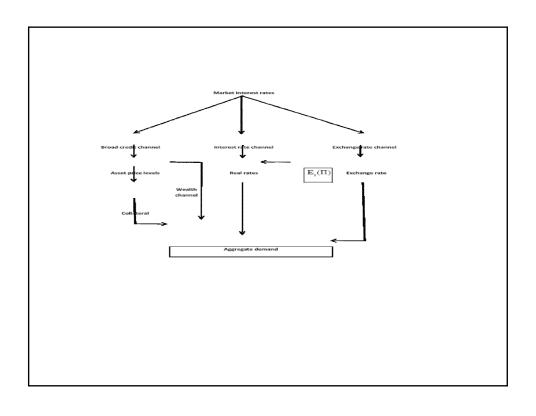
IT Readiness Nigeria: the role of Financial Markets in the Operational Framework

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Transmission Channels

A. Effects on AD

- >Interest rate Effects
 - Investment: cost of capital
 - Consumption: saving –interest rate(?)
- ➤ Wealth Effects
 - Consumption: life-cycle modes
 - Investment: q models
- ➤ Exchange rate Effects
- B. Effects on AS
 - Working capital Effects

ERE & WE Asset Pricing

- Unexpected movt in asset prices can impact on bank's inflation forecast
- Asset prices can carry information that improves forecast
 - a) Expectations about future economic activity
 - b) Inflation
 - c) Monetary policy

Consider following rate scenario

- 90- day N 18% APR
- 90-day €£ 15% APR
- Spot rate €£ N200
- 90-day swap N0.0560

Action

- Borrow €£ @ 15% APR
- Swap @ N0.0560 = 0.112% APR
- Generate N @ 15.112% APR
- Place N @ 18% APR
- Profit = 2.888% APR
- Equilibrium 90-day swap rate for €£ = N1.5000

Interrogates DFA

• CIP:

$$F_t - S_t = i_t - i_t^*$$

• UIP:

$$S_{t+1}^e - S_t = i_t - i_t^*$$

• CIP & UIP
$$\Longrightarrow$$
 $S_{t+1}^e \cong F_t$

Message

- Treasury operations tell us that Fwd rate is a predictor of future spot rate
- Interest differential as a predictor of exchange rate changes
- What does the market say?

$$S_{_{t+1}}=S_{_{t+1}}^{^{e}}+\varepsilon_{_{t+1}}$$

Wealth Effects (premises)

- Standard life-cycle models
 - 1) Age of family members, family lifetime wealth
 - 2) Interest rate
 - 3) Composition of wealth should not matter
 - Wealth defined measured as future labor income, pension, home equity, individual retirement, social sec

Thaler (1990)

- Life-cycle with mental accounts
 - 1) Composition of wealth matters; MPC coded differently across mental accounts—asset a/c, current income, future income
 - 2) Size of gain and source of change in wealth matter
 - 3) Do all wealth changes produce similar change in current consumption? Hall & Mishkin (1982)

Angeletos, Laibson, Repetto, Tobacman, Weinberg (2001)

- Life-cycle and psychological models of self control
 - If the representative Nigerian consumer is a hyperbolic but
 - Lacks both liquid wealth and access to revolving credit
 - Thus smoothens consumption by habituation?



The (market) devil is in the details



- 1. % household with high level of liquid wealth?
- 2. % household/popul with access to formal credit?
- 3. Why does PAN not have an acceptances corporation yet?
- 4. UAC, UTC for that matter?
- 5. Limited supply of direct participation instruments; why?
- 6. What about securitization?

Further related Qs

- 1. What is driving quality of intermediation?
 - a) Nature of maturity transformation?
 - b) Menu of contracts on offer (range of instruments / products)?
- 2. Quality/ profile of customers or
- 3. Quality of institutions that underpin credit flow? i.e. bad photographer or ugly subject?
- 4. Rules of bankruptcy and contract enforcement (transaction costs)?

Facts

- Unlike Europe and the US, wealth in housing not liquid
- High transaction costs in liquidating collaterals
- Quantum of asset backed lending thin
- Severe constraints on borrowing against future labor income; ditto credit cards
- Large informal economy relative to formal employment

Investment: q models

- Market efficiency: how well do prices reflect fundamentals?
- Stock market crash, real estate booms and bursts, IPO underpricing
- 419, Ponzi schemes in evidence and historically; O'Connel and Zelda (1992)
- So what?

Yes...

- Insignificance of equities in household financial wealth but
- Increasing volatility of stock prices, exchange rate
- Insider dealings that are not vigorously checked
- And yes South Sea Company "purchased the King and Parliament"

But

- Nigerian assets markets not yet robust
- High level of illiteracy compared to Zimbabwe
- Generally low level of market participation
- Market striving to attract investors and deepen

Besides Zim

- For SA
- Total annual premiums (group life, individual life, annuity) as a prop of national income rated highest in the world
- Followed by UK, US, Canada (Vittas, 2003)
- Eliminating double counting, total assets of institutional investors including unit trusts in 2001 = 164% of GDP or ZAR1.56 trillion (US\$0.2230 t)

Nigeria

- <u>Cannot afford a complacency</u> that comes from the cold comfort that other countries have managed IT with wacky financial markets and all sorts of Milken, Boesky, Keaton, Drexel, Bonfire of Vanities-type-shenanigans
- Strengthening DFAs is a priority