



24 September 2025

Exploring the sustainability disclosure landscape and climate stress testing methodologies

Key findings from recent UNEP FI Risk Centre Reports

Arjun Mahalingam, Head of Risk Centre, UNEP FI

Hui-Yan Cheng, Risk Disclosures Project Lead, Risk Centre, UNEP FI

Maheen Arshad, Sustainability Risk Integration Project Lead, Risk Centre, UNEP FI

Agenda for today

#	Overview	Speakers	Est. time in CEST
1	Opening remarks: Importance of sustainability disclosures and stress testing for risk management	Arjun MAHALINGAM	14:00 - 14:05
2	Current disclosures landscape & challenges	Hiu-Yan CHENG	14:05 - 14:20
3	Linking disclosures to climate stress testing	Hiu-Yan CHENG	14:20 - 14:25
4	Climate stress testing methodologies	Maheen ARSHAD, Peter PLOCHAN (SAS)	14:25 - 14:45
5	Discussion, Q&A		14:45 - 15:00

1 Opening Remarks: Importance of sustainability disclosures & stress testing for risk management

Speaker

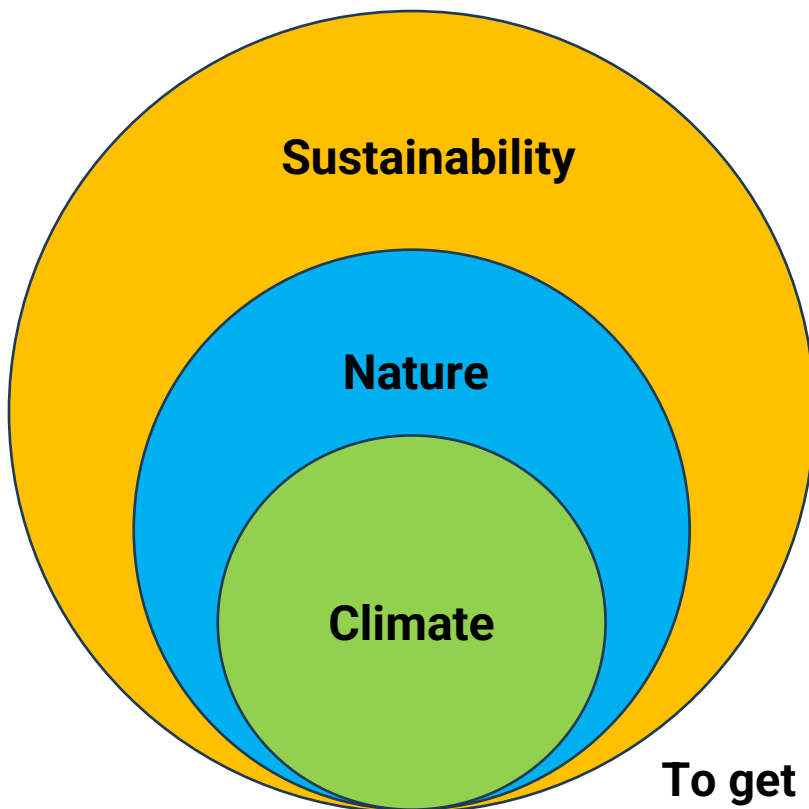


Arjun Mahalingam
Head of Risk Centre, UNEP FI

Introduction to the [UNEP FI Risk Centre](#)

Mission: Help participants to take a holistic approach to sustainability-related risks with a view to fully integrate it within existing risk management frameworks.

WHAT?



WHY?

- ✓ Sustainability is a material driver of traditional risks.
- ✓ Develop forward-looking risk monitoring capabilities.
- ✓ Prepare ahead for regulatory requirements.
- ✓ Identify opportunities early.
- ✓ Support sustainable development.

HOW?



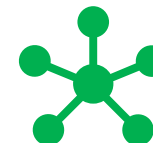
Lay solid foundations



Develop practical toolkits



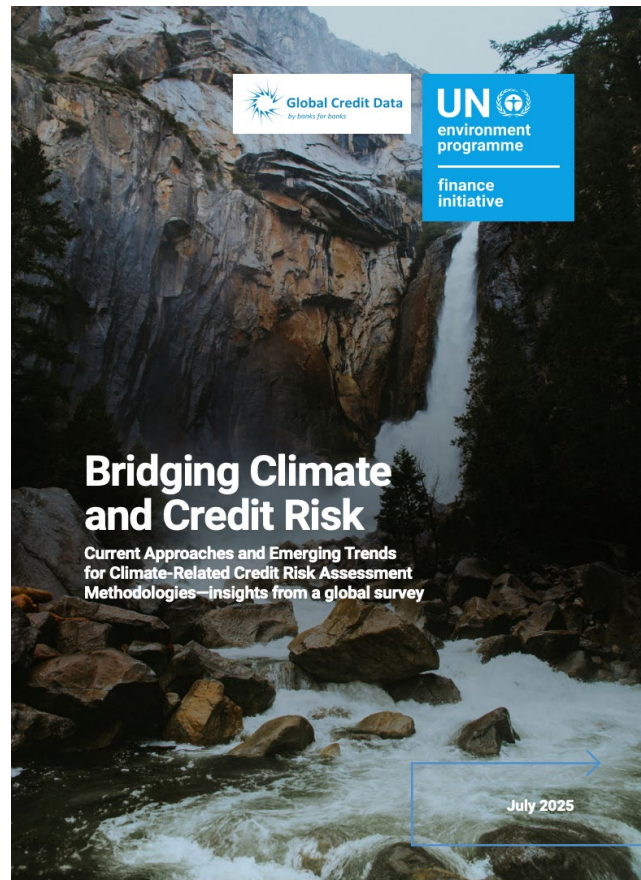
Build capacity to implement



Leverage power of networks

To get involved or find out more reach out to: unepfi-riskcentre@un.org

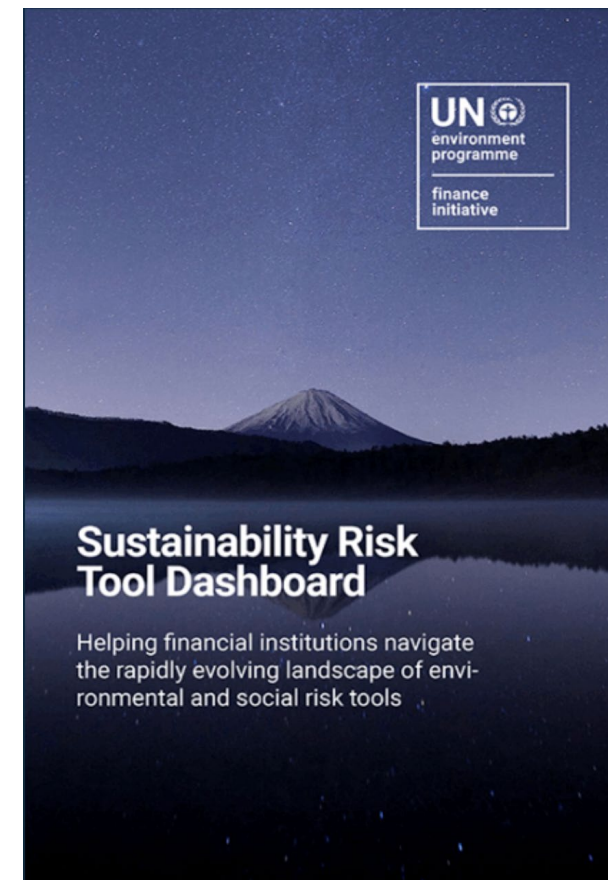
UNEP FI Risk Centre Outputs so far in 2025



[Climate Credit Risk Report](#)



[Disclosures Landscape Report](#)



[Risk Tools Dashboard](#)

What to expect next from the UNEP FI Risk Centre?

