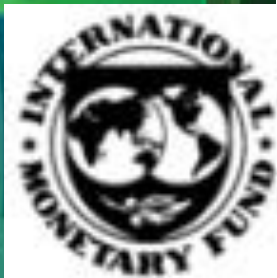


International Experience with Macroprudential Policy

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Outline

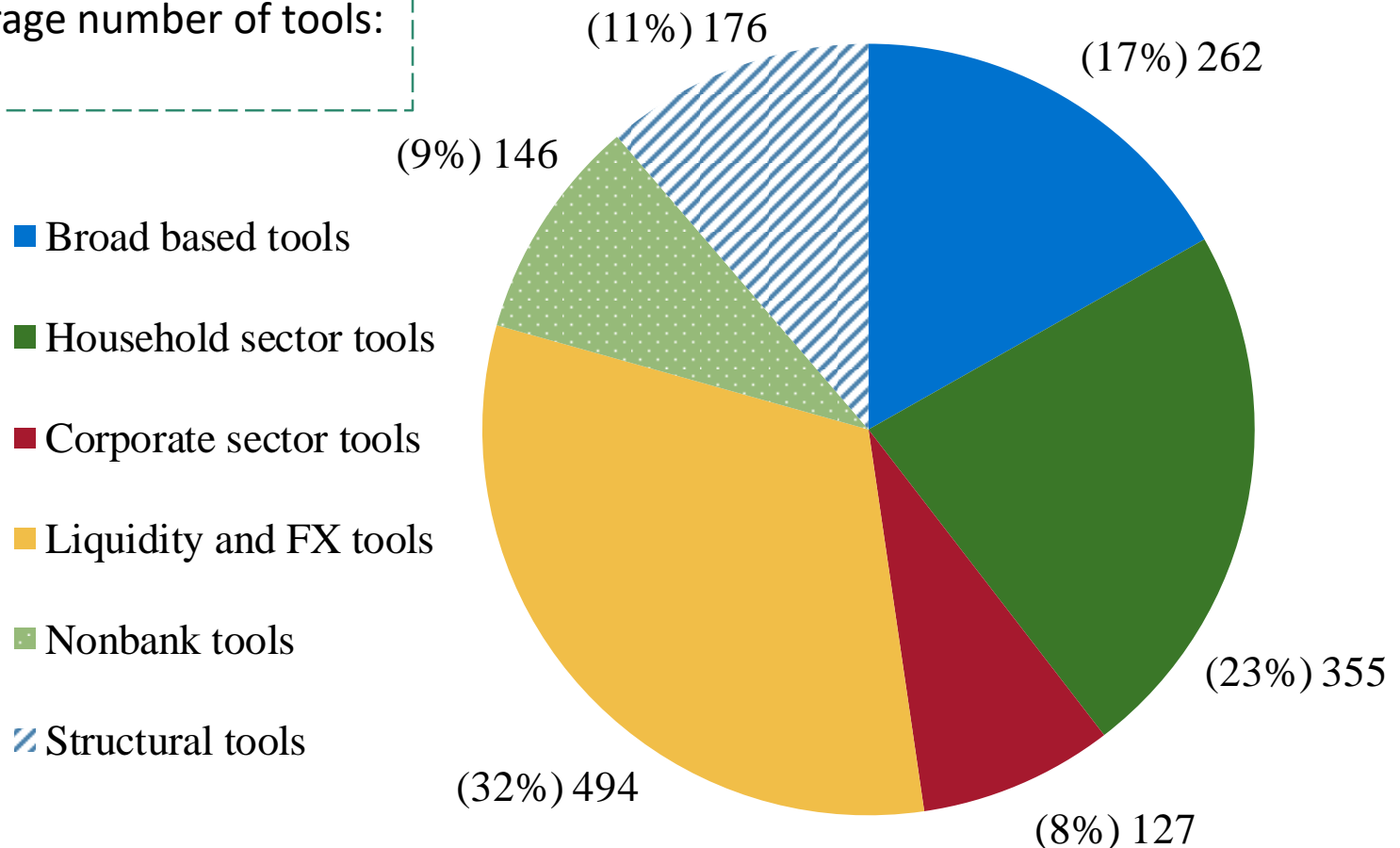
- 1. Macroprudential measures around the world**
 - Based on IMF's Annual Macroprudential Policy Survey
- 2. New IMF research on the effectiveness of macroprudential policy**
 - Based on a new integrated macroprudential database
- 3. IMF's Integrated Policy Framework (IPF)**
 - Develop through case studies, cross-country empirical work



