



Os desafios da Desdolarização

13 DE MAIO 2014 - HOTEL EPIC SANA

De-Dollarization: A Cross-Country Perspective Nicholas Staines, IMF



Outline



Background

Determinants of dollarization

Drivers of de-dollarization

Policies for de-dollarization



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Background

Types of dollarization

- ❑ **Unit of account:** use of FC for pricing & accounting.
- ❑ **Real dollarization:** use of FX rate to index G&S transactions.
- ❑ **Transaction dollarization** (currency substitution): use of FC as medium of exchange.
- ❑ **Financial dollarization** (asset substitution): use of FC as a store of value – deposit or loan dollarization.
- ❑ **Capital flight:** an alternative to deposit dollarization.

Focus on **deposit dollarization**.

Explaining deposit dollarization



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- ❑ **Currency substitution:** FC held as store of value against inflation and FX depreciation.
- ❑ **Portfolio motives:** FC held as hedge against volatility - driven by risk profile of returns, including interest rates.
- ❑ **Market development:** dollarization driven by market imperfections and also by externalities not addressed by regulatory framework:
 - Market/regulatory biases hiding costs of dollarization e.g. reserve requirements, deposit insurance, credit provisioning.
 - Poor financial intermediation, lack of domestic investments e.g. debt markets
- ❑ **Institutional:** weaknesses favoring dollarization – credibility of FX rate peg and FX availability, political stability.
- ❑ **Capital flight:** an alternative to deposit dollarization

Pros and cons of dollarization



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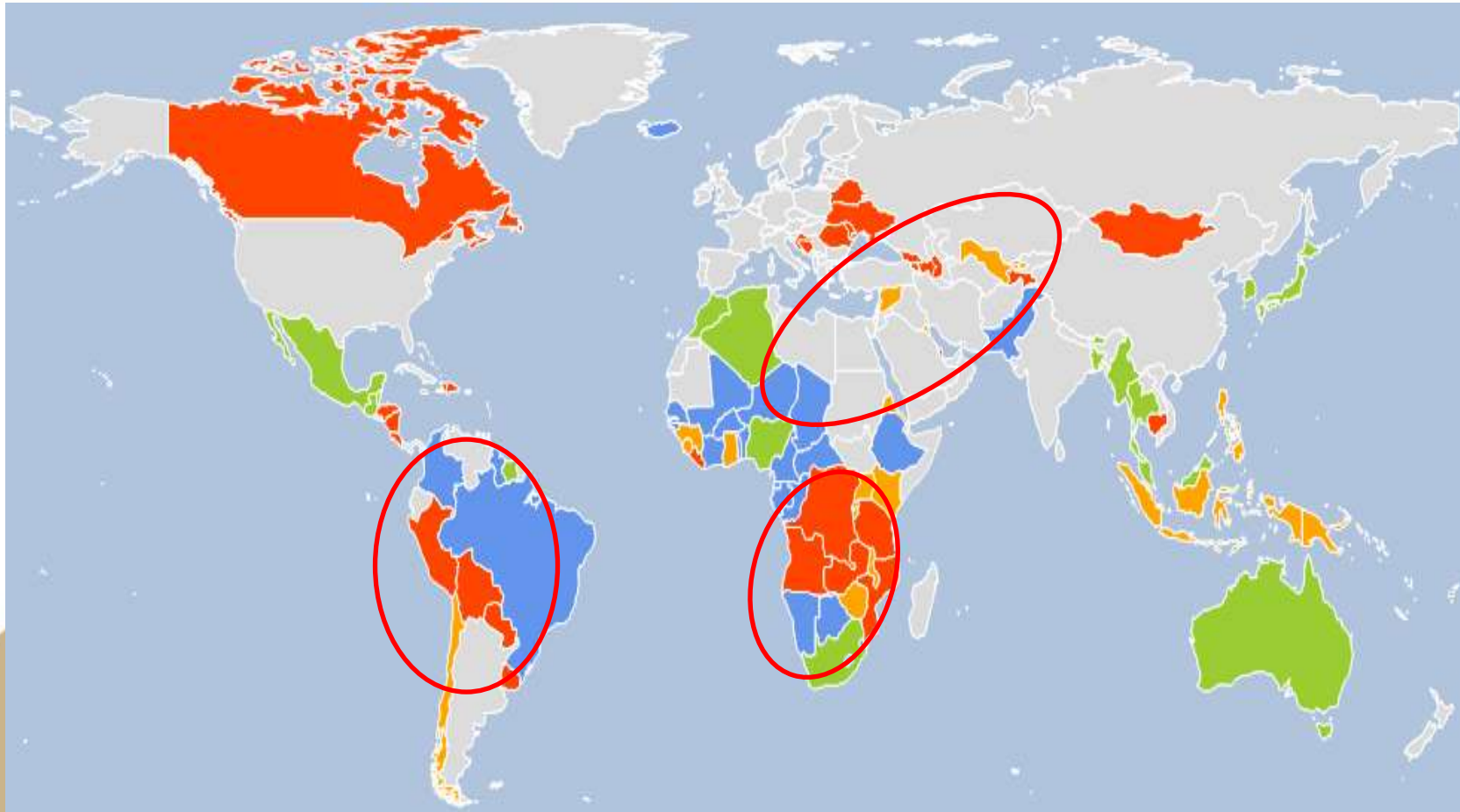
Pros

