

# Brazil: Short-term outlook\*

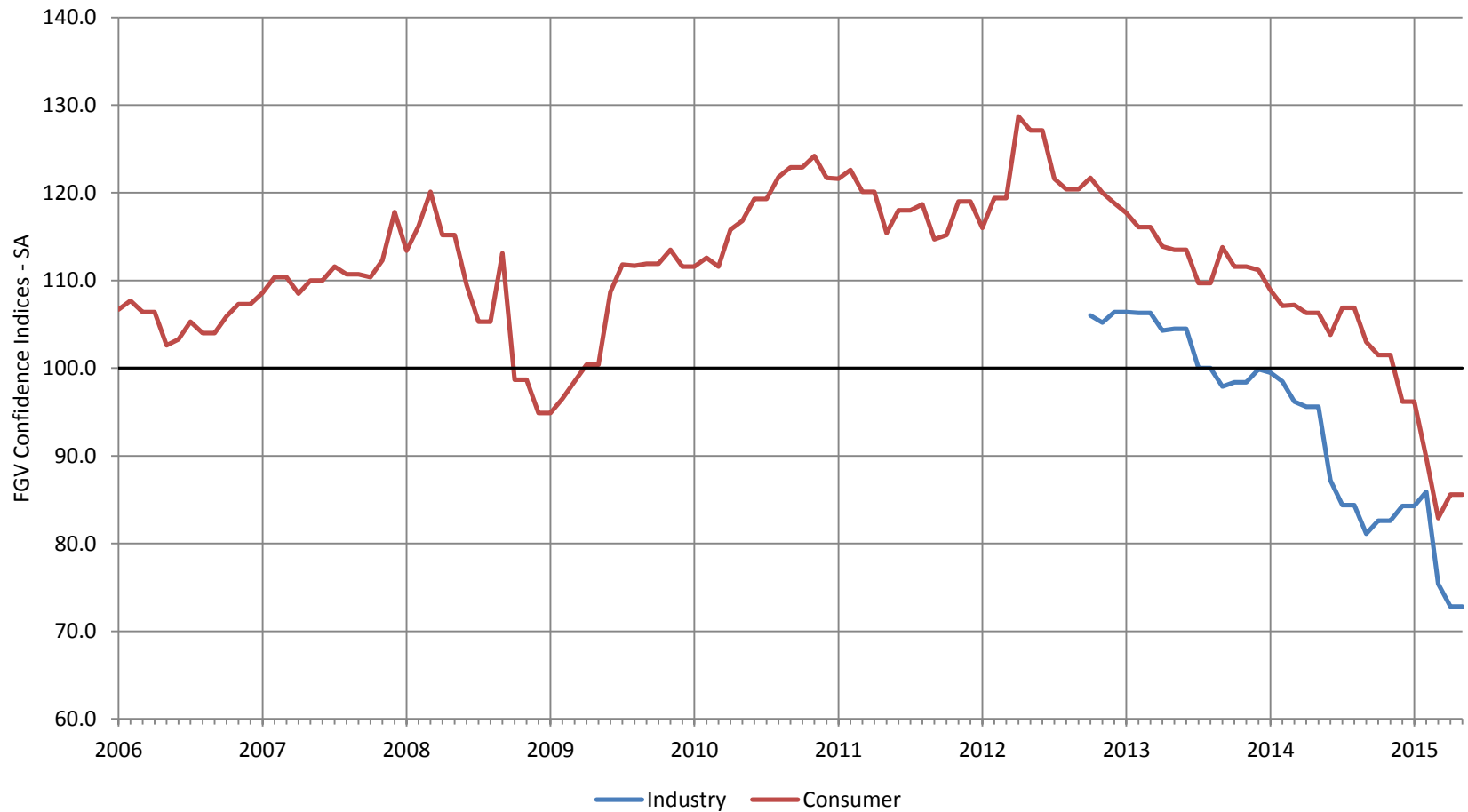
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Casa das Garças – Homenagem ao Professor Albert Fishlow  
Rio de Janeiro: July 3, 2015

\*All data used for the charts in this presentation are from BLOOMBERG PROFESSIONAL service.

# A crisis of confidence

Accentuated by the political process in 2014; mismanagement;  
poor and uncertain prospects



# What happened?

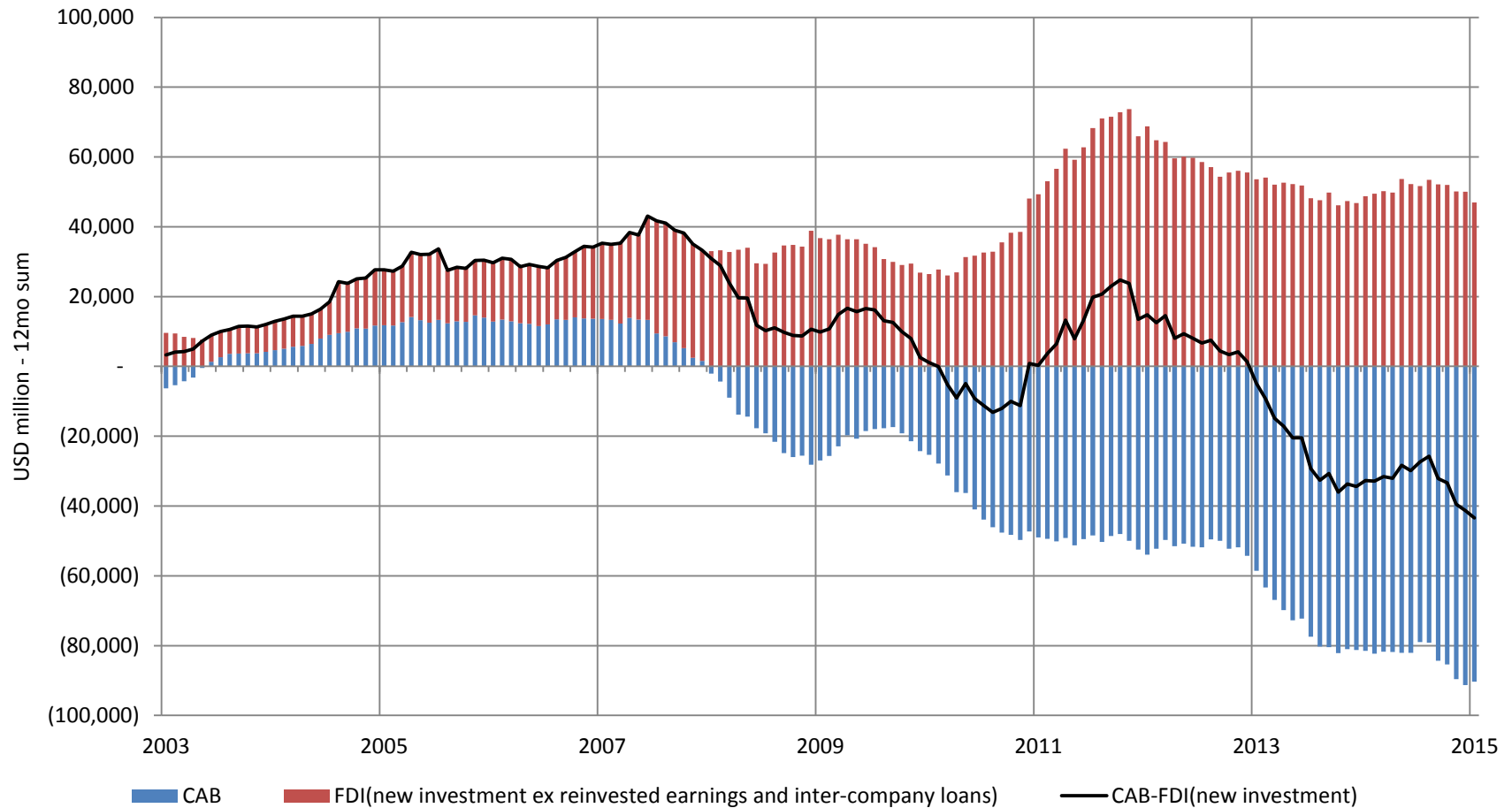
- Historical origins (Lula)
  - Mensalão and Lula2: Sindicalismo for political support and staffing of key positions; interventionism and resort to populism with use of state apparatus for political goals
  - GFC as an excuse to pump-prime the economy; re-gearing BNDES; erroneous assessment of crisis impact: China's 2% of global GDP impulse and impact on imports and prices of commodities
- Mistaken diagnosis (Dilma)
  - Misreading of the causes of recent growth: It was mainly China and “external manna” not a new “growth model” hence no change in trend potential GDP
  - Demand management policies (credit mainly through public banks & public spending) to push growth to “potential @ 4.5-5%pa” backfired
    - Wider CAD: Post GFC policy-induced boom attracted large k-inflows; thereafter increasingly financed by more speculative flows made worse by currency intervention and induced appreciation of BRL/USD
    - Deep fiscal deterioration (including machinations/“pedaladas”) at all levels of government (inc. return to imprudent subnational borrowing)
    - Price controls, etc. with repressed inflation and serious loss of credibility in monetary policy
    - Loss of confidence with collapse of investment and, eventually, with reduction in credit growth also deceleration in consumption → no growth