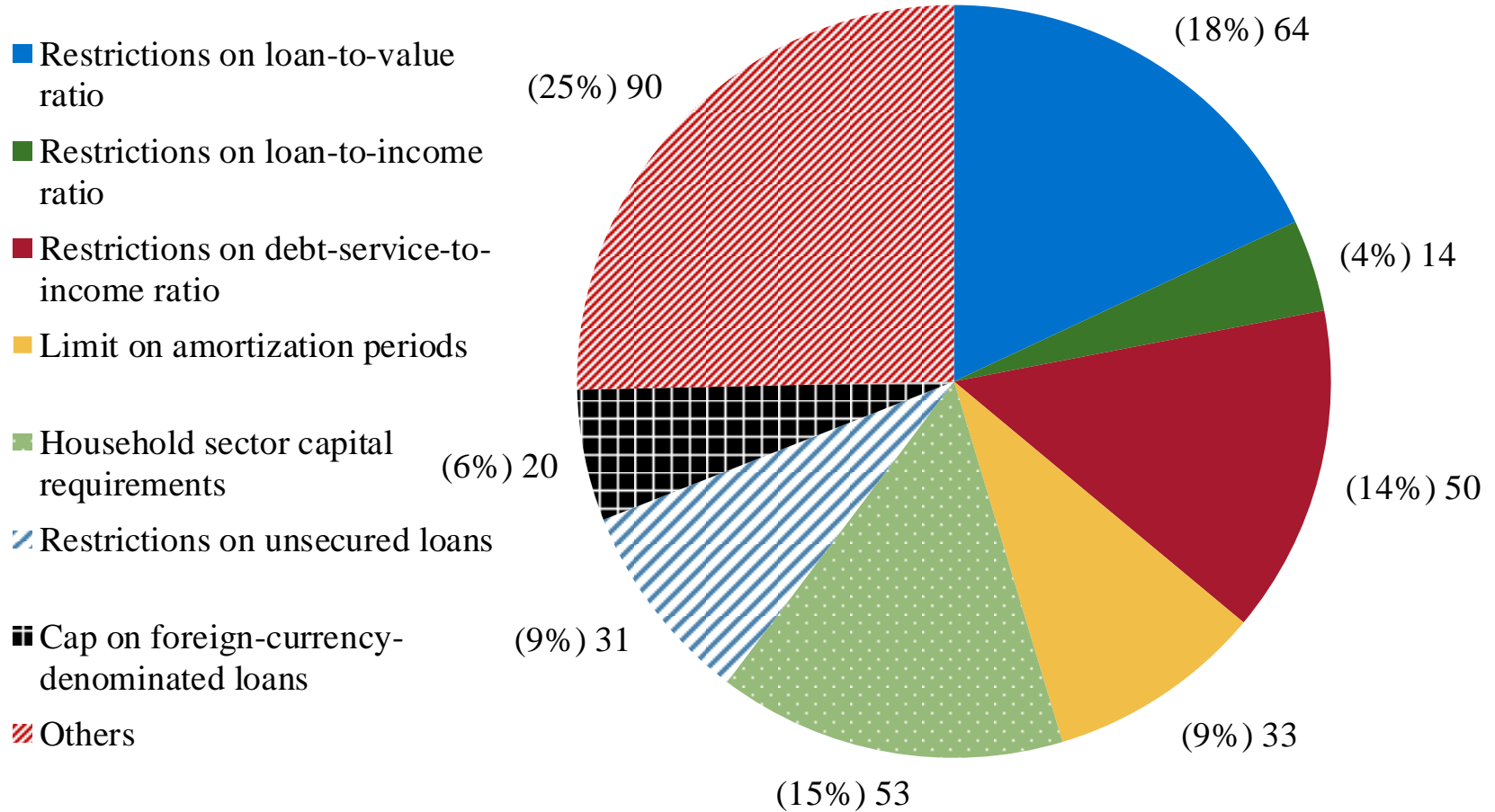
Macroprudential measures around the world

Countries are using a whole range of tools....