Upcoming Publications

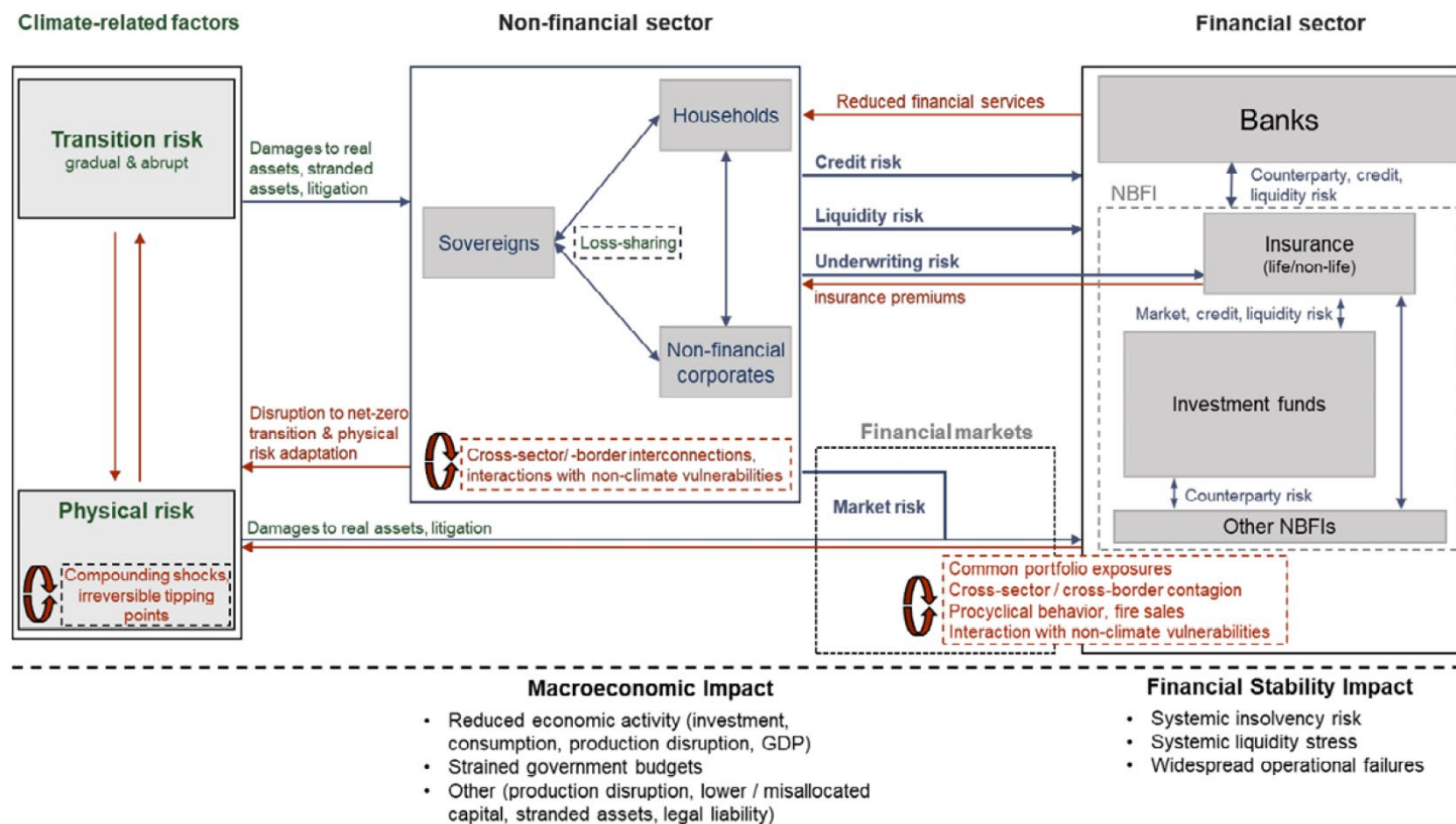
- **Climate Stress Testing Methodologies: Current Practices, Challenges and the Road Ahead** [Oct 2025]
- **Sustainability Risk Landscape Report** [Nov 2025]
- **Transition Finance for Hard-to-Abate Sectors: A Technical Supplement** [Nov 2025]
- **Sustainability Risk Tools Dashboard** (Quarterly Update)

Upcoming Projects [2025-2026]

- Sustainability Risk Integration into Risk Management Practices: *Risk Appetite and Sustainability Scorecards*
- Physical Climate Risks and Adaptation Benefits
- Physical Nature Risk
- Enhancing Environmental Risk Reporting and Disclosure Practices
- Focus group on Central Banks' Perspectives: *Leading Risk Management Practices for Banks*
- Assessing and Using Client Transition Plans

Climate shocks can translate into financial risks

The importance of reporting risk exposures, transmission channels & resilience measures¹



The need to consider sustainability-related risks & opportunities into companies' risk management

- High-quality, comprehensive ESG disclosures provide the data needed to identify, assess and manage financial risks and opportunities.
- Forward-looking information underpins credible transition plans and long-term capital allocation.
- Consistent and comparable disclosures are essential to assess systemic risks and increase transparency across jurisdictions.
- Banks should leverage clients' disclosures and scenario analysis to inform risk assessments and strategy.



Sustainability disclosures feed into every stage of companies' risk management.

They help organisations identify, assess, manage and communicate risks and opportunities arising from environmental and social factors.

[Download Risk Centre Disclosures Landscape Report here.](#)

2 Current disclosures landscape & challenges

Speaker



Hiu-Yan CHENG (Yan)
Risk Disclosures Project Lead,
Risk Centre, UNEP FI
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Overview of key sustainability disclosure standards / frameworks (1/2)



TASK FORCE ON
CLIMATE-RELATED
FINANCIAL
DISCLOSURES

TCFD Recommendations

- Voluntary recommendations
- 4 pillars: governance, strategy, risk management & metrics
- Fully incorporated into IFRS S1 & S2



Taskforce on Nature-related
Financial Disclosures

TNFD Recommendations

- Voluntary recommendations
- Builds on TCFD structure: same 4 pillars
- Focus on nature- and biodiversity-related risks & opportunities
- Applies “LEAP” approach (Locate, Evaluate, Assess, Prepare)



TASKFORCE ON INEQUALITY
and SOCIAL-RELATED
FINANCIAL DISCLOSURES

TISFD Recommendations

- Voluntary recommendations still under development (expected 2025–26)
- Mirrors TCFD/TNFD model, focusing on inequality & social issues
- Aims to integrate with IFRS S1/S2 and ESRS interoperability

Reporting standards / framework provide a **structured way for companies to report** on their sustainability-related risks and opportunities, incl. their transition plans



[Download Risk Centre Disclosures Landscape Report here.](#)

Overview of key sustainability disclosure standards / frameworks (2/2)



IFRS S1 & S2

- Fully incorporates TCFD recommendations
- 4 core content: governance, strategy, risk management & metrics
- S1 covers sustainability aspects; S2 covers climate disclosure requirements
- Financial materiality



ESRS

- Mandatory reporting standards under CSRD
- Covers a wide range of ESG topics in 12 Standards
- Double materiality



GRI Standards

- Among the most widely used voluntary ESG reporting standards
- Impact materiality
- Includes topic and sector standards



TPT Disclosure Framework

- Guidance for credible transition plans disclosures
- Includes 5 disclosure elements: Foundations, governance, implementation, engagement, metrics



ISSA 5000

- Issued by IAASB (2023) as global sustainability assurance standard
- Complements ISQM 1 and IESBA Code of Ethics

Reporting standards / framework provide **a structured way for companies to report** on their sustainability-related risks and opportunities, incl. their transition plans

 [Download Risk Centre Disclosures Landscape Report here](#).

Latest insights from IASB (1/2)

Disclosure of climate-related uncertainties in financial statements under IFRS Accounting Standards¹



July 2025

Near-final staff draft

Disclosures about Uncertainties in the Financial Statements Illustrated using Climate-related Examples Illustrative Examples

The International Accounting Standards Board (IASB) has not approved this near-final staff draft. The technical staff of the IASB is making this near-final draft of the illustrative examples available to give entities early sight of the examples expected to be issued in October 2025. This near-final draft is being made available for information only. The IASB is not requesting comments on it.

Examples illustrate six areas of required financial statement disclosure – widely applicable across sectors (financial, non-financial corporates, etc.)

