

Inflation: Now and 50 Years Ago

Regional Banker Forum October 19, 2021

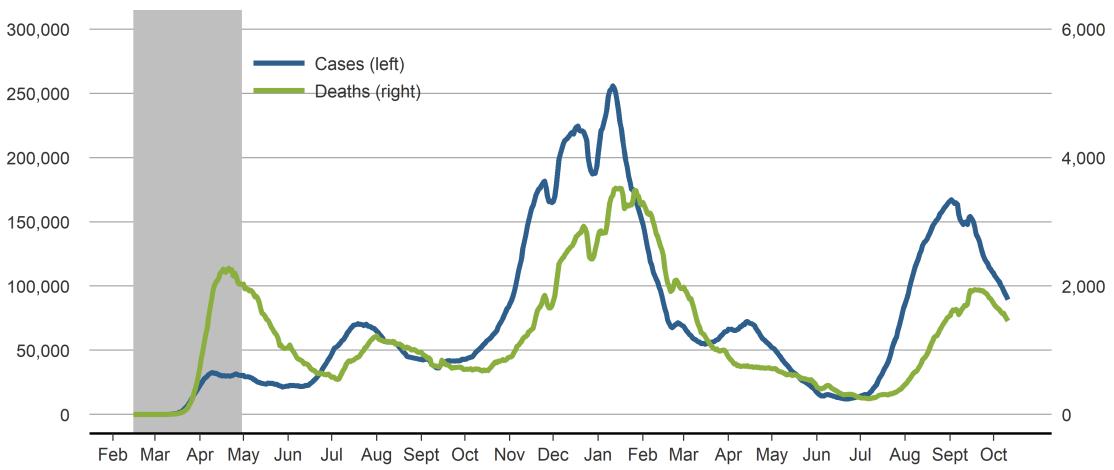
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ISFFed

Delta variant is waning

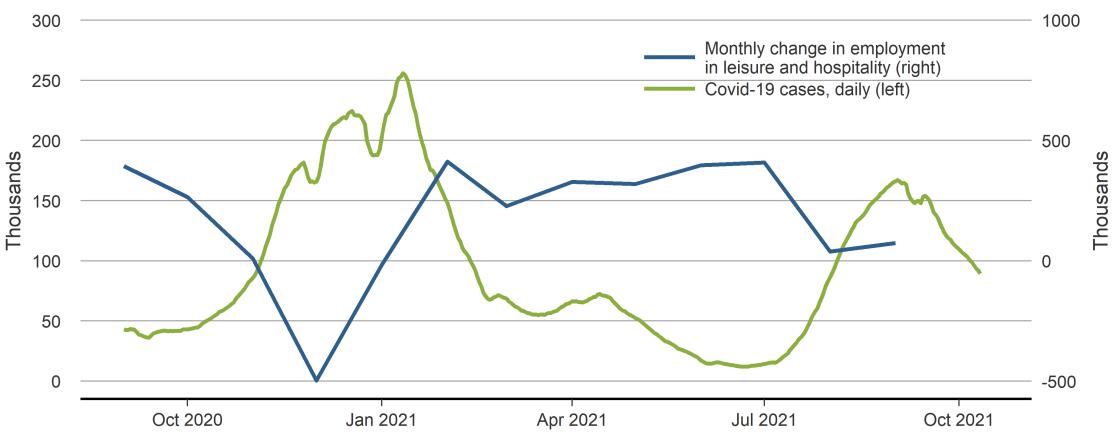
Daily cases and deaths, US COVID-19



Note: All series are 7-day moving averages Source: Worldometer, data through Oct. 11, 2021

