



EMBARGOED UNTIL TUESDAY, APRIL 15, AT 4:10 P.M. OR UPON DELIVERY

Monetary Policy and Forward Guidance

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The Economy: Unfortunately, *Not* “The Way Life Should Be”

- ▶ PCE inflation is well below 2 percent (0.9 percent)
 - ▶ U-3 unemployment is at 6.7 percent, but:
 - ▶ This understates the severity of labor market problems
 - ▶ U-6, which includes “part time for economic reasons” and “marginally attached” workers, is historically high at 12.7 percent
 - ▶ Significant problems in labor markets persist
 - ▶ Unusually accommodative monetary policy remains necessary
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Signs of Improvement

- ▶ Economy produced 192,000 jobs in March
 - ▶ Most private forecasters expect growth in real GDP for the rest of this year around 3 percent
 - ▶ Boston Fed forecast is for approximately 3 percent growth, given factors like:
 - ▶ Continued improvement in housing
 - ▶ Fewer headwinds from fiscal policy
 - ▶ Somewhat stronger consumption
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Alternative Policy Tools

- ▶ Purchasing long-term assets to lower long-term interest rates
 - ▶ Currently purchasing \$55 billion per month
 - ▶ Reduced purchases by \$10 billion at each of the last three FOMC meetings
 - ▶ Providing forward guidance
 - ▶ Will keep short-term rates at their very low levels “for a considerable time after the asset purchase program ends...”
 - ▶ Tied to timing of the tapering of asset purchases, which is data dependent
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Changes in Forward Guidance

- ▶ Moved from *quantitative* guidance relative to a 6.5 percent threshold to *qualitative* guidance
 - ▶ At 6.7 percent, unemployment is close enough to the 6.5 percent threshold that it no longer provided much guidance about future actions
 - ▶ Specific guidance is easier when the economy is very far from the policy goal – but the economy has been improving
 - ▶ My recommendation: Focus guidance on how quickly we make progress on inflation that is well below target, and on removing the significant underutilization of labor resources
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Figure 1: Civilian Unemployment Rate (U-3): Total Unemployed as a Percent of the Civilian Labor Force

