Prospects for Inflation in a High Pressure Economy: Is the Phillips Curve Dead or is It Just Hibernating?



2019 US Monetary Policy Forum Discussion

February 22, 2018

Mary Daly
President and CEO

Paper Overview

- Nice review of the empirical Phillips Curve literature
- Concludes that the Phillips Curve is still breathing
- Warns against complacency—no free lunch
- But in an uncertain world how do we distinguish complacency from appropriate policy?
- Important to identify the wedges between theory and data and be vigilant on both sides of the target

Wage and Price PCs Have Flattened

Slopes of Wage and Price Inflation Phillips Curves



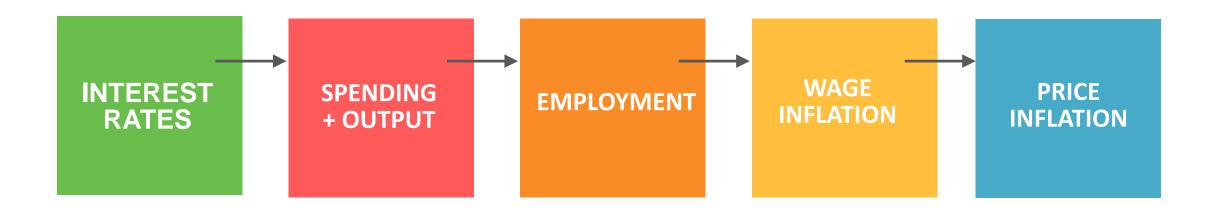
Why?

 Fundamental laws of supply and demand have failed—tighter labor markets don't drive wages, prices?

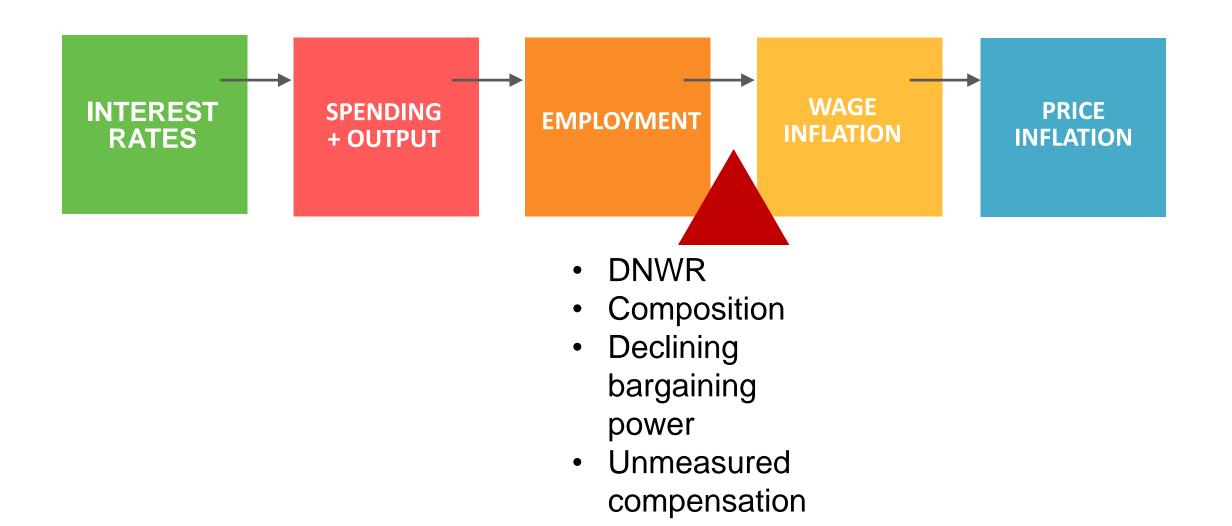
or

• There are various wedges clouding our view of the underlying (structural) relationship?