# Weakening of the external accounts post-GFC

Consumption-fueled import drive

Corporate shift from domestic to external funding

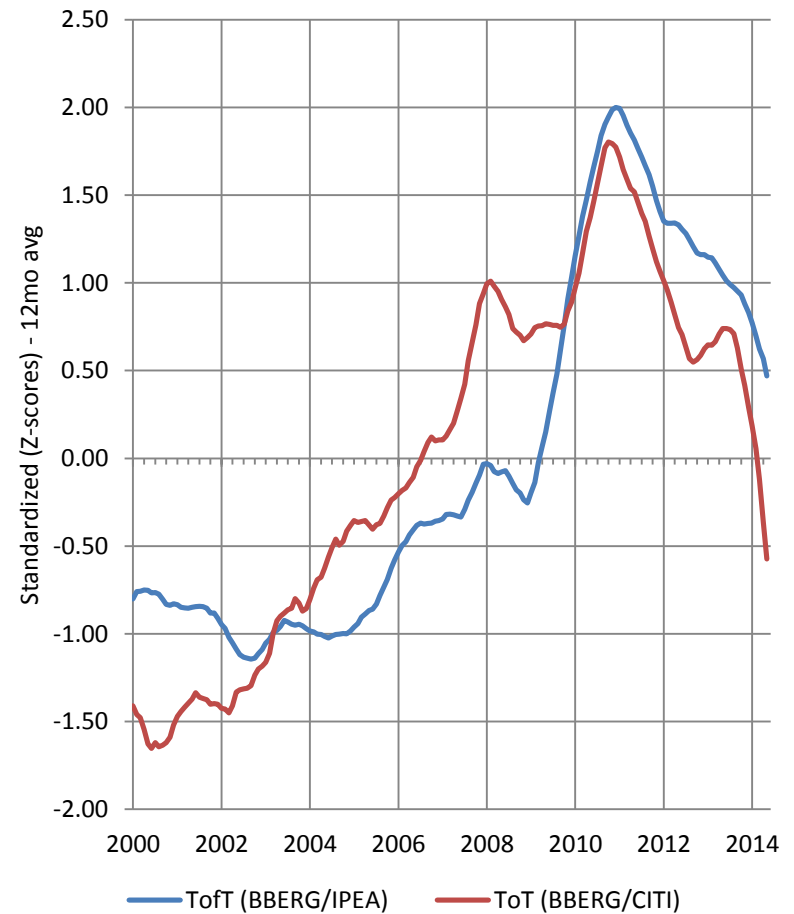
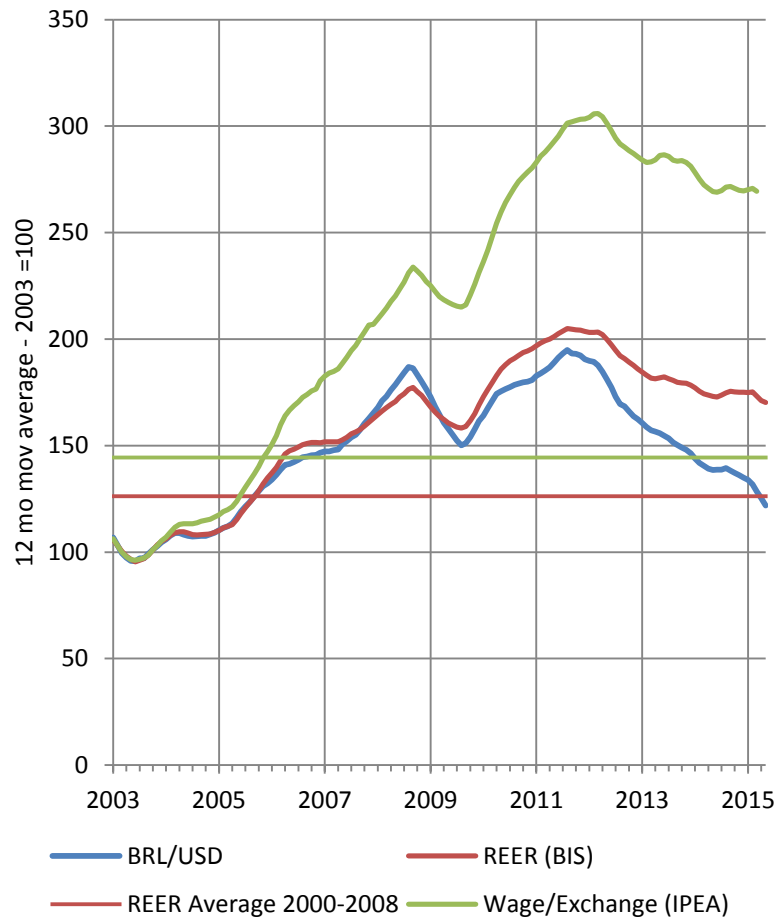
Speculative K-inflows: Progressive decline in “true” FDI funding



# Large gains in ToT pre and post GFC (China)

Reversal post-2011 = Cycle of lower commodity prices

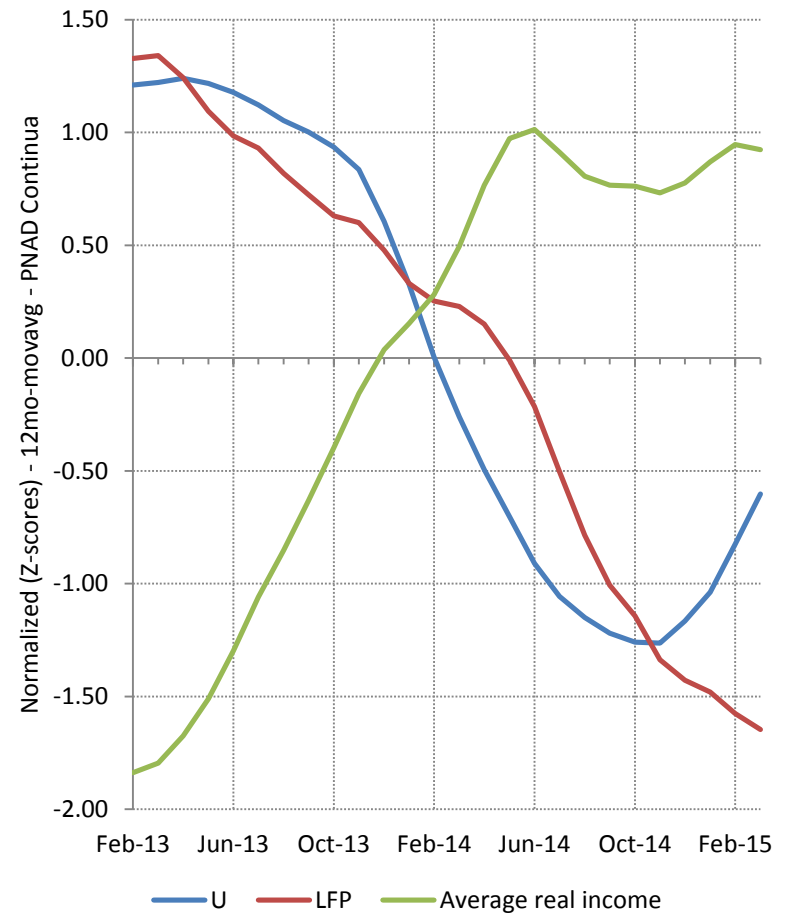
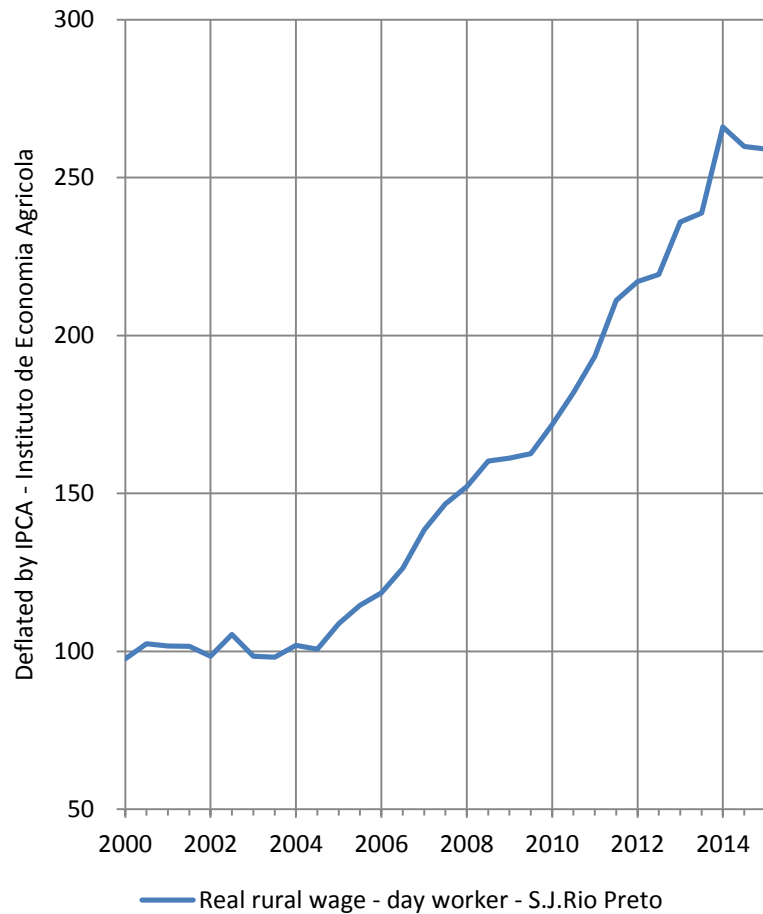
Gains in REER and especially in W/FX ratio (ULC) = To be reversed (Wage share down)