As COVID goes, so goes the economy

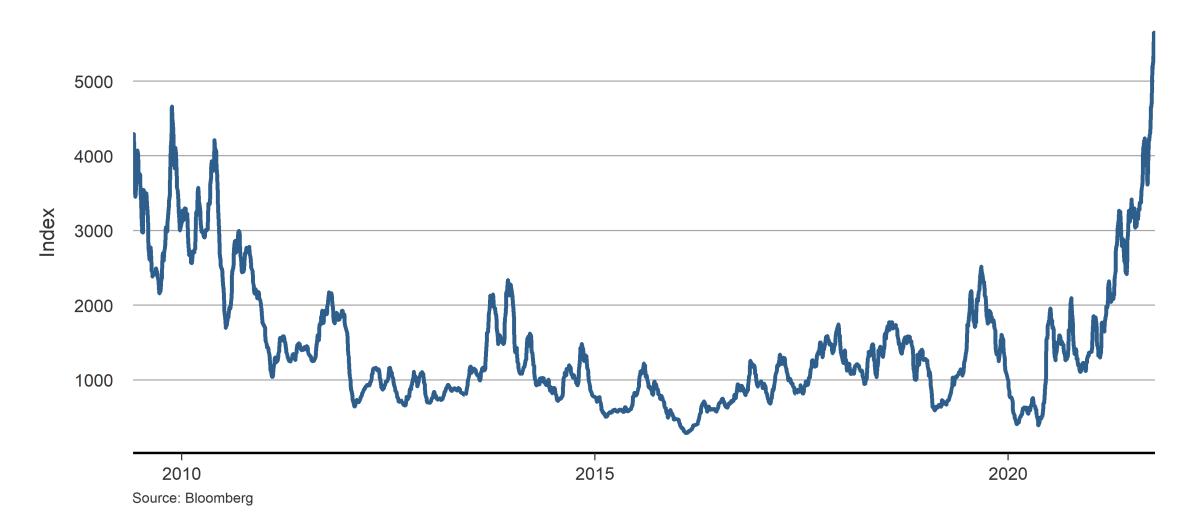
Monthly change in employment in leisure and hospitality and COVID-19 cases



Note: Covid-19 cases shown as 7-day moving averages, employment series is seasonally adjusted. All values shown in 1000s. Source: Worldometer and Bureau of Labor Statistics

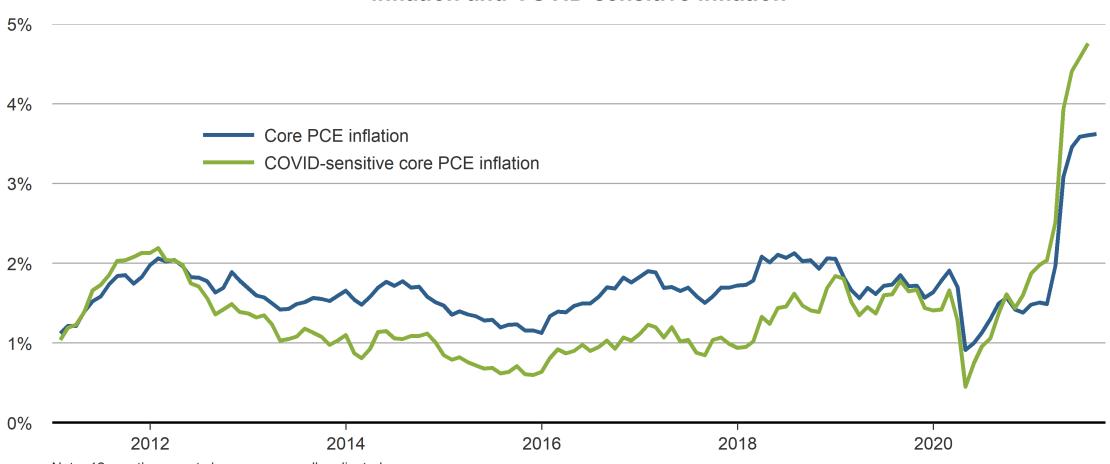
Shipping costs climb with supply chain bottlenecks

Baltic Dry Index (dry bulk carriers or merchant ships)



Inflation rose markedly as economy reopened

Core personal consumption expenditures (PCE) inflation and COVID-sensitive inflation