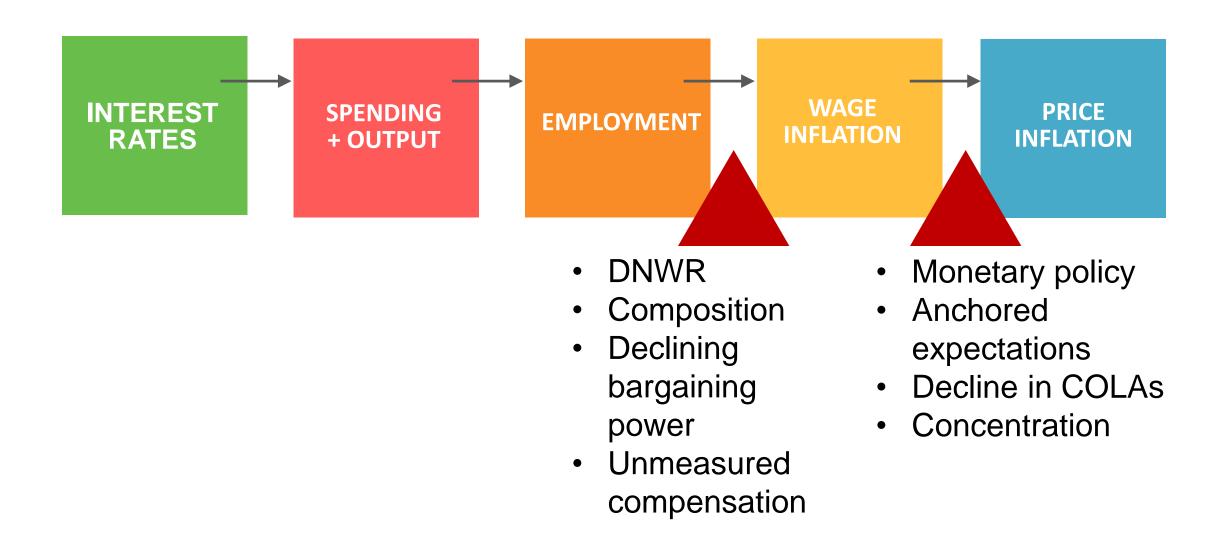
Theory, Data, and Wedges



Reduced Form PCs May Not Tell the Story



Reduced Form PCs May Not Tell the Story



The Regional Phillips Curves: Still Breathing

Cross-MSA Slope of Wage Phillips Curve

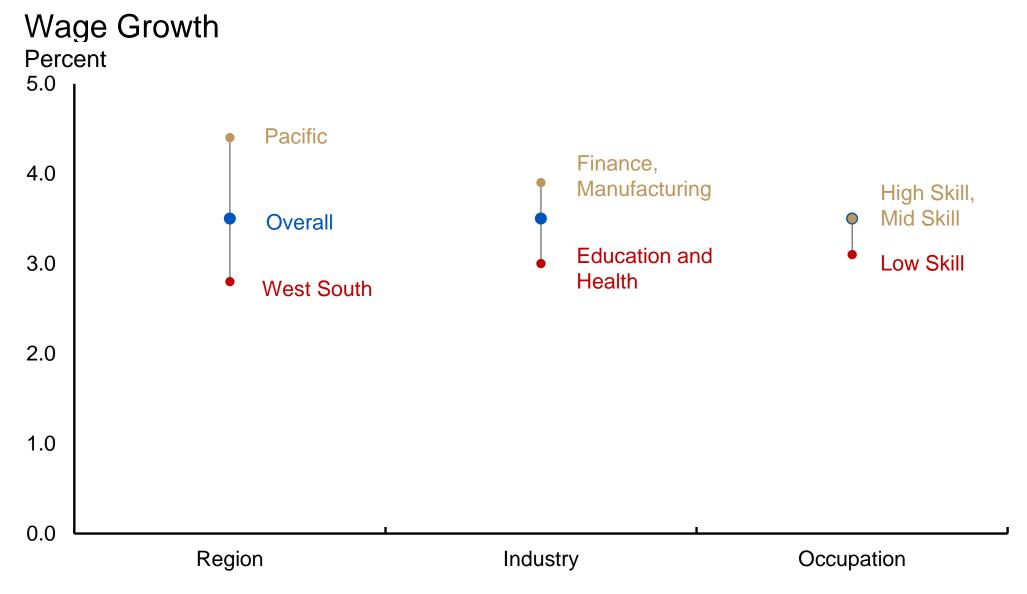
Cross-MSA Slope of Price Phillips Curve



Note: Slack measured with unemployment gap.

Source: Leduc and Wilson (FRBSF Economic Letter, 2017) and authors' calculations.