# Growth in real incomes

Part policy: Real increase in MW 2003-2014 = 73.4% (5.1%pa vs. GDP 3.5%pa)

Part demography (also policy): Drop in LF growth and in LF participation



# Lula 2 + Dilma 1: Sustained erosion of fiscal strength

At first compatible w/changes in debt composition; since 2012: increasingly reckless

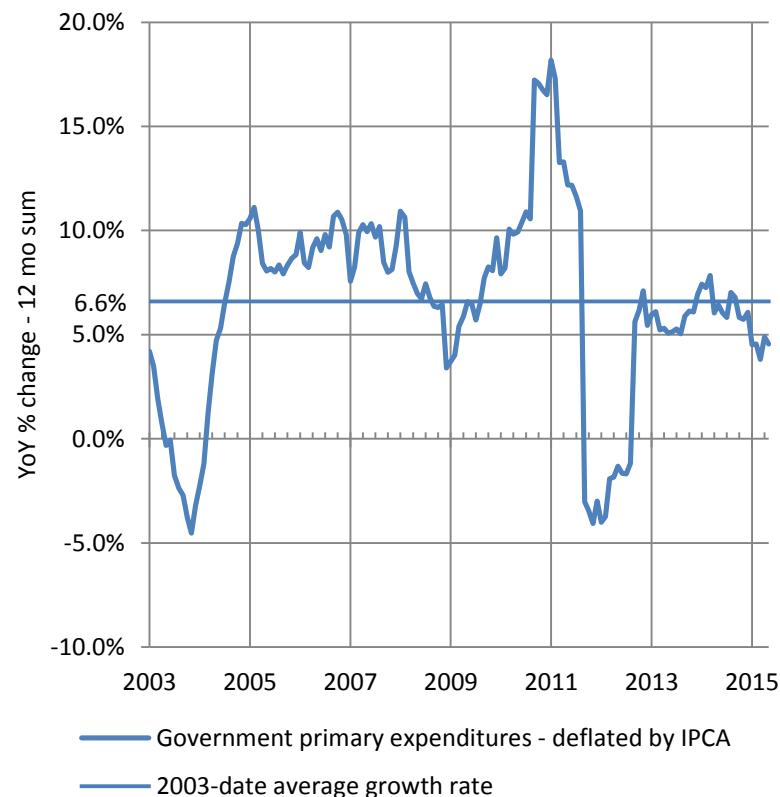
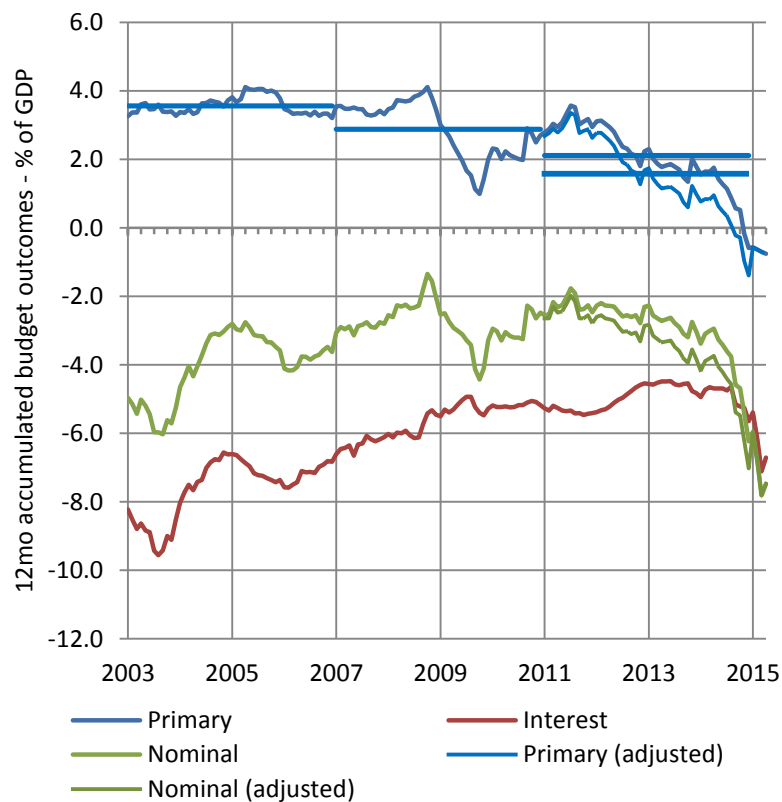
Arguments of fiscal dominance in play: Interest bill = 8% GDP and rising

## Politics under “Presidential Coalition” post-1998 = Fiscal failure

(Exchange of congressional votes for pork-barrel spending ...and no one cares about taxes)

➔ Public spending w/o accountability

➔ Public taxation through “stealth” taxes: Income tax = 24% of revenues (32% in 1997)



# Dilma 1: Good-bye inflation targeting, hello price controls

Inflation under control? Read, lower than ceiling of the band (6.5%)

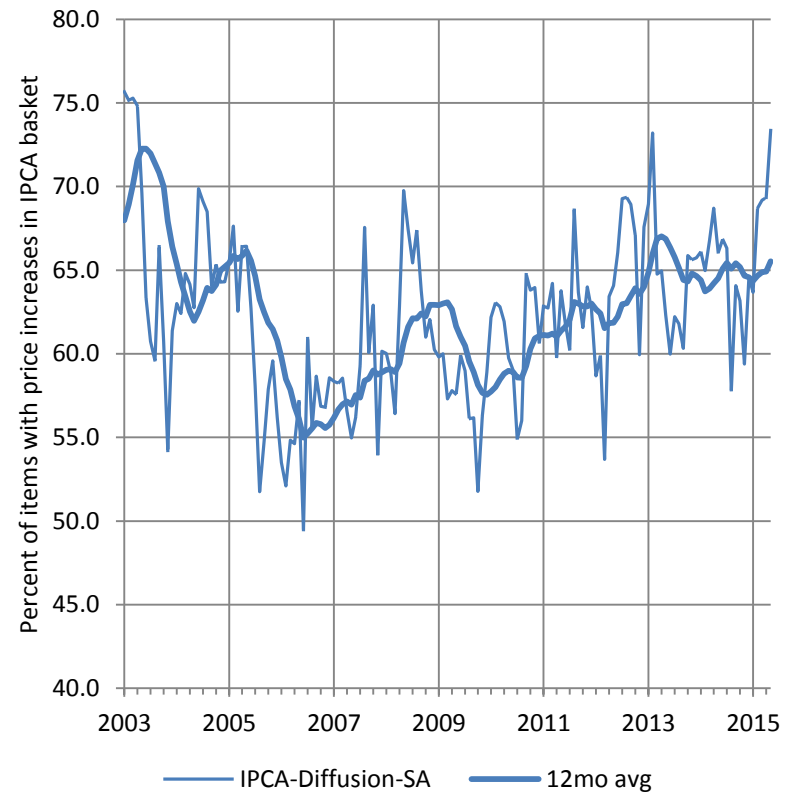
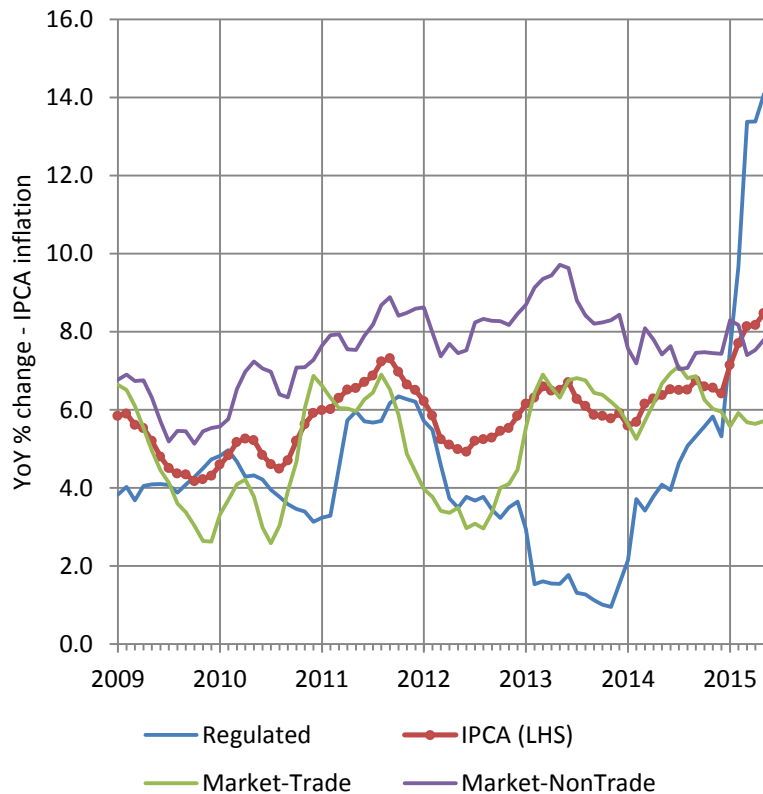
Problems? Control prices; grant targeted tax dispensations; intervene in the currency