January 1994 - March 2014

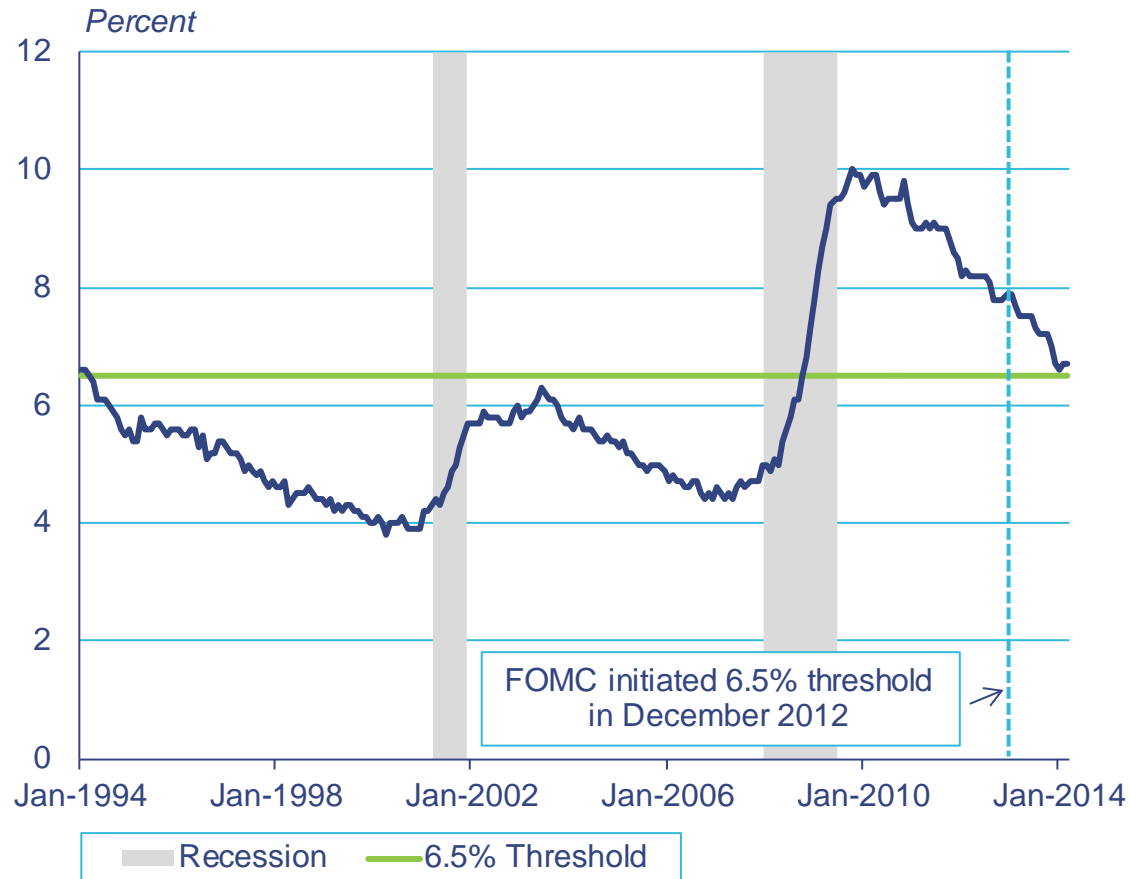
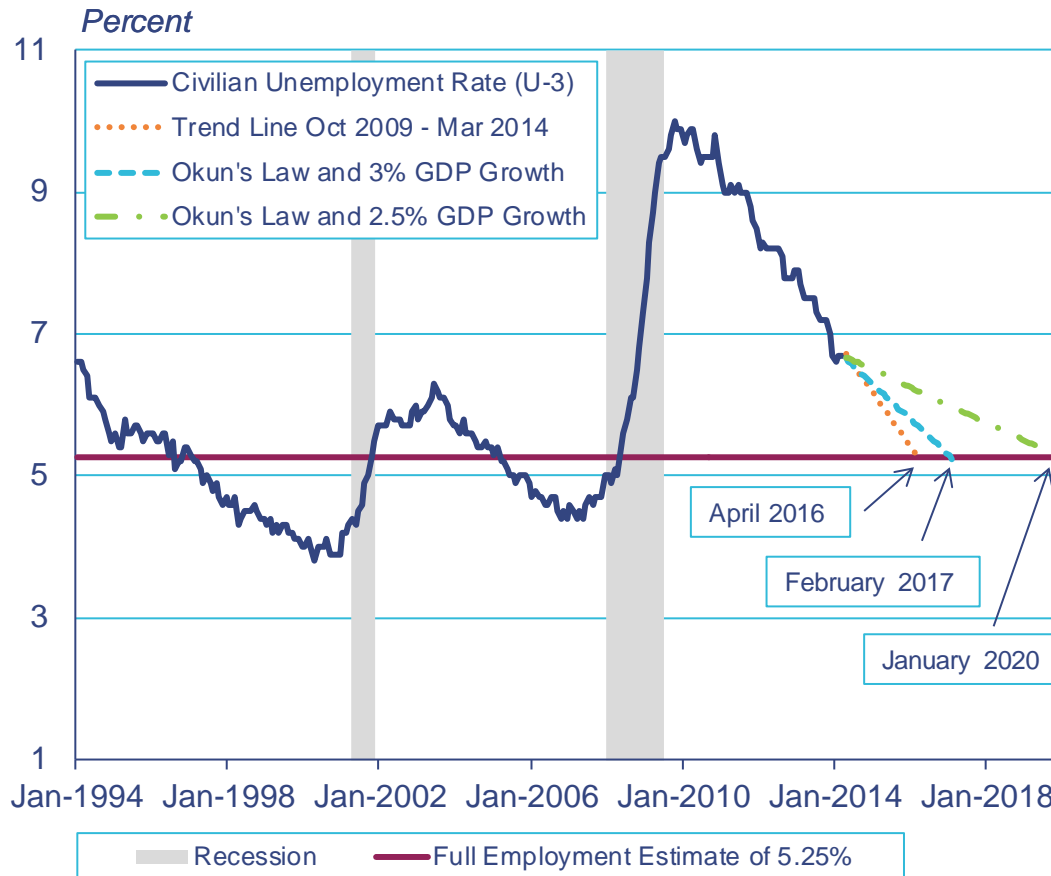


Figure 2: Civilian Unemployment Rate (U-3) Path based on Okun's Law and Recent Trends