But Few Signs Wage Inflation is Running Away



Price PC: Housing Services Dominates

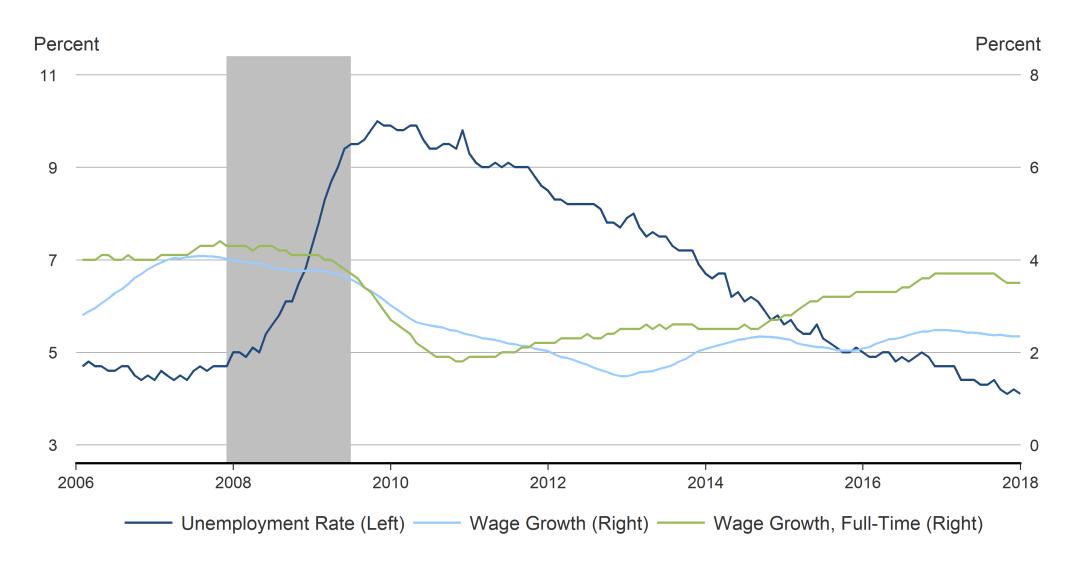
Cross-MSA Slope of the Price Phillips Curve

	Unemployment Gap	Unemployment Rate
Total	-0.323***	-0.329***
Rent	-0.672***	-0.592***
Services (excl. Rent)	0.0172	-0.111*
Non-Durables	-0.102	-0.1240
Durables	0.0131	0.0769

Source: Bureau of Labor Statistics.

So if the PC is Alive, What's Ahead?

Wage Growth Slowly Ratcheting Up ...

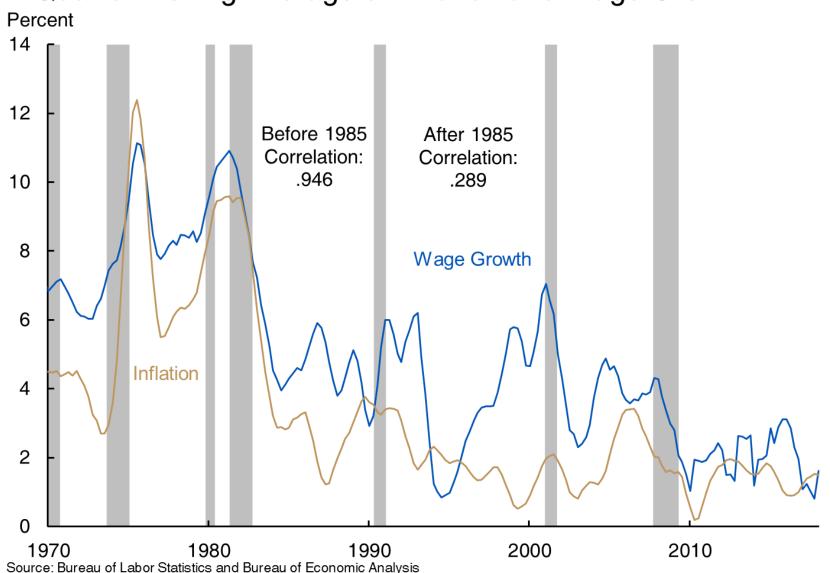


Note: Wage growth is the twelve-month moving average of the percent change in average hourly earnings over the last twelve months. Full-time wage growth is the 12-month moving average of median wage growth for usually full-time workers.

Source: Bureau of Labor Statistics, Atlanta Federal Reserve Wage Growth Tracker.

