.5	3.7
PCE inflation ¹	5.8	2.9
May	5.0	2.5
Core PCE inflation ¹	4.9	3.0
May	4.2	2.6

¹Q4/Q4 percent changes

Source: Blue Chip Consensus Forecast via Haver Analytics, November (current) and May 2022

²Q4 level



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Appendix