Jan 1994 - Mar 2014 Actual, Apr 2014 - Jan 2020 Projections

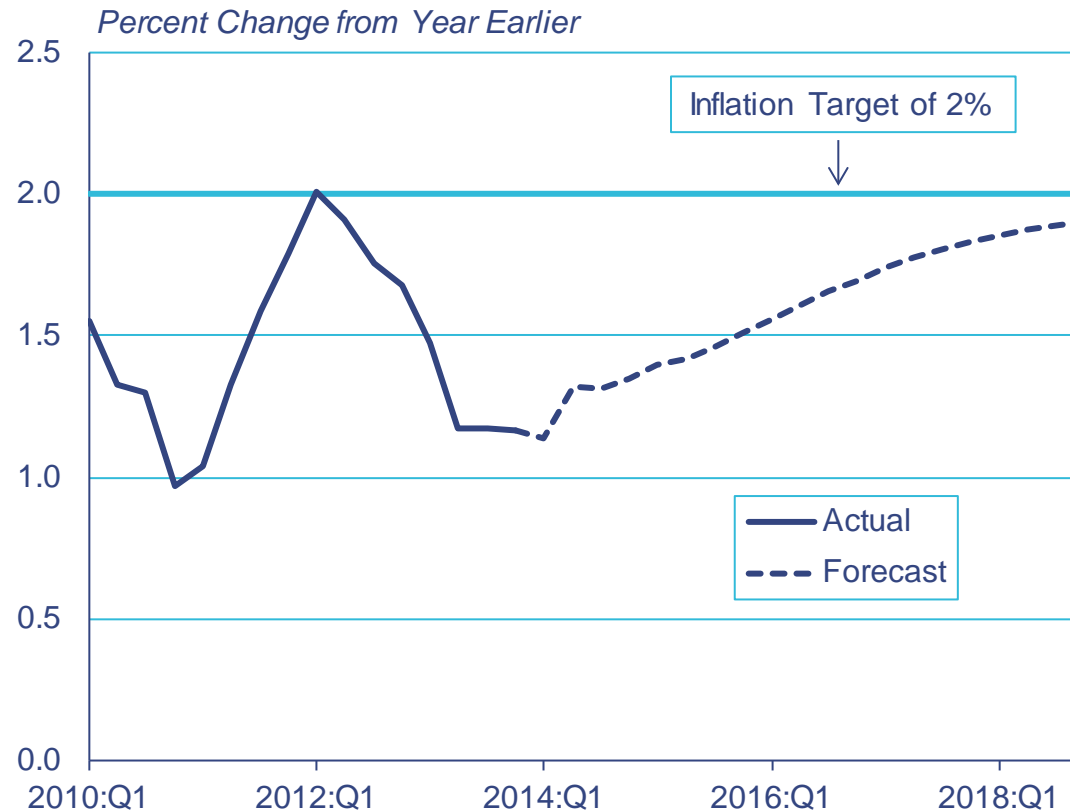


Note: Okun's Law projections assume growth of 1% and 0.5% above potential GDP growth of 2%.

Source: BLS, NBER, Haver Analytics, Author's Calculations

Figure 3: Inflation Rate: Change in Core Personal Consumption Expenditure (PCE) Price Index

2010:Q1 - 2013:Q4 Actual, 2014:Q1 - 2018:Q4 Forecast



Note: Forecast uses a Phillips Curve with anchored inflation expectations. Projected inflation is based on the expected evolution of the unemployment rate from the midpoint of the central tendency of the SEP. Source: BEA, NBER, Haver Analytics, Federal Reserve Bank of Boston Calculations



Challenges with Forward Guidance

- ▶ When you are close to the threshold, the guidance is likely to place little downward pressure on interest rates
 - ▶ The path to full employment and 2 percent inflation is uncertain
 - ▶ Ideally, guidance would reflect how far the economy remains away from achieving the dual mandate, and the time it takes to close that gap
 - ▶ Ideally, there would be more market focus on economic data and less focus on the setting of monetary policy tools
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Forecast Uncertainty

- ▶ Forecasts are always uncertain, but many economic patterns have been unusual since the financial crisis
 - ▶ One example is housing
 - ▶ Interest rates below historical standards
 - ▶ Housing prices rising
 - ▶ More workers employed
 - ▶ Yet the speed of the housing recovery remains uncertain
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Figure 4: Housing Starts: Actual and Blue Chip Forecast

