



# Monetary Policymaking in Today's Environment: Finding "Policy Space" in a Low-Rate World

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# Recent Economic Results Relatively Positive

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- ▶ Fed's dual mandate – maximum employment and stable prices
  - ▶ Unemployment is 3.8 percent – good news for many including graduating seniors – tight labor markets
  - ▶ Real GDP likely a little above 2 percent – fast enough to tighten labor markets somewhat further
  - ▶ Inflation – Core PCE – averaged 1.8 percent over the past year – a little below the Fed's 2 percent inflation target
- ▶ Inflation has been somewhat lower than expected – a pattern that has persisted for most of the recovery
  - ▶ Slow recovery in aftermath of Great Recession
  - ▶ Japan and Europe are undershooting their inflation targets by a larger extent
  - ▶ Inflation below target is one reason to be patient in determining future rate adjustments

# Why is Undershooting Inflation a Problem?

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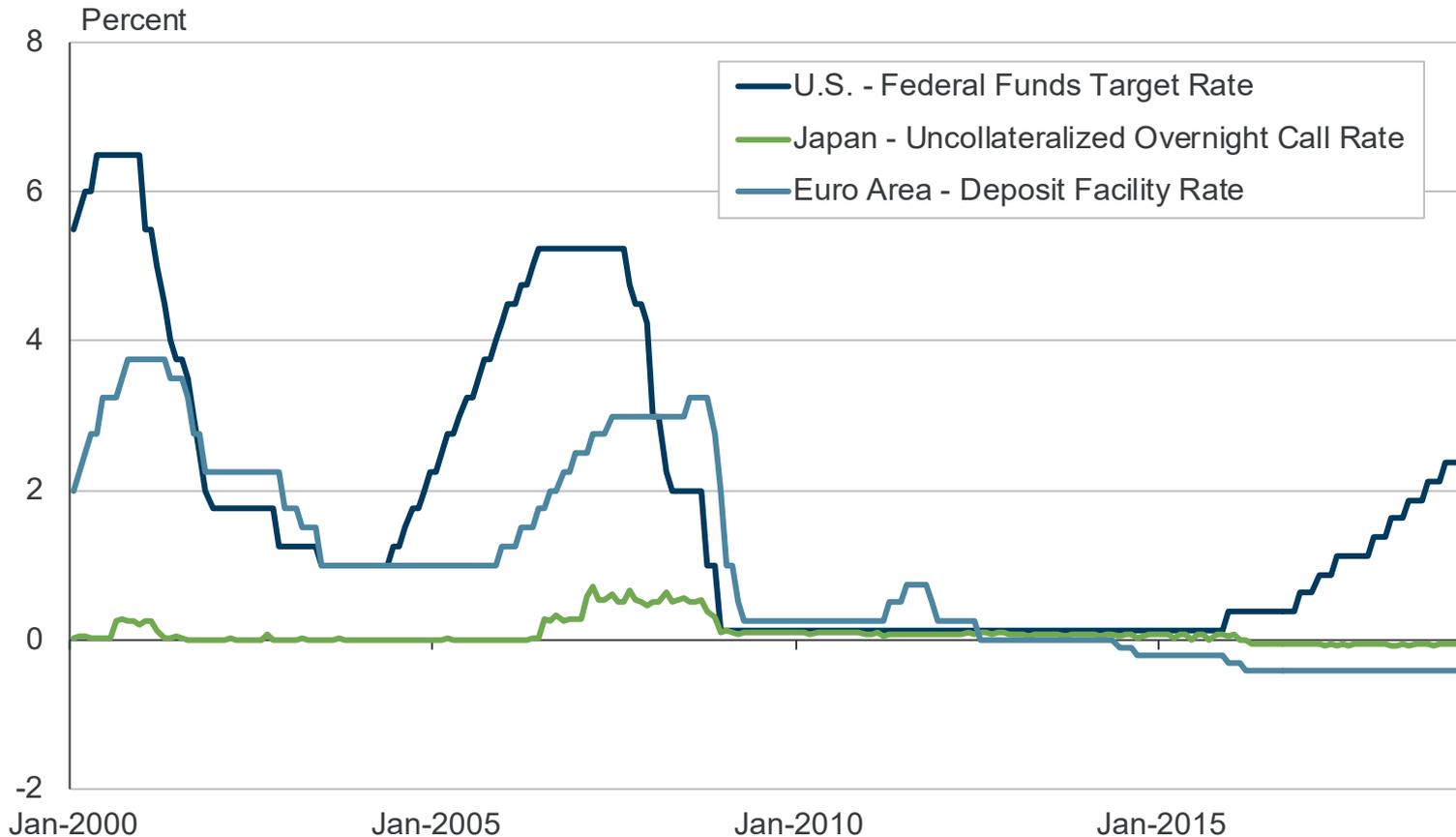
- ▶ Persistent misses on the target can cause inflation expectations to decline
  - ▶ Japan is a leading example of allowing expectations to drift down
  - ▶ Japan has shown that expectations below target are difficult to alter
- ▶ Low inflation, particularly when real interest rates are low, provides little room for traditional monetary policy
  - ▶ Federal funds rate is effectively 2.4 percent
  - ▶ In response to most recessions, the Fed typically lowers the federal funds rate 5-6 percentage points

# Having Adequate Monetary Policy “Space”

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- ▶ To have flexibility to lower interest rates in a downturn, need monetary policy space
- ▶ Important to keep inflation expectations anchored at 2 percent
- ▶ A major topic of the Federal Reserve – a review of the monetary policy framework
  - ▶ What are the tools and processes that best attain economic goals?
  - ▶ Can the Fed better reinforce its 2 percent inflation target?

