

HIGH-LEVEL POLICY DIALOGUE ON CLIMATE CHANGE

INTEGRATING CLIMATE AND NATURE RELATED RISKS IN PRUDENTIAL SUPERVISION

THE CASE OF BANCO DE PORTUGAL

20 NOV. 2024, ECB, FRANKFURT CLARA RAPOSO



1. A PRIOR: WHY WE MUST CARE

2. THE INTEGRATED APPROACH OF BANCO DE PORTUGAL

3. BANKS' EXPOSURE TO CLIMATE AND NATURE RISKS

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A PRIOR: WHY WE MUST CARE

"The occurrence of extreme events unprecedented in the observed record will rise with increasing global warming, even at 1.5°C of global warming."



European Environment Agency "Extreme weather events pose an increased risk to nature, buildings, infrastructure, and human health. These events, expected to increase in frequency and intensity because of climate change, are already causing substantial damage and loss."

"Natural climate variability (...) can result in extreme weather and climate impacts, but climate change is leading to changes in the frequency, intensity, spatial extent, duration and timing of weather and climate extremes. Sometimes these impacts can be unprecedented."



ipcc



"As Earth's climate changes, it is impacting extreme weather across the planet. Record-breaking heat waves on land and in the ocean, drenching rains, severe floods, years-long droughts, extreme wildfires, and widespread flooding during hurricanes are all becoming more frequent and more intense."

A PRIOR: WHY WE MUST CARE

It affects us all. Already today.

"Different regions in Europe will experience different changes in the patterns of extreme weather:

- In **northern Europe**, annual precipitation and heavy rainfall are likely to increase, with droughts becoming less frequent.
- **Central Europe** is likely to experience lower summer rainfall, but also harsher weather extremes (heavy precipitation, river floods, droughts and fire hazards), with mixed changes in annual precipitation and aridity.
- In **southern Europe**, annual precipitation and summer rainfall are projected to decrease, whereas aridity, droughts and fire hazards are all likely to increase."

Source: European Environment Agency



Tragic floods in Spain. Source: El País.





ACTION FOR SUSTAINABILITY



Integrating climate risks into the **missions** of the Banco de Portugal

Reinforcing ESG sustainability in internal **management**

Promoting ESG **awareness** among employees and external stakeholders

2022-2025

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ACTION FOR SUSTAINABILITY 2022-2025 AREA 1: Integrating climate risks into the missions of the Banco de Portugal HIGHLIGHTS				
Taking an active part in the monetary policy work set out in the ECB's Action Plan for climate change (since Jul 2022)	Issuing an Annual Report of the Banco de Portugal on the Banking Sector's Exposure to Climate Risk (since Jul 2023)	Issuing supervisory expectations on climate and environmental risks, addressed to banks under direct BdP supervision, and following up on their incorporation (since Apr 2021)	Doing Research on climate change and providing technical assistance to the Government on the EU's agenda for sustainable finance (since 2019)	



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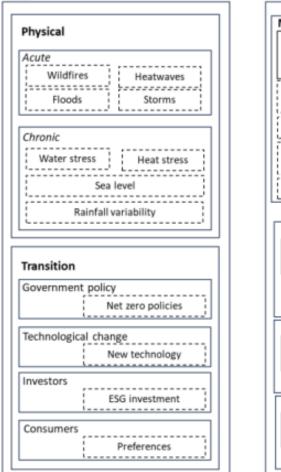
Figure I.1.4 • Financial risks from climate risk drivers