1994 - 2013 Actual, 2014 - 2015 Forecast

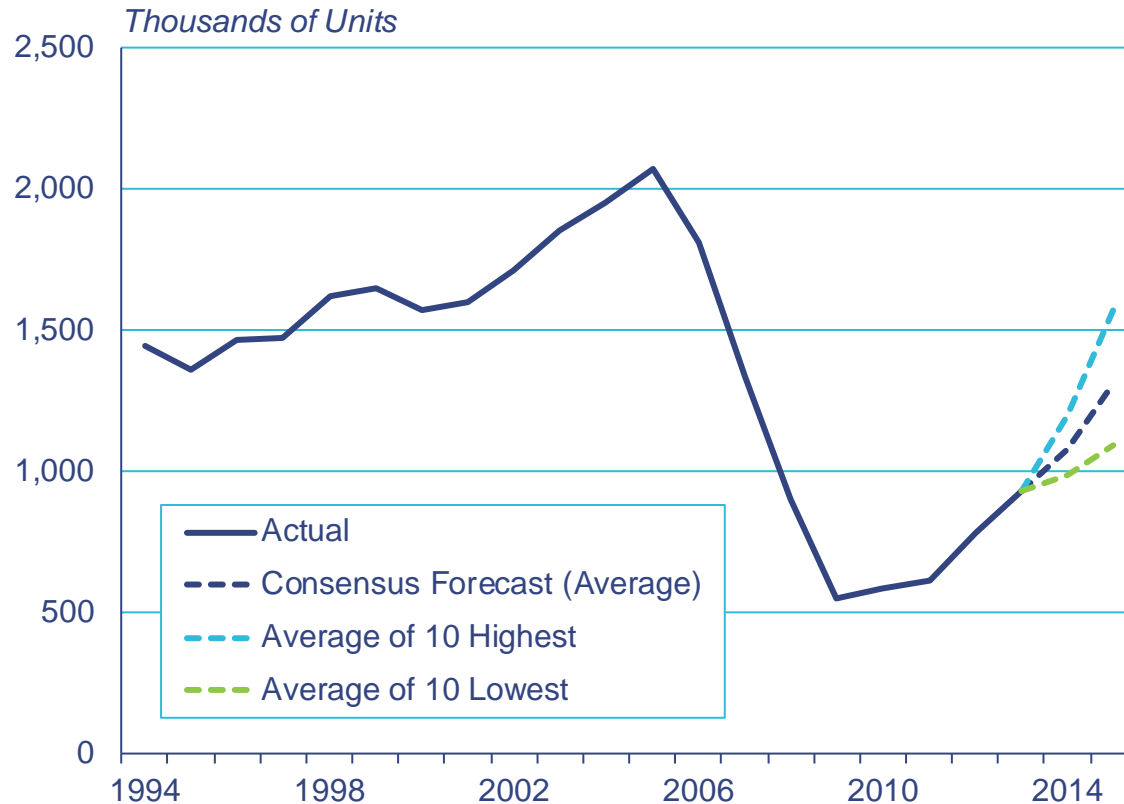




Figure 5: Population and Households

January 1994 - December 2013

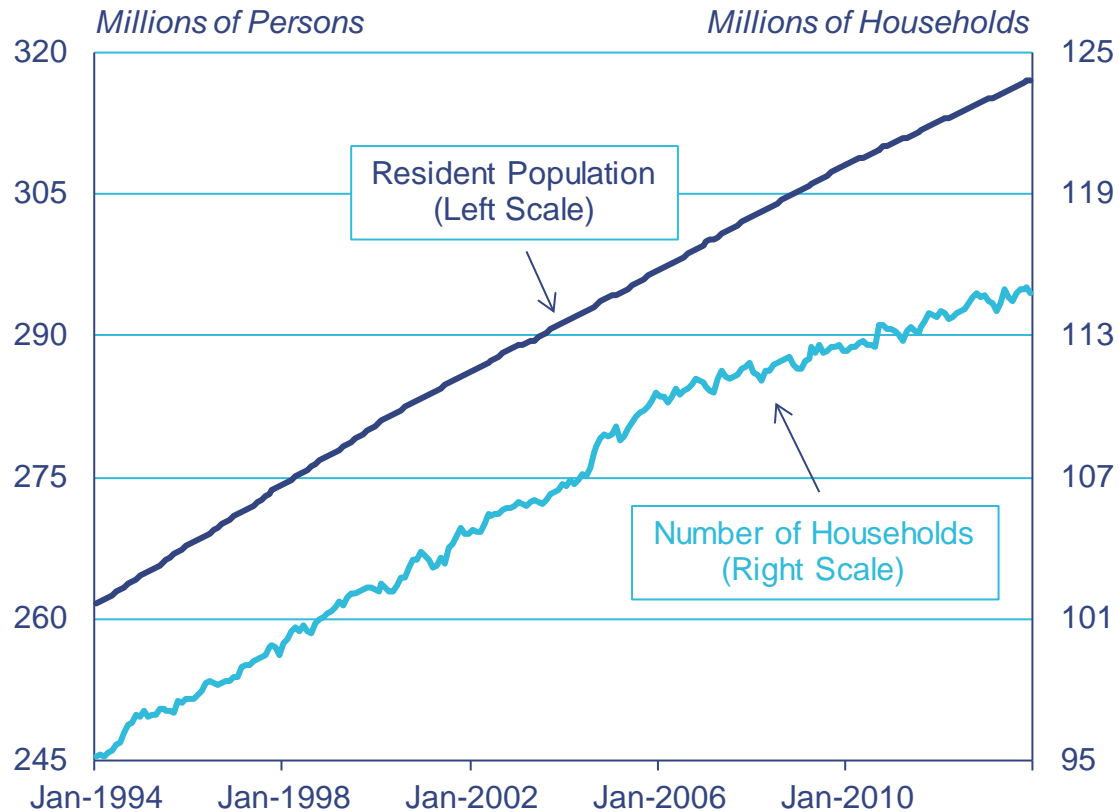




Figure 6: Growth in Households
1994:Q1 - 2013:Q4

