



Discussion of Barraso et al. “Quantitative easing and capital flows in Brazil...”

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ECB/IMF Conference

International dimensions of conventional and unconventional monetary policy

Frankfurt, 29-30 April 2014



The Plan

The paper's main question...and its answers.

Methodology

A few reasonably constructive questions

Some thoughts on x (the foreign policy variable) and QE v. RA.

1. The Paper's Main Question...and Its Answer

- Qu: What are the spillovers from the Fed's QE policies to the Brazilian economy?
- Ans: “evidence...consistent with the view of emerging market policy makers...strong spillover effects on the Brazilian economy...excessive capital inflows, exchange rate appreciation, stock market price increases and a credit boom...”
 - Capital inflows are most important transmission channel. Therefore
 - Though QE policies supported domestic economic activity, “share of the positive effects...not associated with collateral destabilizing consequences in credit and asset markets is relatively small.”
 - Role for capital inflow regulation.

2. Methodology

- Focus on QE rounds from Dec 2008 to June 2012
- Attempts to estimate the effects of QE on Brazilian macro aggregates under the assumption that QE was exogenous.
- Strategy: Compare forecasts after QE to forecasts prior to QE (equations 3 through 5). To do so, forecast domestic variables conditional on the past and on future paths of policy variables. Then compute an *interim policy effect* that is the difference between forecasts under the actual variables and forecasts under counterfactuals for the policy variables.

2. Methodology

- QE is measured by the change in US 10yr-3mth spread.
- Effects in Brazil are measured by Brazilian price level, economic activity, gross capital inflow, policy rate, and exchange rate.
- Global variables include raw materials/mfg_goods price, global trade volume, EMBI+ spread
- And, to be specific, define
 - *interim policy effect* as expected given actual paths for QE and global variables minus expected given counterfactual paths
 - *ex post policy effect* as actual minus expected given counterfactuals or forecast error + interim effect

2. Methodology

- Assume DGPs under actual and counterfactual are identical (ie policy shocks unanticipated), drop the variables into a VAR, compute h -step ahead forecasts of domestic variables given actual and counterfactual, call the marginal channel effects the measure of quantitative significance of the transmission to domestic variables.

3. A few reasonably constructive questions*

- Why we should view QE implementation as exogenous? Or, more directly, why does any anticipation have negligible effect on forecasts? See [Cashin and Unayama](#) for a nice example of how to at least discuss exogeneity of policy implementation.
- More justification for the counterfactual policy variables? Perhaps use professional forecasts, or forward rates, to get a better sense of market expectations.
- Why a structural VAR? And how is the Choleski decomposition justified? Why do you need orthogonal forecast errors? If you aren't interested in identifying a full set of structural shocks, this all seems unnecessary and overly restrictive.
 - If you do need orthogonal shocks, a more agnostic approach would be to rotate through different identification matrices and report average effects across the rotations.