# Figure 1: Overnight/Policy Rates for the Euro Area, Japan, and the U.S. January 2000 - March 2019

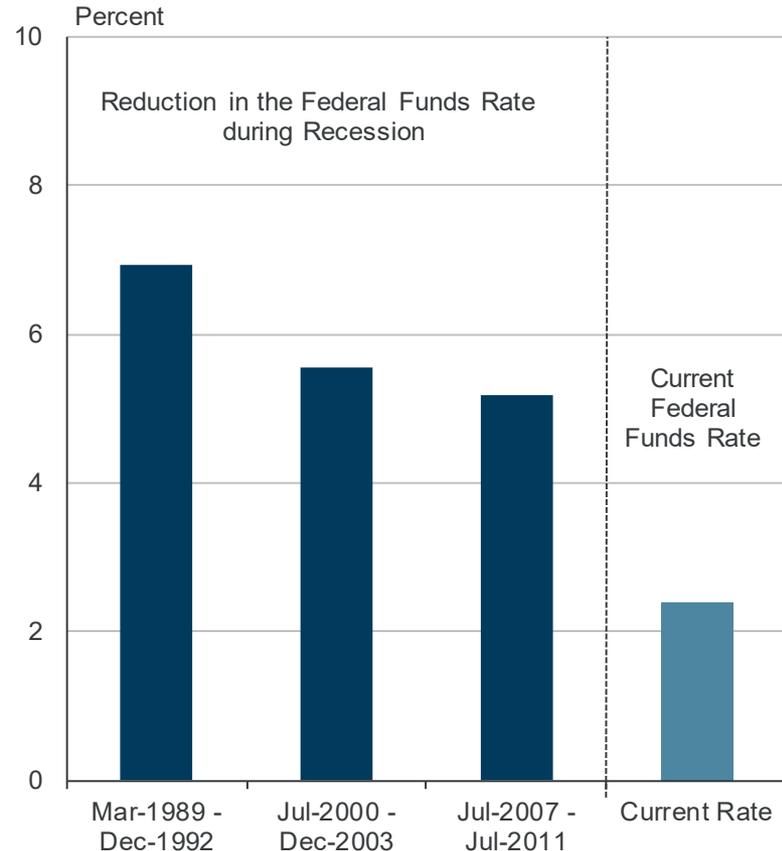
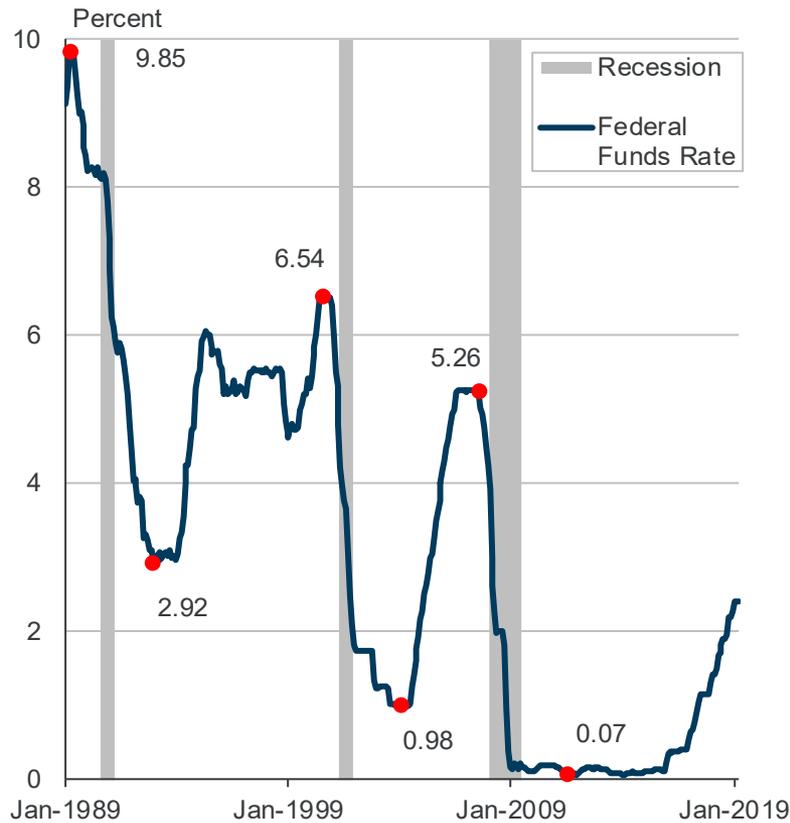


Note: Rates are as of end of period. U.S. target rate is the midpoint of the target range, beginning in 2008.