Example 1—Materiality judgements applying paragraph 31 of IAS 1 [paragraph 20 of IFRS 18]

Example 2 & 3—Disclosure of assumptions (on impairment testing and general requirements)

Example 4—Disclosure about credit risk

Example 5—Disclosure about decommissioning and restoration provisions

Example 6—Disclosure of disaggregated information

1) [IFRS Foundation, 2025](#) (final version expected to be published in Oct. 2025);

Latest insights from IASB (2/2)

Example on FI's reporting credit risks due to climate-related uncertainties using IFRS 7 (para. 35A-38)¹

Reporting of uncertainties due to climate-related risks leveraging IFRS 7 (para. 35A-38)

Example of loans to:

- agricultural customers (droughts could affect ability to repay)
- real estate customers (properties securing loans are subject to flood risk)

1. Determine if info about the effects of climate-related risks on credit risk exposure is material

2. Disclose that material information in the notes to the financial statements: how credit risk management practices relate to climate-related risks, and how these practices relate to ECL

Consider the **size of the portfolios** exposed to climate-related risks

Consider the **significance of the effects of climate-related risks**
(The effects depend on factors such as loan maturities and the nature, likelihood and magnitude of the climate-related risks)

Consider **external climate-related qual. factors**
(market, economic, regulatory and legal environments in which the entity operates can make the information more likely to influence the decisions of the primary users of the entity's financial statements)

Explain **how climate-related risks are incorporated in the inputs, assumptions and estimation techniques for ECL modelling / judgment-based adjustments** of ECL

Disclose information about collateral held as security and other credit enhancements, e.g.,

- information about properties held as collateral that are subject to climate risk; and
- whether that risk is insured

Include information about concentrations of climate-related risks if not apparent from other financial statement disclosures the entity makes, e.g., **carrying amount** of the portfolios considered to be exposed to climate-related risks

¹) [IFRS Foundation, 2025](#) (final version expected to be published in Oct. 2025);

Sustainability Disclosure Landscape Report for Risk Management: Insights from climate-focused case studies (2024 UNEP FI Risk Centre Disclosures WG Outcome)



Objectives:

- To provide an overview of the sustainability disclosure landscape, including:
 - **Comparison between key standards/ frameworks**
 - **Conceptual foundations**
 - Current disclosure practices
 - Potential areas for improvements
- To provide case studies built on climate-related public disclosures to help address key disclosure gaps.



Themes Covered:

- **Potential disclosure gaps**, based on latest FSB, IFRS reports & working group discussion outcomes
- **Case studies** from both financial institutions & real-economy companies on:
 - Least disclosed ISSB Core Content (on Strategy & Risk Management)
 - Transition plan disclosures per TPT element
 - Double materiality disclosures



Key Findings:

What can be improved:

- Links between IROs and financial metrics
- Disclosures reflecting the interaction of impact and financial materiality
- Transition plan disclosures

Implementation challenges:

- Lack of standardised methodologies, challenges in quantifying IROs
- Data challenges
- Managing stakeholder & shareholder expectations

Designed to support practical understanding of how these disclosure gaps may be addressed, this report presents illustrative case studies from FIs & real-economy companies.

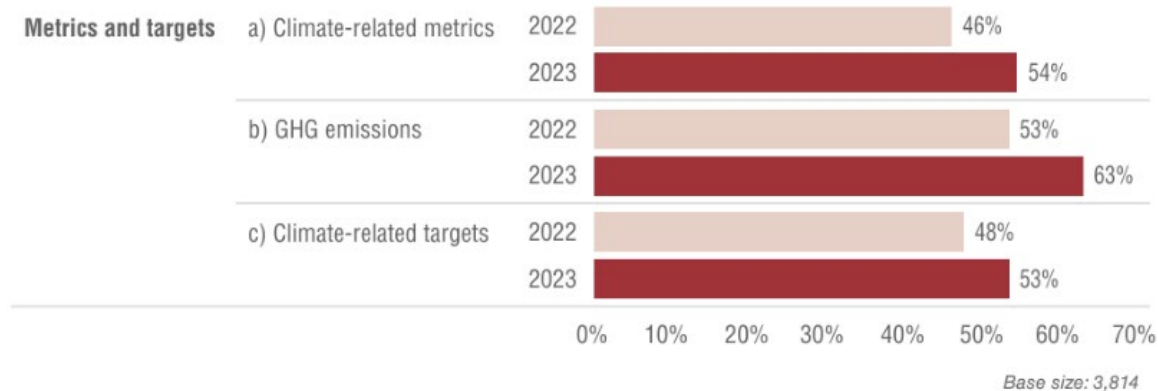
 [Download Risk Centre Disclosures Landscape Report here.](#)

What can be improved? (1/2)

The report finds disclosure gaps in 4 areas

Link between IROs and financial metrics can be improved	Challenges with double materiality disclosures	Potential limitations with transition plan disclosures	Nascent social & nature-related disclosures
<ul style="list-style-type: none"> • Direct disclosures of quantified insights into all three financial dimensions—financial position, financial performance, and cash flows—were limited • Credit risk disclosures more developed than other risk types • Liquidity & cash flow impacts often qualitative 	<ul style="list-style-type: none"> • Lack of standardized methodologies and challenges in quantifying IROs • Data availability • Managing stakeholder and shareholder expectations 	<ul style="list-style-type: none"> • Largely narrative; limited quantification of financial impacts • Lack of consensus on key definitions (e.g., 'hard-to-abate sectors') missing, reducing comparability • Gaps hinder detection of greenwashing 	<ul style="list-style-type: none"> • Low consistency and comparability • Social disclosures are mostly qualitative due to lack of standardised indicators/methods

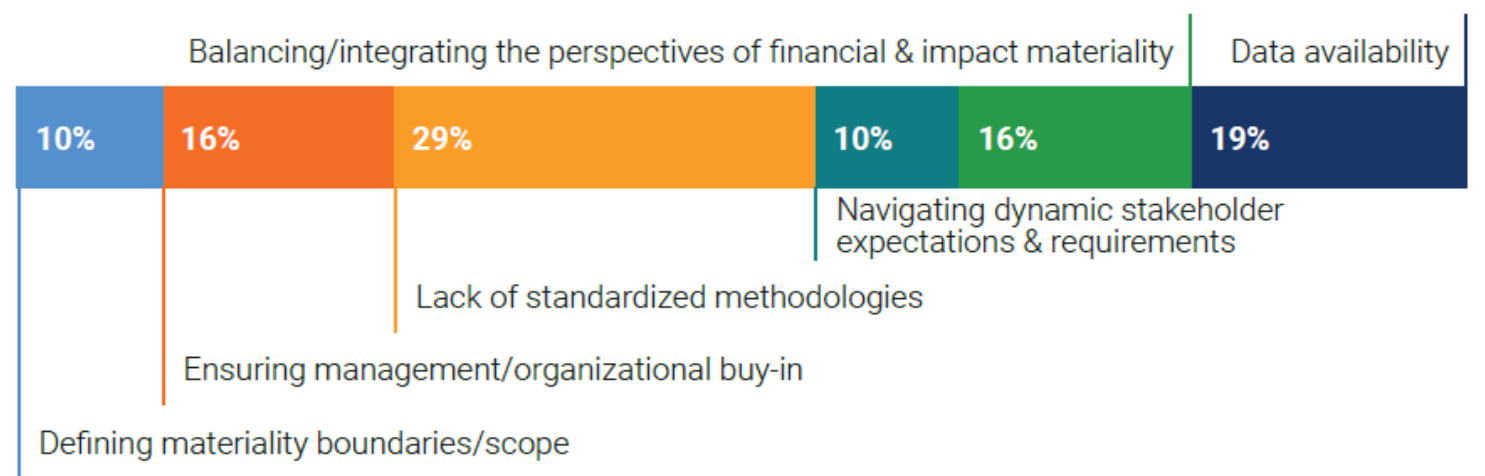
What can be improved? (2/2)



Least reported TCFD pillars are:

1. Climate-related financial disclosures under the **Strategy** (disclosures of the *financial effects* of climate-related risks & opps); and
2. **Risk Management** (*processes* to identify, assess, prioritize and monitor climate-related opportunities)

Implementation challenges (1/3)



Top challenges:

- Lack of standardized methodologies and **challenges with quantifying IROs**
- **Data challenges**
- **Managing stakeholder and shareholder expectations**

Figure 27: Feedback on challenges in double materiality assessments (UNEP FI, 2025)

► [Download Risk Centre Disclosures Landscape Report here.](#)

