

Physical Risk Impact Measurement

Helping banks to meet ECB requirements when performing physical risk assessments.

A fresh take on risk and valuation

How to measure physical risk for your exposures?

CLIMATE RISK MEASUREMENT

CLIMATE RISK STRESS TEST

forward-looking physical risk assessments. Therefore, Finalyse developed a prototype to demonstrate how banks should quantify their physical risks, using geospatial mapping, forward-looking hazard data and exposure characteristics, which matches the ECB's requirements (in terms of assessment level; time horizon; documentation & measurement of materiality).

The ECB has formulated requirements for banks to perform comprehensive, sound, and

The first Finalyse Risk prototype is focused on flood risk and offers a practical implementation of a forward-looking risk assessment in combination with an open-source engine.



For more information, visit www.finalyse.com/banking/physical-risks-impact-measurement

Benefits

PILLAR 3

PHYSICAL RISKS

- Compliant with ECB C&E risk measurement expectations.
- Forward-looking and granular assessment.
- Applicable to multiple geographies, time ranges and RCP scenarios.
- Leveraging ISIMIP2b methodology and IPCC framework.
- Impact functions that output a percentage of damage based on the observed meters of flooding.
- Different impact functions, sourced from relevant academic literature, can be applied to multiple exposure types (Residential buildings, Commercial buildings, Industrial buildings, etc.).
- Flexible and customizable.

Motivation

Physical risks are associated with potentially significant materiality in the event where they would have an impact on a bank's balance sheet. The ECB highlighted that banks' physical risk assessments had several shortcomings, such as

- 1. Being limited to only a set of physical hazards.
- 2. Lacking in granularity.
- 3. Not sufficiently forward-looking.

BRUSSELS

Finalyse Flood Risk Prototype has been designed to fulfil the existing gap in the physical risk measurement methodologies and help banks in meeting the ECB expectations.

BUDAPEST



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