...Not Much Effect on Price Inflation

4-Quarter Moving Average of Inflation and Wage Growth

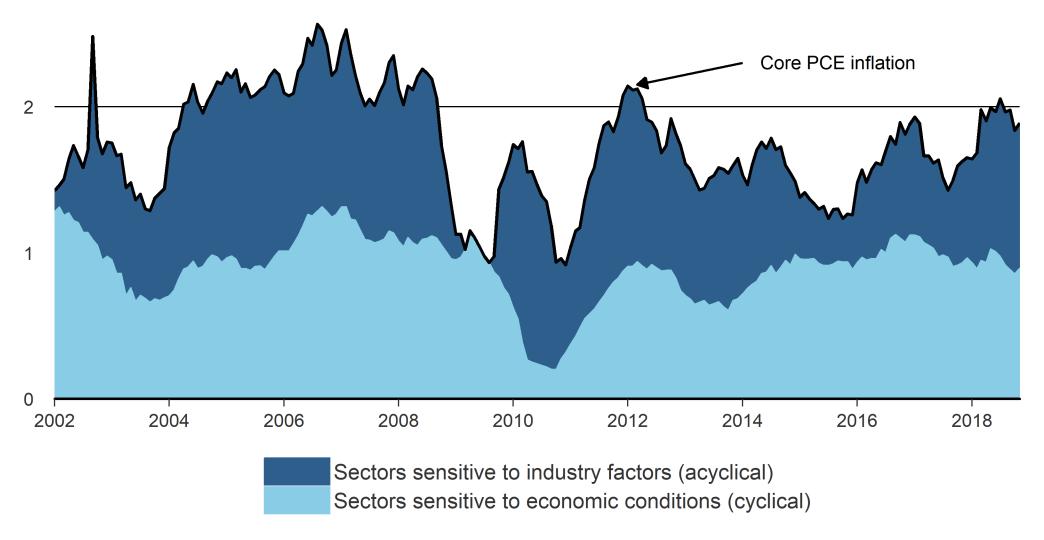


Cyclical Sectors Not Reacting to Hot Labor Markets

Percent

3

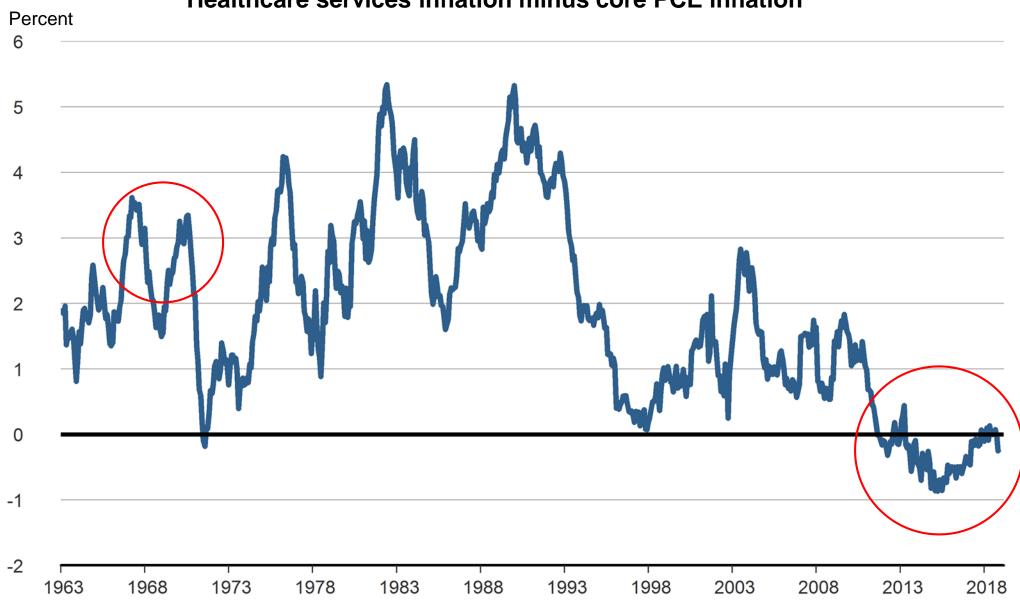
Core PCE Inflation and Contributions by Sector



Source: Mahedy and Shapiro (FRBSF Economic Letter, 2017), Cyclical and Acyclical Core PCE Inflation (FRBSF Indicator, 2019).