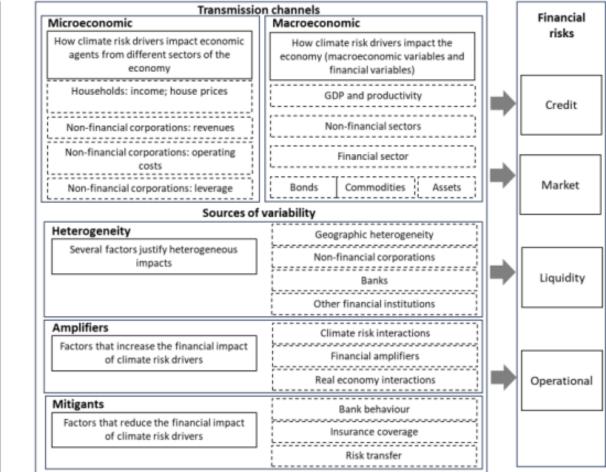
Drivers of climate-related financial

risks

CLIMATE RISKS

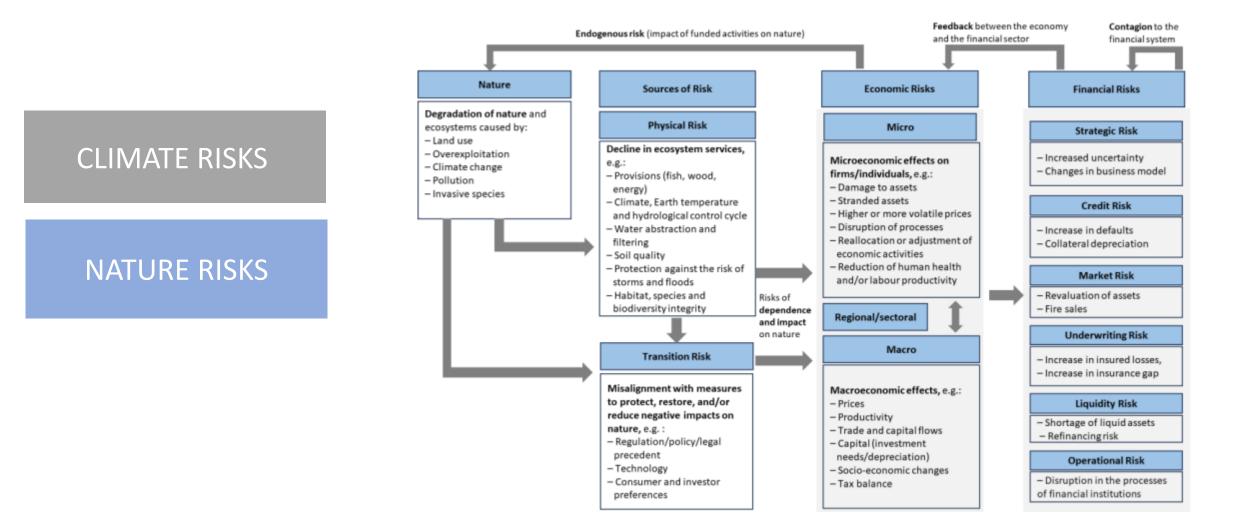
NATURE RISKS





Source: BCBS (2021) (adapted).

Figure I.4.1 • Transmission channels of nature-related risks



Sources: Banco de Portugal and NGFS (2024) (adapted).

ANNUAL REPORT ON THE BANKING SECTOR'S EXPOSURE TO CLIMATE RISK



Yes, it is complex. But it can – and must – be done.

BdP publishes an annual report on the banking system's exposure, resilience and efforts to adapt to climate risks.

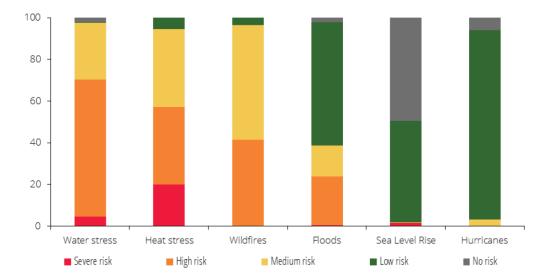
Covers both the macro and microprudential approaches.

Second edition already online – have a look <u>here</u>!

Also in compliance with the mandate set out in Article 35(7) of the Portuguese Climate Framework Law.