Implementation challenges (2/3)

Challenges with quantifying IROs & data gaps

Challenges with quantifying IROs

- Ample evidence shows that environmental shocks like those arising from climate change could lead to financial risks
- But quantifying IROs in financial terms to reflect changes in financial position, financial performance, cash flows remains challenging, potentially because:
 1. Difficulties with assessing IROs across varying time horizons
 2. Modelling uncertainties across sectors / regions
 3. Some financial effects from IROs can be seen as more indirect (e.g., changes in liquidity risks / cash flows) or may manifest long-term vs short-term nature of some conventional liquidity assessments
 4. Lack of standardised indicators / clear methodological guidance (i.e., for social risks)

Data gaps

Data gaps could exist due to:

1. Regional disparities in data availability & quality
2. Potential size bias in some ESG ratings
3. Variations in disclosure requirements across jurisdictions could create challenges in cross-comparability of disclosures
4. Lower reliability of some ESG metrics in comparison to traditional financial metrics (e.g., metrics such as the Weighted Average Carbon Intensity (WACI) are highly sensitive to outliers and variations in investment allocations, which can compromise their reliability for assessing climate risks)
5. Access to asset- / facility-level information (e.g., on vulnerabilities) can hinder the assessment of physical risks

Implementation challenges (3/3)

Challenges with managing stakeholder and shareholder expectations

Business is **not going far enough** to address each issue:

Low grievance Moderate grievance High grievance

Affordability

Climate change

Retraining

Misinformation

Discrimination

39 51 64

44 54 62

33 43 56

36 44 55

34 44 53

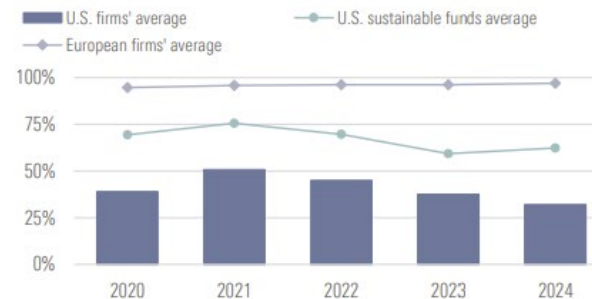
Public sees business climate action as inadequate:

62% of respondents in the 2025 Edelman Trust Barometer strongly believe that businesses are failing to take sufficient action on climate change¹

Annual Support: Environmental Resolutions



Annual Support: Social and Multi-Thematic Resolutions



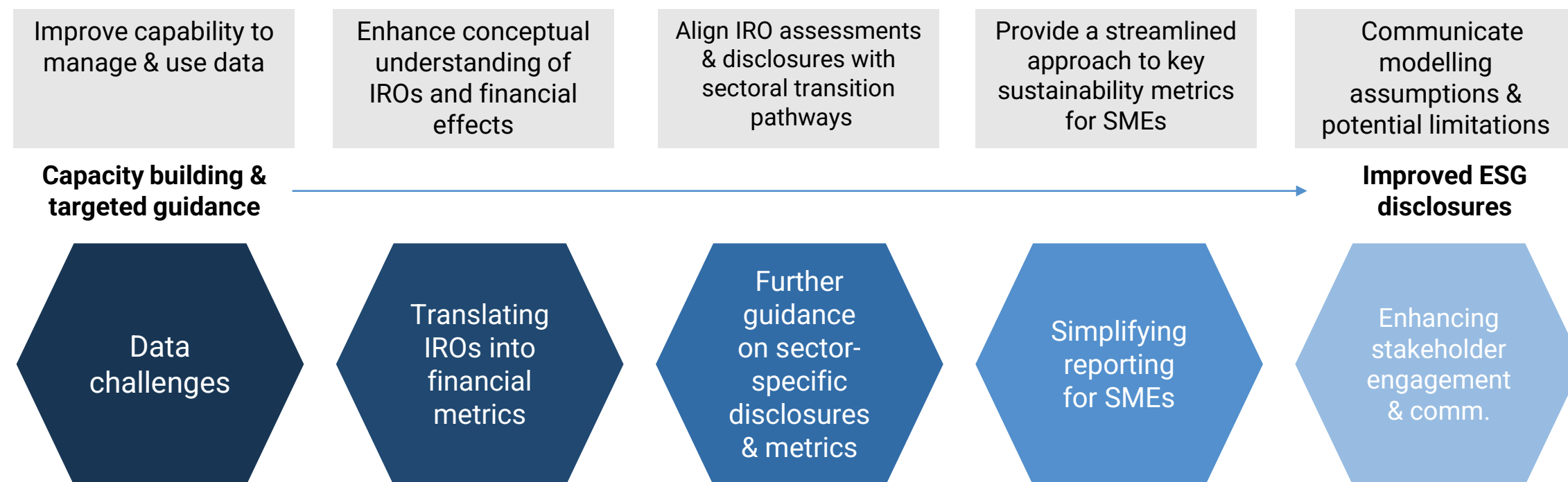
Regional differences in investor attitude:

While European firms' support for significant environmental and social resolutions has remained high, there is a decline in support among firms in the U.S.²

Source: Morningstar proxy voting database, Morningstar Sustainability stewardship research. Data as of Jan. 15, 2025. Note: Data shown is for U.S. environmental and social resolutions with significant independent support for proxy years ended June 30. See Appendix 2 for full methodology.

Essential areas for capacity building & further guidance

The readiness for sustainability disclosures could be improved by enhancing capacity-building & guidance



► [Download Risk Centre Disclosures Landscape Report here.](#)

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— 3 Linking disclosures to climate stress testing

Linking disclosures to climate scenario analysis

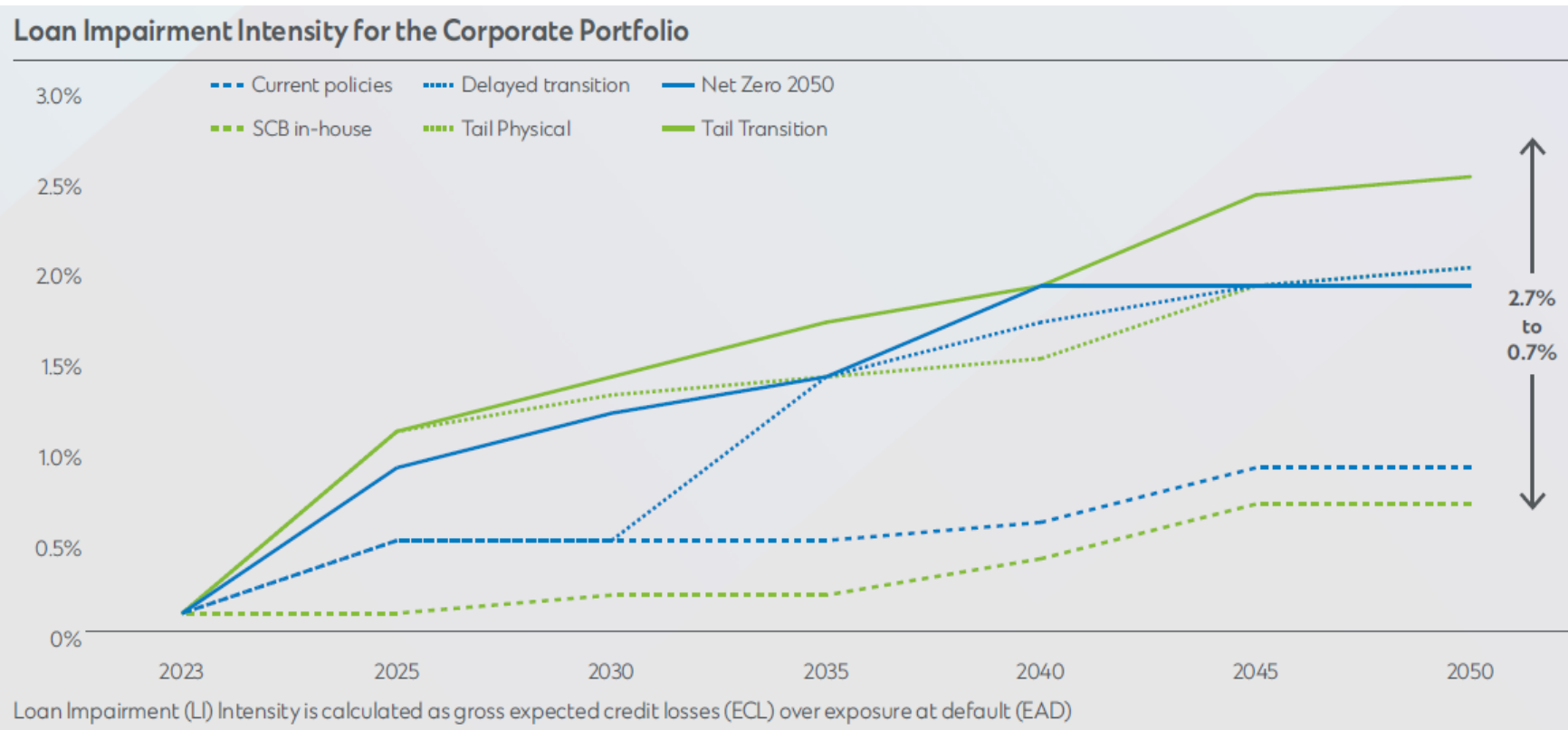
Both disclosures & scenario analysis are essential tools for risk management