Source: Bank of Japan, European Central Bank, Federal Reserve Board, Haver Analytics

# Figure 2: Change in the Federal Funds Rate from Rate Peak to Rate Trough during the Last 3 Recessions

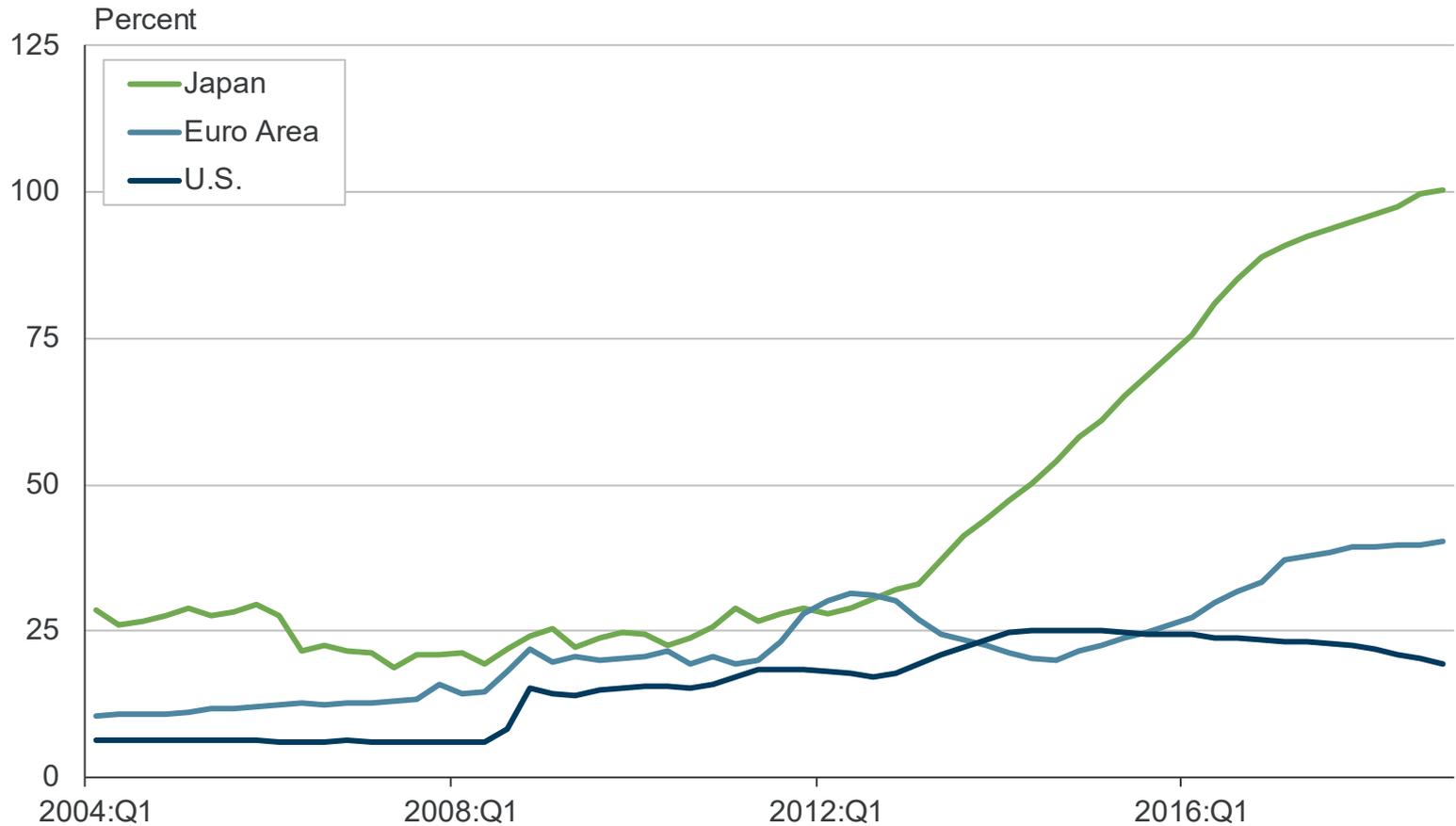
January 1989 - March 2019



Source: Federal Reserve Board, NBER, Haver Analytics

# Figure 3: Central Bank Assets Relative to GDP

2004:Q1 - 2018:Q4



Source: Bank of Japan, Cabinet Office of Japan; European Central Bank, Eurostat; Federal Reserve Board, BEA; Haver Analytics

# Figure 4: Ten-Year Government Bond Yields

January 2000 - March 2019



Source: Deutsche Bundesbank, Federal Reserve Board, Japan's Ministry of Finance, Haver Analytics

# Limited Policy Space

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- ▶ Short-term interest rates are quite low in many developed economies, raising important issues about how to best conduct monetary policy
  - ▶ Japan and the Euro Area have no significant space to reduce short-term rates
  - ▶ The U.S. has some limited space, but probably not enough to react to a slowdown by only lowering short-term rates
- ▶ Long-term government bond yields are also quite low in Europe and Japan – limiting the effectiveness of another policy tool – Quantitative Easing (QE)
- ▶ Central banks in many developed countries have little monetary policy space with which to operate should a downturn occur
  - ▶ Note that a recession is not my modal forecast
  - ▶ However, we should be prepared for a hypothetical next recession

