

CGFS Report co-chaired by Gerardo García López (Bank of Mexico) and Livio Stracca (ECB)

Regional Cooperation and Integration Policy Open Dialogue (RCI-POD) Webinar on July 29, 2021

Outline

In September 2019, the CGFS established a Working Group (WG) on capital flows, to analyse

- (a) changing patterns in the **composition** and **dynamics** of capital flows,
- (b) macroeconomic and, in particular, the **financial stability implications** of these changes.

Key message: "Old risks in new clothes"

Changes in the **pipes** that channel capital flows (from bank- to more market-based finance) shape the **composition** and **dynamics** of flows-- with implications for **risks**.

Changes **altered** rather than reduced **risks** associated with exceptionally large or volatile capital flows.

Outline

Chapter 1: Trends since the Great Financial Crisis (GFC)

Chapter 2: Drivers of gross capital inflows and sudden stops

Chapter 3: Benefits and risks

Chapter 4: Policy tools and lessons

The analysis is based on recent policy reports, academic literature, roundtable discussions with private-sector representatives, own empirical analyses and central bank surveys.

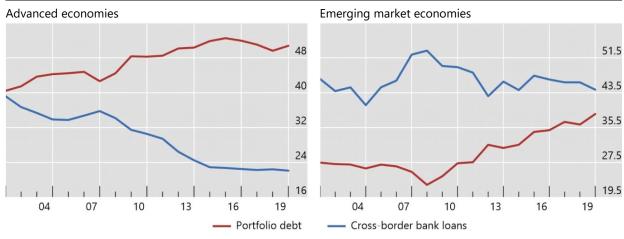
I. Trends since the GFC

Flow patterns and composition

- Increasing share of flows through portfolio investors rather than banks.
- US dollar still dominant as a funding and investment currency.
- Growing interlinkages among EMEs (China)
- Rising importance of public-sector borrowers and investors.
- Multinational companies increase the complexity of flows.

Banks' declining role

As a percentage of total external debt



Sources: IMF, International Investment Position Statistics; IMF, World Economic Outlook; BIS locational banking statistics (by residence); CGFS Working Group calculations.

I. Trends since the GFC

Volatility: mixed evidence

Regular volatility (top panels)

- Inflows to AEs more volatile than EMEs,
- Country-level dispersion larger for AEs
- No clear pre/post GFC pattern

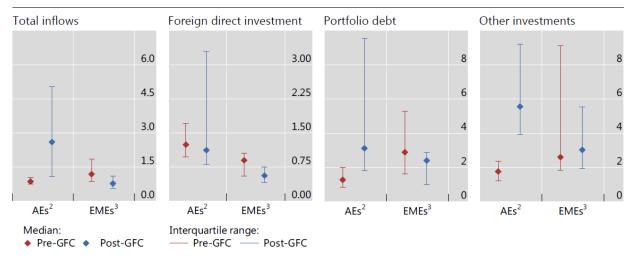
 $Sudden\ stops\ ({\tt bottom\ panels})$

- Did not become more frequent.
- «Capital flows moved more in **ripples** than in waves» Forbes and Warnock 2020

Capital inflow volatility by region and type

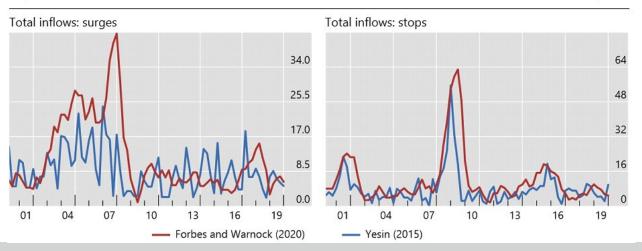
Coefficient of variation: quarterly inflows between 2000-07 and 2010-191

Graph 1.7



Incidence of extreme movements in capital flows to AEs and EMEs¹

Graph 1.8 In per cent



II. Drivers of capital flows

Push factors

- Exogenous to the recipient
- Motivate investors to seek opportunities abroad

Find: Can trigger sudden stops.

Pull factors

- Cyclical or structural
- Country characteristics that attract international capital

Find: Can shape the specific allocation of funds.

Pull factors Push factors Percentage of countries within each group Scale (1 = not at all, 5 = very important), for each factor Monetary policy in advanced economies Currency mismatches **EMEs** Global risk aversion **EMEs** Financial account USD exchange rate **EMEs** Fiscal balance **EMEs** EMEs Commodity prices **GDP EMEs** Carry trades International reserves AEs **EMEs** 25 50 75

Core drivers of capital flows as indicated in the survey^{1,2}

Pipes, infrastructure of the global financial system

Find: Changed significantly Index-tracking investment strategies, role of fund managers

- Sensitivity to push and pull factors changed
- More contagion (eg TH)

No or no response

Graph 2.2

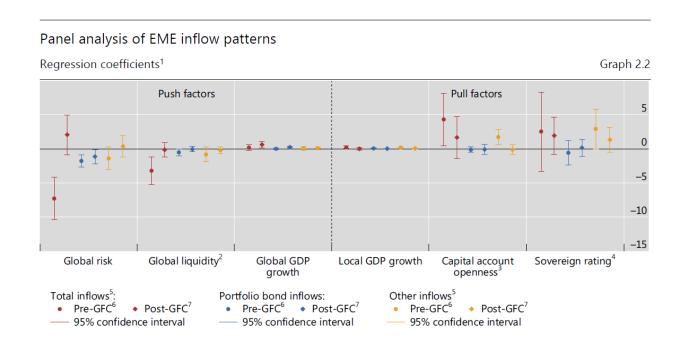
II. Drivers of regular patterns: capital inflows to 33 EMEs

Push factors

- Global push factors became less important.
- eg *marginal* changes in **US monetary policy** insignificant against the backdrop of unprecedented levels of **global liquidity.**

Pull factors

- Traditional drivers **lost** significance (many EMEs "graduated")
- Sovereign ratings became more important (=> pipes)



$$(Inflow \, s/G \, DP)_{it} = \alpha + \beta' Pull_{it} + \delta' Push_t + \nu_i + \epsilon_{it}$$

Caveat: Drivers **interact**, a machine learning analysis suggests that **interactions increased** post-GFC.