Total number of tools:
1,560
Average number of tools:
10.2



... often using a variety of tools for the household sector



Source: IMF Macprudential Policy Survey Database.

Note: Numbers denote frequency of measures reported; percentages denote the share among total measures reported.⁵

Use of CCyB: still room for further action

- 73 jurisdictions indicated the existence of a CCyB framework, but only a few have set a positive buffer rate

Jurisdiction	Current buffer	Effective date	Pending buffer	Effective date
Hong Kong SAR	2.50%	January 2019		
Sweden	2.50%	September 2019		
Norway	2.00%	December 2017	2.50%	December 2019
Iceland	1.75%	May 2019	2.00%	February 2020
Czech Republic	1.50%	July 2019	1.75% 2.00%	January 2020 July 2020
Slovakia	1.50%	August 2019	2.00%	August 2020
Denmark	1.00%	September 2019	1.50%	June 2020
United Kingdom	1.00%	November 2018		
Ireland	1.00%	July 2019		
Lithuania	1.00%	June 2019		
France	0.25%	June 2019	0.50%	April 2020
Bulgaria	0%		0.50% 1.00%	October 2019 April 2020
Belgium	0%		0.50%	July 2020
Germany	0%		0.25%	July 2020
Luxembourg	0%		0.25%	July 2020



New IMF research on the effectiveness of macroprudential policy

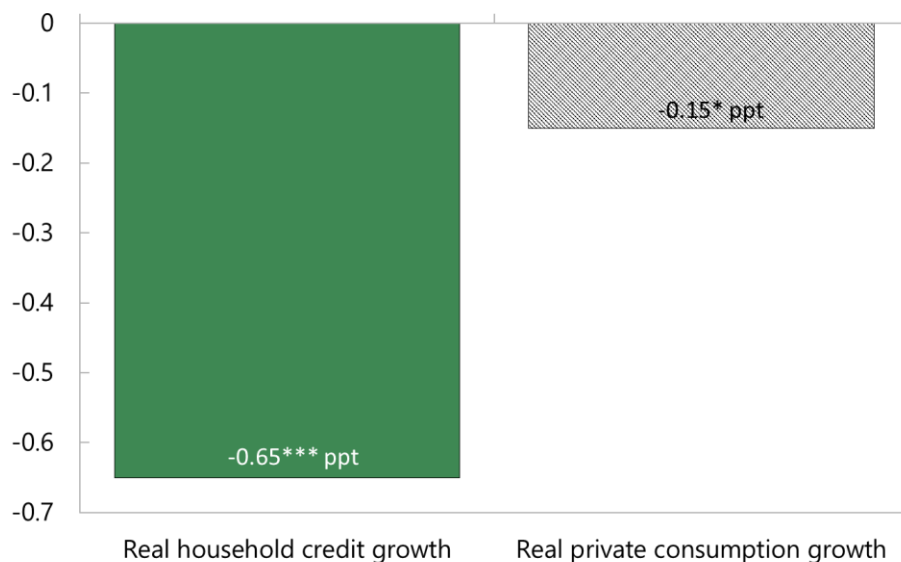
New IMF research on the effectiveness of macroprudential policy