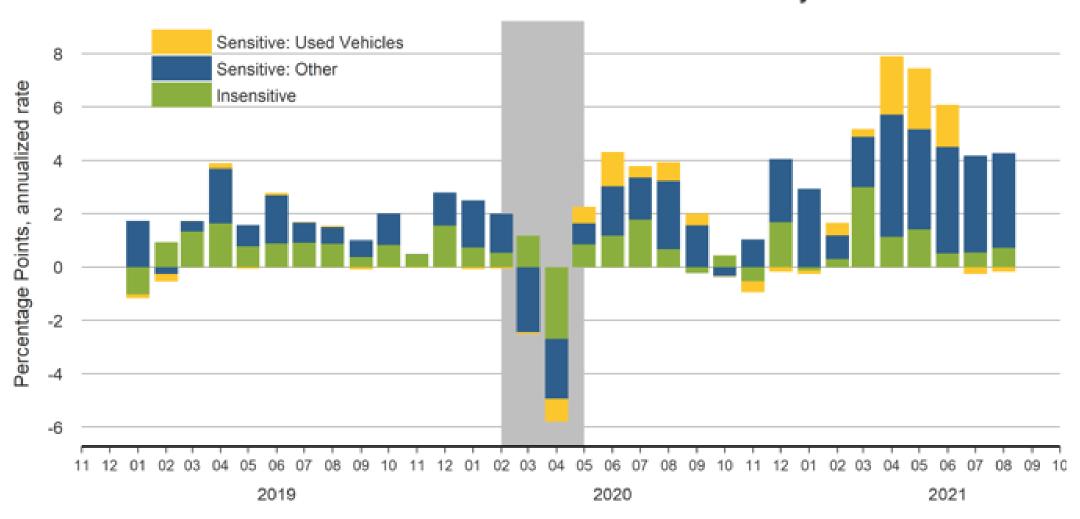


Note: 12-month percent change, seasonally adjusted

Source: FRBSF Staff

COVID-sensitive sectors are pushing inflation up

COVID-Sensitive and COVID-Insenstive Contributions to Monthly Core PCE Inflation



A repeat of the 1970s?

The ups and downs of US inflation

Headline PCE inflation



Factors to keep in mind

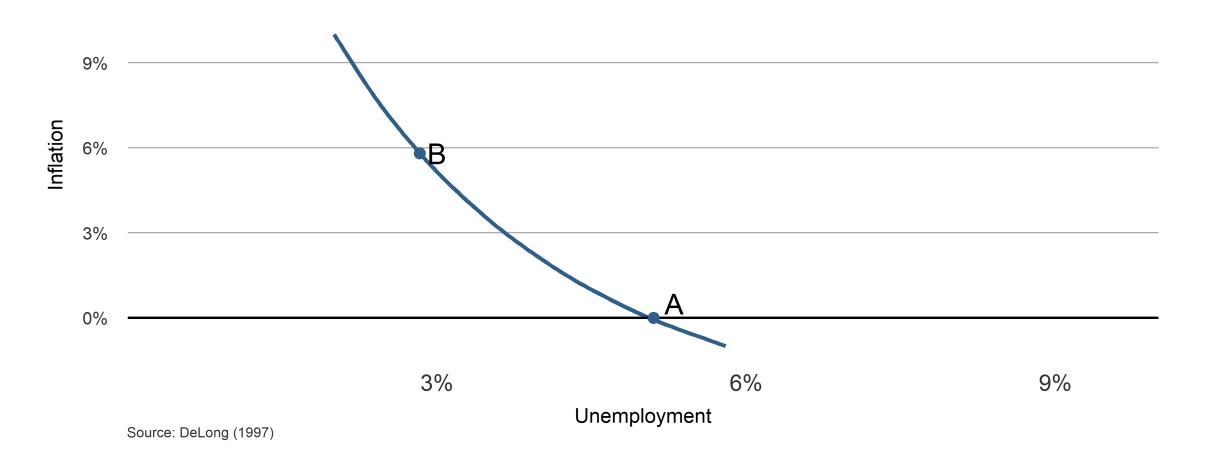
We learned from the Great Inflation

Labor market institutions have changed

Measurement issues are better understood

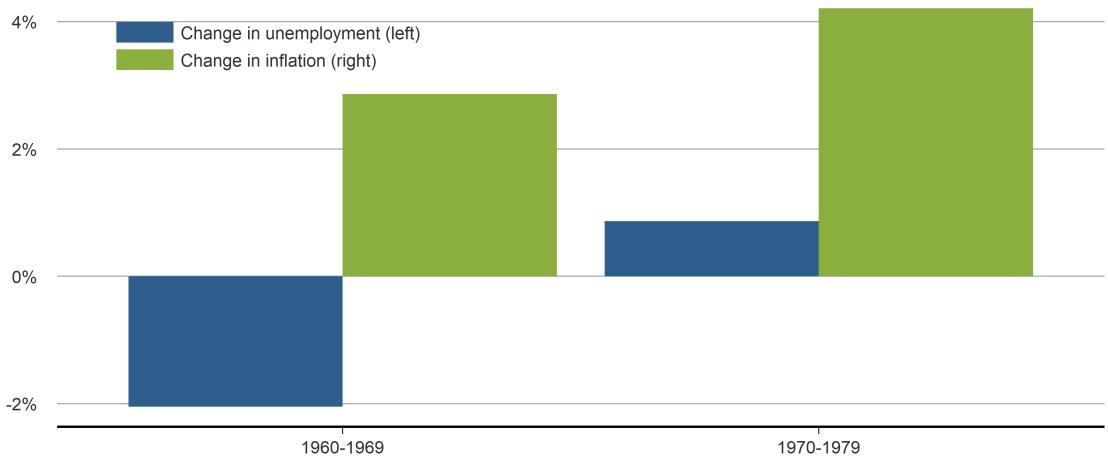
Importance of expectations and natural rates