Outcome: 2015 is the year of correction of repressed inflation; IPCA yearend 9-10%yoy

Underlying inflation since 2011 at 6%+, accelerating since 2013

De-anchoring of expectations & loss of nominal anchor

Rising persistency/inertia in inflation: 2/3 of prices adjust at least once a month



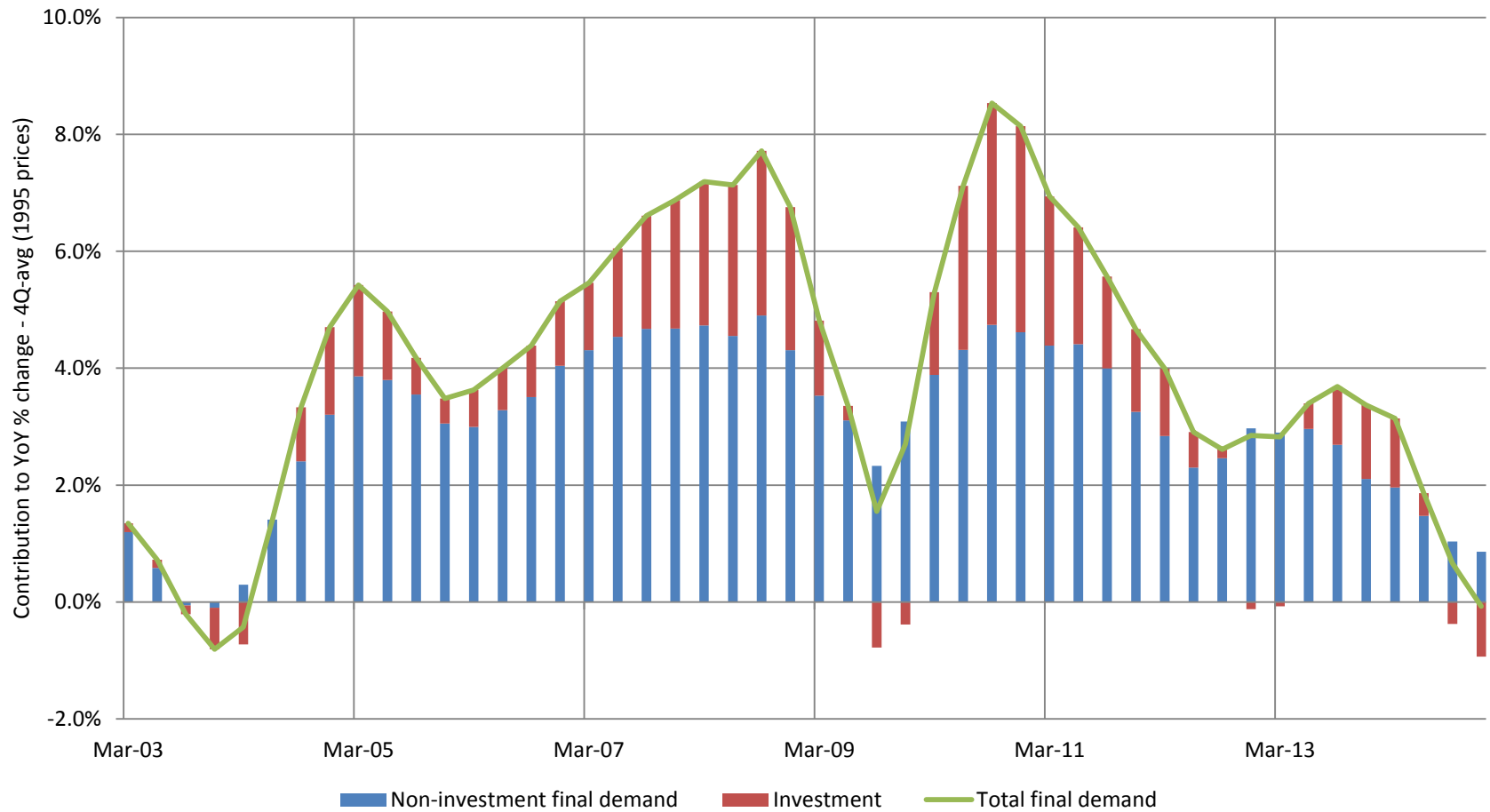


# New Economic Matrix (2011-14)

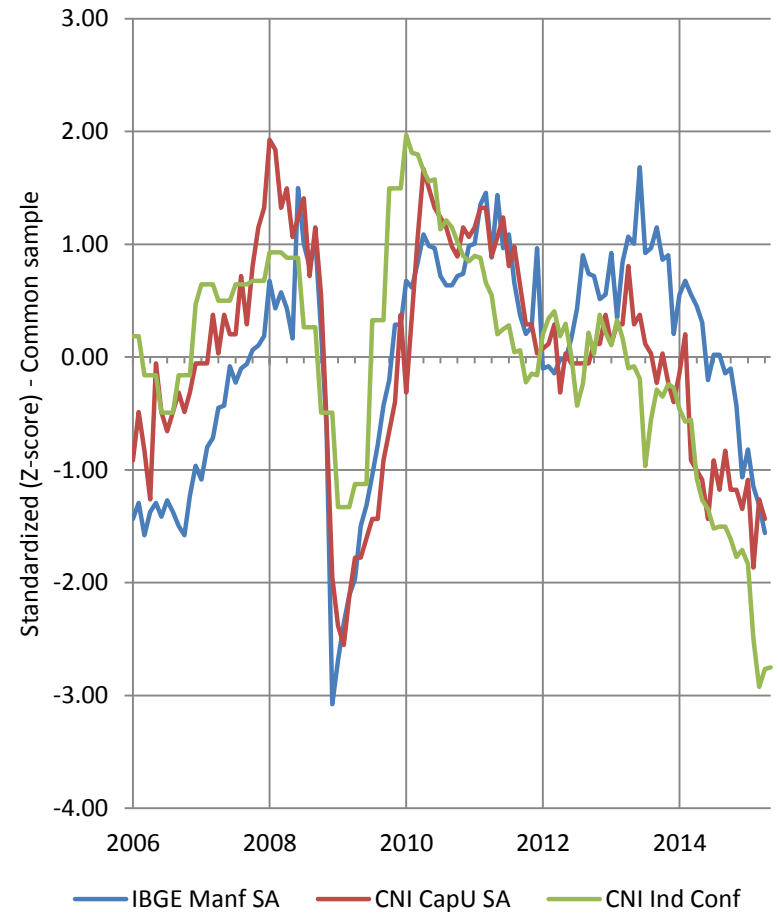
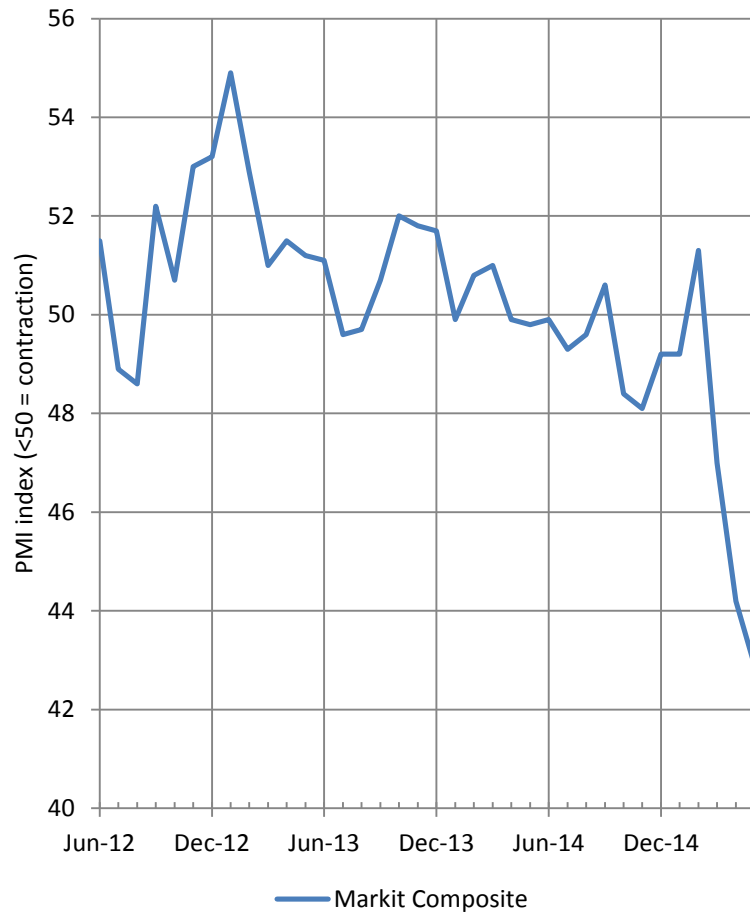
Growth is always and everywhere demand driven