- **Macroprudential policy matter in small open economies ...**
 - Erlend Nier, Tjoervi Olafsson, Yuan Gao (Monica) Rollinson (forthcoming)
 - Exchange rate movements can have strong effects on domestic credit. Macroprudential policies can mitigate those effects—in particular, borrower-based tools.
- **...and can limit growth-at-risk**
 - Gaston Gelos, Luis Brandao Marques, Machiko Narita, Erlend Nier (forthcoming)
 - Easing financial conditions can put GDP at risk. Macroprudential policy can mitigate those risks; monetary policy is less useful.
- **Digging deeper: quantitative effects of macroprudential policy**
 - Zohair Alam, Adrian Alter, Jesse Eiseman, Gaston Gelos, Heedon Kang, Machiko Narita, Erlend Nier and Naixi Wang
 - Presents a new database and digs deeper into the quantitative effects of macroprudential policies—in particular, borrower-based tools

Digging deeper: quantitative effects of LTV caps

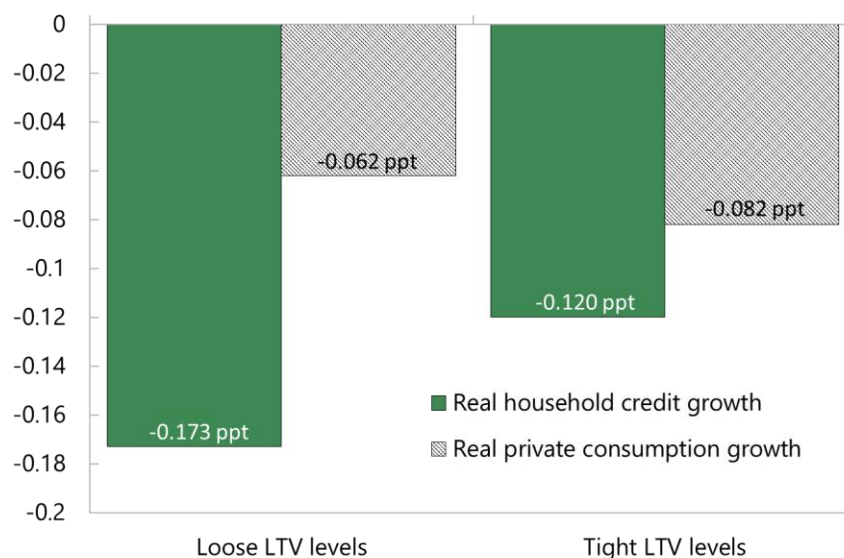
Effects of a LTV-tightening¹

(Cumulative effects of a one percentage point tightening after four quarters)



Do initial LTV limits matter?²

(Cumulative effects of a 1-ppt LTV tightening conditioning on the initial LTV level)



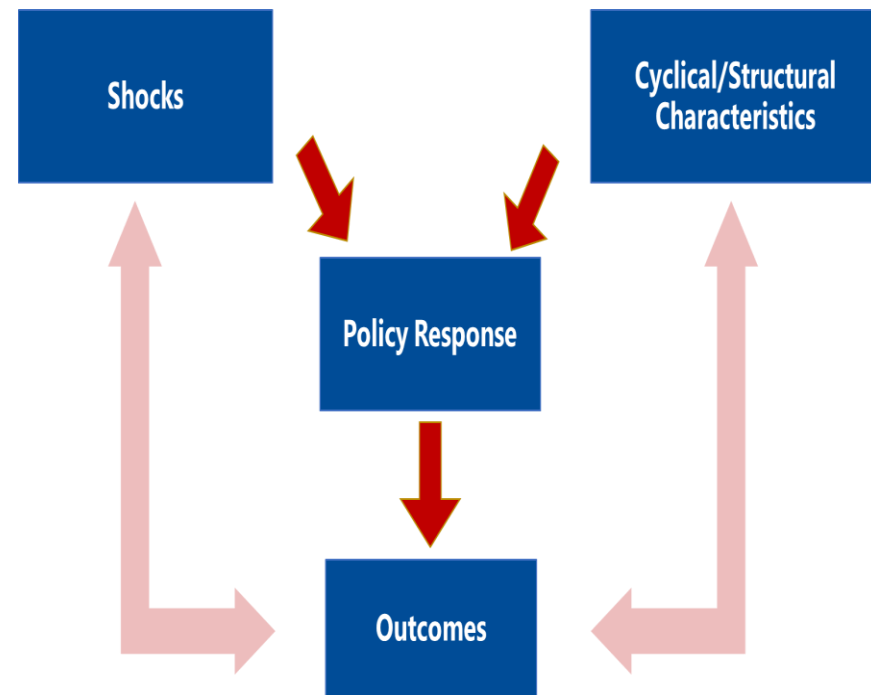
- LTV tightening is **effective** in reducing household credit growth and quite **efficient** as the side-effects on consumption growth are limited ...
- however, **initial LTV levels matter**—both for effectiveness and efficiency, which are undermined when initial LTV limits are tight ...
- ... hence a **portfolio approach** is preferred, where LTV limits are complemented with other measures.



