IMF – SINGAPORE REGIONAL TRAINING INSTITUTE

Financial Regulation, Climate Change, and the Transition to a Low-Carbon Economy A Survey of the Issues

Dimitri Demekas (LSE and Bank of England), Pierpaolo Grippa (IMF-MCM)

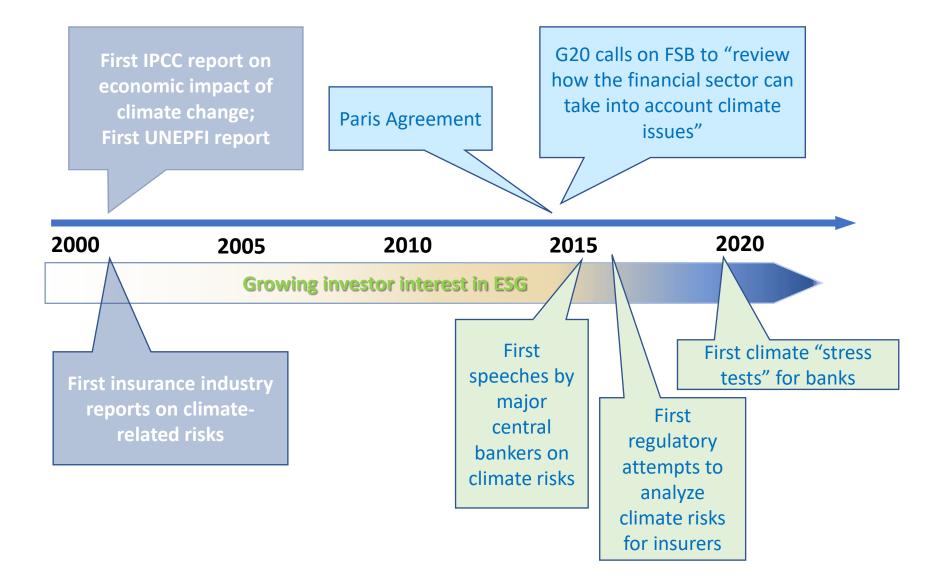
October 31, 2022

The views expressed in this presentation are those of the author(s) and do not necessarily represent the views of the IMF, its Executive Board, or IMF management.

OUTLINE

- Climate change and the financial sector: A Timeline
- Key Questions / Key Findings
- Closing information gaps, improving disclosure, promoting standards
- Climate risk analysis: the state of the art
- Should Financial Policy and Regulation Promote Low-Carbon Transition?
- Walking a tightrope to net zero

Climate change and the financial sector: A Timeline



Key Questions

- What is the role of financial sector policies in the transition to a lowcarbon economy?
- What is the role of central banks and financial regulators?





•"Trying to see through a glass, darkly"

"Brave New World"

• "Walking a tightrope to net zero"

Closing information gaps, improving disclosure, promoting standards

• DATA GAPS

• CLIMATE-RELATED DISCLOSURES

•STANDARDS

- Well-established risk management tools in the financial industry (e.g. Value-at-Risk models and stress tests) cannot be used off-the-shelf to measure climate-related risks
- Exploratory scenario-based impact assessments have to be used instead

Specificities of climate scenarios

	Standard scenarios
Horizon	Short to medium run
Scenario drivers	Economic and financial
Shock values	Guidance from historical data
Aggregation	National
Feedback loops	Work in progress (e.g. macro models with financial frictions)



ISSUES

- Model risk
- Time horizon
- Poor basis for policy action
- Not necessarily risks to financial stability

ADVANTAGES, nonetheless

- Sizing risks <u>vs</u> testing firms' capital adequacy / setting capital requirements
- Raising awareness
- Providing incentives
- Strengthen supervisory frameworks

• PROPOSALS (in the literature)

• exposure or concentration limits

• designation of systemically important financial institutions (SIFIs)

• adjusting risk weights

•...*BUT*

- how to distinguish 'green' from 'brown' assets
- 'greenness' is not necessarily equivalent to low risk
- using regulatory tools to promote climate transition would complicate the conduct of policy
- ...and, based on the available evidence, it is unlikely to be effective