Potential GDP near 5%pa and will always and everywhere increase if demand expands

Thus, if  $y < 5\%$ , more policies to stimulate demand, driven by public intervention



Bad policies, bad luck (reversal of commodity cycle), bad management  
 Result = Collapse in sentiment, in output and investment  
 Industry hit badly... lately, also services w/diminishing income and demand



# Credit boom (2005-09): Legal reforms, higher incomes, financial inclusion

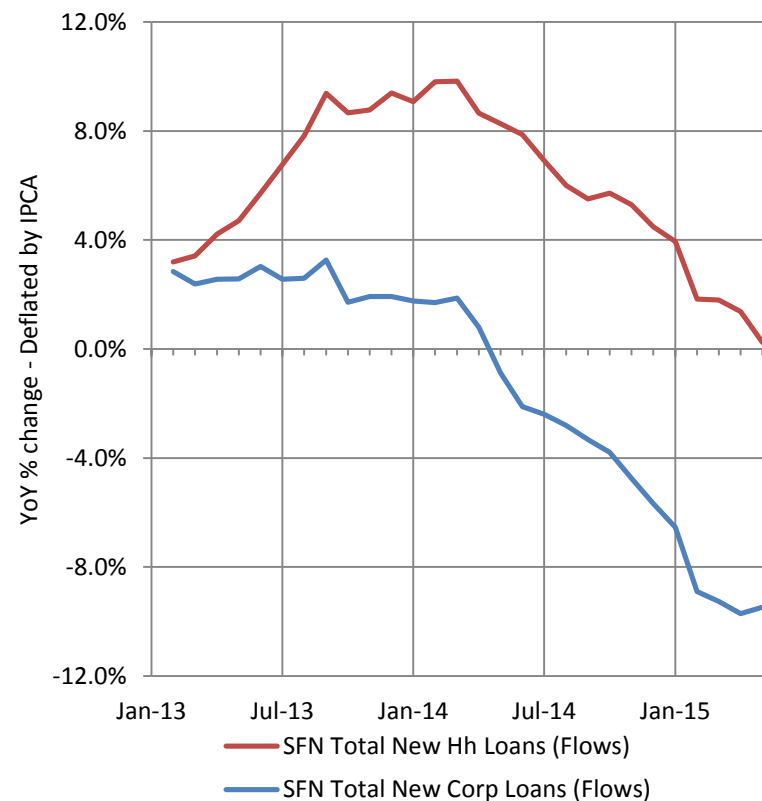
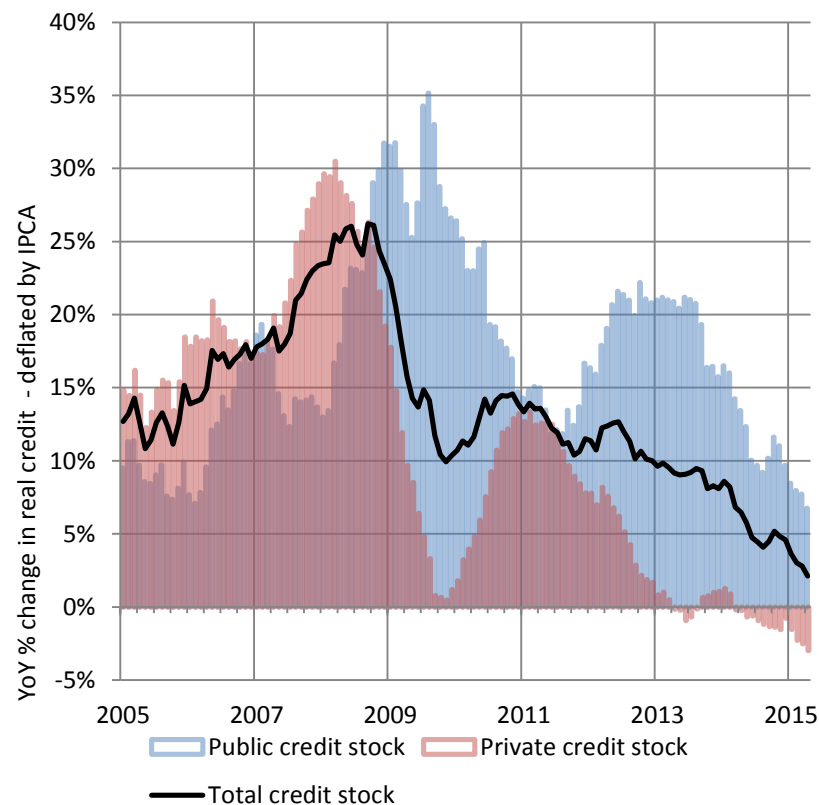
Latterly, policy-driven through public banks ...w/deleveraging by private banks

GFC = Public for private credit; New Economic Matrix = BNDES + CEF

## Demand for credit is decelerating rapidly

Growth in new loans to households at standstill; increases in NPLs, esp. in CEF mortgages

The corporate sector is deleveraging

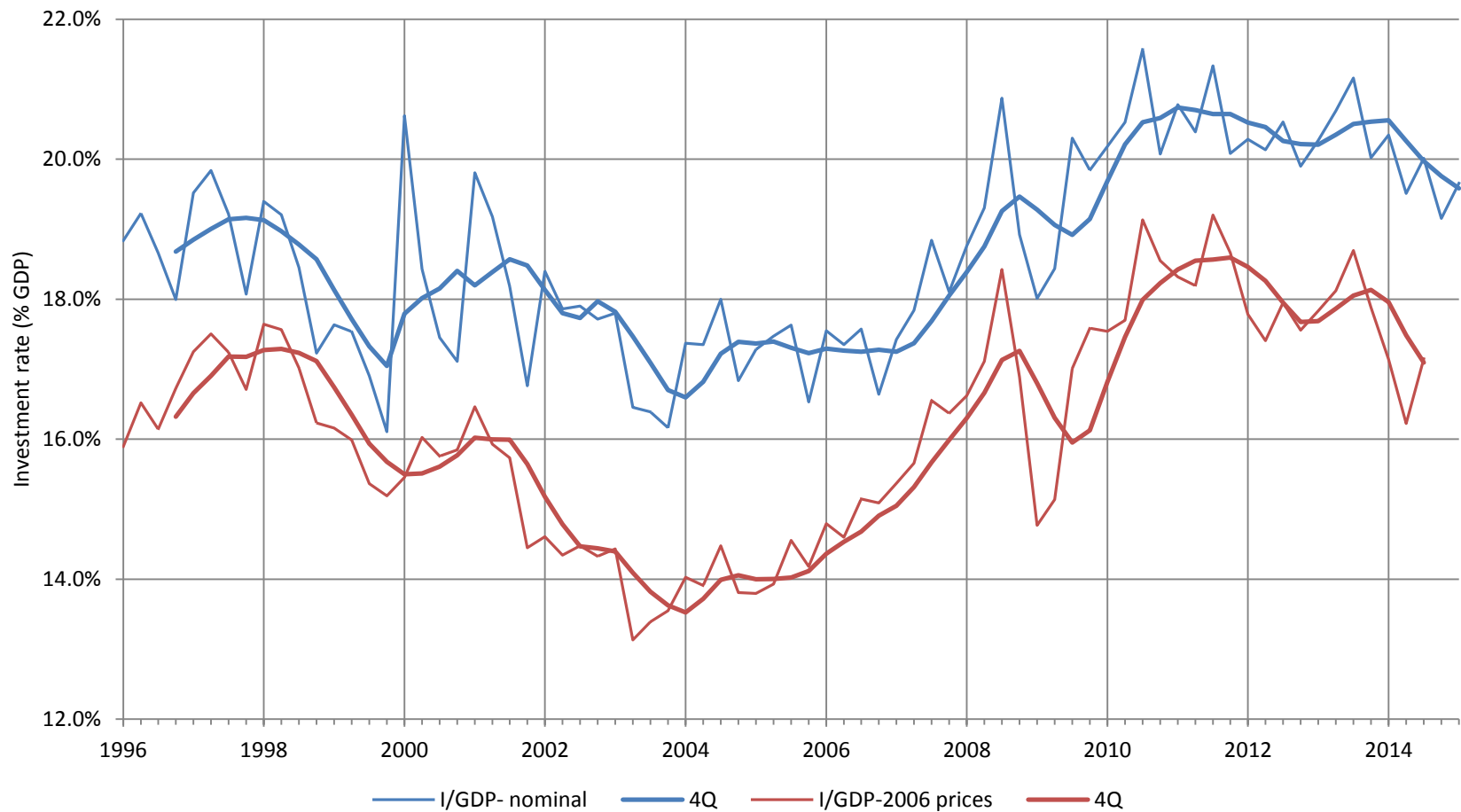


Investment/GDP average 1996-2014 = 16.2% (2006 prices)