Estimated Phillips Curve from Samuelson and Solow (1960)



The Phillips curve broke down in the 1970s

Change in unemployment and inflation in the '60s and '70s



Source: Bureau of Labor Statistics and Bureau of Economic Analysis.

Changes in theory: Expectations and natural rates

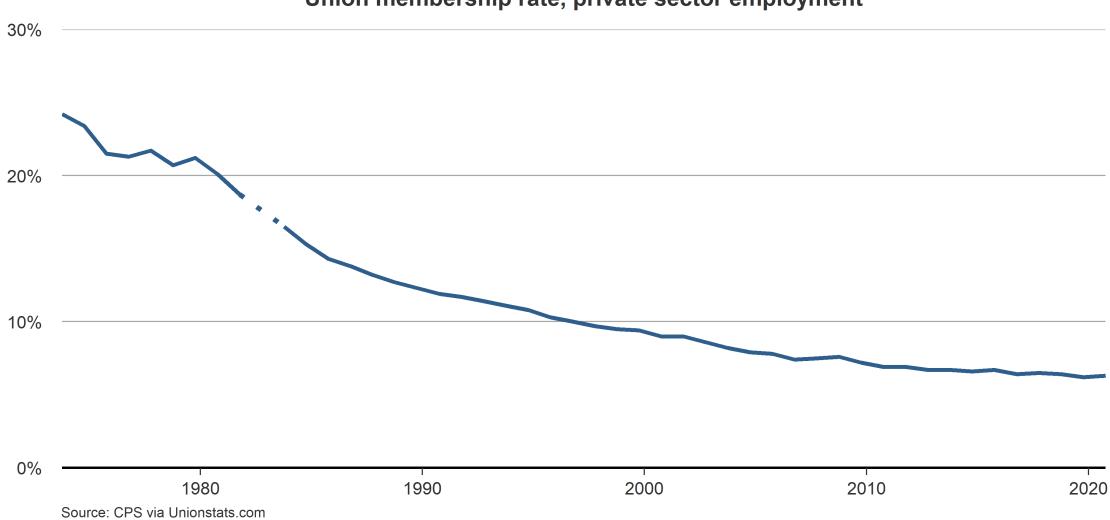




Expectations and wage-price spirals

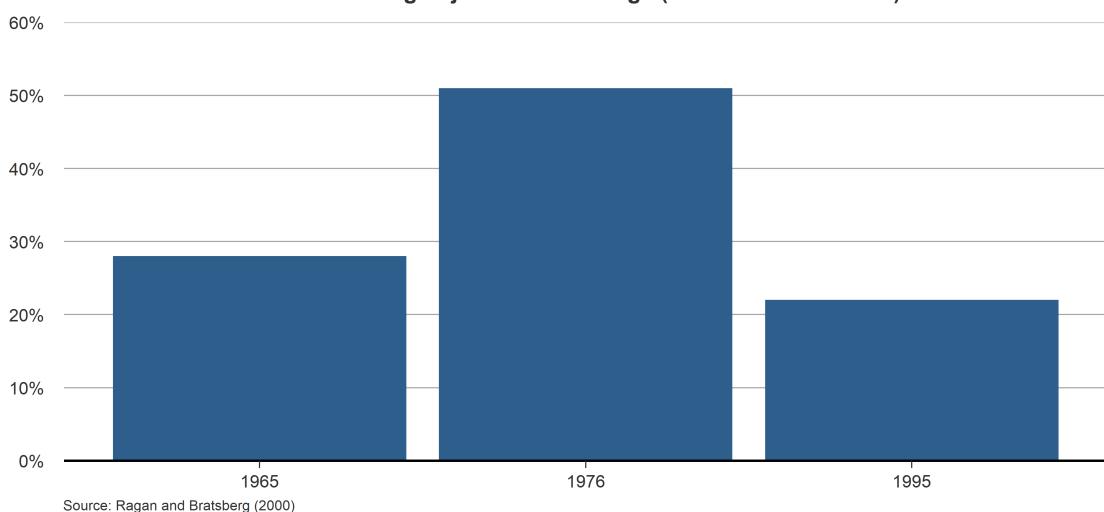
Labor markets have changed

Union membership rate, private sector employment