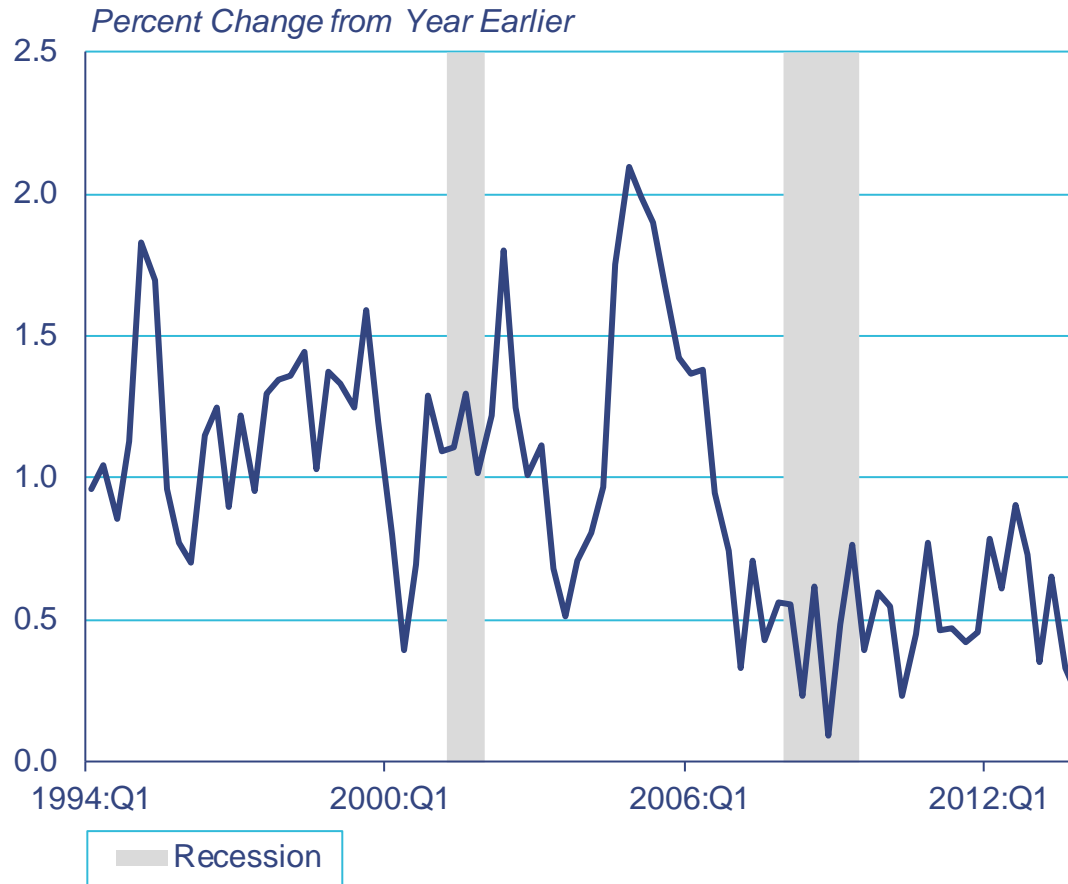




Figure 7: Checkable Deposits and Currency of Nonfinancial Corporate Businesses

1980:Q1 - 2013:Q4

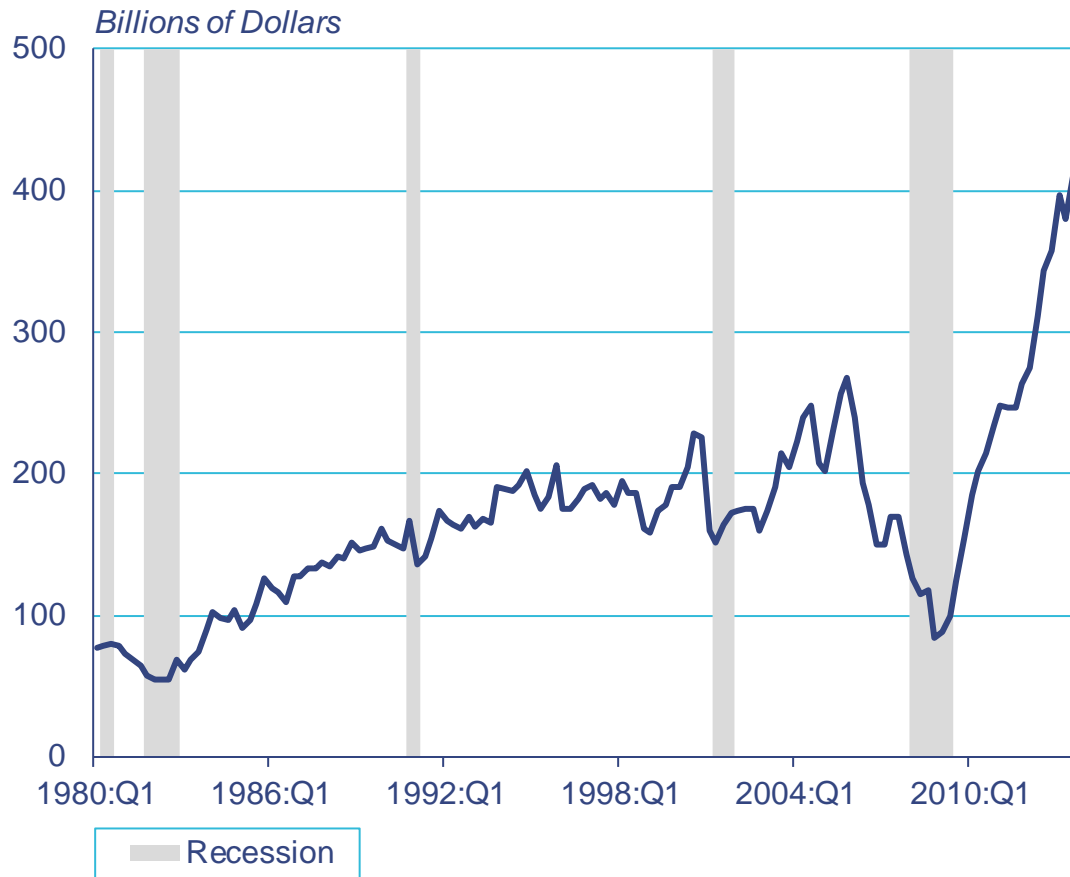




Figure 8: Checkable Deposits and Currency of Households and Nonprofit Organizations