Bacha/Bonelli: Low, costly, underutilized, badly allocated and inefficient investment

2004-11 – upward cycle

2012-?? – downward cycle



# Stabilization in 2015/16: More difficult than in 2003/04

	1999-2002	2003	2011-14	2015*
GDP growth (%yoy)	2.3	1.2	2.2	-2.0
Inflation (%yoy)	6.8	14.8	6.1	9.8
Selic-eop (%pa)	25.00	16.50	11.75	14.50
Primary surplus (% GDP)	3.2	3.4	2.1	0.4
Public debt - net (% GDP)	42.8	38.7	31.0	41.0
CAB (% GDP)	-3.7	0.3	-2.7	-4.1
Reserves-eop (\$bn)	37.8	49.3	374.1	370.0

- 2002: Prior to the “Lula shock” the macro was OK: 1999-02 - “new tripod”
  - Inflation: 6.8% yoy; Dec/2002 = 12.5%
  - Primary surplus: 3.4% GDP (1999-02 average)
  - External vulnerability → External shock (BRL devalued 53%yoy in 2002)
    - CAD: 3.7% GDP
    - Reserves: \$36.4bn; Net reserves Dec/2002 = \$16.3bn
    - Share of FX-indexed debt: 27%; Sep/2002 = 41%
    - Mismatched currency composition: A/L of corporate sector
- IMF program + New funding + Palocci transition team (Lula’s fear of 1<sup>st</sup> year crisis) → Stabilization - **China , Terms of Trade and subsequent boom**
- Average primary surplus in 2003 = 3.4% GDP = Return to debt sustainability

## Current stabilization attempt:

Political opposition and hostility w/opportunistic Congress

Fiscal – Poorer starting point with diminished (zero) fiscal space

Monetary – Low credibility; strong inertia and possible overreaction

Growth outlook – Exhaustion of consumer-led impetus; no confidence for investment

- The fiscal deterioration in 2012-14 is large and the fiscal space exhausted
  - Starting point: a deficit in the range of 0.5-1% GDP
  - Required primary surplus to stabilize Debt/GDP
    - Best scenario: 2.5-3% GDP
    - Adverse scenario: 4% GDP
  - Usual response = higher taxes... but Tax/GDP
- Central bank w/low credibility and having to re-invent its MPRF
  - Highly inertial inflation w/negative shocks (administered prices; food, etc.)
  - Issue is less how high the rate than its persistency
  - Fiscal dominance redux? Real implicit cost of debt in double digits

## Fiscal deterioration in 2012-14 Large and damaging

Starting point (2014):

Deficit in the range of 0.5-1% GDP  
(depending on unaccounted items)

Primary surplus to stabilize Debt/GDP

Best scenario: 2.5-3% GDP

Adverse scenario: 4% GDP

Usual response = Higher revenues

Treasury revenues/GDP

12% in 1997 -- 27% in 2014

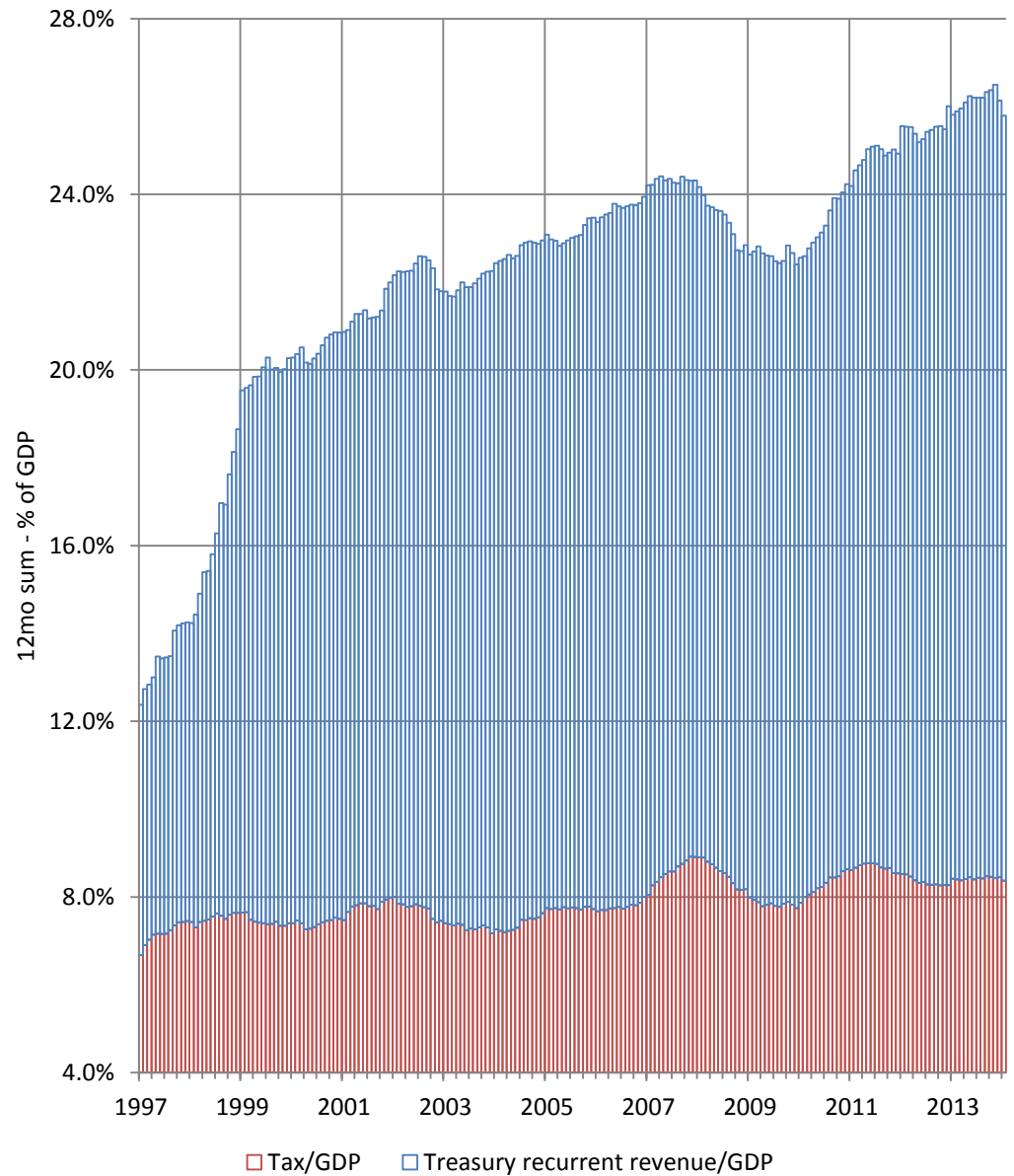
15pp GDP in 17 years: 0.9pp/pa

Real revenue growth = 8.6%pa

Meanwhile (Slide 8)

Real expenditure growth = 6.6%pa

The fiscal space is empty – and with  
the economy in recession real  
revenues are down: -4.0%yoy in May  
-3.1%yoy 12mo



