Preventing a 'Climate Minsky Moment': environmental risks and prudential exposure thresholds

Designing a transition-aligned Large Exposures threshold framework

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Financial Risks and the Challenges of a Net Zero Transition

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• Physical Risk – extreme weather events and chronic changes in weather patterns.

• Transition Risk – implications for the economy as a consequence of progressing towards a net-zero economy.

• Liability Risk – A subset of the other two types, where financial compensation is sought for damages from climate change.

Primary Drivers of Transition Risk



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Transmission channels of climate transition risks



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Lack of data on climate-related risks

 Lack of disclosing companies and forward-looking data Unique risk characteristics of climate

 Forward-looking, endogeneity, deep uncertainty, time horizon Intra-industry differences in transition risk

 Exposure to transition risk differs on a company and asset-level

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NGFS Transition Scenarios

- Orderly Transition early, ambitious action
- Disorderly Transition action is late, sudden and disruptive
- Too little, too late a late transition which fails to contain physical risks
- 'Hot House' World limited action leads to hot house world with significant warming



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Identifying and Assessing Transition Risks to Establish Materiality and Exposure

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Climate Policy-Relevant Sectors (CPRS)

Sectors selection criteria:

- Direct/indirect contribution to GHG emissions;
- 2. Relevance for climate policy implementation;
- 3. Their role in the energy value chain.



Assessment of Transition Risk in CPRS

TPI Rating Scale for Management Quality

- 141 out of 468 (30%) achieved a score of 2 or below, with over 40% of 'Fossil Fuel' and 'Buildings' companies achieving this score.
 - Only 10 companies in the sample disclosed a fully adequate strategic assessment on climate change.



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Assessment of Transition Risk in CPRS

Company Alignment to Climate Policy Pathway

- 181 out of 292 companies (62%) either do not offer suitable disclosure or are not aligned with a climate policy target.
 - With over 80% for 'Fossil Fuel' and 'Buildings' companies.



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Assessment of Transition Risk in CPRS

- Companies Decade of Alignment to Climate Target Pathway
- 40 companies out of 111 (36%), will only become aligned after 2040.
- Over 50% of companies is all risk categories, except 'Energy Intensive', will become aligned after 2030.



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Designing a 'transition-aligned' Large Exposure Framework

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- A large exposure (LE) is any exposure which exceeds 10% of a bank's eligible capital or a monetary value above €300m.
- Firms are not permitted to have exposures to a single counterparty (or group of connected counterparties (GCCs)) which exceeds 25% of their eligible capital. GCCs are determined on two conditions:
 - (i) A control relationship
 - (ii) Economic interdependence
- LE are reported with NACE codes, a classification system which identifies the economic sector and activity of the counterparty.

'Transition-Aligned Large Exposures Framework'

- Maps large exposures to CPRS using NACE to measure transition risk.
- Banks are subject to LE thresholds of aggregate exposures to CPRS, equivalent to 25% of eligible capital.
- If the 'soft' thresholds is exceeded, banks are subject to a disclosure regime.



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Firms in excess of 25% aggregate exposure to CPRS would be required to submit a 'Transition Strategy'.



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- i. Climate Awareness Course senior management within the bank required to undergo a climate risk awareness course.
- ii. Structural changes changes to board composition, limitations placed on capital distributions, required hiring of climate risk experts.
- iii. Capital surcharge implemented through Pillar 2b (2G).

The use of a capital surcharge should be viewed a final resort for consistent inadequate management and disclosure of climate-related risks.

Policy Rationale, Considerations, Next Steps, and Policy Calibration

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Rationale for Using the Large Exposures Framework

- Necessary trade-off between prudential rigour to mitigate risk and the burdensomeness of requirements cost of policy impact needs to be considered.
- There are two reasons why large exposures are selected for this policy:
 - (i) Conventional large exposures have potential implications for financial stability; therefore, large exposures with unobserved climate risk pose a greater threat to financial stability.
 - (ii) Transition-sensitive sectors are typically concentrated by a small number of companies. Hence, most companies with potential transition risk are likely to be captured by the Large Exposure Framework.

Policy Strengths

- Qualitative-based, forward-looking assessment overcomes the challenges of quantifying climate risk.
- Intra-industry differences corporate-level assessment
- Incorporating data into supervisory judgement banks' data collection practices on climate data included in assessment.
- Supervisory measures based on disclosure the capital buffer offers supervisory tools for inadequate disclosure.

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Policy Considerations

- Green Risks the inclusion of green risks may be seen to undermine support for the transition to a net-zero economy.
- The Policy Impact and Endogeneity of Climate Risk the adoption of policy to mitigate transition risk may cause the materialisation of transition risk.
- 'Soft' threshold versus 'Hard' Limit a soft threshold may be an insufficient deterrent to encourage banks to incorporate transition risk into their business model.

Next Steps and Policy Calibration



1. Understand Exposure

- Determine banks' exposure to transition-sensitive sectors in their large exposures.
- Estimate the costs and feasibility for companies to transition.
- Examine exposure in banks' non-large exposures.



2. Build Capacity

- Improve sector identification reporting for accurate identification of CPRS.
- Hire 'sector experts' within the supervisory authority.



3. Develop Supervisory Tools

- I. Climate Awareness Course
- II. Change in board composition, risk management, restrictions on capital distributions
- III.Capital Surcharge through Pillar 2b (2G)

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Thank you for taking the time to listen to our presentation. Please get in touch if you have further questions.

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