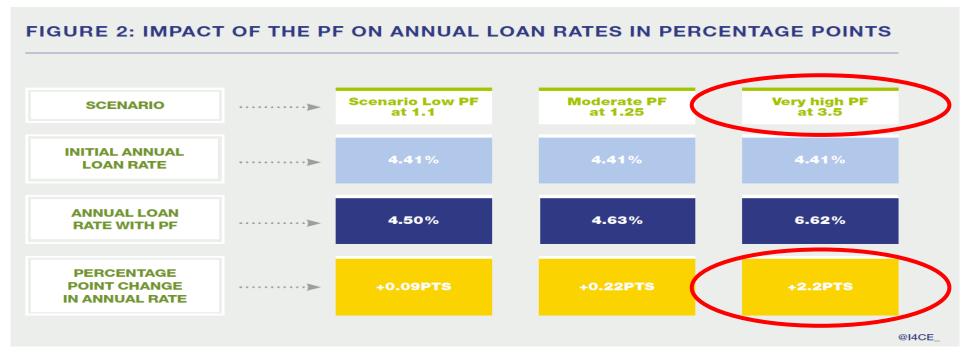
• The GSF has a very limited impact on the conditions for financing green projects...





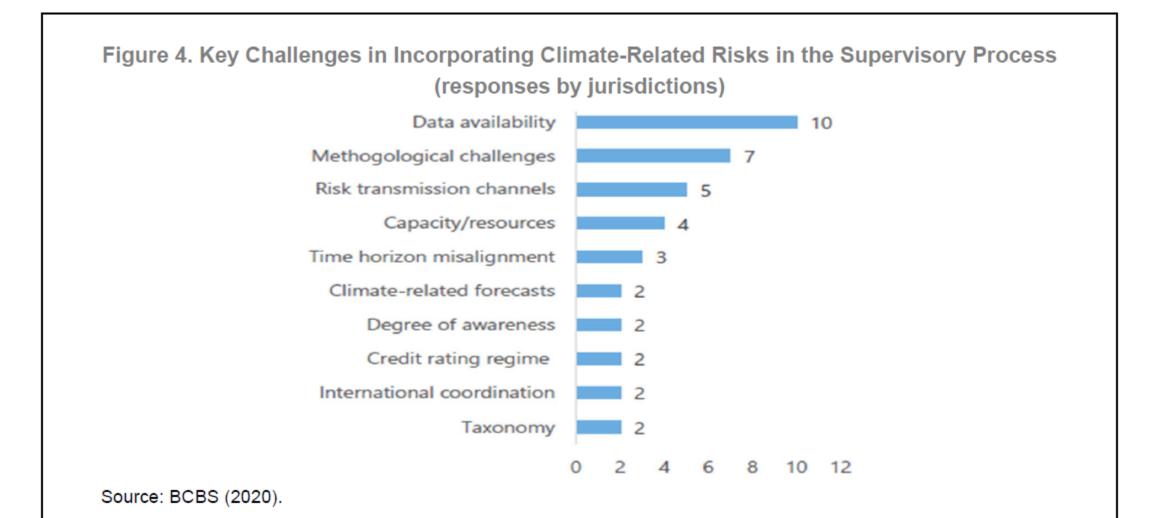
Chamberlin, B. and J. Evain (2021), Indexing Capital Requirements on Climate: What Impacts Can Be Expected?, September 2021

• ... while for the penalizing factor (PF) to have a significant impact on the cost of a project, its calibration must be (very) high ...



... but a high PF affects the capital of banks, which might respond by rationing credit

Chamberlin, B. and J. Evain (2021), Indexing Capital Requirements on Climate: What Impacts Can Be Expected?, September 2021



- Does a more 'green-promoting' role require a change in central banks and financial regulators' mandates?
- It would raise major governance and operational challenges while having most probably a limited real-world impact → would it stand up under a cost-benefit analysis?

- The road towards a low-carbon economy is going to be bumpy
- In this complex environment, central banks and financial

regulators have to tread a fine line

- Financial policy and regulation cannot deliver the transition to a low-carbon economy by itself
- Markets need a "critical signal for re-directing private investment and innovation to clean technologies, and to incentivize energy efficiency" (Georgieva 2021)

• For central banks and financial regulators ...

- A role to play in the transition to a low-carbon economy...
- ... but without overestimating their abilities or their toolkit, overstepping their mandate, or disregarding the possible unintended consequences of their actions
- Always acting in concert with government climate policies ...
- ... and avoiding to find themselves (again) in the role of 'the only game in town'

"Mission critical" ... or ... "Mission vigilant" ?

Ę

nge
l.

Dimitri Demekas, Pierpaolo Grippa 'Walking a Tightrope: Financial Regulation, Climate Change, and the Transition to a Low-Carbon Economy' *Journal of Financial Regulation*, Volume 8, Issue 2, September 2022

https://academic.oup.com/jfr/article/8/2/203/6674753

THANKS!