# Debt/GDP > 60% GDP

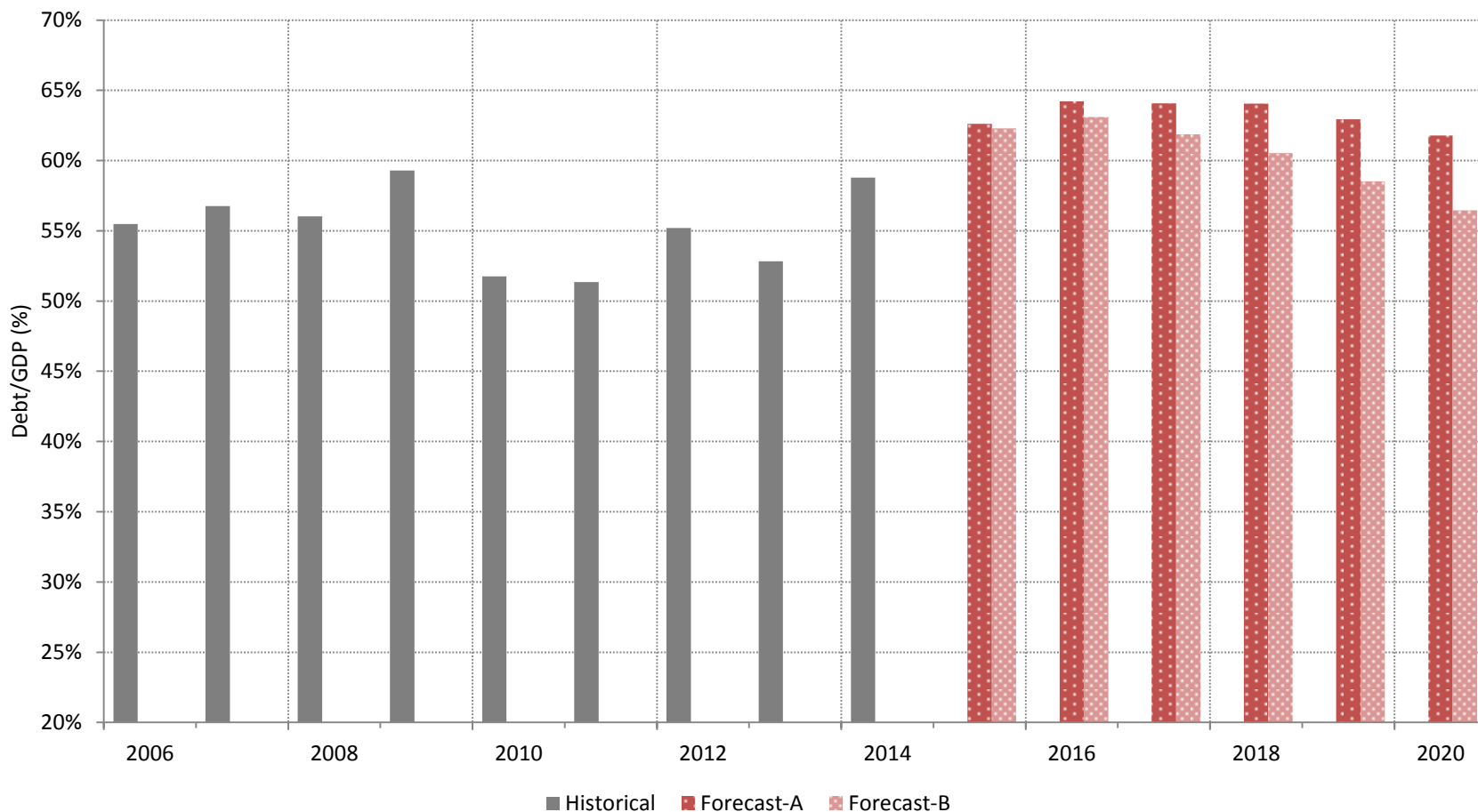
Current fiscal stance: Unstable path

Fear of a downgrade below I-grade

Greater uncertainty in portfolio flows to finance

4%GDP CAD

Base Case	2015	2016	2017	2018	2019	2020
GDP growth (YoY%)	-2.00	0.50	2.00	2.00	2.00	2.00
Primary surplus (% GDP)	0.40	1.20	2.00	2.00	2.50	2.50
Effective interest rate (%pa)	28.63	14.07	16.17	16.01	15.86	15.73
Average Selic	14.00	13.00	10.75	10.00	8.50	8.50
Inflation (YoY %)	9.00	6.00	5.20	4.50	4.50	4.50
Base money (% GDP)	4.76	4.76	4.76	4.76	4.76	4.76
BRL/USD	3.40	3.60	3.80	4.00	4.20	4.40





# BACEN: De-facto abandoned IT regime in 2012-14

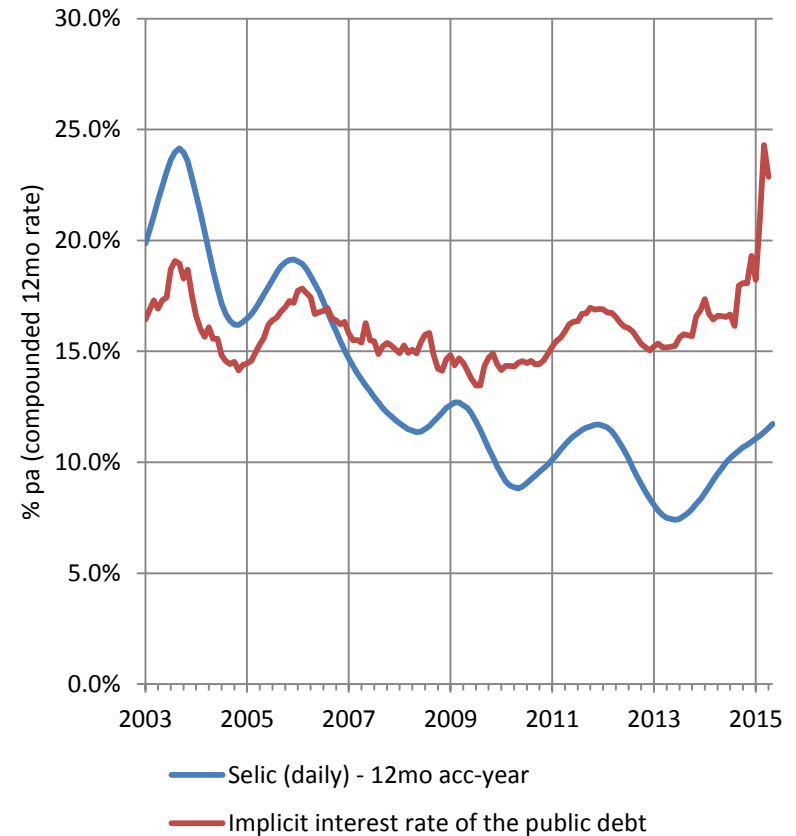
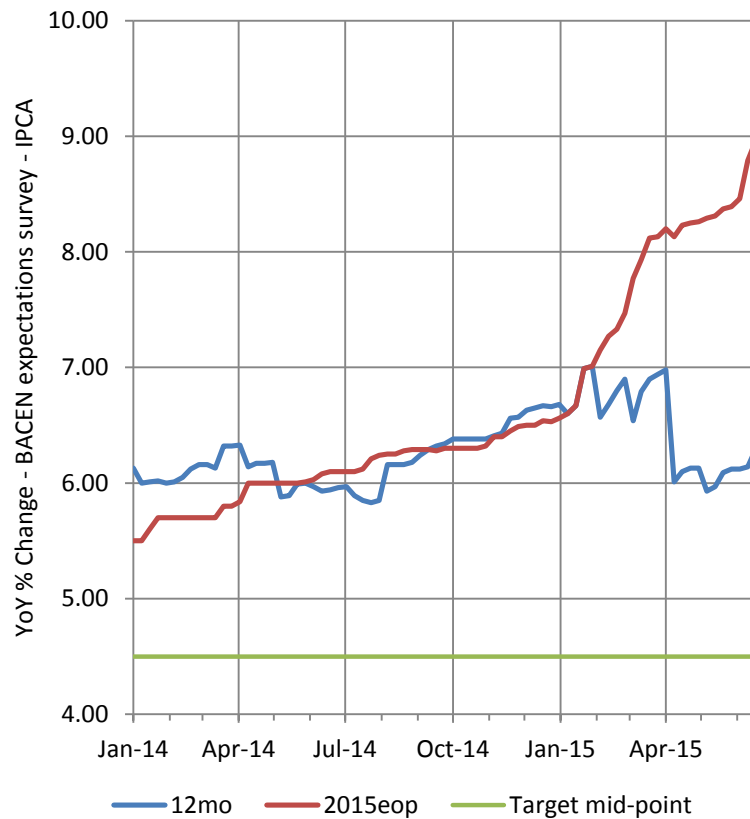
Loss of credibility; erratic and misguided communications

Current approach = forced march in reverse direction?

Ineffectual: Agents fear premature reversal given past performance

What is needed : Signalization of determined action - narrower target band in 2017 is positive

Large fiscal & output cost: Indication of intertemporal inconsistency or of distress?