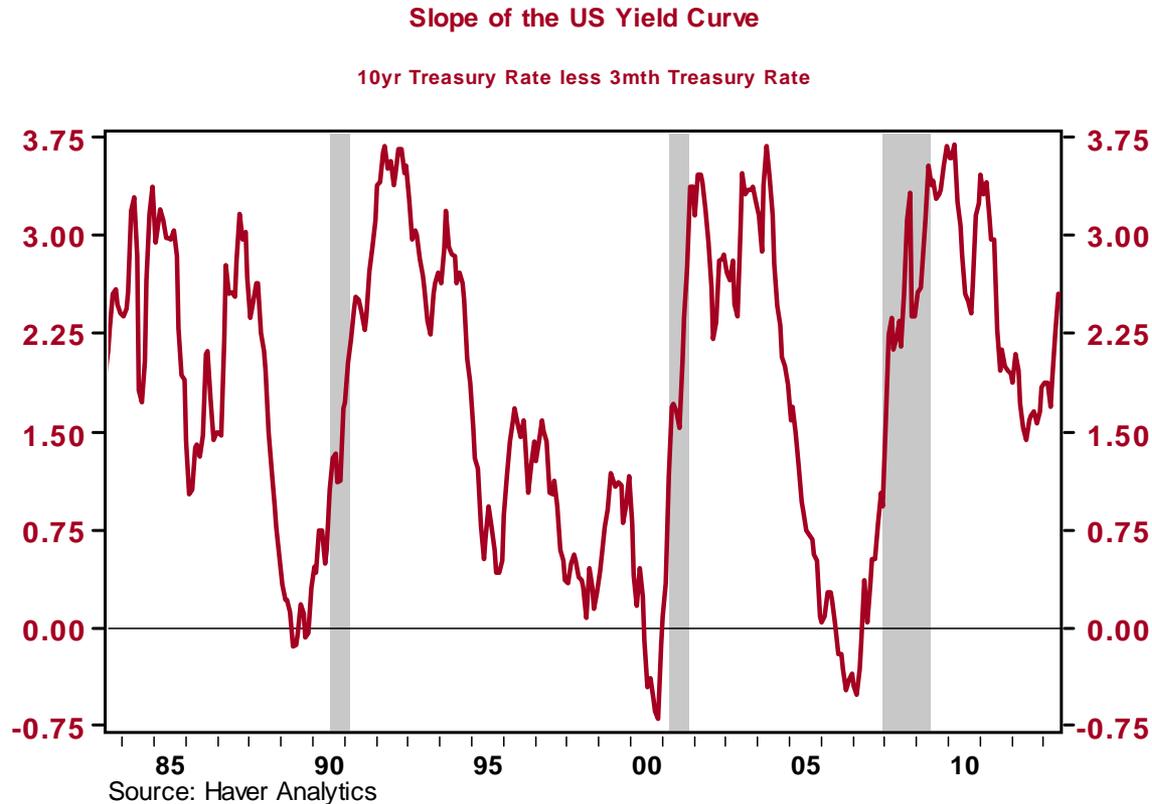
3. A few reasonably constructive questions

- The monthly VAR has only two lags (p 13)? Seems incredibly short to capture the dynamics.
- Normality tests are rejected. Important? At a minimum suggests standard errors should be bootstrapped.
- Formal break tests suggest breaks at the beginning of QE (page 13)? If so, would this invalidate the VAR?
- QE had deflationary effects (p25-26)? The authors suggest that this may be due to strong global activity. What is the channel from strong global activity to deflation?