1980:Q1 - 2013:Q4

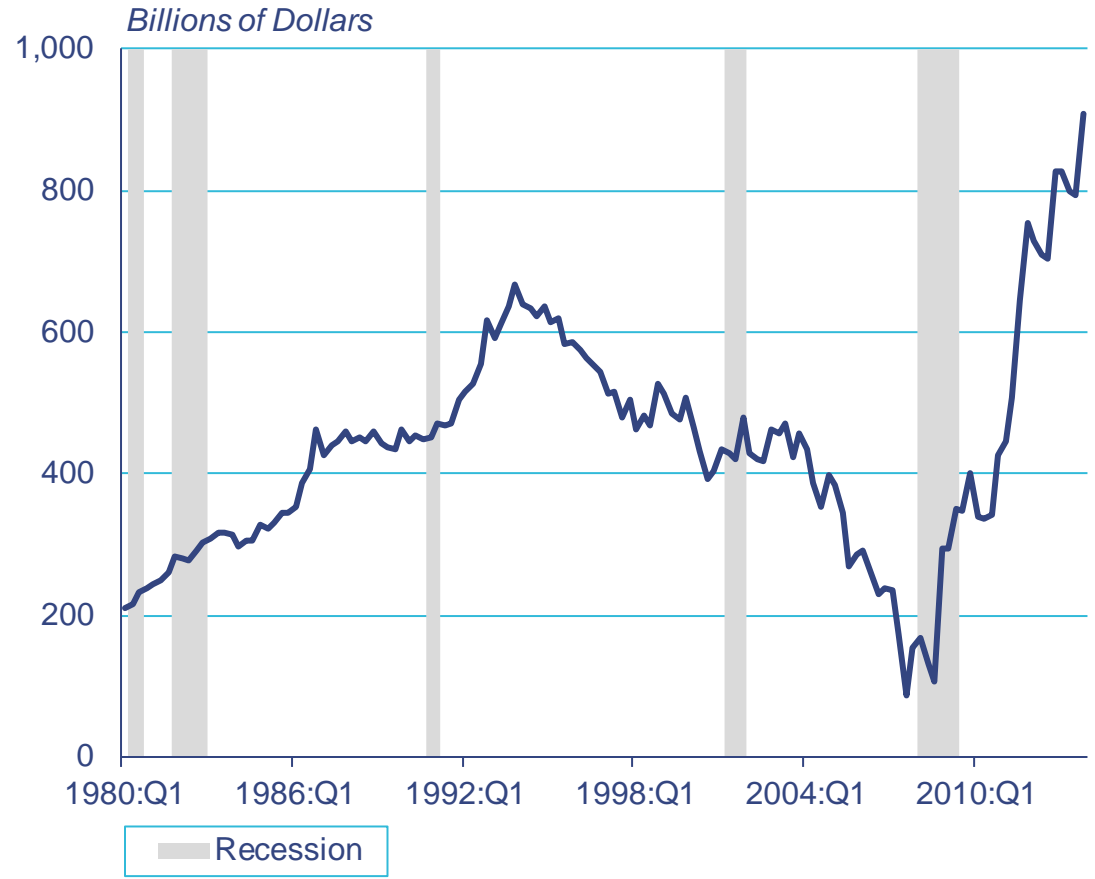


Figure 9: Persons Employed Part Time for Economic Reasons as a Percent of the Civilian Labor Force

