How to Stop Worrying About R-Star - and Let Go of Activist Interest Rate Policies

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The Perceived Problem of a Low "R-Star"

• "R* is the short-term real rate such that policy is neither accommodative nor contractionary"

$$i = r + \pi \tag{1}$$

• $i = nominal rate, r = real rate, \pi = inflation rate$

Fed Policy Issue

- Low r + low π limits Fed's ability to lower interest rates when economy weakens (ZB)
- I will argue that short-run interest rate policy independent of level of R^{*}- may have little positive effect when economy weakens

Today's View About Policy and R-Star

- Policy view based on 3 assumptions that go hand-in-hand:
- *Phillps Curve* systematic empirical relationship between unemployment and inflation exploitable by policy
 - Temporary (demand) shocks dominate fluctuations
- "*Secular Stagnation*" *chronically low demand* is depressing trend economic growth
- I will present evidence that these views have limited empirical support and/or are not clearly understood
- Discuss these 3 assumptions in turn

Phillips Curve is not in the Data

- In 2000, Atkeson-Ohanian showed Fed inflation forecasts based on Phillips Curve much worse than *naive forecast*
 - Naive forecast: future inflation is equal to current inflation
- Why is naive better? Weak empirical relationship between unemployment (or other measures of economic slack) & inflation
- Many follow-ups, several by Stock & Watson (SW) same conclusion:
- "Suppose you are told that next quarter the economy would plunge into recession, with the unemployment rate jumping by 2 percentage points. Would you change your inflation forecast? The literature is now full of formal statistical evidence suggesting that this information should be ignored." SW, Phillips Curve Inflation Forecasts, 2009











What Happened to Phillips Curve?

- Foundations of Phillips Curve "Sticky Wages" & "Sticky Prices" have changed
- These factors are less important today than in past
- *Sources of wage stickiness*: private sector unionization rate declined from about 35% to around 6%
- Incentives to change wages: Today, laid-off workers suffer enormous future wage losses (Davis and Von Wachter)
- This means workers gladly will accept even large wage cuts to keep job during recession
- Sources of price stickiness: More vigorous competition, technological change in information, sales, marketing, and pricing practices (Amazon, Walmart, Airlines, Hotels,...) suggest price stickiness and its allocational effects have declined over time

Short-Run Fluctuations Have Declined Over Time

- Interest rate policies based on temporary (demand) shocks driving fluctuations
- Fluctuations due to very long-run components since early 1980s
- Decompose deviations from trend into a short-run and a long-run component
- Long-run dominates in U.S. and in other countries
- Suggests conventional policies will not be effective















Secular Stagnation? Real Returns to Investment are High

- Gomme, Ravikumar, & Rupert (2015) construct real returns on gov't & private assets
- "Business capital returns bear little resemblance to short-run gov't returns"
- Both pre and post-tax returns to private capital are historically high
- 2012-16: 11.8% pre-tax return historical average = 10.7%
- 2012-16: 7.6% post-tax return historical average = 6.0%
- U.S. today is not a *low rate of return economy*







Despite High Returns, Investment is Weak

Investment is well below trend

Average Annual Growth Rate - Real Gross Domestic Investment

1950s	1960s	1970s	1980s	1990s	2000-16
2.0%	5.5%	5.2%	3.7%	5.9%	1.1%

- High returns & low investment suggest either:
- (i) Much higher risk, or (ii) much lower expected future returns
- Both are possibilities
- Low productivity growth (Haltiwanger et al)
- Impact of uncertainty (Bloom, Baker, and Davis)
- These factors are not reasonably addressed by monetary policy

What Should Fed Do About Low R-Star Conundrum?

- Breakdown of Phillips Curve, dominance of long-run fluctuations, high return-low investment economy, suggest:
- Short-term interest rate policies may not help when economy weakens
 but this remains at the top of the Fed's to-do list
- "Phillips Curve is predictively irrelevant...but remains a workhorse of forecasting models and is the best way to understand policymaker views about unemployment and inflation" SW, Phillips Curve Inflation Forecasting, 2009
- Alternative develop rules-based policies that focus on low and stable inflation and that promote well-functioning capital markets
- Fed can contribute significantly to understanding how capital market regulatory channels are impacting allocation of capital
- Policies that improve capital allocation to rapidly-growing businesses are much more more beneficial than short-term interest policies aimed at dampening fluctuations