- Sustainability-related risk disclosures (incl. transition plans) cover risk, strategy, and governance-related aspects, ensuring that sustainability/ and climate-related topics are addressed
- Regulators and standard setters increasingly expect disclosures to include forward-looking and decision-useful information
- Climate scenario analysis/ stress testing is one of the key tools recommended to meet this expectation, providing insights into plausible potential future outcomes, while disclosures also provide data to support climate scenario analysis / stress testing

Using scenario analysis to quantify climate risks for disclosures

Case example: Measuring climate risks through Loan Impairment Intensity



Climate transition risks are expected to be high in chosen scenarios, while the impact on financials, e.g., credit exposure, is measured by tracking changes in loan impairment (LI) intensity:

- In the **Net Zero 2050 scenario**, LI intensity is high, reflecting higher carbon prices and the cost of shifting to a low-carbon economy;
- In the **bespoke Green Trade War scenario**, LI intensity is even higher, as CBAM and subsidy competition significantly raise transition risk exposure.

Loan Impairment (LI) Intensity estimates the proportion of credit exposure at risk of impairment under chosen climate scenarios.

Download Risk Centre Disclosures Landscape Report [here](#).

— 4 Climate stress testing methodologies

Speakers



Maheen Arshad
Programme Specialist
UNEP FI



Peter Plochan
Principal Risk Management Advisor
SAS



Sara Lambing
Head of Integrated Risk Management
Raiffeisen Bank International AG

Climate Stress Testing Methodologies: Current Practices, Challenges, and the Road Ahead

In collaboration with SAS Institute



Purpose:

- Outlines common approaches and key considerations for climate stress testing.
- Provides an update on the latest climate stress testing practices and lessons learned.
- Highlights areas of further developments and progress.
- Opportunity for methodology benchmarking

Report to be published in
October



Structure:

- Based on insights from a workshop series conducted with Risk Centre participants and guest speakers.
- Examines current methodological practices for climate stress testing.
- Supported with two supplemental documents:
 - Detailed case studies and practical examples
 - Survey results from a joint survey by UNEP FI and SAS



Key Findings:

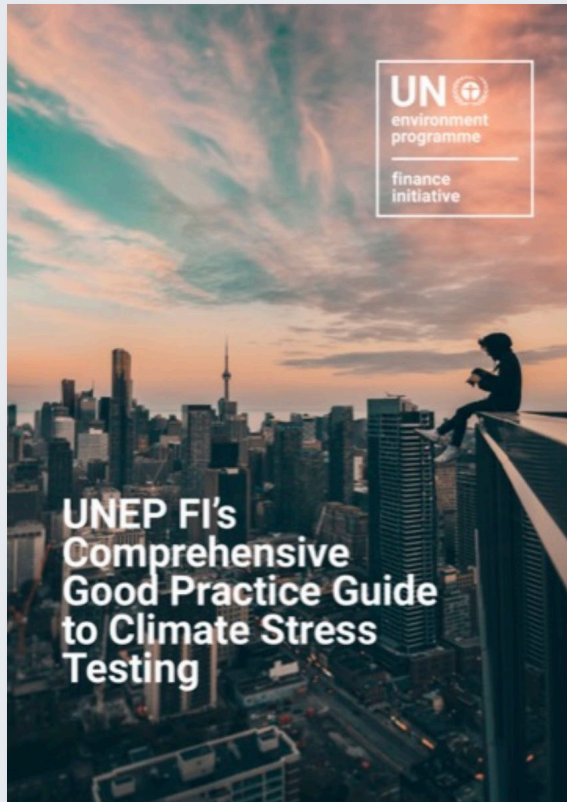
- Despite progress, climate stress testing has **yet to attain the level of sophistication** of traditional stress testing.
- Detailed and location-sensitive methodologies for **modelling physical risk** are developing.
- Capabilities are **more established for credit risk** than for market risk.
- **Integration into BAU risk management** practices is nascent.
- Several key trends will shape the next phase of methodological refinement.

Designed to **support risk professionals** in developing their climate stress testing methodologies and provide findings to assist in meeting supervisory expectations for managing climate risks.

UNEP FI's Resources on Climate Stress Testing

The latest report builds on previous publications on the topic

UNEP FI's Comprehensive Good Practice Guide to Climate Stress Testing - 2021



A Comprehensive Review of Global Supervisory Climate Stress Tests - 2024



Main findings (1 of 5)

Capabilities are more established for credit risk than for market risk.

Modelling transition risk for credit risk stress testing

- **Key takeaway:** Banks are adopting granular, bottom-up approaches to model transition risks.
 - Banks are incorporating:
 - Indirect transmission channels through macroeconomic indicators
 - Direct transmission channels with climate-specific variables
 - These factors are integrated into advanced satellite models to generate climate risk scores at sectoral and portfolio levels.
 - Some banks employ counterparty-level modelling to translate shifts in financial metrics and revenue into credit rating adjustments and PD modifications.
- **Level of Maturity:** Becoming established
Survey results and practical examples available

Modelling physical risk for credit risk stress testing

- **Key takeaway:** A more expansive and geographically granular approach to assessing physical risk-related credit risk has emerged.
 - Most banks perform assessment of corporates at the geographic coordinate level.
 - Geolocation data are more widely available for immovable property collateral, in comparison to location of firms' economic activities through the value chain.
 - Adequately modelling second- and third-order impacts remains a challenge
- Some banks assess clients' adaptive capacity and some banks are incorporating insurance considerations to a certain extent.
- **Level of Maturity:** Becoming established
Case studies and survey results available

Approaches for market risk-related climate stress testing

- **Key takeaway:** Climate stress testing methodologies for market risk remains under-developed.
 - Methodologies focus on translating scenario variables into market risk drivers but lack granularity to reflect impacts across asset class, market structure, activity, and market liquidity.
 - Metrics that can be used to quantify the financial impact are P&L, RWA and Climate VaR.
- **Level of Maturity:** Nascent
Case study and practical examples available

Main findings (2 of 5)

Banks are increasingly conducting internal climate stress tests to support risk management, in addition to supervisory exercises.