1994:Q1 - 2014:Q1

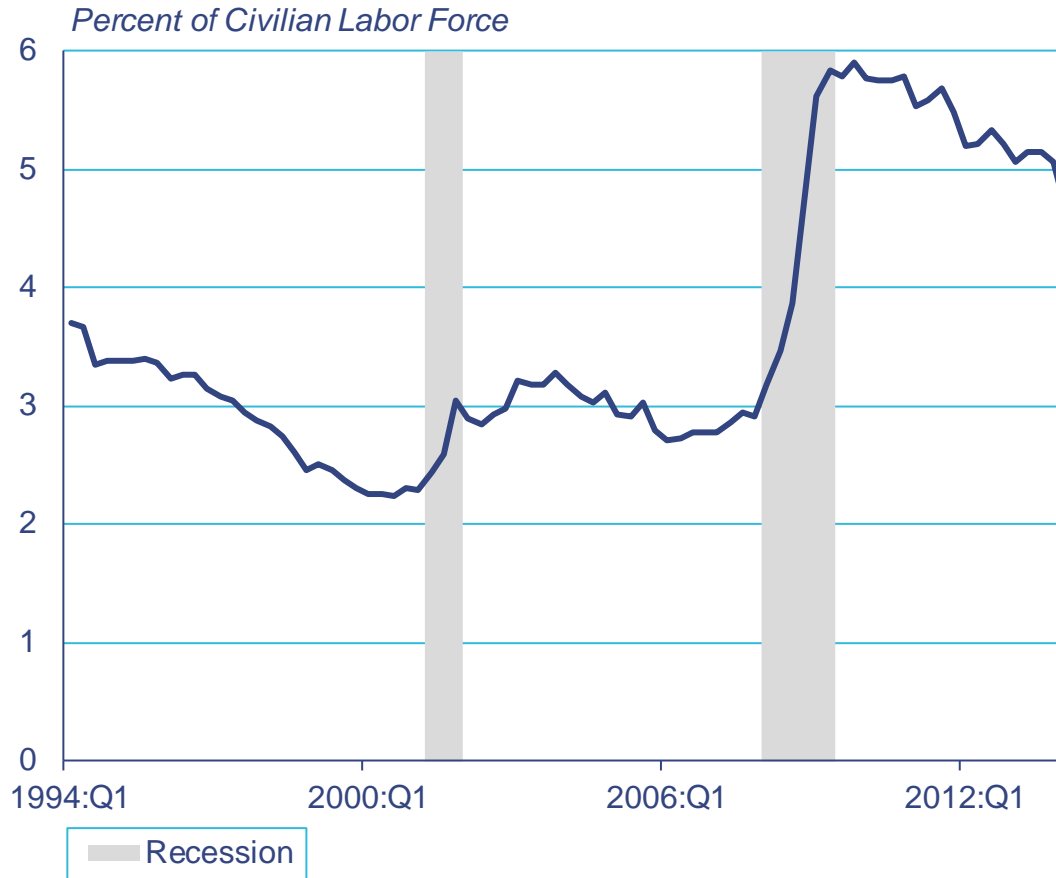
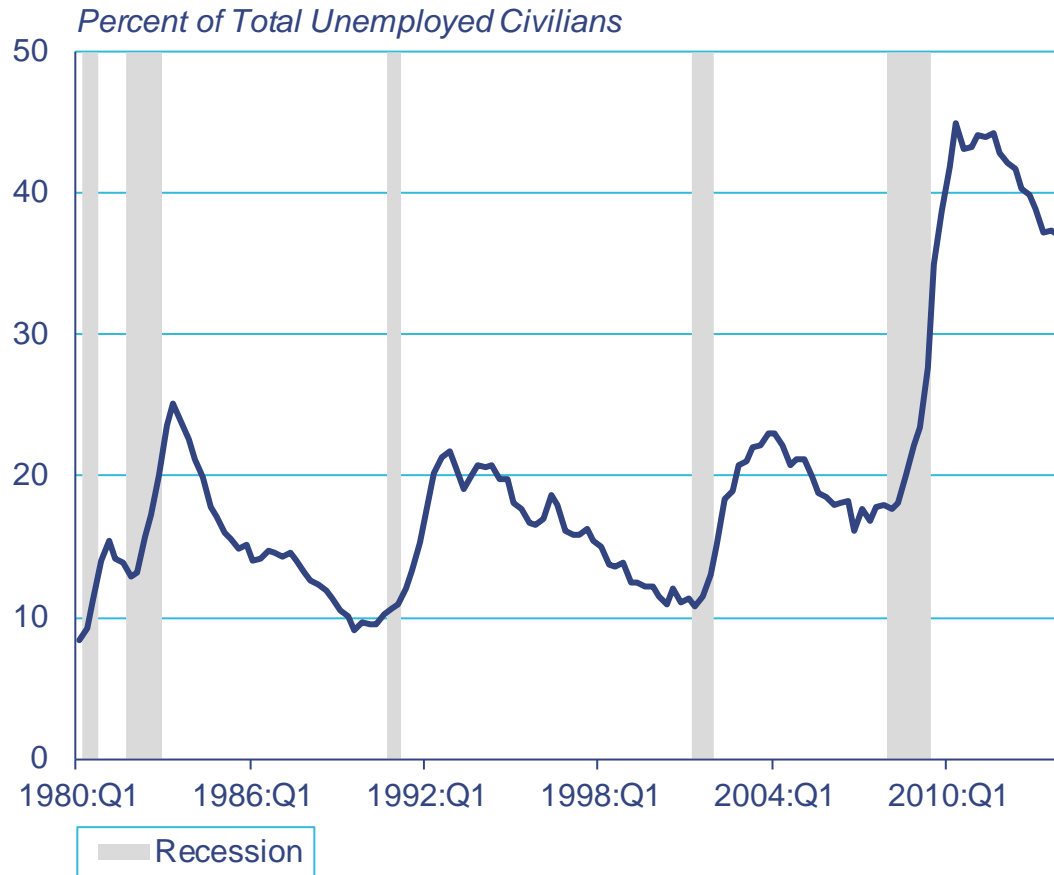


Figure 10: Long-Term Unemployment: Persons Unemployed 27 Weeks or More as a Percent of Total Unemployed Civilians

1980:Q1 - 2014:Q1





Will Historical Patterns in Economic Data Resume?