4. Some Additional Thoughts

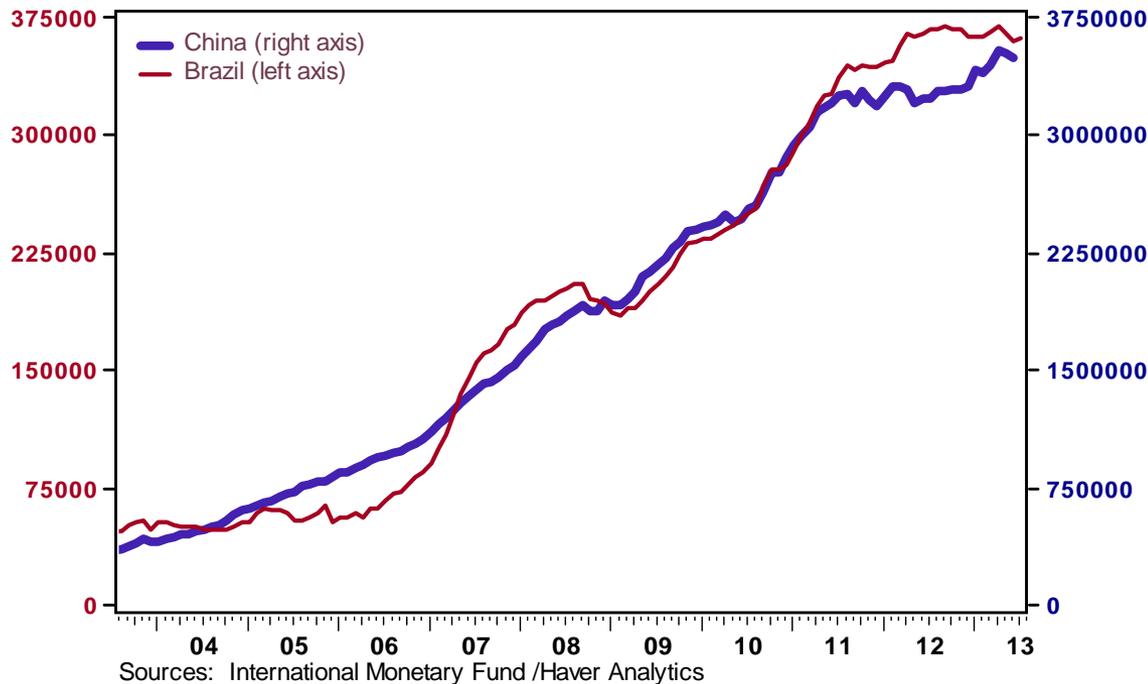
- Any and all movement in the term spread is attributed to QE.
 - “...the estimation sample must be selected so that the term spread has been driven mostly by liquidity considerations...”
 - This rings of “if you believe QE is the dominant force behind changes in the term spread, then I’ll proceed to tell you how important QE is”
 - Working assumption is that QE reduced the US term spread by 75 to 225 bps, with “point experiments” at 150 bps. Seems quite large.
- Quite a bit of ad hoc decisions
 - Tried to restrict to QE1, but the model didn’t perform well so results not shown.
 - Start the sample pre crisis – how much prior to the crisis? Not sure...let’s choose Jan 2006.
 - Add variables one at a time and when results diverge, drop that additional variable. Suggests order matters. Does it?

**If so interested in changes in slope of US yield curve,
why not run the exercise on the 2004-2007 period?
Might argue that that preceded QE, but...**



...perhaps a period of unconventional monetary policy?

China and Brazil: FX Reserves
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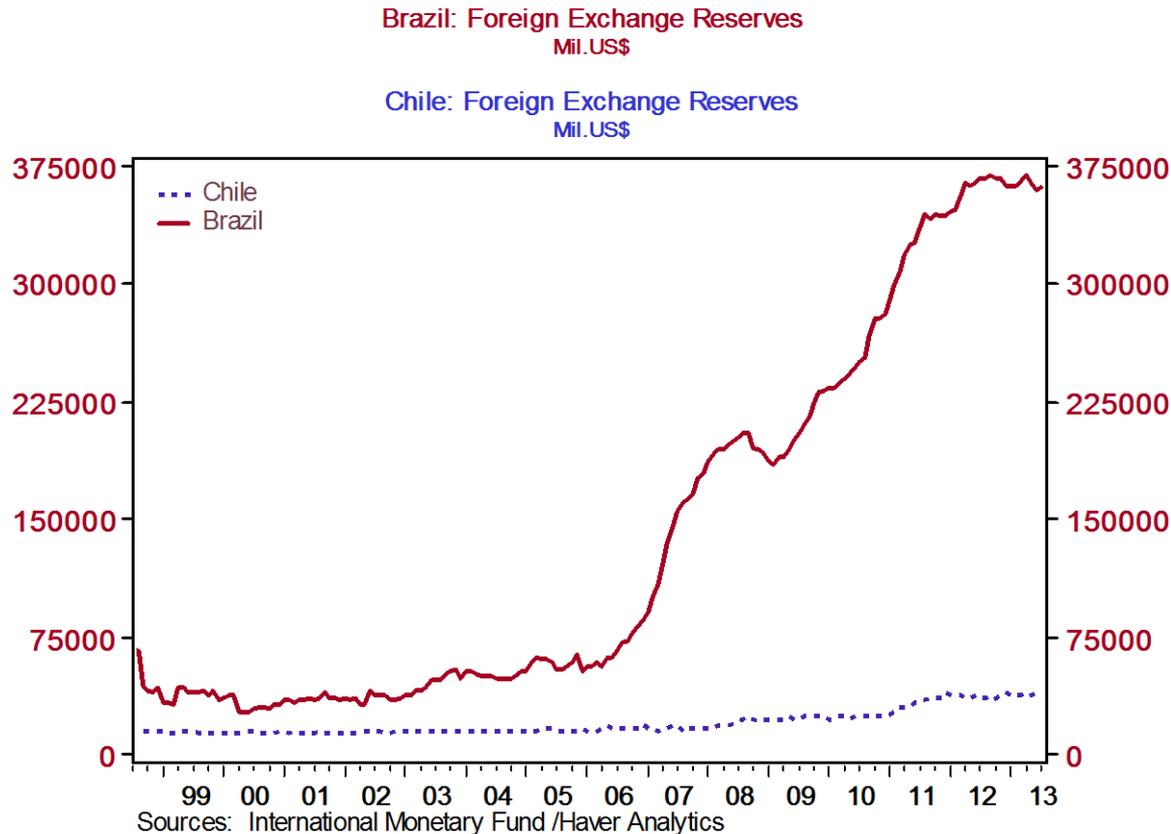