1. Climate scenarios used as inputs:

- **Key takeaway:** Choice of climate scenarios differs by the time horizon.
 - IPCC SSP5-8.5, IPCC SSP2-4.5, and NGFS Current Policies scenarios are common long-term physical risk scenarios used.
 - NGFS Delayed, Net Zero, and Below 2 Degrees scenarios are common long-term transition risk scenarios used.
 - Internally developed short-term scenarios are commonly used to assess short-term climate risks.
- **Level of Maturity:** Becoming established

2. Modelled Results:

- **Key takeaway:** Increased use of BAU risk indicators by banks to measure the impact of climate risk.
 - Most common exposure metrics, KPIs and KRIs on which banks estimate the impact of climate risk are:
 - ECL
 - RWA/Capital
 - P&L
- **Level of Maturity:** Becoming established

Survey results and practical examples available

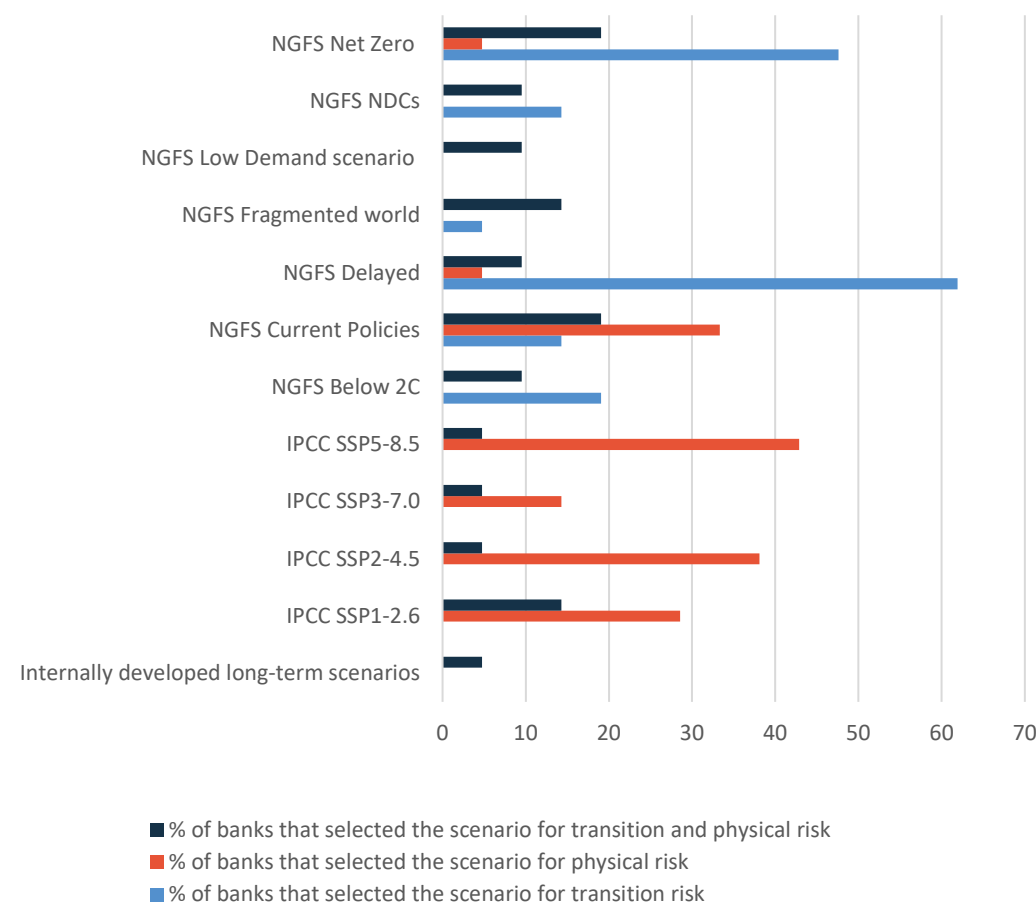


Figure: Climate scenarios used by banks for long-term climate scenario analysis

Main findings (3 of 5)

Banks only at an early stage of embedding climate risk models into their Model Risk management frameworks

Climate risk models and Model Risk Management

- **Key takeaway:** Banks have yet to start incorporating regulatory & MRM considerations into their climate risk management frameworks
 - Sensitivity analysis on the impact of scenario & model choices remains a niche practice
 - Focusing on defining and classifying climate models used.
 - Extending existing, validated BAU risk models with climate-related modules or overlays.
 - Conducting internal validation of bespoke climate risk models, often developed in-house or with limited reliance on vendor tools.
- **Level of Maturity:** Nascent

Survey results and practical examples available

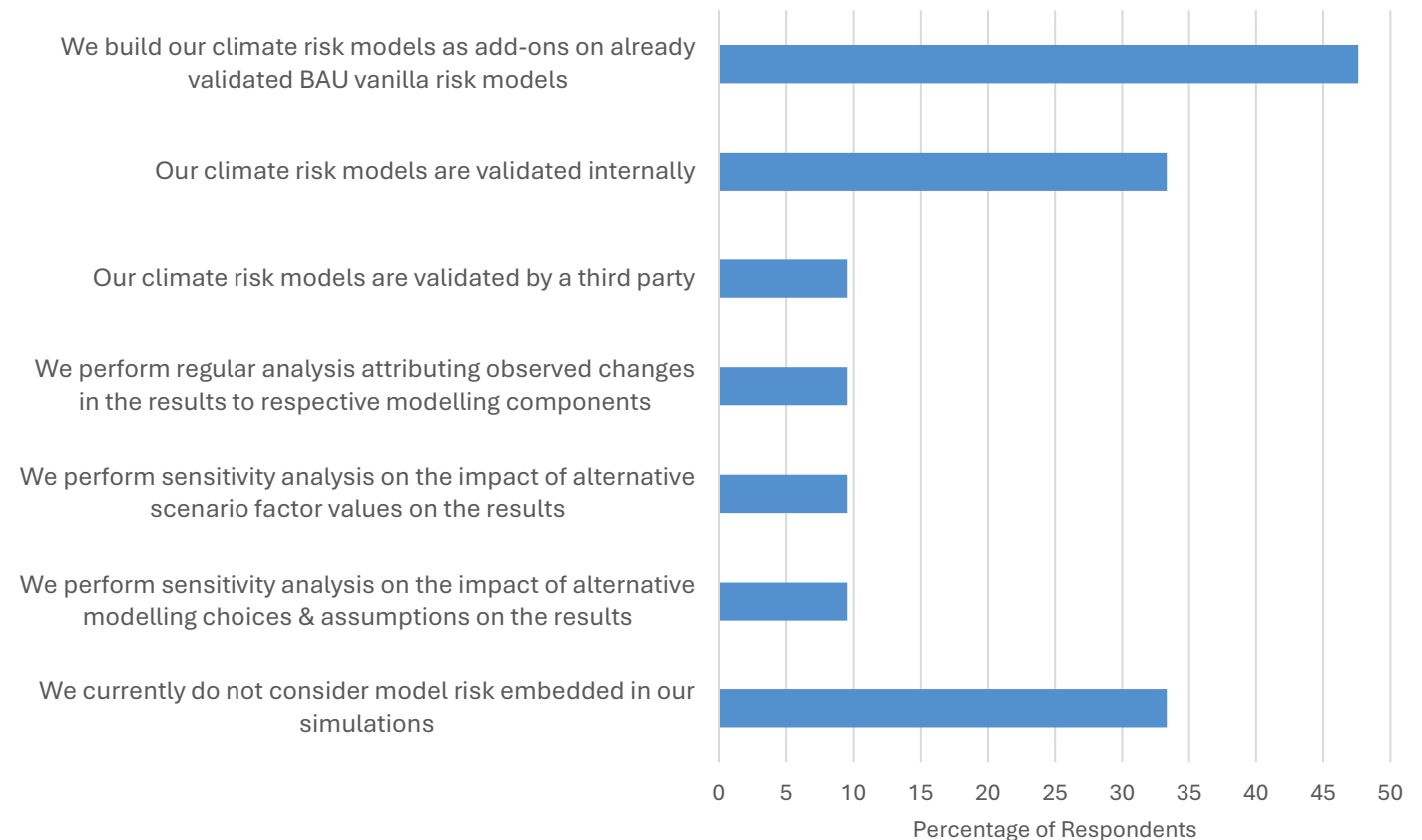


Figure: Approaches used to address model risk in simulation

Main findings (4 of 5)

Broader adoption of climate-related regulations and interoperable practices can help embed climate considerations more effectively into risk management processes

Integrating Climate Stress Testing into Business-as-Usual Risk Management and Portfolio Decarbonization Efforts

- **Key takeaway:** Progress in embedding climate stress testing into BAU stress testing, risk management, and capital management varies across banks.
 - Increasingly, banks view climate risk not as an isolated issue but as a key driver influencing broader financial risks.
 - Banks are working to integrate climate risk drivers into PD and LGD models, with implementation expected by many within the next one to three years.
- Apart from regulatory stress testing requirements, banks are conducting climate scenario analysis to:
 - Identify sustainable finance opportunities
 - Engage clients on transition pathways
 - Set credible decarbonization targets
- **Level of Maturity:** Nascent