- ❑ **Hedging:** Allows hedging against inflation and FX risks and supports portfolio diversification.
- ❑ **Policy anchor:** Appeal of FX rate as anchor for monetary policy, forcing macro discipline.
- ❑ **Financial deepening:** Provides vehicle for domestic investment as alternative to capital flight, supporting financial deepening.

Cons

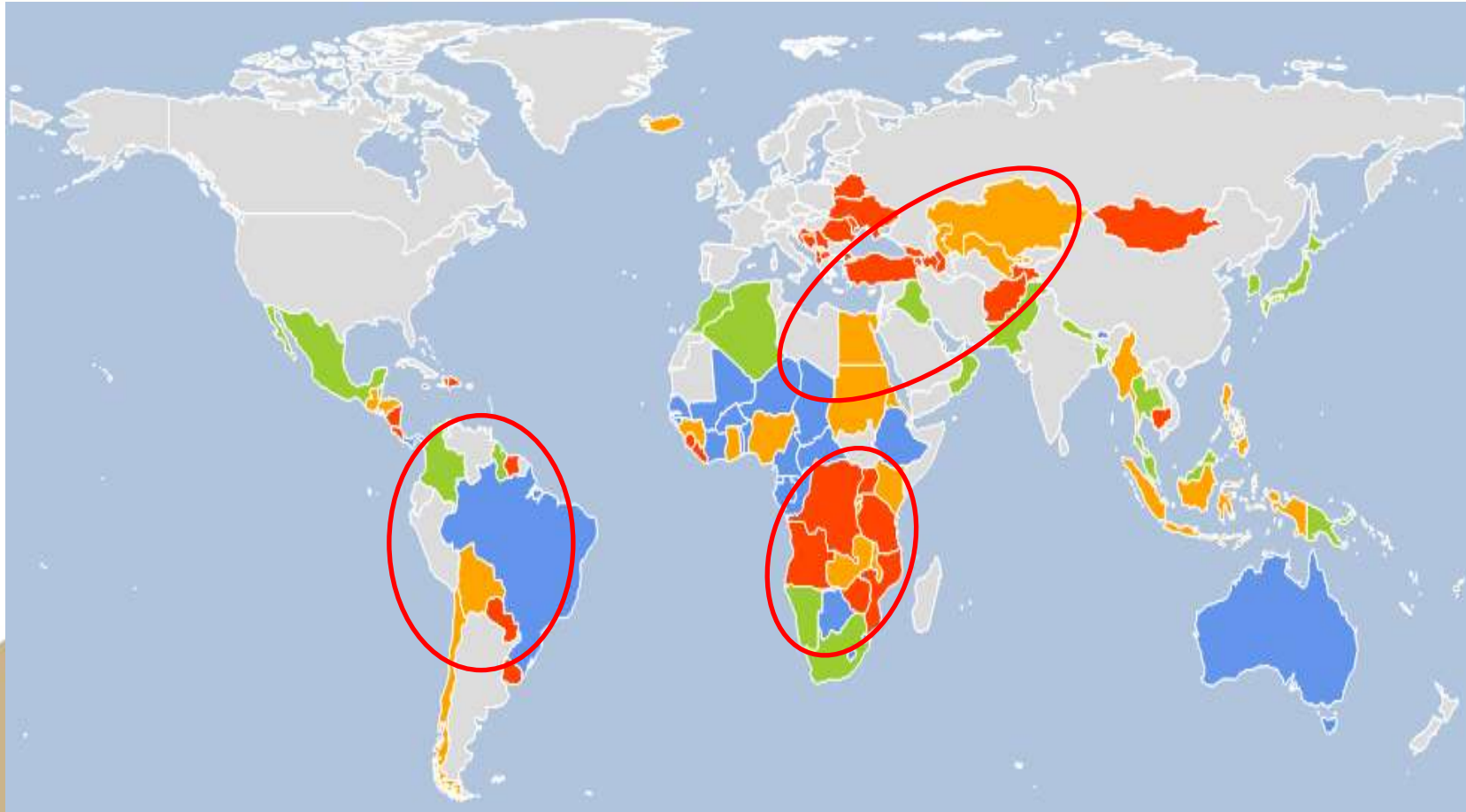
- ❑ **Monetary policy:** Reduces effectiveness of monetary transmission mechanism.
- ❑ **Fiscal:** Reduces seigniorage.
- ❑ **Balance sheet risks:** Exposes public and private sectors to FX rate changes when asset and liabilities are mis-matched – liquidity and solvency risks.
- ❑ **Lender-of-last-resort:** Complicates LoLR role to stabilize bank system.