A snapshot of the results: physical and transition risks

Chart I.2.1 • Banking sector's exposure to physical risks through credit granted to firms – September 2023 | As a percentage of total credit to firms

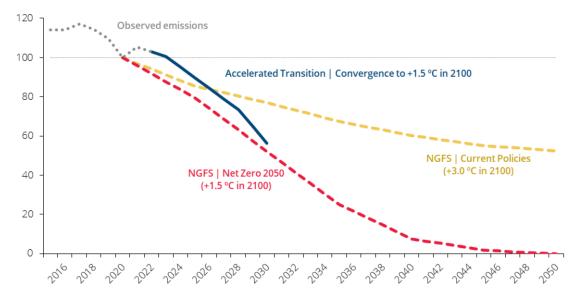


Sources: Banco de Portugal and Moody's COD. | Note: Total credit includes the outstanding amount of loans reported in the CCR, as well as debt securities held by banks from the SIET for all 50,000 firms under review.

- Climate risks are passed on to the financial system through highly complex mechanisms.
- The report shows evidence of the banking system's exposure to these risks based on indicators and on climate scenarios.
- Physical climate risks: PT banking sector considerably exposed to firms located in areas vulnerable to risks stemming from water stress, heat stress and wildfires and, to a lesser extent, floods.
- Transition climate risks (carbon intensitybased indicators): PT banking sector's exposure via the portfolio of credit to firms is limited and, overall, has been on a declining trend over the last decade. These results place PT in an intermediate position in the euro area.

A snapshot of the results: climate scenarios analysis

Chart I.2.12 • Projection of GHG emissions in the EU under different climate action scenarios | Share of emissions compared to 2020, 2020 = 100

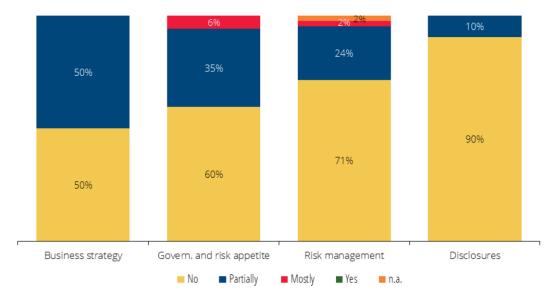


Sources: EEA and NGFS (Banco de Portugal calculations). | Notes: The GHG emissions trajectories have been constructed from observed EU emissions (dotted line) available on the European Environment Agency's website and the scenarios available on the NGFS Scenarios Portal. The chart shows the GHG projections in the Current Policies scenario and under two climate transition scenarios: a gradual transition, corresponding to the NGFS's Net Zero 2050 scenario (represented herein solely to illustrate a Paris Agreement-compliant GHG emissions trajectory) and an accelerated transition scenario (Accelerated Transition). Emissions in the Accelerated Transition scenario between 2022 and 2030 have been estimated based on the rates of change in the Delayed Transition scenario from 2030 onwards. GHG emissions trajectories in the Current Policies and Net Zero 2050 scenarios are anchored in 2020.

- Climate scenarios analysis (not forecasts, but plausible projections under certain assumptions) capture interactions between climate risks, the real economy and the financial sector for different policy choices.
- 2023 edition: for the banking sector, clear benefits of acting swiftly to reduce emissions.
- 2024 edition: compares an Accelerated Transition scenario (introduction of more intense, fast-paced measures) with the Current Policies scenario.
- Over the 2023-30 horizon, reflecting the existence of initial costs from the climate transition process, firms' credit risk is higher under the Accelerated Transition scenario, with sectoral pockets of vulnerability (fossilfuel, transportation and energy-intensive sectors).
- Of course, these results do not undermine the benefits, from a banking system perspective, of acting swiftly on climate change; they underline the importance of timely action by the banking sector visà-vis those risks.

A snapshot of the results: supervisory expectations

Chart I.3.1 • Level of alignment between the institutions' current practices and supervisory expectations by area of supervisory expectations, 2023, all institutions



Source: Banco de Portugal.

Prudential supervisory expectations on climate and environmental risks:

ECB – SI
Set in November 2020

Implementation: staggered timetable; end of 2024 full alignment

- BdP LSI
- Set in April 2021

Implementation: one additional year to achieve the same objective.

Level of implementation so far:

SI (ECB): gradual progress over the past years, although severe shortcomings remain in some cases that need to be addressed in the short term.