# Figure 5: Components of Nominal Interest Rate

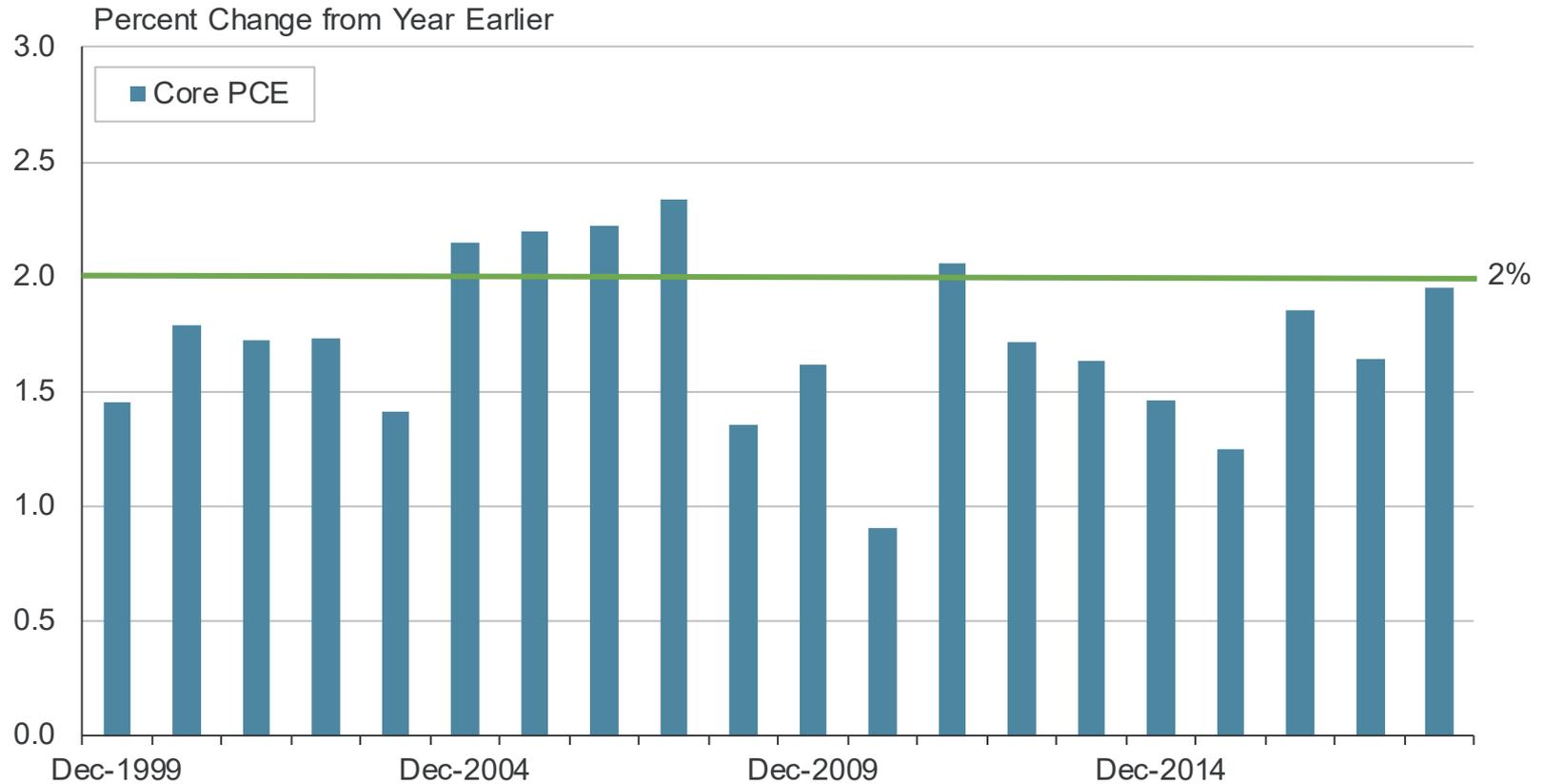


*Note: Core PCE excludes food and energy. The proxy for Core PCE inflation expectations is the median forecast for core PCE inflation for 2019 measured on a fourth-quarter to fourth-quarter basis from the most recent Survey of Professional Forecasters.*

*Source: Federal Reserve Board; Federal Reserve Bank of Philadelphia, Survey of Professional Forecasters, March 22, 2019; Haver Analytics*