Deposit dollarization - 2001



Legend:
 No Data (Grey) No Dollarization (Blue) Low (≤ 10) (Green) Medium (> 10 and ≤ 30) (Orange) High (> 30) (Red)

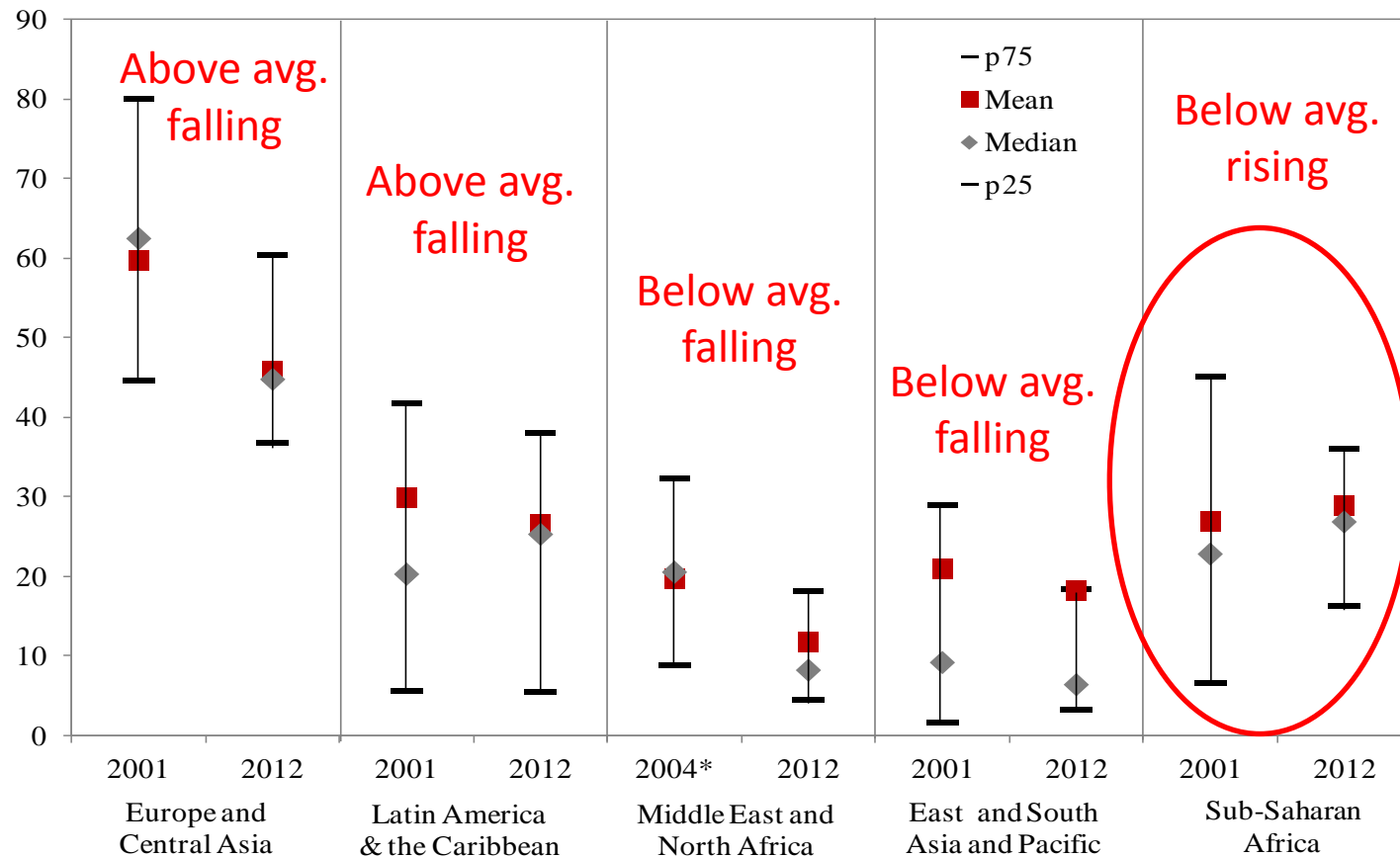
Deposit dollarization - 2012



Evolution of deposit dollarization



Level and dispersal of dollarization fell over 2001-12 in all regions - except SSA. What's driving dollarization? Why the increase in SSA?