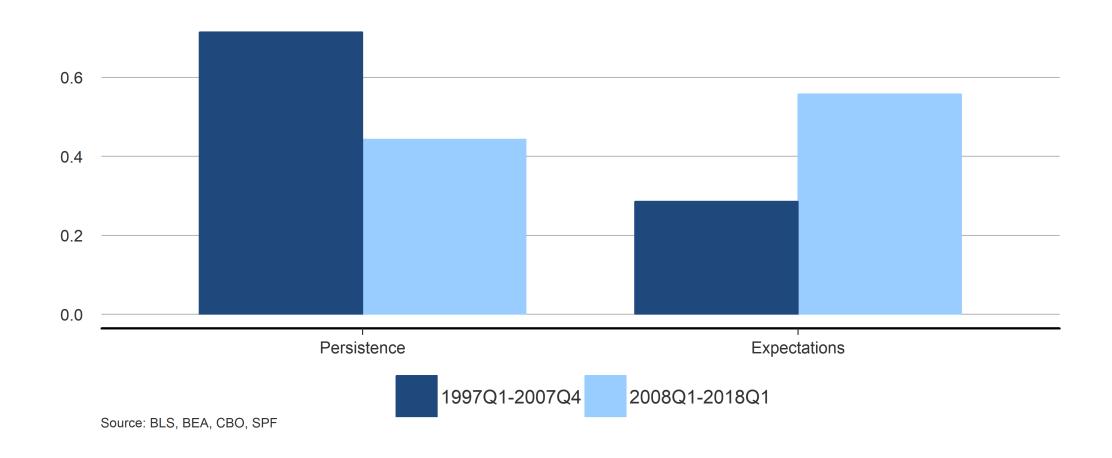
Healthcare Services Inflation: This Time is Different



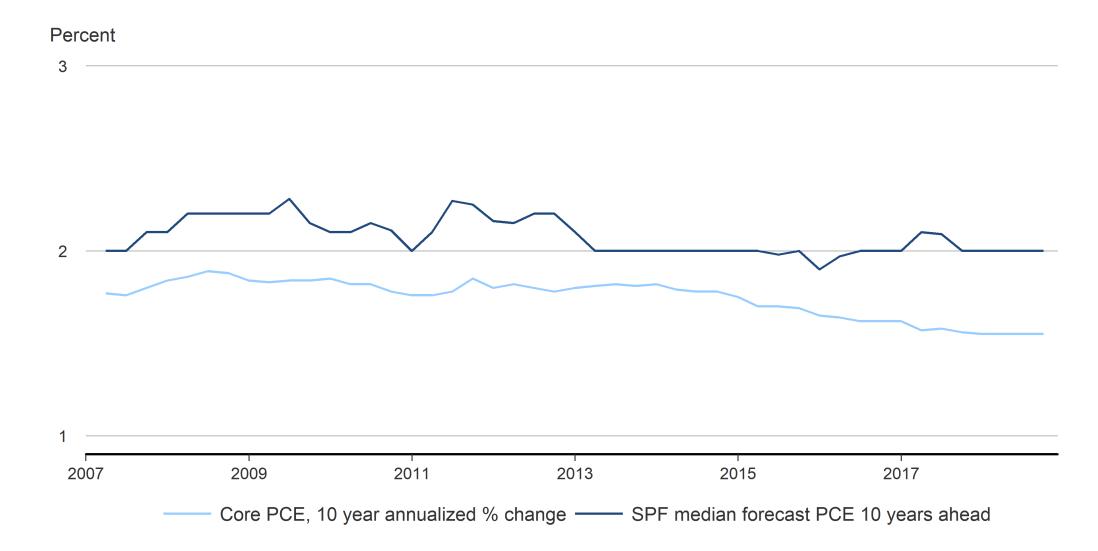


Inflation Expectations Matter More Now

Coefficient on Lagged Inflation and Inflation Expectations



Inflation Has Been Low For A Long Time



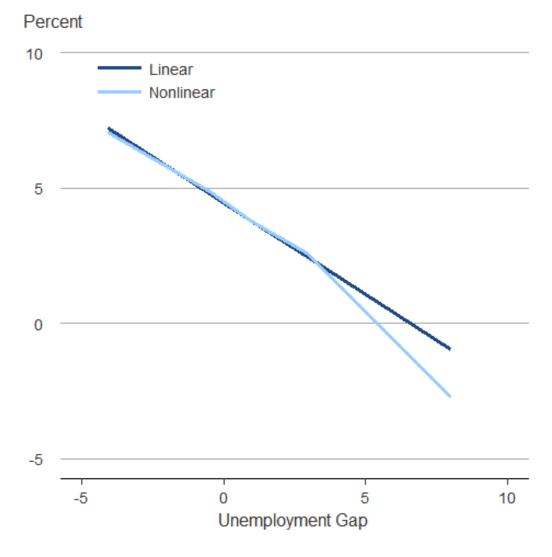
Conclusion

- The Phillips curve remains a useful guide
- The effects of nonlinearities appear muted
- Need to be vigilant about upside and downside risks

Supplementary Figures

Little Evidence of Nonlinearities in Hot Labor Markets

Cross-State Wage Phillips Curve



Cross-MSA Price Phillips Curve