Survey results and practical examples available

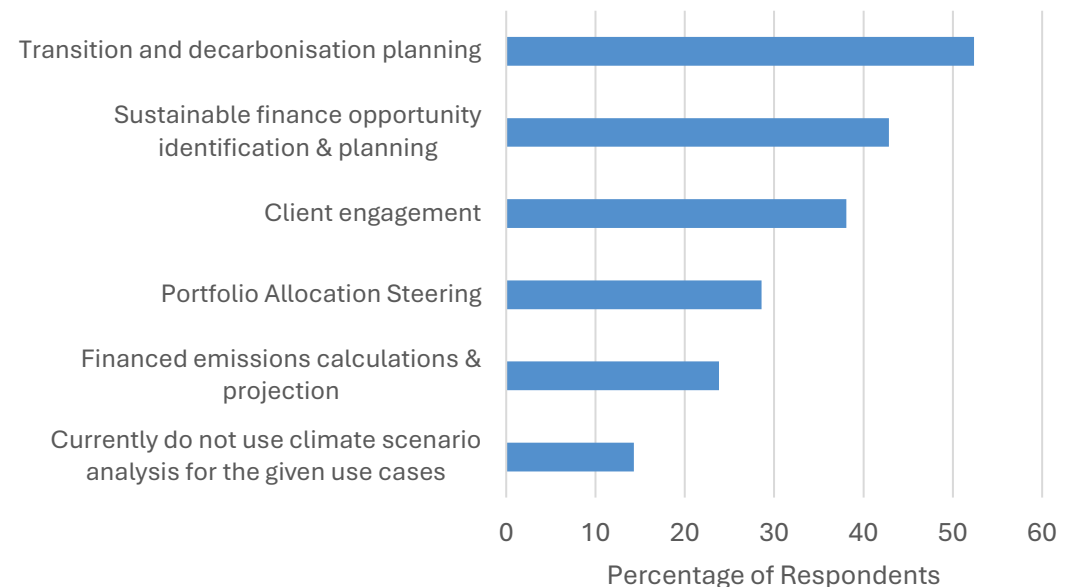


Figure: Use cases for climate scenario analysis

Main findings (5 of 5)

Current infrastructure support for performing climate stress testing remains insufficient

Robust & latest infrastructure combined with a more integrated stress testing approach can support banks in addressing number of the identified challenges:

- **Key takeaways:**
 - Improving transparency and **automating sensitivity analysis** helps to assess impact of various scenarios, modelling choices and address Model Risk
 - The extent of integration with existing forward-looking activities defines the **synergy and automation benefits** that can be achieved
 - High-performance technology assists banks in exploring more sophisticated & accurate approaches (dynamic balance sheet, lower granularity...)
 - Speeding up the process helps to explore additional use cases and generate **more business value** (e.g. assessing impact of alternative actions & strategies)

Survey results and case study available

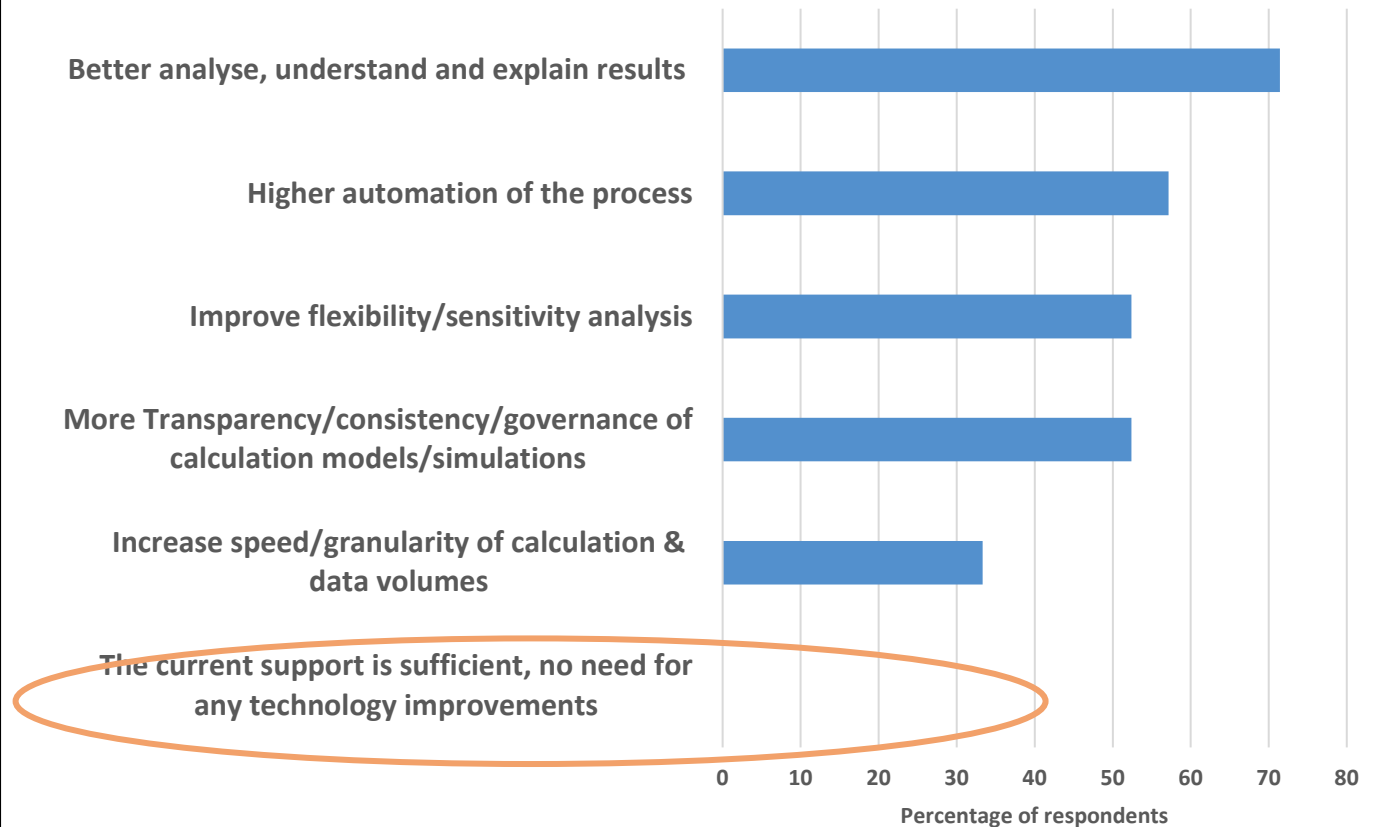


Figure: Identified technology benefits and areas of support

Next Steps and Areas of Developments (1 of 2)

Several key trends are expected to shape the next phase of methodological refinement



Integration of climate risk
into business and wider
sustainability risks



Next-Generation Climate
Scenario analysis, covering
scenario design, short-term
scenarios, utilizing latest
technologies such as AI/ML



Improvements in
modelling approaches,
related to physical risk
modelling, understanding
transmission channels and
new data sources



Governance, covering
climate model validation
and model risk, adoption
of more sophisticated
governance standards,
and Board accountability



Reporting of climate stress
testing results, with
alignment of public
disclosures with IFRS S2

Next Steps and Areas of Developments (2 of 2)