Determinants of dollarization

Explaining dollarization levels



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Dependent variable: FX deposits/total deposits

Direction & statistical relevance

Currency substitution

Inflation rate



FX rate depreciation



Portfolio model

Domestic interest rate spread to US



Real domestic interest rate



Market development

Broad money/GDP



GDP per capita



Access to FX financing

External debt/GDP



Export/GDP



Institutions

De jure FX peg



Political stability



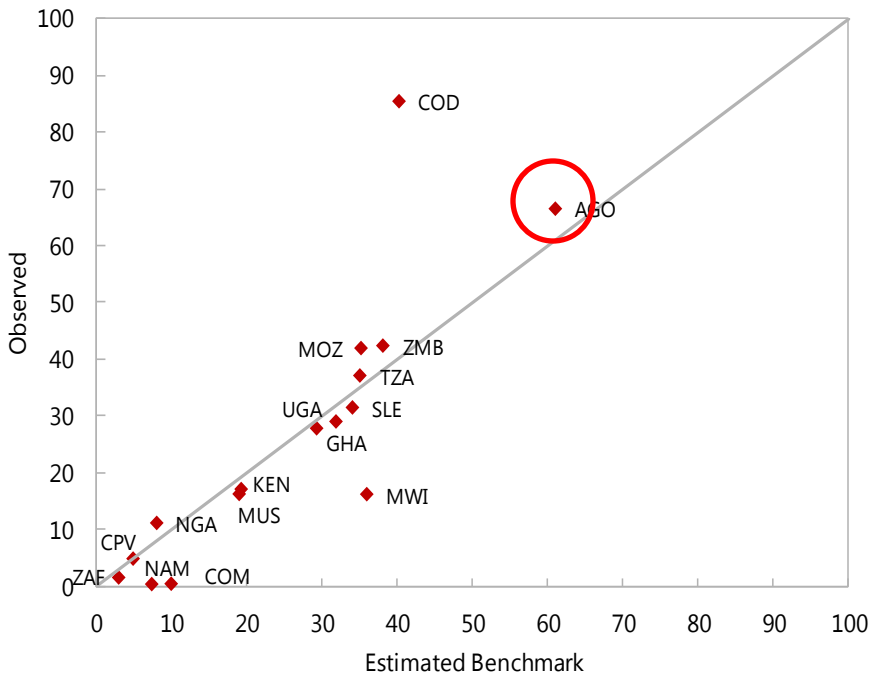
- Forthcoming IMF study by team led by Mauro Mecagni.
- Annual data 2001-12: 42 countries, 16 in SSA (sample limited by data).
- Study does not consider administrative measures.
- Results as expected – all factors significant.

Results – SSA and Angola

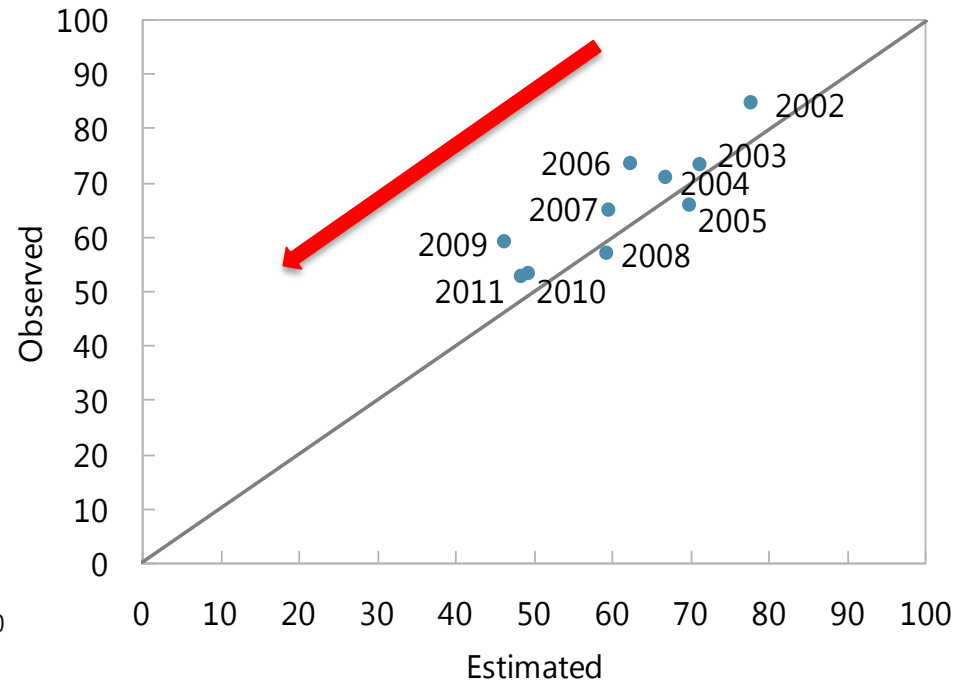


Estimates are good fit for SSA & Angola (less so for World).