# Figure 6: Inflation Rate: Change in Core Personal Consumption Expenditures (PCE) Price Index

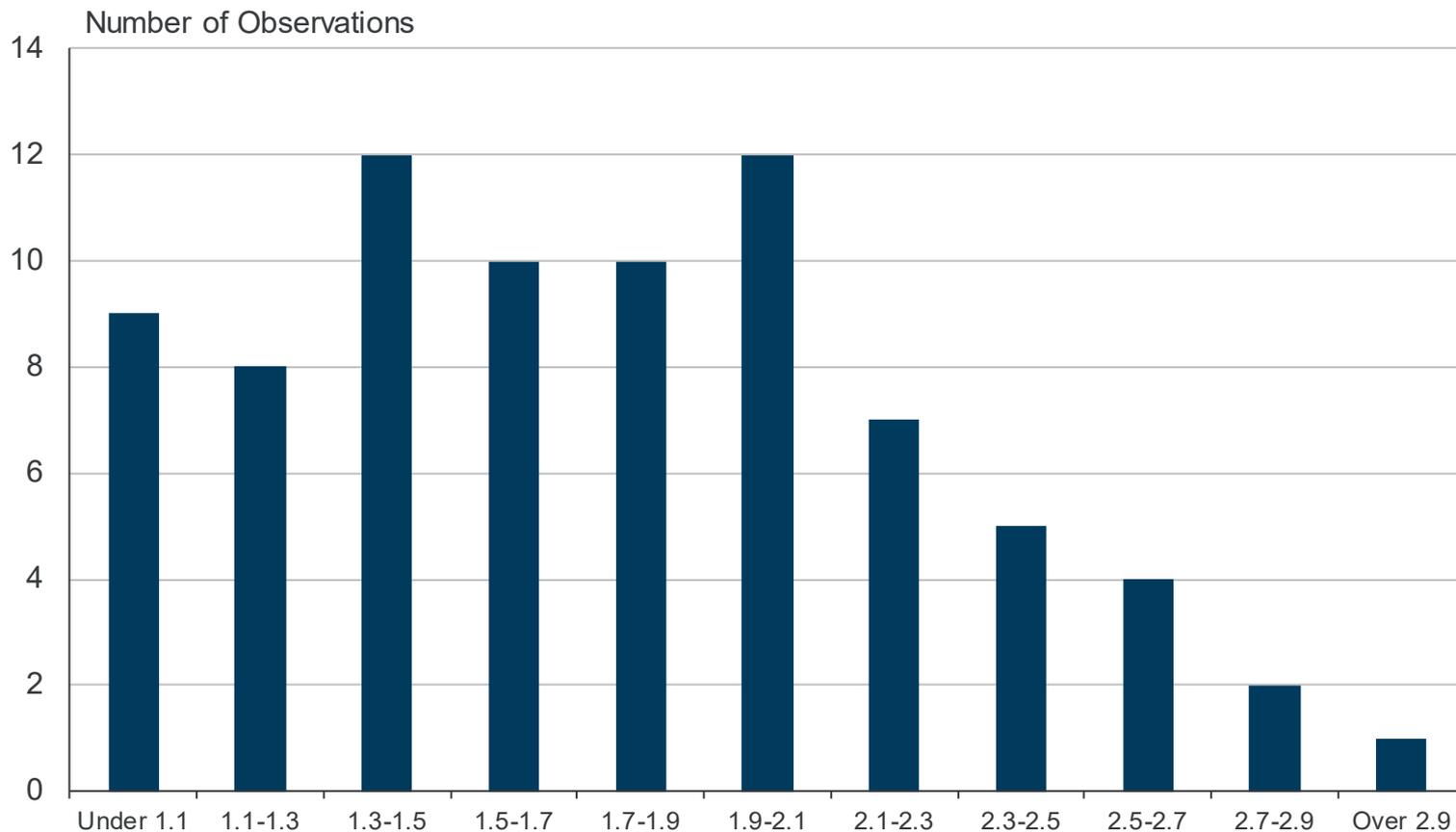
December 1999 - December 2018



Note: Core PCE excludes food and energy.

Source: BEA, Haver Analytics

# Figure 7: Distribution of Quarterly Percent Changes in Core Personal Consumption Expenditures (PCE) Price Index over 20 Years 1999:Q1 - 2018:Q4



Note: Core PCE excludes food and energy.

