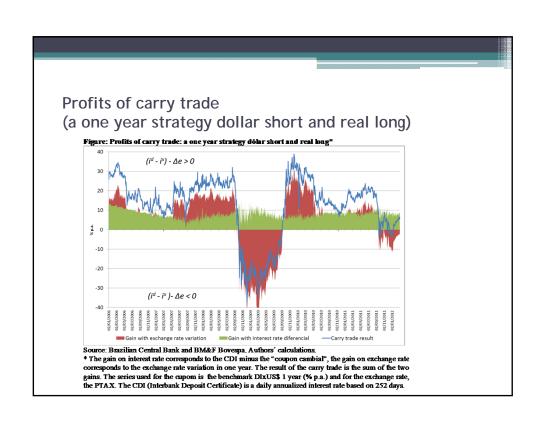
What is the brazilian experience on managing the interest-exchange rate nexus?

Ricardo Carneiro Pedro Rossi

Introductory remarks

- Uncovered Interest Rate Parity (UIP)
 - $i^d = i^x + \Delta e^*$
- The carry trade
 - $i^d > i^x + \Delta e^*$
 - $R = \{i^d i^x\} + \Delta e$
 - · Two kinds of operations
 - Canonical carry trade: Funding currency (debt) x target currency (asset)
 - Derivatives carry trade: Short x long position
- The task of policy: neutralize carry trade
 - 1) Converge the interest rate to the internacional standard
 - 2) Impose a comprehensive capital account regulation





Slide 3

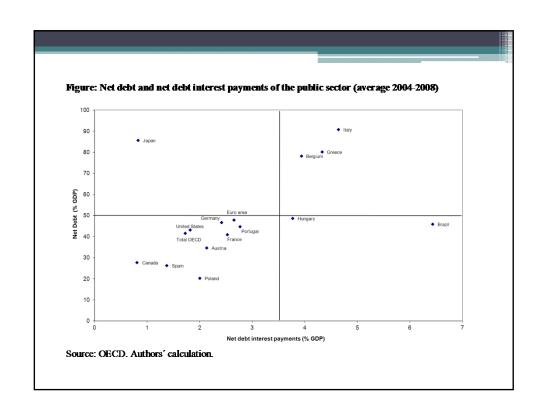
PLR3

corrigir fonte Pedro Linhares Rossi ; 19/03/2012

Gráfico: tirar título e notas? Pedro Linhares Rossi; 19/03/2012 PLR5

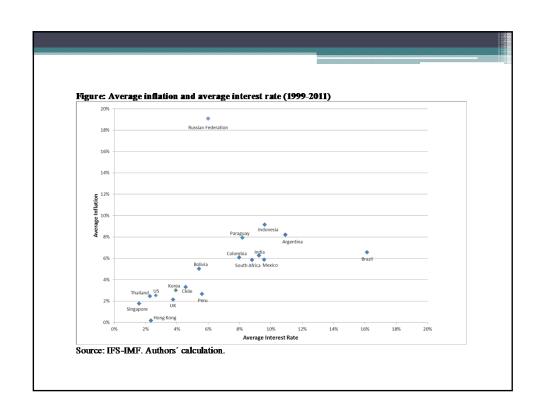
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- Fiscal dominance?
- Higher inflation?
- Exchange rate volatility?
- A matter of political economy!
 - Institucional issues and of power relations.