SSA: Deposit dollarization, 2001-12 avg.
Observed versus estimated over SSA countries only



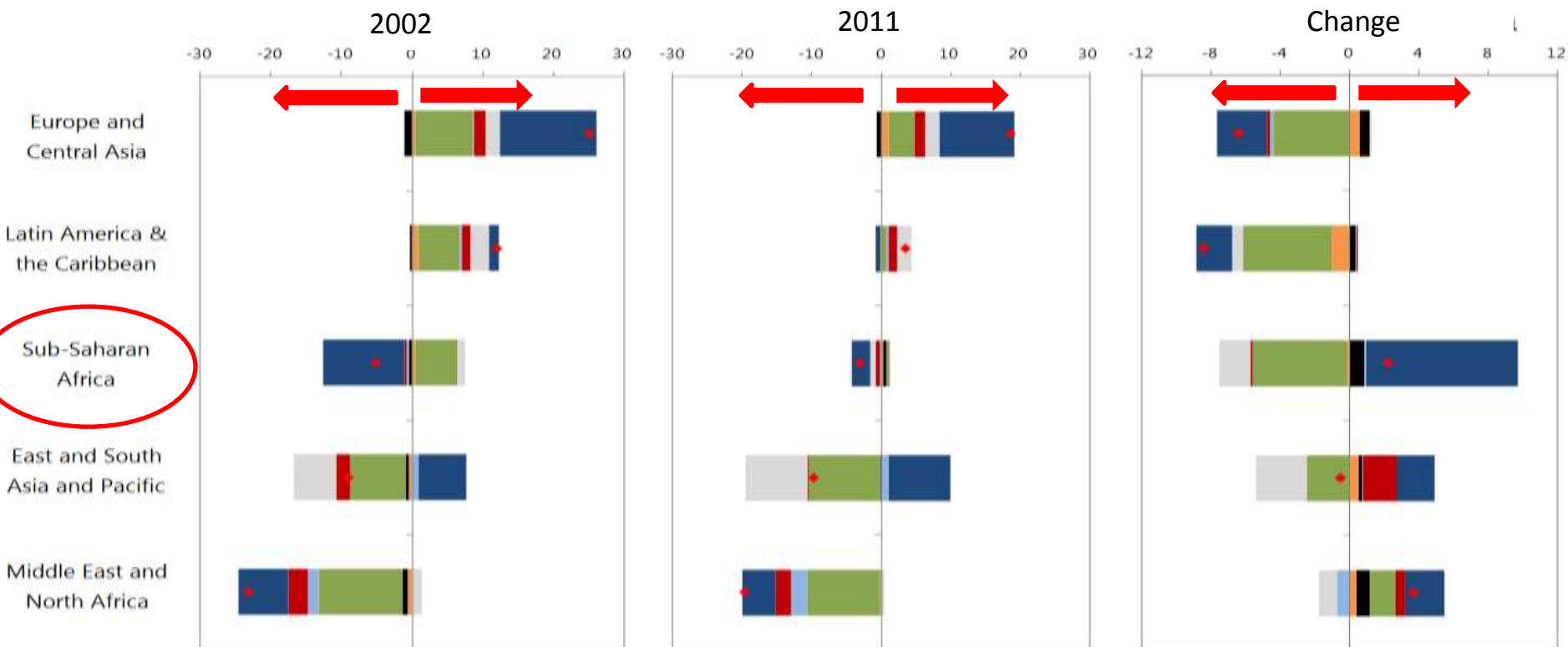
Angola: Deposit Dollarization 2002-11
Observed versus estimated over SSA countries only



World – explaining variations



Factor contributions relative to average across all periods & countries.



Currency substitution
Portfolio model



Market development
Access to FX



Institutions
Controls



Residual
Actual, adj.



World – explaining variations



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Fundamentals generally benign – except in MENA

- ❑ De-dollarization driven by market development.
- ❑ Surprisingly, other factors played minor role.
 - Dollarization persisted despite global disinflation in 1990s.
 - Squeezing of interest rate spreads during crisis.