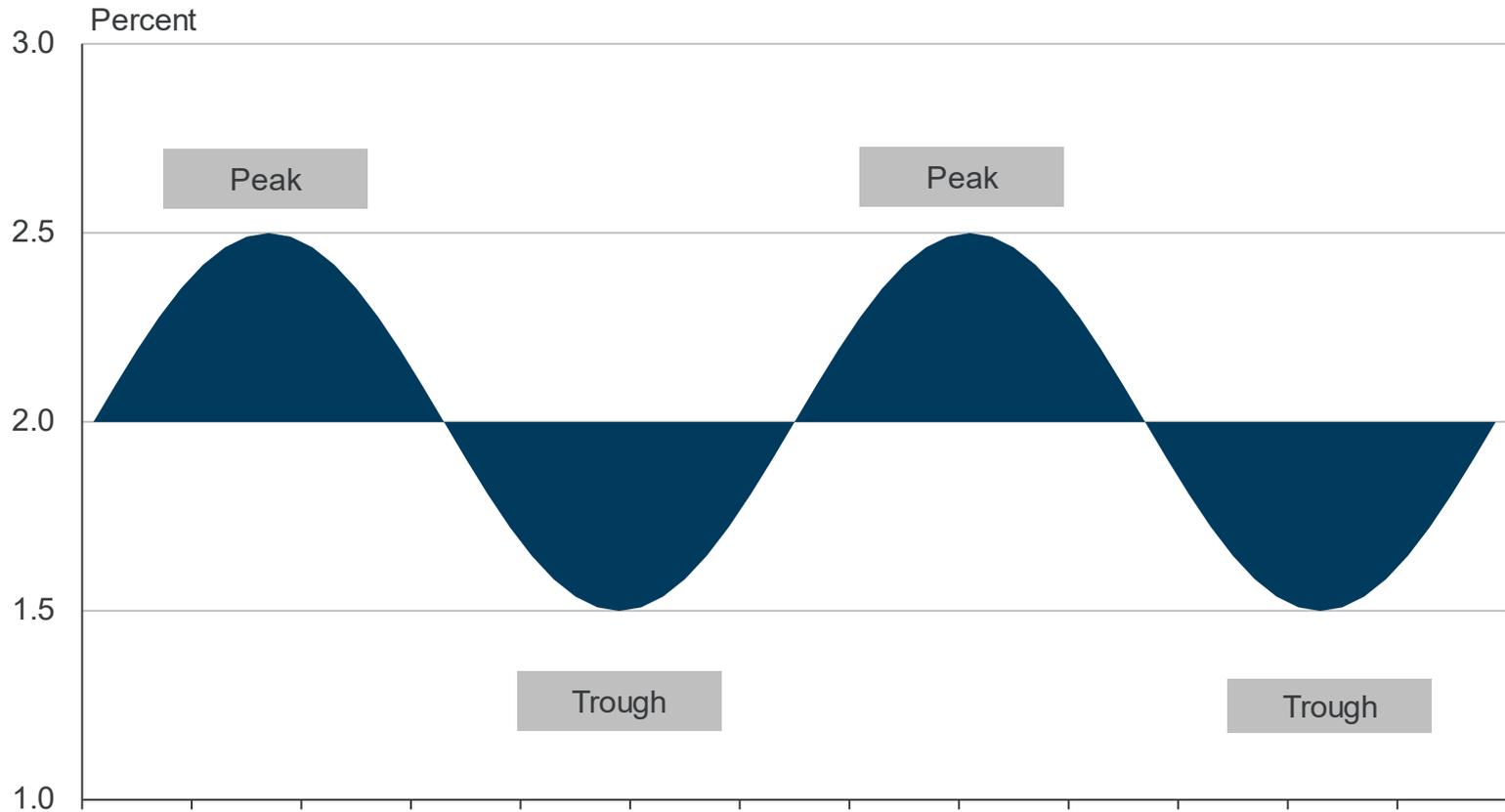
Source: BEA, Haver Analytics

# Are We Reaching a Symmetric 2 Percent Inflation Target?

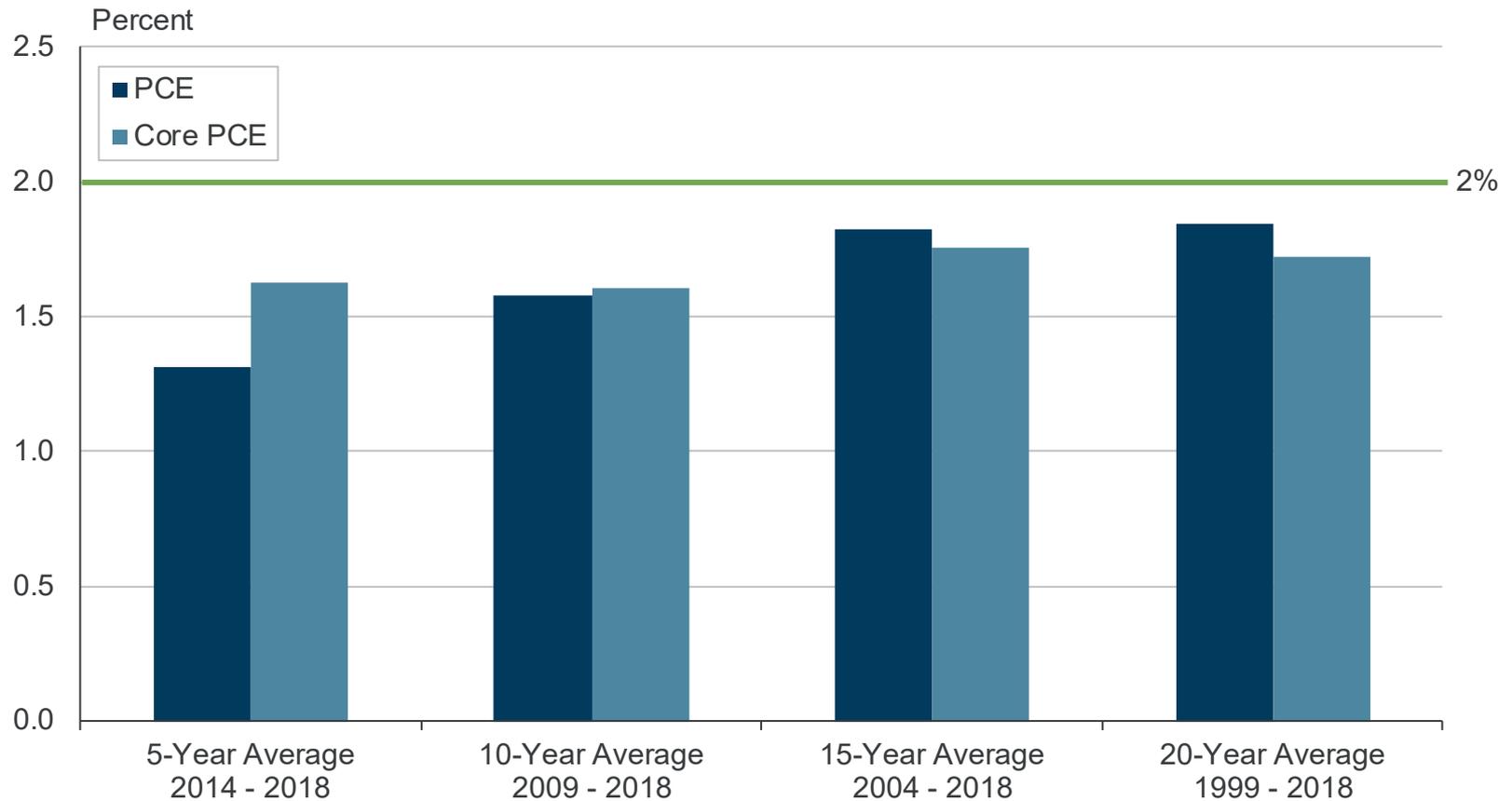
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- ▶ Hard to argue that the target has been symmetric
  - ▶ Observations of inflation have tended to undershoot target
  - ▶ Would expect observations to be more symmetric around 2 percent
  - ▶ The 2 percent goal has acted more like a ceiling
- ▶ Provides a key reason to hold rates steady
- ▶ Symmetric 2 percent inflation target has been elusive over the past 20 years
- ▶ Should we alter the monetary policy framework to get more policy space?
  - ▶ If inflation expectations slip, we will have less policy space
  - ▶ Would a change in the framework improve the Fed's ability to reach its 2 percent goal?