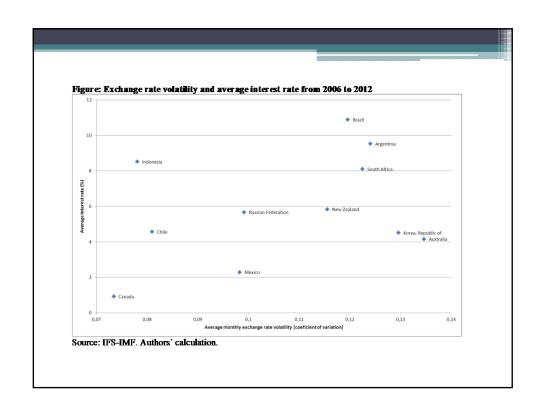
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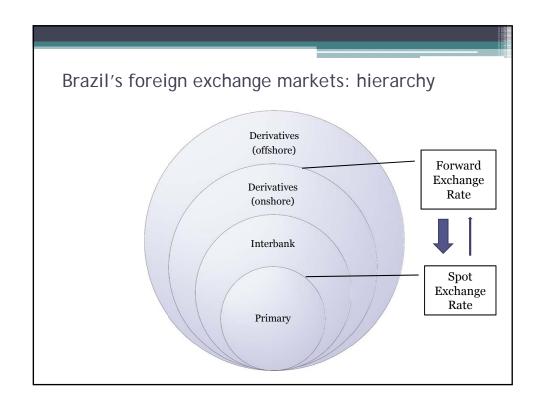
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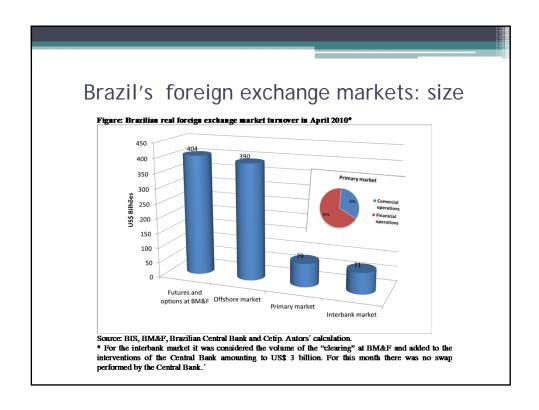
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Primary market: flows and regulation

Type of flow	Carry Trade	Regulation / Exchange rate policy
Trade	 Anticipation of exports value Secondary markets for export invoices "mercado de performances" 	Anticipation restricted to one yearNone
FinancialDebt: securities and loansEquity	CanonicalDisguised carry trade	• 6% of IOF in all debt securities 6% of IOF in foreign loans of less than 5 years
	in stock market	• None
Investment (FDI)	Disguised carry trade	None

Type of flow/ Intervention	Carry trade	Regulation / Exchange rate policy
Interbank lines	Arbitrage (covered interest rate parity or cupom cambial) a) $(i^d/\Delta e > i^x)$ b) $i^d - i^x > e_{f/}e_{s.}$	Prudential: reserve requirements (60%) in sold positions in spot market over US\$ 1 bi.
Central Bank	<u>-</u> '	Spot purchases and sales

Derivatives market: onshore

Type of operation / Intervention	Carry trade	Regulation / Exchange rate policy
Mainly future contracts	a) $(e_{t}^{f}/e_{t+1}^{s}) = Y$ b) $Y = e_{t}^{s}/e_{t+1}^{s} \{ i^{d} - i^{x} \}$ c) $Y > 0$: $\{ i^{d} - i^{x} \} > e_{t+1}^{s}/e_{t}^{s}$	 6% (IOF) in required margin at BM&F 1% tax on net positions of agents short/sold in dollar
Central Bank intervention	-	Reverse SWAP (buying dollar forward) SWAP (selling dollar forward)

Derivative markets: offshore

Type of operation		Regulation / Exchange rate policy
Mainly Non Deliverable forwards (NDF) negotiated by non-	Excess demand for long position in Real (off shore)	None: beyond the jurisdiction.
residents	(flow to BM&F)	

Further steps in exchange rate policy

- A Proposal for a foreign exchange market reform:
 - Primary: Improve monitoring and control on FDI and trade financing.
 - Interbank: reduce the role banks in the formation of spot exchange rate.
 - Derivatives: Gradual transference of liquidity from derivatives markets to spot markets.
 - Central Bank: implicit targets