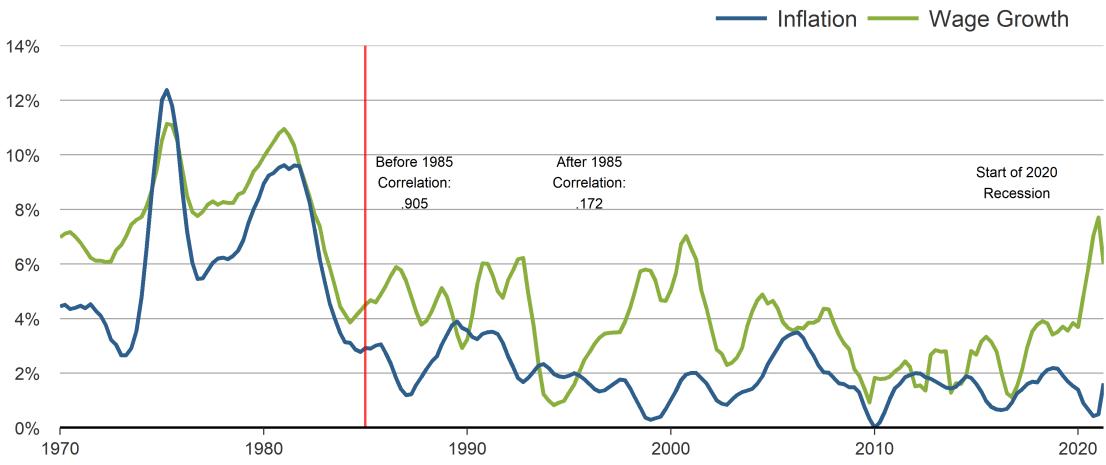
Fewer automatic COLA wage adjustments

Cost-of-living-adjustment coverage (% of union contracts)



Economy less prone to wage-price spirals

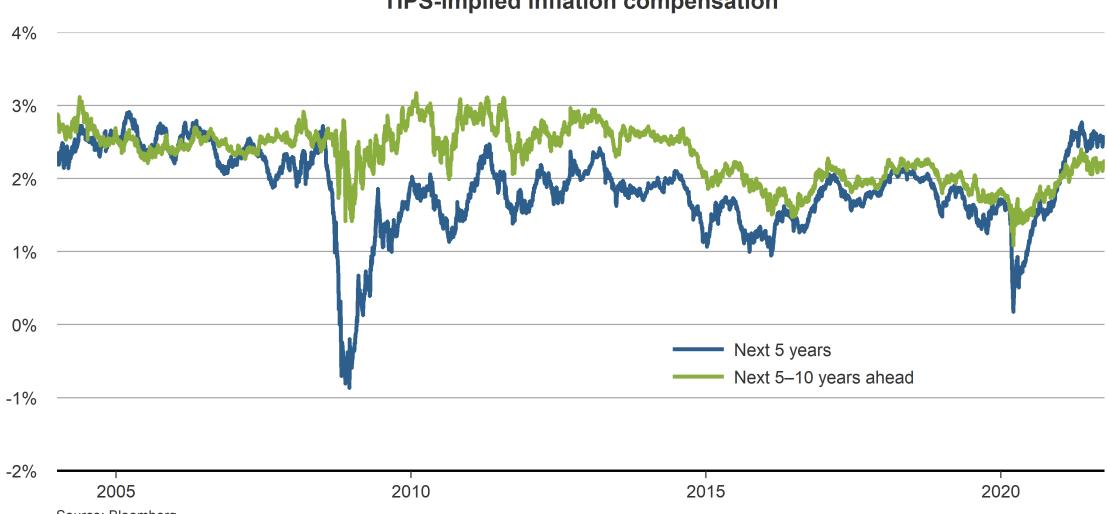
Inflation and Wage Growth Since 1970



Note: Series shown are 3 quarter moving averages. 'Before 1985 correlation' is based on the years 1970-1984. Source: FRBSF calculations using data from Bureau of Labor Statistics and Bureau of Economic Analysis.