# Figure 8: Symmetric Inflation over the Business Cycle



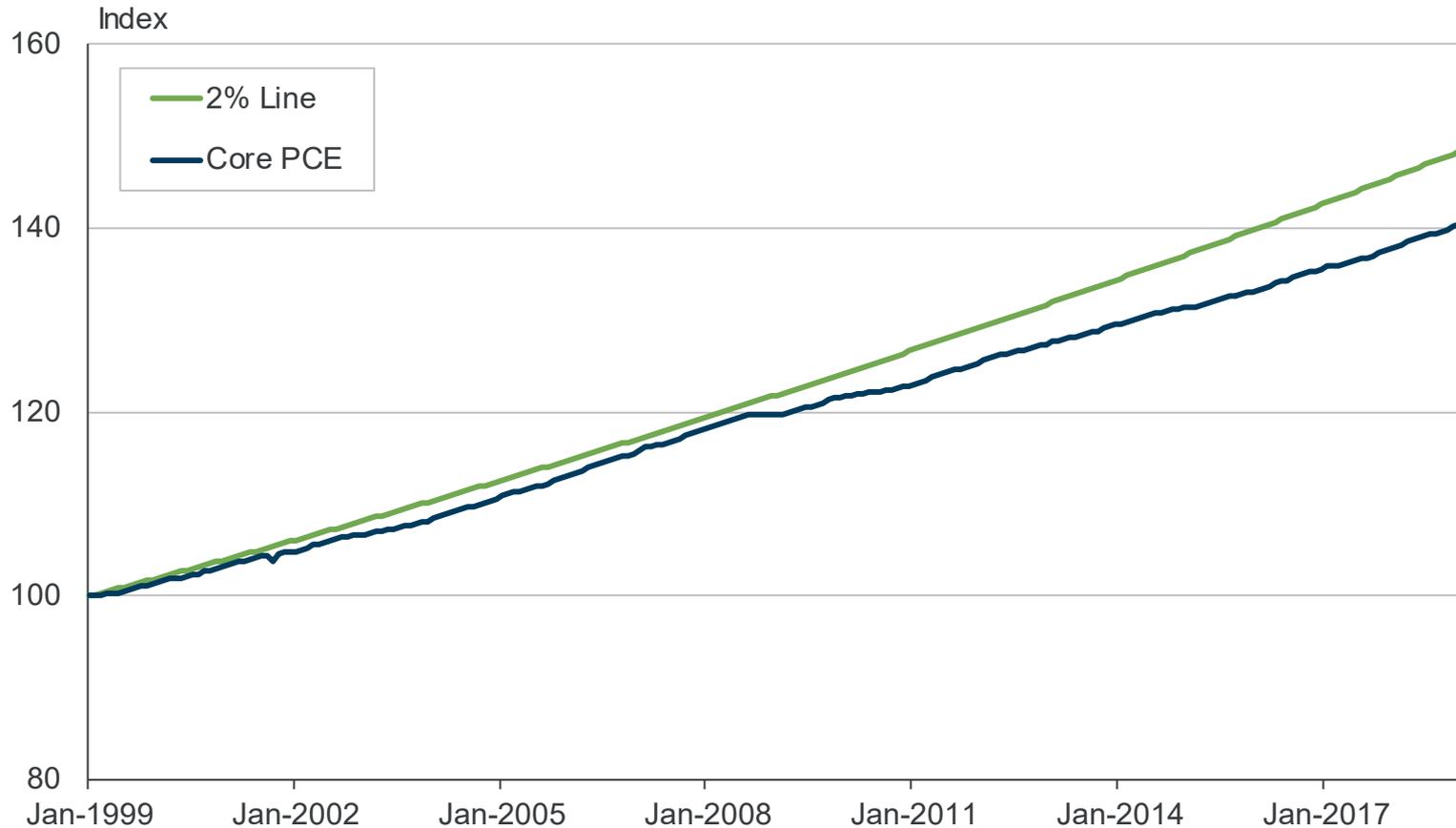
# Figure 9: Average Inflation Rate: Change in Personal Consumption Expenditures (PCE) Price Indices 1999 - 2018



Note: Core PCE excludes food and energy.