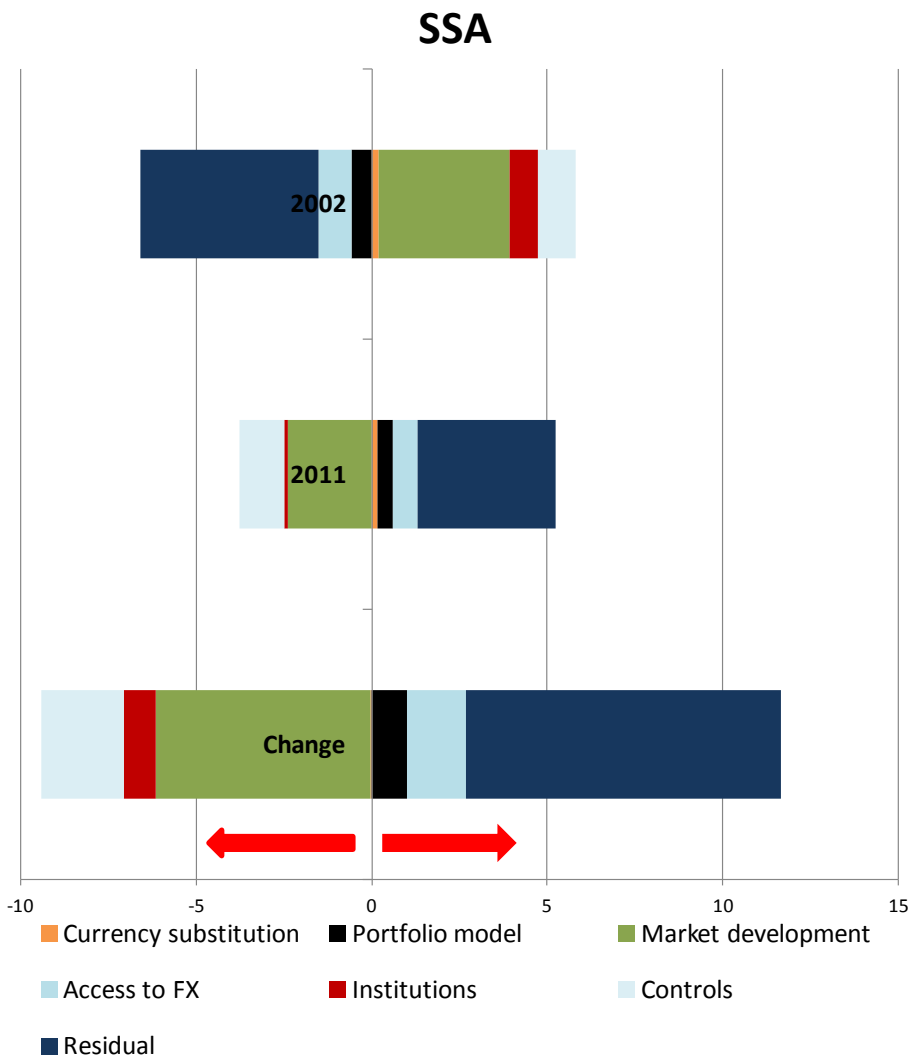
BUT there are large residuals (unknown) pushing up dollarization – especially SSA.

SSA – explaining variations

SSA-only estimates



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Fundamentals supported de-dollarization

- Market development supportive.
- Adverse impact of portfolio considerations and access to FC (commodity exports).
- Inflation played little role because already moderate.

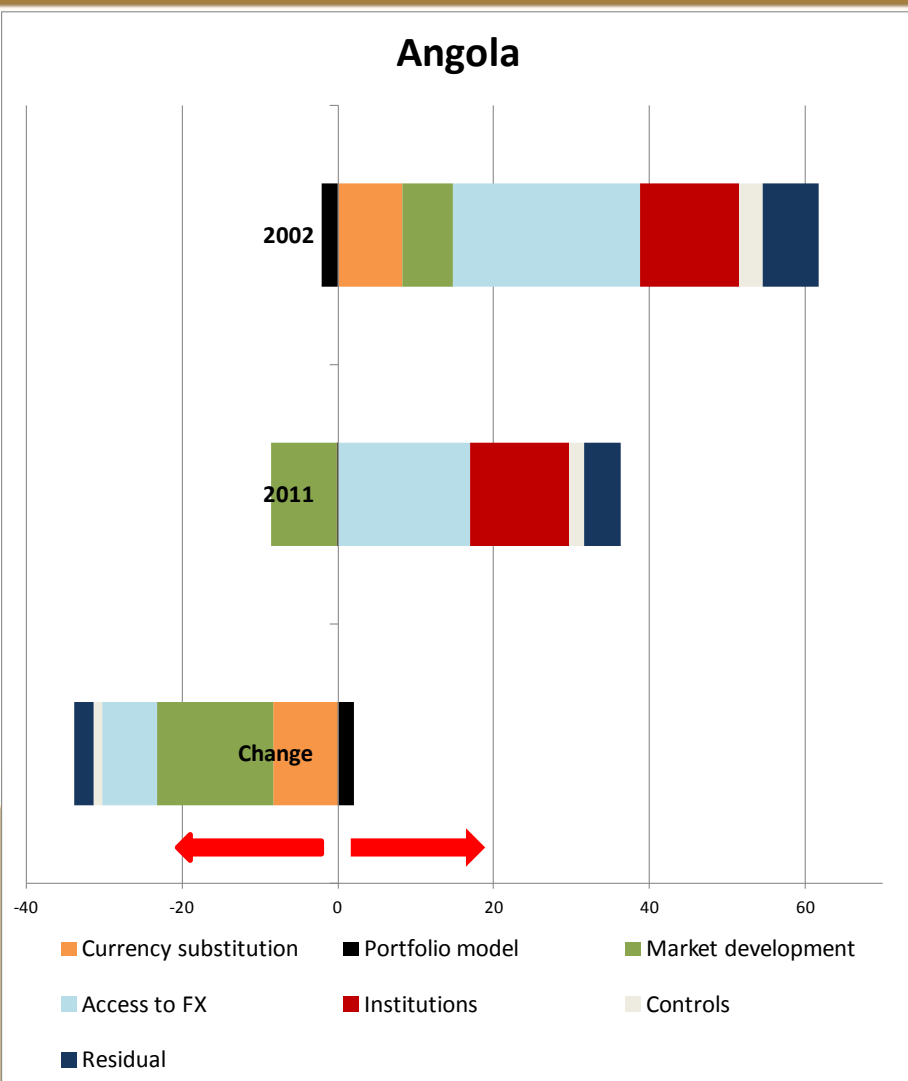
BUT: Dollarization rose because negative residual was reversed.