- ▶ Likely yes
 - ▶ However, an unusual degree of uncertainty given that a variety of economic patterns have shifted since the recession...
 - ▶ Will new household formation grow more quickly?
 - ▶ Will households and firms continue to be so risk averse as a result of the crisis?
 - ▶ Will labor markets be strong enough to re-employ the long-term unemployed?
 - ▶ Will previous patterns re-establish or will “scarring” mean longer-lasting impacts?
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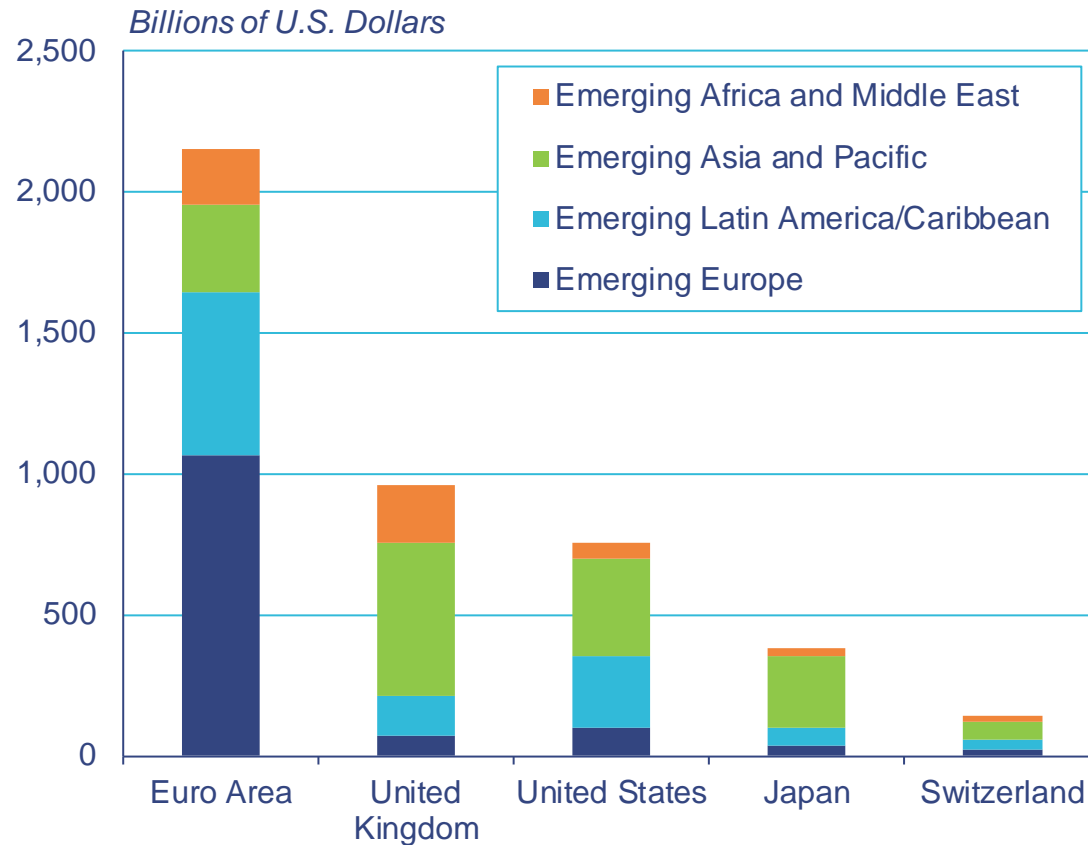


Shocks Outside of Our Control Can Still Be Important

- ▶ My forecast expects no significant foreign shock
 - ▶ However, it is not hard to imagine a shock given the uncertain situation, for example, in Ukraine
 - ▶ Europe is still only slowly recovering, with very low inflation and very high unemployment
 - ▶ Risk of oil disruptions
 - ▶ Risk of banking problems
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Figure 11: Foreign Claims of Domestically Owned Reporting Banks on Emerging Market Economies Consolidated, Ultimate Risk Basis

2013:Q3



Note: Worldwide consolidated positions of domestically owned banks of 24 reporting countries.

Source: BIS Quarterly Review, March 2014, Statistical Annex Table 2B



Concluding Observations

- ▶ The economy continues to slowly improve
 - ▶ However, there are several reasons to be cautious and patient
 - ▶ We still have high unemployment and very low inflation
 - ▶ Remember: Negative shocks to the economy may be more difficult to offset than positive shocks
 - ▶ Monetary policy should remain highly accommodative until the economy is on a more solid footing
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