

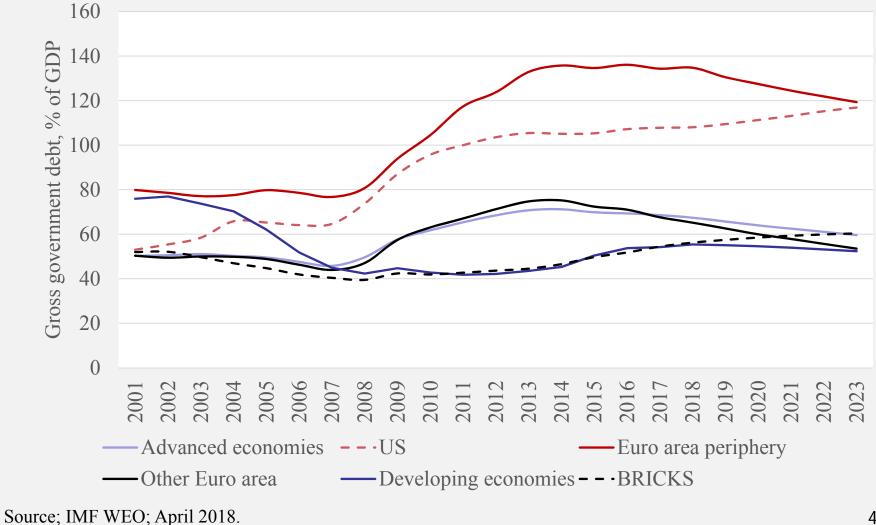
# What are the tools at disposal to respond to large shocks?

- Fiscal side
  - $\succ$  Tax cuts
  - Increased government spending
- MP tools
  - Conventional (reducing interest rates)
  - Unconventional (expanding the central bank's balance sheet)
- FS tools
  - Microprudential (LTV and DTI ratios, stress tests)
  - > Macroprudential (the countercyclical capital buffers)

#### Carvalho and Castro (2016)

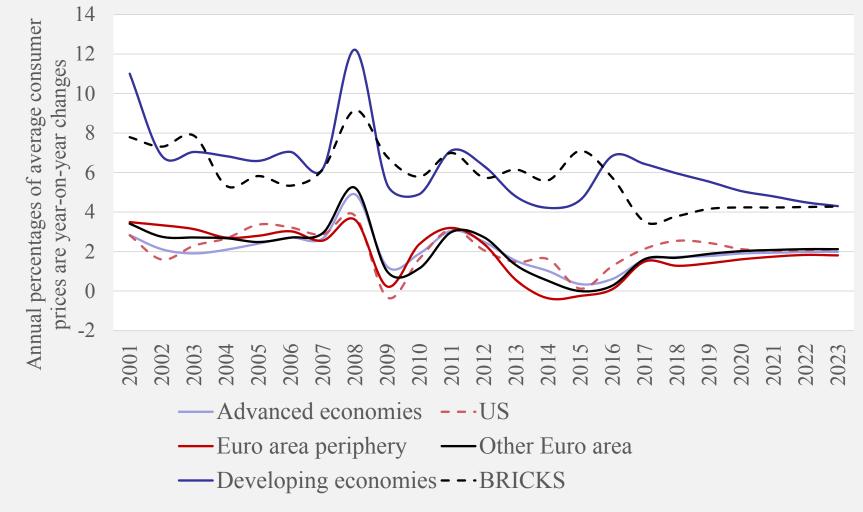
- The optimal combination is comprised of a fiscal policy that is anticyclical in the business cycle and slightly procyclical in the credit cycle (with the former dominating), a very aggressive countercyclical response of the CCyB to the financial cycle and a monetary policy that strongly reacts to inflation and business cycle.
- The gains from implementing a fiscal policy that reacts to both the fiscal and financial cycles are minor if macropru policy is not allowed to countercyclically react to the financial cycle.
- Finally, the optimal fiscal response will depend on the specific source of the shock given its particular influence on credit dynamics.

## Fiscal capacity is reduced in some developed countries



Euro area periphery: PT, ES, IT, GR.

## Monetary policy cushion is relatively small by historical standards



Source; IMF WEO; April 2018. Euro area periphery: PT, ES, IT, GR. Venezuela is excluded from the sample.

## Space for financial stability response is there, but underutilized

- Microprudential tools do not alter the post-stress level of capital
- The CCyB are currently non-zero only in a handful of countries:
  - Hong Kong (SAR) 1.875% (2.5% as of 01/19)
  - Sweden 2%
  - Norway 2%
  - U.K. 0.5% (1% as of 28/11/18)

Rosengreen also mentions Iceland and Slovakia at 1.25%, and Czech Republic with 1% in June 2018, the latter aiming 1.25% towards the end of the year. Also, Lithuania had CCyB at 0.5% with implementation date as of the end of 2018.

Thank you for your attention.