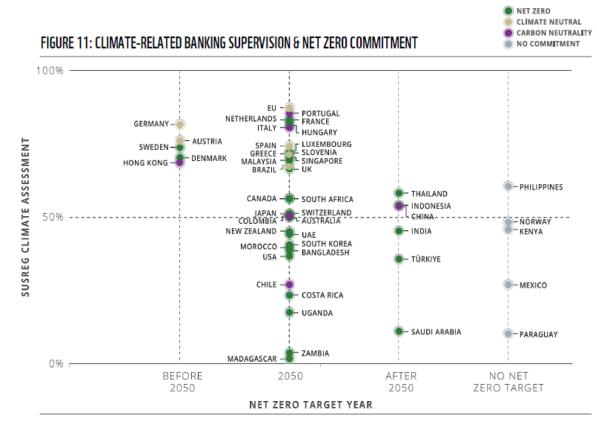
LSI (BdP): progress in identifying and mitigating exposure to climate risks, but important non-compliances remain in critical and priority areas.

→ Institutions need to step up efforts, resources and skills.



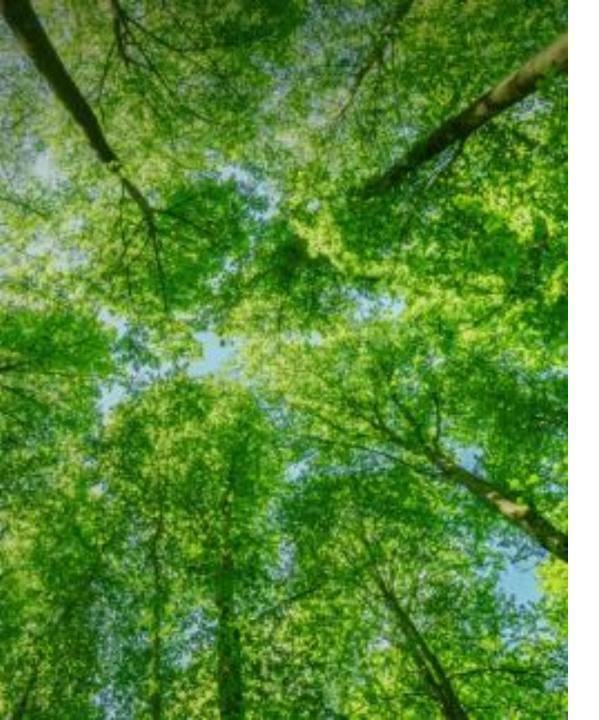


BANKING SUPERVISORS FROM 16 COUNTRIES COMMITTING TO NET ZERO TARGET STILL LAGGING IN SUPERVISION FOR CLIMATE RISKS



Source of countries' net zero target: Net Zero Tracker (2024) and internal verification conducted by the authors.

Note: Although Norway has not formally adopted a net-zero target, the country has established a goal to reduce its greenhouse gas emissions by 90 to 95 percent by the year 2050, compared to emission levels in the reference year 1990.



KEY CHALLENGES AHEAD

Contribute	Contribute to awareness and sense of emergency on climate transition
Address	Climate risks: address data gaps, data quality, data consistency (>400 climate change disclosure initiatives worldwide!)
Ensure	Ensure an effective and swift implementation of regulatory and supervisory initiatives, balancing the required administrative burden
Understand	Nature risks: better understand implications and the nature-climate nexus
Boost	Boost international cooperation and coordination (continuing the important work of the NGFS and ECCF)

ANNUAL REPORT ON THE BANKING SECTOR'S EXPOSURE TO CLIMATE RISK

BANCO DI PORTUGAL

CLIMATE-RELATED FINANCIAL DISCLOSURES OF THE BANCO DE PORTUGAL'S OWN FINANCIAL ASSETS

BANCO DE PORTUGAL DECARBONISATION PROGRAMME











Guia sobre riscos

Expectativas prudenciais relacionadas com a gestão e a divulgação de riscos

mbro de 2020

climáticos e ambientais





ACTION FOR SUSTAINABILITY



OBRIGADA THANK YOU

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