Reflections from a UNEP FI member



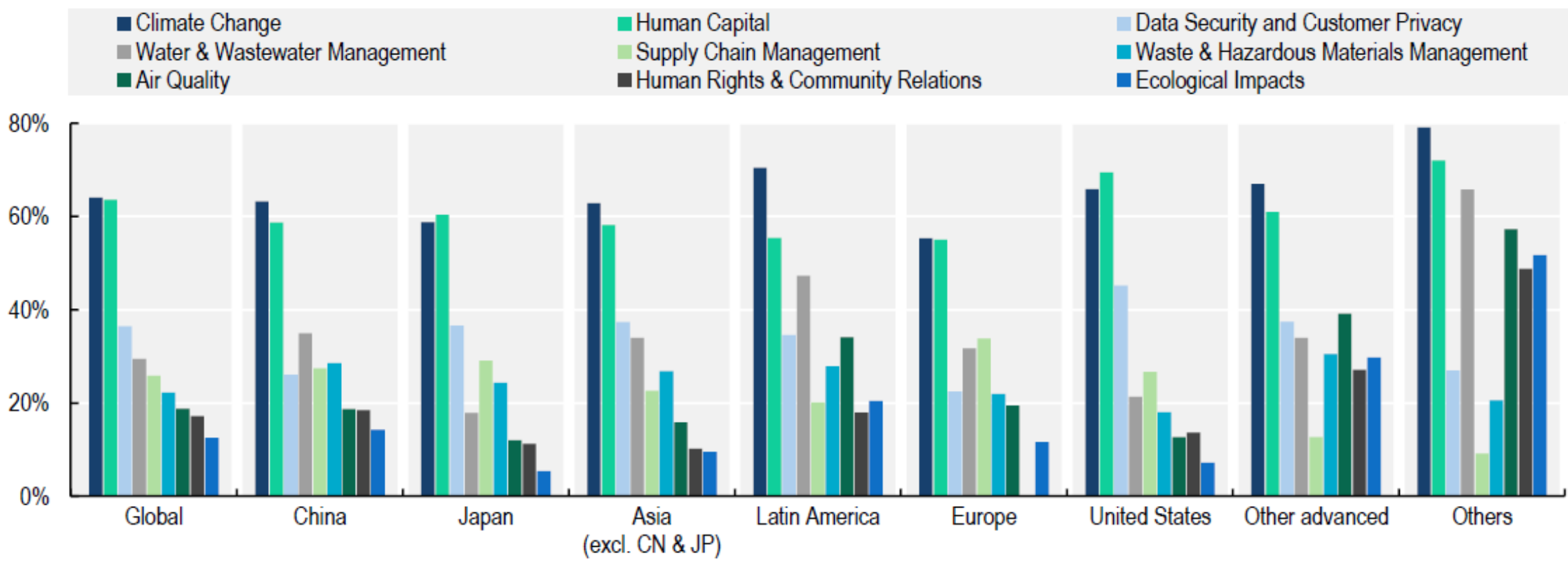
— 5 Discussion, Q&A



What could be financially material risks for businesses?

Climate change & human capital pose financially material risks

Sustainability-related risks considered as financially material for companies¹



1) [OECD, 2024](#)

Integration of sustainability risk & opp disclosures in regulations / regulatory guidance (1/4)

Jurisdiction	Name of the Regulations / Guidance / Rules	Mandatory / Voluntary	Effective Dates	Affected Entities
Australia	Australian Accounting Standards Board (AASB)'s AASB S1 and AASB S2 (based on IFRS S1 & S2)	AASB S1 is voluntary whereas AASB S2 is mandatory for certain entities	Commencement dates range from 2025 to 2027	Entities that are required to prepare a sustainability report containing climate-related financial information under Chapter 2M of Corporations Act 2001
Bangladesh	Guideline on Sustainability and Climate-related Financial Disclosure published by Bangladesh Bank (based on IFRS S1 & S2)	Mandatory	Commencement dates range from 2024 to 2027	Banks and finance companies
Brazil	Comitê Brasileiro de Pronunciamentos de Sustentabilidade (CBPS)'s CBPS 01 and CBPS 02 (based on IFRS S1 & S2)	Mandatory	From 2026	Publicly held companies registered with the Brazilian Securities and Exchange Commission (CVM)
Canada	The Canadian Sustainability Disclosure Standards (CSDSs), including CSDS 1 and CSDS 2 (based on IFRS S1 & S2)	Voluntary unless mandated by provincial and territorial regulators	From 2025	Not specified
China	Basic Guidelines for Corporate Sustainability Disclosure	Expected to become mandatory	To be defined	To be defined - expected to include listed and listed companies, including small and medium-sized enterprises (SMEs)
European Union	European Sustainability Reporting Standards (ESRS) (EUR-Lex, 2023)	Mandatory	Commencement dates range from 2025 to 2027	Large public-interest entities, large undertakings that are not public interest entities

Integration of sustainability risk & opp disclosures in regulations / regulatory guidance (2/4)

Jurisdiction	Name of the Regulations / Guidance / Rules	Mandatory / Voluntary	Effective Dates	Affected Entities
Hong Kong, China	Hong Kong Financial Reporting Standard Sustainability Disclosure Standards (HKFRS SDS), including HKFRS S1 and HKFRS S2 (fully aligned with IFRS S1 & S2)	Mandatory	Commencement dates range from 2025 to 2028	Large listed issuers, non-listed financial institutions carrying a significant weight
India	Business Responsibility and Sustainability Report (BSBR) Issued by the Securities and Exchange Board of India (SEBI)	Mandatory	From financial year 2022-2023 and onwards	Top 1000 listed entities by market capitalization (SEBI, 2021).
Indonesia	Pernyataan Standar Pengungkapan Keberlanjutan (PSPK), including PSPK 1 and PSPK 2 (based on IFRS S1 & S2)	To be determined	From 2027 (proposed)	To be determined
Japan	The Sustainability Standards Board of Japan (SSBJ) Standards (based on IFRS S1 & S2)	To be determined – The SSBJ Standards were developed under the assumption that SSBJ Standards would eventually be required	To be determined	Prime Market listed companies (anticipated)

Integration of sustainability risk & opp disclosures in regulations / regulatory guidance (3/4)

Jurisdiction	Name of the Regulations / Guidance / Rules	Mandatory / Voluntary	Effective Dates	Affected Entities
Jordan	Amman Stock Exchange Climate-related Disclosures Regulatory Framework	The regulatory framework only mandates IFRS S2 and the climate-relevant portions of IFRS S1	2026 (voluntary), 2027 (mandatory)	Companies listed on ASE20 Index of the Amman Stock Exchange
Malaysia	The National Sustainability Reporting Framework (NSRF) using IFRS S1 & S2 as baseline	Mandatory	Commencement dates range from 2025 to 2027	Main market and ACE-listed issuers, large non-listed companies
Nigeria	IFRS Sustainability Disclosure Standards	Mandatory	Commencement dates range from 2028 to 2030	Public interest entities (from 2028), SMEs (from 2030)
Pakistan	IFRS Sustainability Disclosure Standards	Mandatory	Commencement dates range from 2025 to 2027	Listed companies, unlisted public interest companies
Singapore	IFRS Sustainability Disclosure Standards	Mandatory	Commencement dates range from 2025 to 2026	All issuers

Integration of sustainability risk & opp disclosures in regulations / regulatory guidance (4/4)

Jurisdiction	Name of the Regulations / Guidance / Rules	Mandatory / Voluntary	Effective Dates	Affected Entities
Switzerland	The Swiss Code of Obligations (Art. 964a-c et seq.) ; and Ordinance on Climate Disclosures Based on latest consultation outcome, the Swiss Federal Council should not be allowed to specify any equivalent standards other than the ESRS) (Bundesamt für Justiz, 2025).	Mandatory	Commencement dates range from 2022 to 2024	Public interest entities that meet certain thresholds concerning company size, balance sheet total, or sales
Türkiye	The Turkish Sustainability Reporting Standards (TSRS), including TSRS 1 and TSRS 2 (based on IFRS S1 & S2)	Mandatory	From January 2024	Listed companies, certain banks and non-bank financial institutions (NBFIs)
United Kingdom of Great Britain & Northern Ireland	UK Sustainability Reporting Standards (UK SRS) Based on IFRS S1 & S2, with amendments concerning transition relief, requirements to use the Global Industry Classification Standard (GICS), among others.	To be determined	To be determined (consultation on exposure drafts of UK SRS S1 and UK SRS S2 until 17 September 2025)	Listed companies in the United Kingdom of Great Britain & Northern Ireland (United Kingdom), potentially companies that do not fall within the Financial Conduct Authority (FCA)'s regulatory perimeter
United States of America	The United States of America Securities and Exchange Commission (US SEC) climate disclosure rules / The Enhancement and Standardization of Climate-Related Disclosures for Investors	To be determined	To be determined (litigation pending, US SEC paused legal defence)	US SEC registrants (litigation pending, US SEC paused legal defence)
California (United States of America)	California Senate Bills SB-219 , SB-253 , SB-261	Mandatory	Commencement dates range from 2026 to 2027	Certain companies meeting thresholds on total annual revenues and doing business in California