II. Drivers of sudden stops: capital inflows to 33 EMEs

Push factors

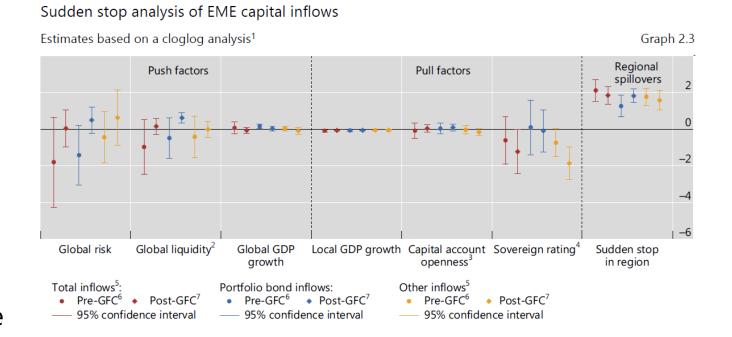
Changes in US monetary policy can trigger sudden stops.

Pull factors

Little impact.

Regional Spillovers

Sudden stops in the **region** raise the likelihood of a local sudden stop.



$$Pr(Stop_{it} = 1) = \Phi(\alpha + \beta' Pull_{it} + \delta' Push_t + \nu_i + \epsilon_{it})$$

III. Benefits and risks

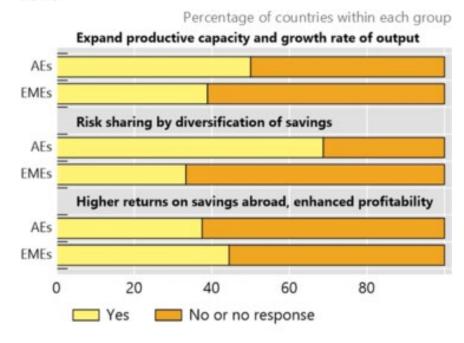
Benefits

- More definite conclusions on benefits than in the 2009 CGFS report, partly based on more data and better identification techniques.
- Both AEs and EMEs highlight real and financial benefits in the survey.

Risks, two examples:

- a) Corporate loan markets in EMEs
- b) Sudden stops have real effects

Survey: Describe the main benefits related to capital flows



III. Benefits and risks

III.a What is the impact of capital flows on corporate lending in EMEs?

If capital inflows lower bank funding constraints.

- Which banks lend more, the most vulnerable?
- Can the least creditworthy firms borrow more?

Credit registries from Latin America (BR, CL, CO, MX, PE)

- Disentangle demand and supply effects
- Meta analysis based on satellite analyses

Credit Register Outstanding amounts Interest rates Other terms (maturity, collateral) Firm f1 Credit score Bank b1 Funding structure Capitalization Other Capital Inflows Capital Inflows Capitalization Other

Findings

- The riskiest firms borrow from banks with more wholesale funding and banks with the riskiest loan portfolio.
- Higher capital inflows strengthen these effects.
- => **Risks** could build up in the riskiest market segment!



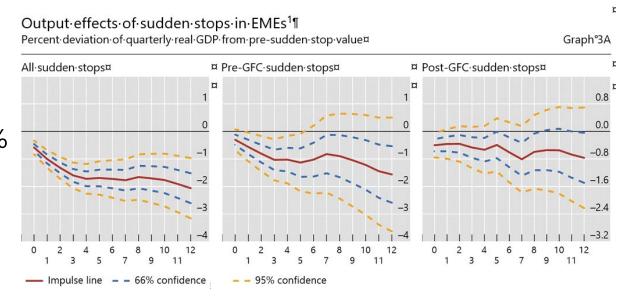
III. Benefits and risks

III.b What is the impact of sudden stops on output?

Sudden stops inflict significant damage.

One year after a sudden stop, real GDP is 1.8% below its initial level, remains 2% lower **three** years later.

After GFC less pronounced decline in GDP.



(Based on the local projection method developed by Jordá (2005) to estimate the effect of sudden stops on real GDP, conditional on GDP in the four quarters prior to the event.)



IV. Policy issues and lessons

Key policy conclusions

- a) Policies that address short-term vulnerabilities are **no substitute** for long-term reforms.
 - Even with strong structural policies and sound fundamentals, additional policy tools can help mitigate capital flow-related risks.
- b) There is **no** "one-size-fits-all" prescription.
 - Small open economies tend to combine CFMs, MPMs and FX intervention to strengthen monetary policy autonomy.
 - Side effects exist.
- c) International **cooperation** remains key.
 - The pipes channelling capital are interconnected and operate globally.
 - Critical role of the GFSN in preventing and mitigating the effects of crises.

Summary and conclusions

Key message: "Old risks in new clothes"

Trends: Shift from bank-based to *market-based funding*, but there is *no* clear evidence that capital flows have become more volatile.

Drivers: Changes in the *pipes* impacted the drivers and can trigger *spillovers*.

Risks and Benefits: *Benefits* became more clear with better *data* and more sophisticated *tools*, *risks remain*. Example: corporate lending in Latin America

Policy lessons: There are no substitutes for structural reforms, no one-size-fits all prescriptions, and international cooperation remains key.

Thank you very much!

The full report is available on the CGFS website.

https://www.bis.org/publ/cgfs66.htm

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