Source: BEA, Haver Analytics

# Figure 10: Core PCE Inflation Rate and Price Level Target of 2 Percent January 1999 - January 2019



Note: Core PCE excludes food and energy. Index level January 1999=100.

Source: BEA, Haver Analytics

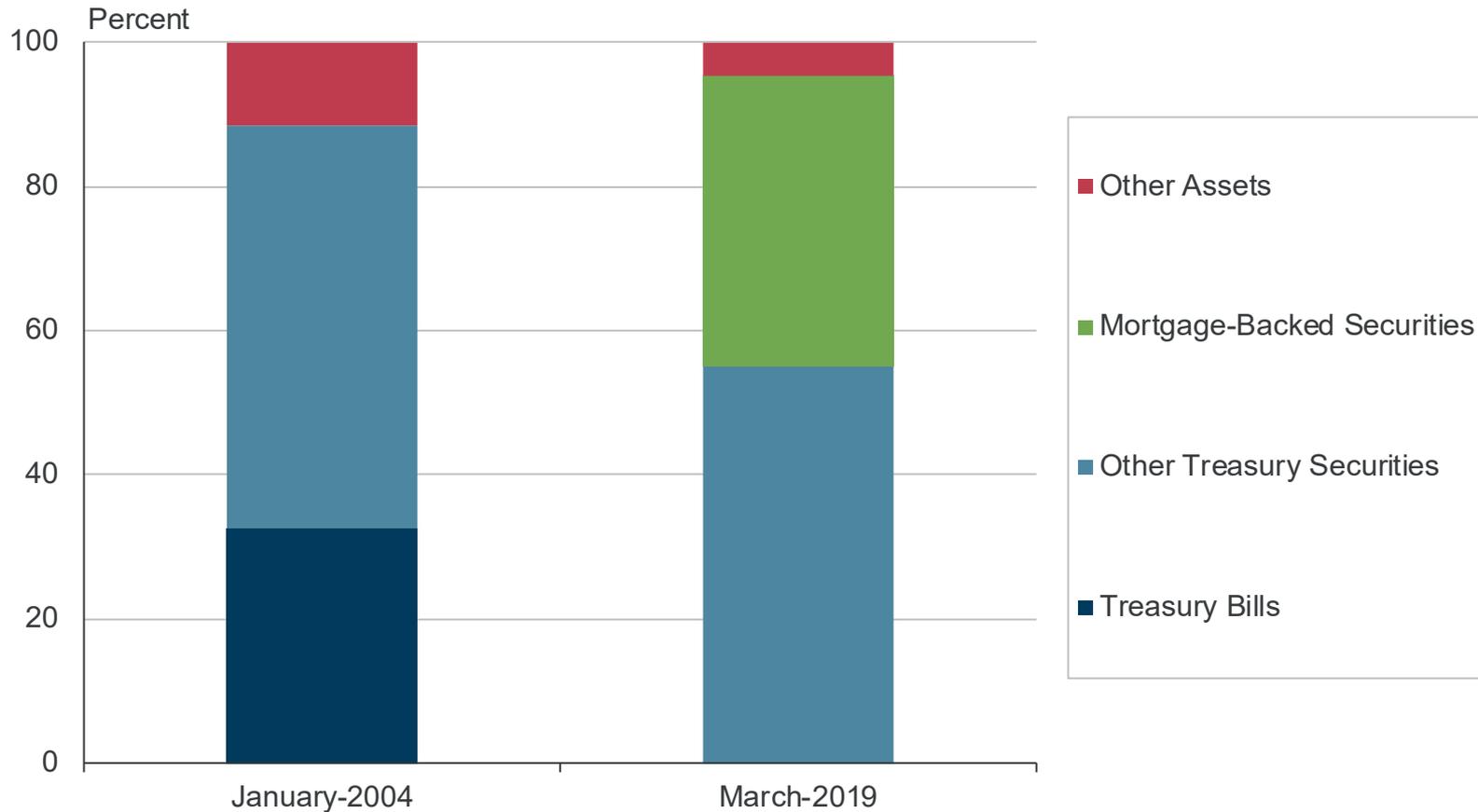
# Framework Changes Could Reinforce 2 Percent Target

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- ▶ Inflation range – for example, 1.5 to 2.5 percent
  - ▶ Hard to precisely hit inflation target
  - ▶ Likely undershoot in recessions – particularly with low interest rates and greater likelihood of reaching the effective lower bound
- ▶ Inflation average
  - ▶ Details matter – over what period, future or just past?
  - ▶ If recession lowers inflation below target, expectation that Federal Reserve will generate higher-than-target inflation in the future
- ▶ Price level target
  - ▶ Harder to explain
  - ▶ Will likely engender a more symmetric outcome
- ▶ I have a mild personal preference for an inflation range

# Figure 11: Federal Reserve System Asset Composition

## January 2004 and March 2019



# Concluding Observations

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- ▶ Challenges of a low interest rate environment
  - ▶ Problem in many developed economies
  - ▶ Provides limited policy space
- ▶ Good time to evaluate monetary policy framework
  - ▶ Consider whether alternative frameworks might better achieve outcomes
  - ▶ Providing policy space is important for action in hypothetical future economic downturns