With Spillovers?

“...large net capital inflows may be the result of an explicit policy of reserves accumulation rather than a capital inflows push...”

Jose de Gregorio (2012)

Not all countries engaged in such UMP

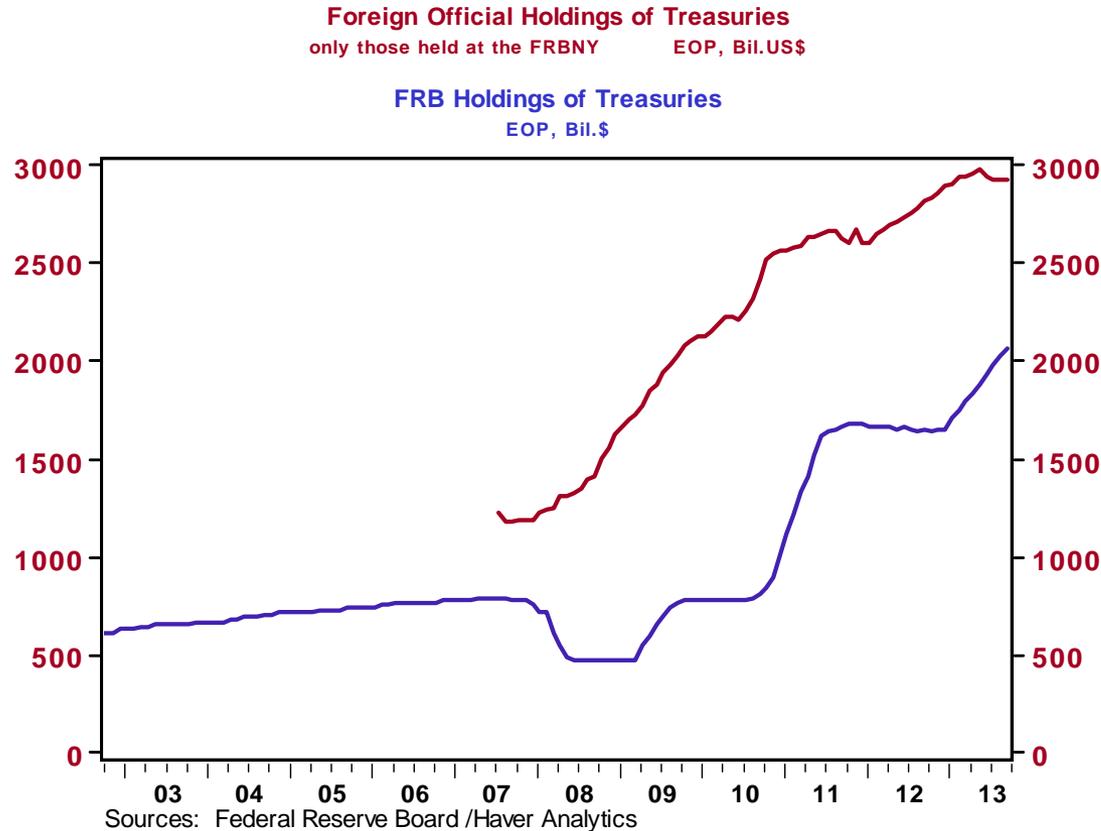


With Spillovers?