1. IMF's Integrated Policy Framework (IPF)

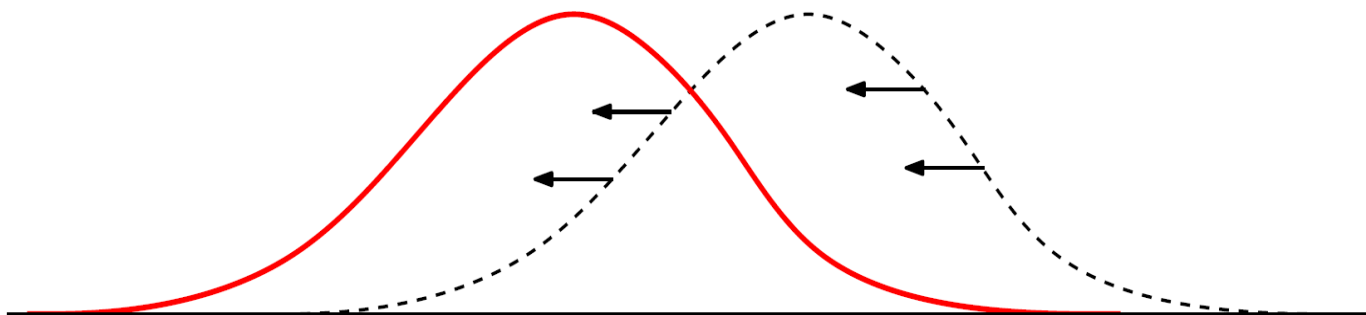
The Fund's IPF approach

- **systematic assessment of effective policy mix to meet growth and stability objectives:**
 - joint consideration of monetary, fx intervention, macroprudential, and CFM policies
 - take into account rising spillovers and deepening macro-financial and external linkages
 - recognize different country characteristics and policy frameworks

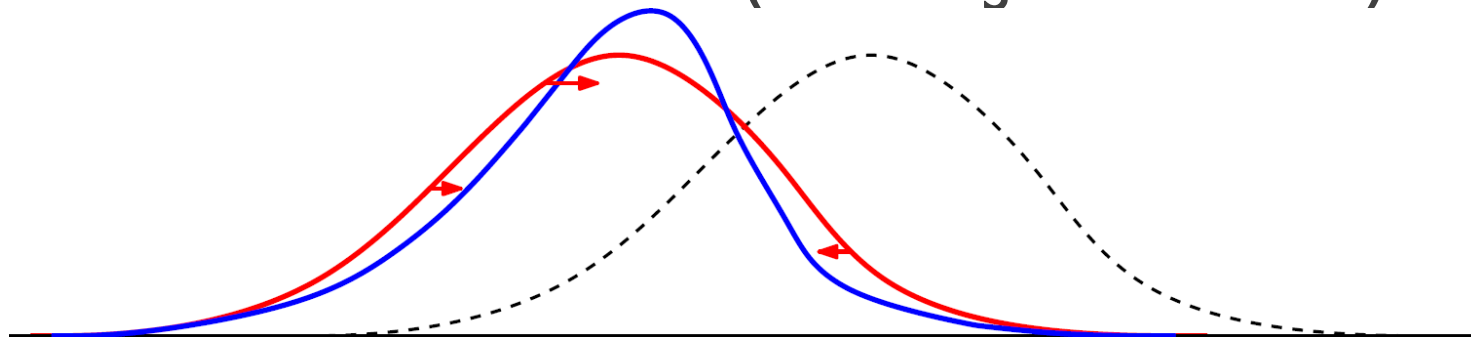


CaR—Capital flows at risk

- How do domestic policies affect the impact on capital flows from shocks to global risk appetite?
 - Consider a sudden increase in the US corporate BBB spread, which shifts the distribution of future domestic portfolio inflows to the left:



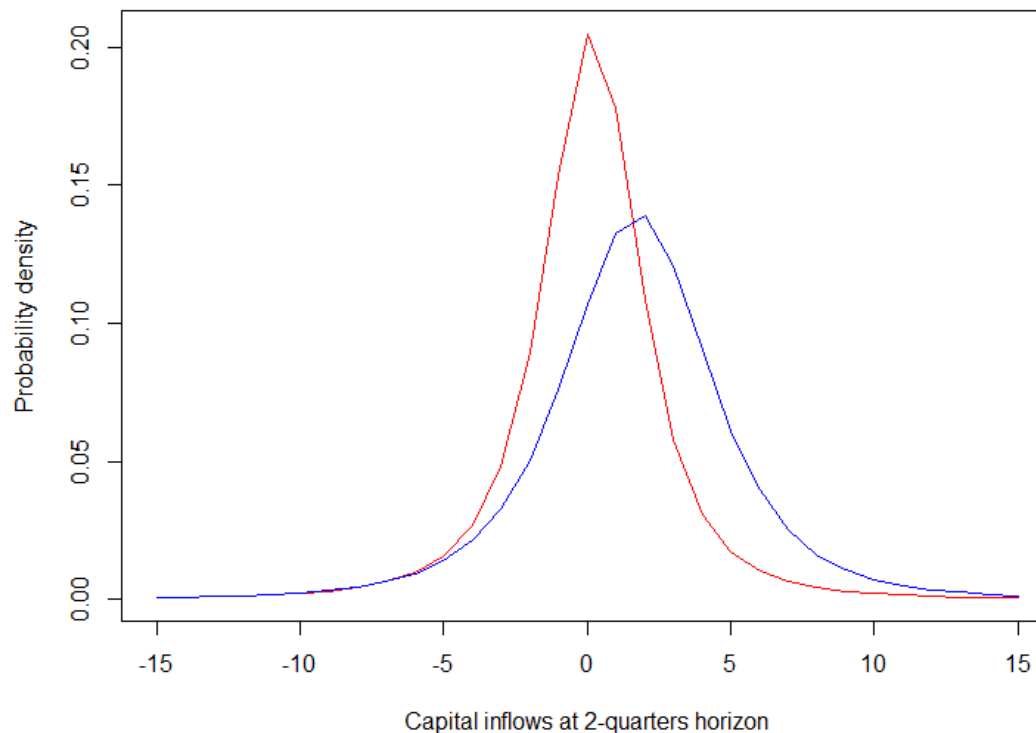
- Policies/frameworks can shift the distribution conditional on the global shock such that tail risks are reduced (and average flows increase):



How does the level of financial development affect these outcomes?

- Financial market development mitigates the impact of a global shock on capital flows

Financial market development and shock to US corporate yield: short term



- Distribution of near-term portfolio inflows after a global shock when: **financial markets are shallow** vs **financial markets are well developed**

Concluding remarks: tentative lessons

- **Macroprudential policy is effective—in particular borrower-based tools...**
- **... but leakages and costs argue for a *portfolio approach***
 - E.g., for housing: Singapore, Hong Kong SAR, Ireland, Czech Republic, Hungary, Norway, Slovak Republic
- **Macroprudential policy can increase the resilience of the financial system and GDP growth to external shocks**
 - Even when such measures are not designed to limit capital flows
- **Macroprudential policy is most useful in the context of overall strong policy frameworks and well-developed financial markets**
 - That reduce the likelihood of negative shocks

Thank you

References

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- The IMF's Annual Macroprudential Survey
 - [Survey database](#)
 - [Objectives, Design and Country Responses](#)
- The IMF's historical iMaPP database
 - [iMaPP database](#)