Angola – explaining variations

SSA-only estimates



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It's inflation AND market development AND diversification

- Dollarization in 2002 supported by high FC access (exports), inflation/FX depreciation, and institutions (FX regime, political).
- Fundamentals supported de-dollarization - market development (financial deepening, growth), lower inflation/depreciation, and smaller role of exports (diversification).



Drivers of de-dollarization

Macro indicators of success

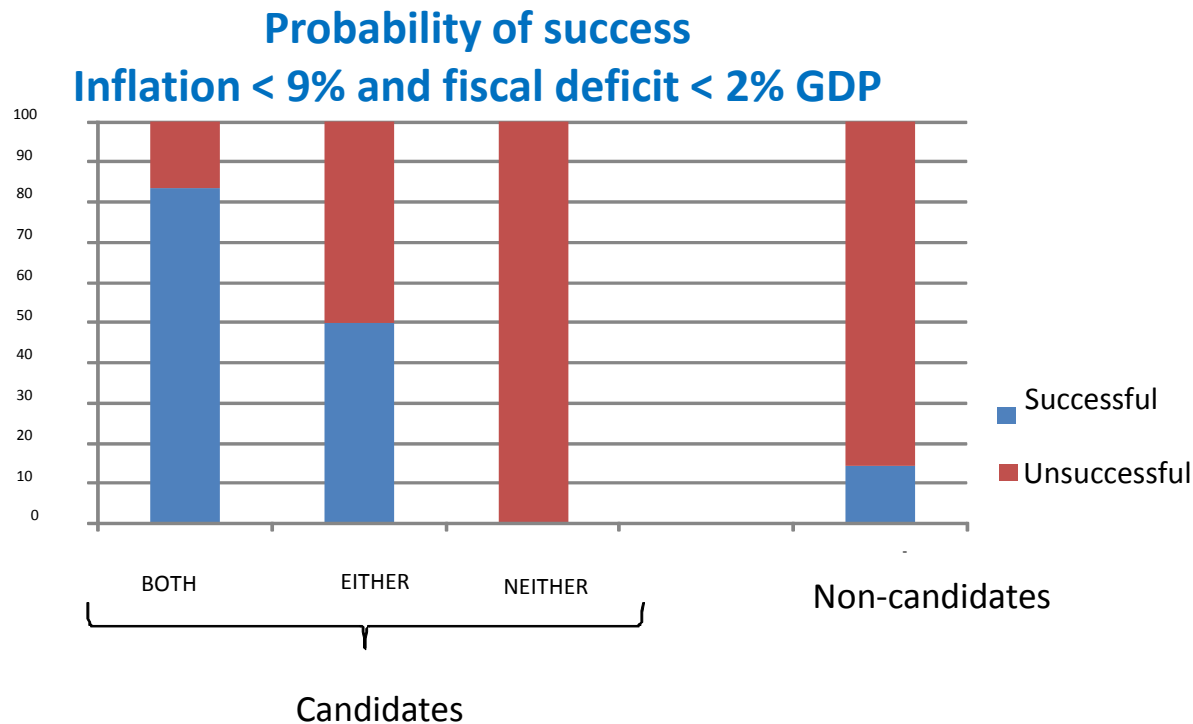
- ❑ 42 countries (8 in SSA) with high dollarization (> 30%) in 2001-03
- ❑ **Only 11 de-dollarized** more than 20% by 2012; 2 SSA - AGO & MOZ
- ❑ Differences between un/successful countries:
 - Initially: inflation, political index.
 - After: inflation, fiscal consolidation (debt), politics.