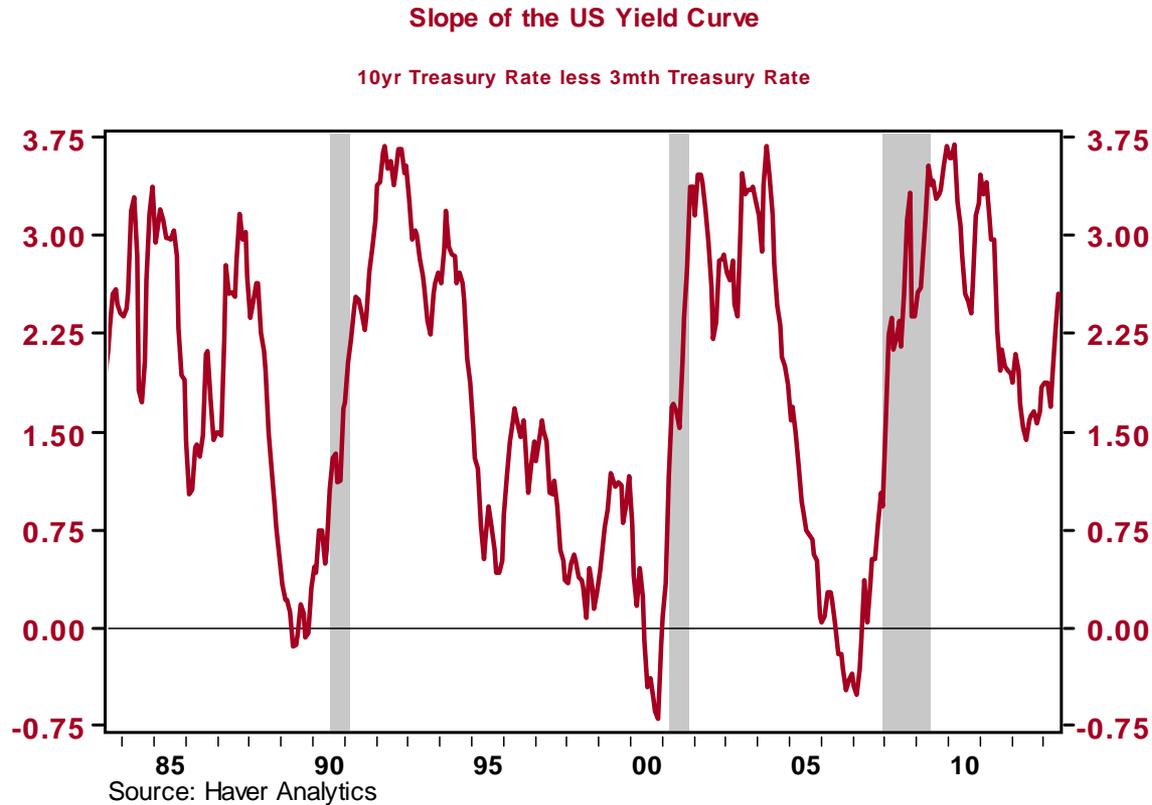
“...large net capital inflows may be the result of an explicit policy of reserves accumulation rather than a capital inflows push...”

Jose de Gregorio (2012)

QE is an interesting story. But while the spotlight is out, let's shine it on the much larger UMP: Treasury holdings from Reserve Accumulation.



Again, if the focus is on the US term spread, there are other interesting UMP episodes that need to be examined.



Last Slide

- The paper assesses the spillovers from the Fed's QE policies to the Brazilian economy.
- It finds evidence consistent with the view of emerging market policy makers.
- I really like the exercise.



Thanks!