

Regulatory/Supervisory Pills | N.117 July 2025



TOPICS:

Credit risk

SOURCE

Bank for International Settlements

BIS: Incorporating Physical Climate Risks into Banks' Credit Risk Models

- This BIS paper explores how physical climate risks - such as wildfires, floods. storms. and heatwaves - are being integrated into banks' credit risk models. These risks, which are expected intensify with climate change, pose significant threats to creditworthiness of borrowers and valuation of collateral. particularly in vulnerable sectors and regions.
- emphasizes The paper traditional credit risk models often fail to capture the long-term and nature of non-linear climaterelated events. To address this, banks supervisors and are beginning to incorporate physical risk drivers into both qualitative quantitative assessments and credit risk modelling frameworks. paper outlines several practices, emerging including analysis, geospatial scenario hazard mapping, and sectoral assessments. vulnerability These tools aim to assess borrower exposure, estimate potential loss impacts, and adjust risk ratings or pricing accordingly. loan
- A central challenge lies in the lack of granular, forward-looking data and the need for consistent methodologies. Many institutions rely on third-party climate data providers and still face significant modelling uncertainty. Furthermore, translating acute and chronic physical risks into financial metrics requires bridging gaps between climate science and risk modelling disciplines.
- paper highlights also supervisory efforts in several jurisdictions to encourage robust integration of climate risk into credit assessments. These include stressexercises, testina enhanced disclosure requirements, expectations for governance and risk management practices. While progress is being made, the report underscores that most banks are still in early stages, and model maturity remains low.

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