Investors are pricing in moderate inflation

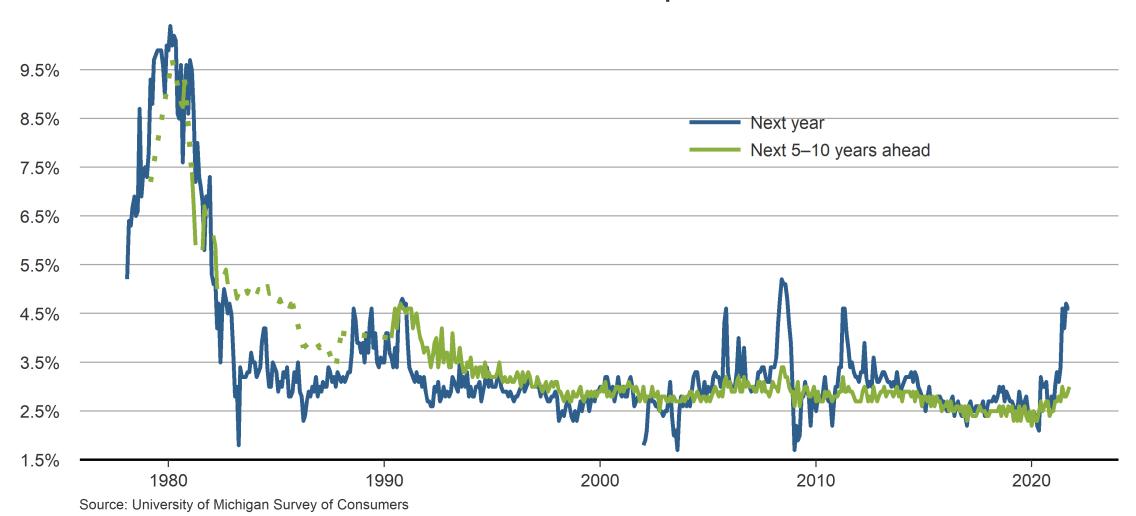




Source: Bloomberg

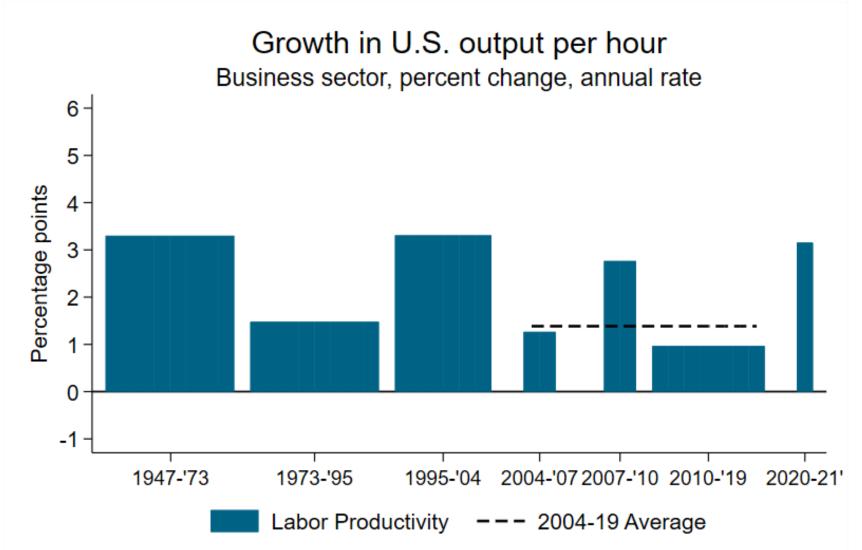
Household inflation expectations are more sensitive