# The central bank's reaction function changed post-2008

New MPRF: Does not meet Woodford's determinacy condition. Taylor rule long run coefficient  $< 2$

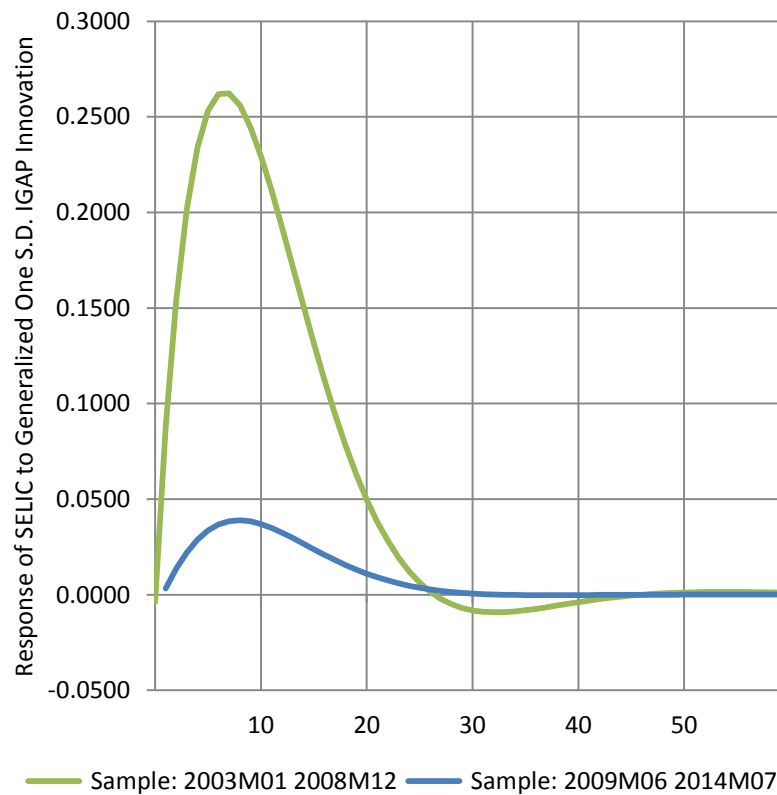
Sample: 2003-2008

Bayesian VAR - Litterman/Minnesota priors (N=72; 3 lags)

Estimated long run impact of Selic to 1pp increase:

IGAP = 2.612

YGAP = 0.151



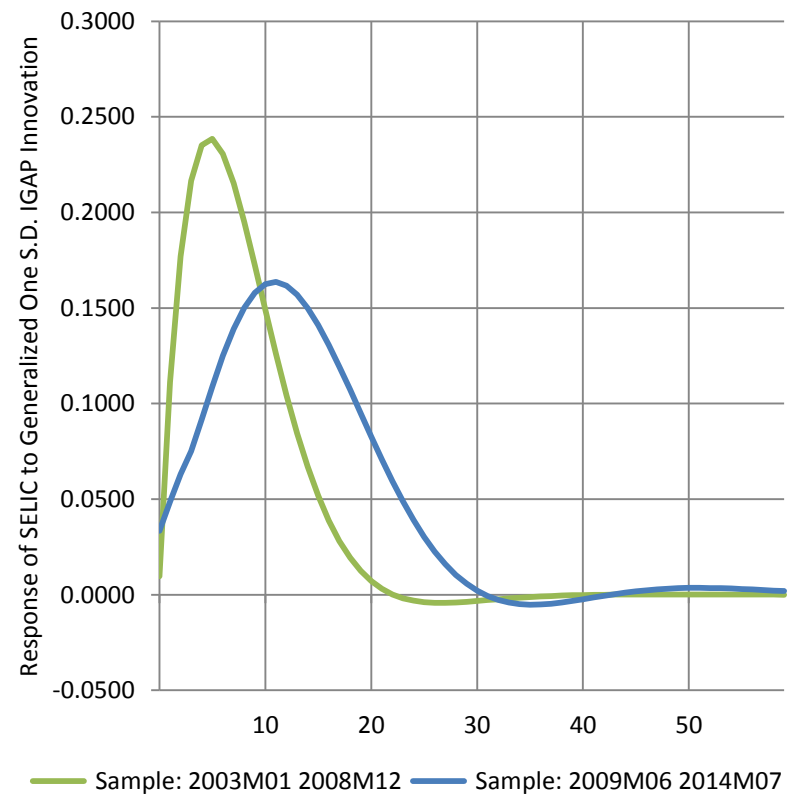
Sample: 2009-2014

Bayesian VAR - Litterman/Minnesota priors (N=62; 3 lags)

Estimated long run impact of Selic to 1pp increase:

IGAP = 0.050

YGAP = 0.112



# The oncoming recession will be deep and prolonged

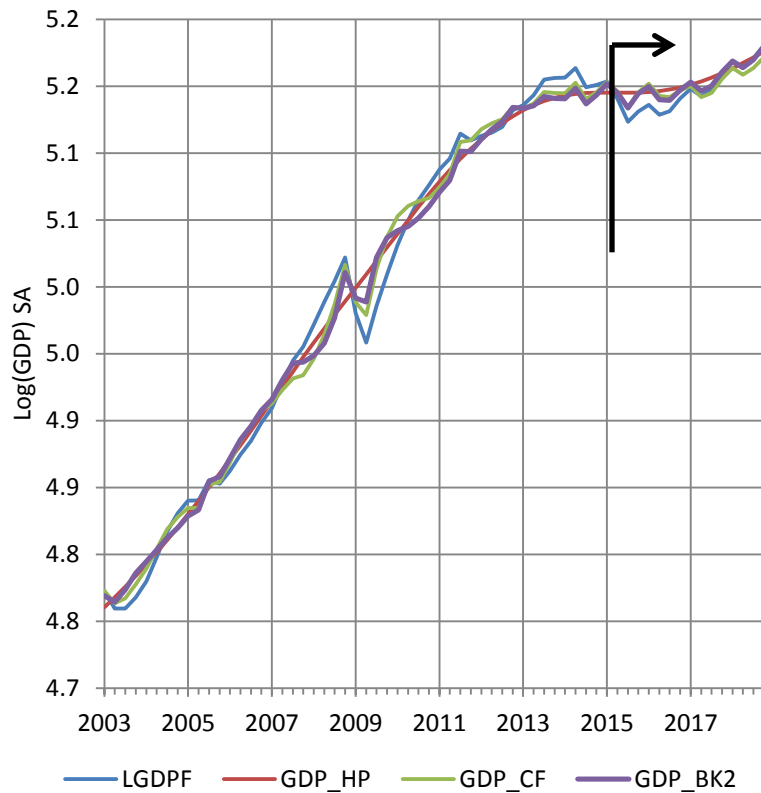
Trend growth is low (current  $y^*$  is at 1%pa or less)

Even so, output gap widening until late 2015 and not closing until late 2017

Notes:

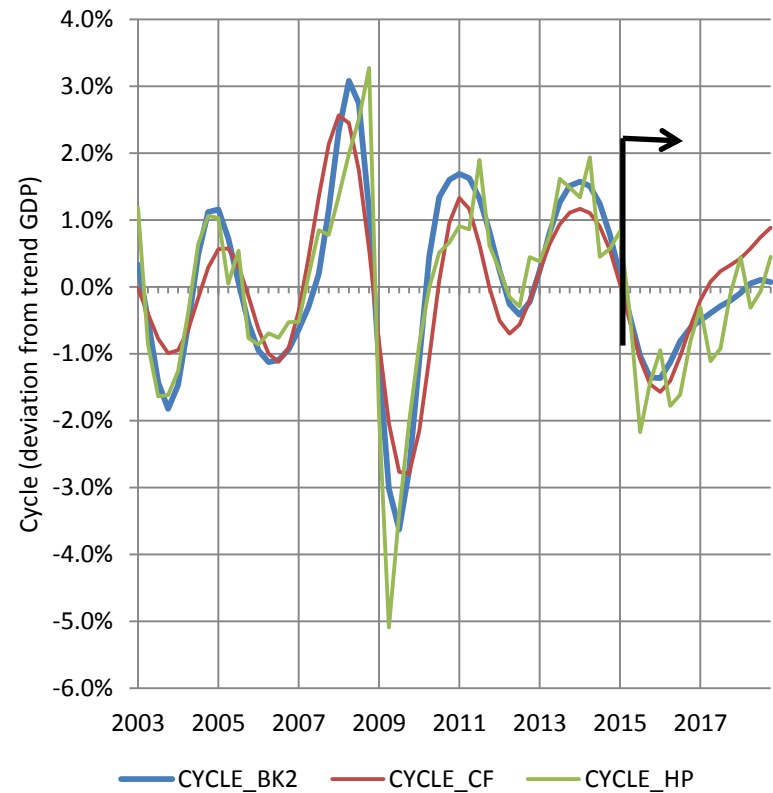
HP filter w/end point correction - (log(GDPsa))

Baxter-King (BK) – Fixed length/symmetric; 8 quarters lag - (log(GDPsa))



Notes:

Christiano-Fitzgerald (CF) – Full sample asymmetric; series with unit root I(1); cycle rage 8-28; detrended series - (log(GDPsa))



# The biggest challenge: Low productivity

And especially low TFP - Declining path since 1980

With modest pickup since 2003

➔ Present approach to stabilization will not help

	y	k	h	TFP
1980-2009	-0.5%	0.1%	1.3%	-1.8%

Source: Ferreira, P. (2015)