Indicators of successful de-dollarization
Change from 2001-03 to 2004-12

	2001-03		2004-12 change from 01-03	
	Successful	Unsuccessful	Successful	Unsuccessful
Real GDP growth, percent	5	4	2	0
Inflation, percent	22	9	-14	0
Exchange rate depreciation, percent			-2	33
Current account balance, percent GDP	-5	-6	5	-2
Fiscal balance, percent GDP	-3	-3	4	0
Stock of public debt, percent GDP	60	55	-26	-16
Stock of external debt, percent GDP	64	59	-23	-10
Democracy index	5	3	0	-2

Macro thresholds for success

- Narrower focus on 17 candidates, of which 8 successful
- Results suggest thresholds for successful de-dollarization:
 - inflation below 9% and fiscal deficit below 2% of GDP.





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Policies for de-dollarization

Failure - forced de-dollarization



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- ❑ **Peru:** Hyperinflation in 1980s pushed deposit dollarization above 60%. ***Forced de-dollarization*** in 1985 caused ***capital flight*** and financial disintermediation. Policy abandoned in 1990 leading to re-dollarization around 80%.
- ❑ **Bolivia:** Exports and external FC loans supported high dollarization in 1970s. BoP crisis in 1981 led to ***forced de-dollarization*** in 1982, accentuating the economic crisis, hyperinflation and ***capital flight***. Policy abandoned leading to re-dollarization around 90% that persisted despite macro-stabilization starting in late 1980s.

Success - market de-dollarization



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- ❑ **Peru:** Dollarization eliminated in 2000s. **Macro** - fiscal surpluses and disinflation to 2%, GIR buffer. FX market flexibility. **Prudential measures** – discriminatory LRR, remuneration and provisioning requirements, FX net exposure limits. **Debt** : Introduction of LT Gvt bonds, private debt market.
- ❑ **Bolivia:** Dollarization in 2000s reduced to 25%. **Macro** – disinflation in 90s. **Prudential:** discriminatory LRR and credit provisioning, FC net exposure limits, FX financial transaction tax. **Debt** : issuance of LT Gvt bonds.
- ❑ **Israel:** Macro instability in 1980s (fiscal deficits and hyper-inflation) pushed dollarization to 90% (inc. indexed). **Macro** – 1990s fiscal stabilization and disinflation, but de-dollarization slow. **Prudential** – discriminatory LRR, restrictions on FC credit. **Debt:** issuance of Gvt non-indexed LT LC bonds.
- ❑ **Poland:** Macro instability in late 1980s (large fiscal deficits and hyper-inflation) pushed dollarization to 80%, that was almost eliminated in 1990s. **Macro** – stabilization to address fiscal imbalances and disinflation. FX market flexibility. **Debt** : issuance of LC Gvt. debt.

Macroeconomic policies



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Most critical component of de-dollarization strategy is restoring confidence in value of the domestic currency.

- ❑ Cutting inflation and a stable exchange rate to preserve purchasing power and reduce risks of holding LC.
- ❑ Sustainable and credible fiscal policy reduces Government's need for inflationary central bank financing. Stronger fiscal balance encourages domestic LC and LT debt market.
- ❑ Economic diversification helps reduces dollarization.

Financial development



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Financial markets can be strengthened to reduce need and incentive for dollarization.

- ❑ Issuance of LT government LC bonds provides vehicle for domestic investment. Also promotes financial development by extending yield curve, providing benchmark for investors and LC credit.
- ❑ Well-functioning FX market backed by adequate reserves and market access reduces need for FC for precautionary reasons.
- ❑ Developing LC interbank market promotes financial development.
- ❑ Financial innovations - hedging instruments and indexed LC bonds – reduce need for FC to hedge against FX or inflation risk.

Prudential regulation



Prudential measures can be used to make dollarization less attractive – including internalizing cost of dollarization.

- FC exposure limits.
- Discriminatory bank reserve requirements and remuneration.
- Discriminatory deposit insurance.
- Constraints on FC credit.
- Bank provisioning for FC credit to reflect FX risks.
- Mandated use of LC and exclusion of FC for pricing & transactions.

Conclusions



- ❑ Dollarization driven by **mix of factors** – not just inflation.
- ❑ De-dollarization strategy requires **mix of policies** and **sequencing** – forced de-dollarization backfires.
- ❑ **AND** Remember: investors' have the option of capital flight.



Obrigado



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