Household inflation expectations



Natural rates and measurement

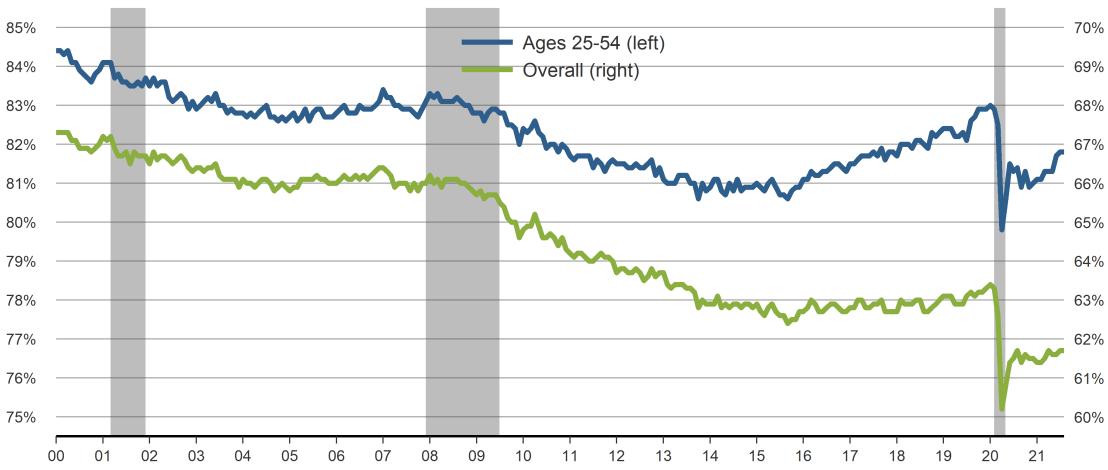
Failed to spot the productivity slowdown



Source: BLS and BEA. Quarterly; Growth rates are all Q4/Q4 except for first bar (which is from 1947Q1 to 1973Q4) and final bar (which shows growth for six quarters from 2020Q1 to 2021Q2). Dotted horizontal line shows average labor productivity growth from 2004Q4 to 2019Q4.

Is labor participation drop temporary or permanent?

Labor force participation rates

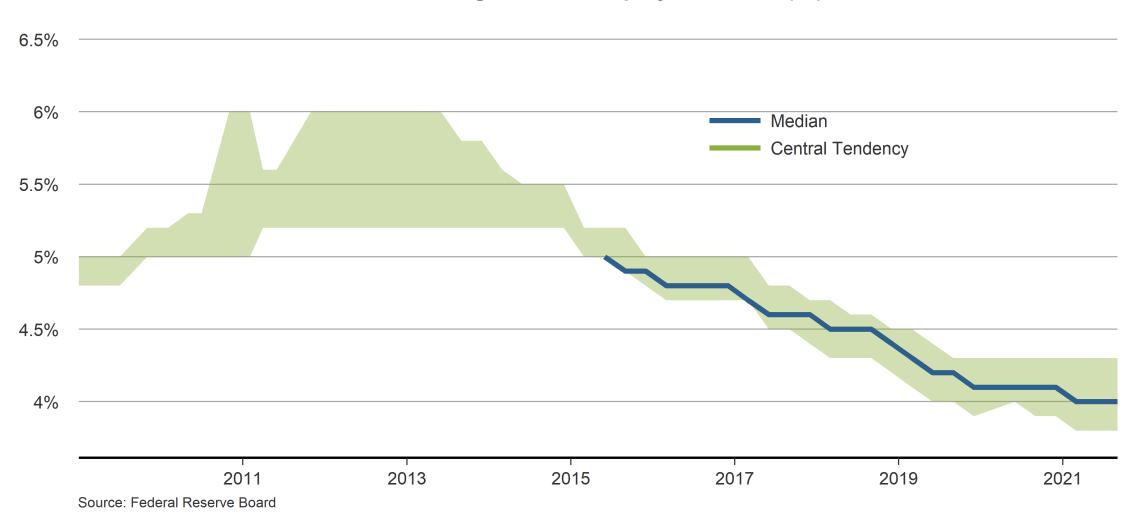


Note: All series are seasonally adjusted

Source: Bureau of Labor Statistics, data through August 2021

Pragmatism in the face of uncertainty

SEP: Longer-run Unemployment Rate (u*)



Conclusion

- Expect current high inflation to be temporary
- Repeat of the Great Inflation of the 1970s is unlikely
- We learned from the Great Inflation
- Labor market institutions have changed
- Measurement issues are better understood, but still a challenge