



Application Paper on the Supervision of Climate-related Risks in the Insurance Sector

In April 2025 the IAIS published a comprehensive <u>Application</u>

Paper on the supervision of climate-related risks in the insurance sector. The 2025 publication replaces this paper.





About the IAIS

The International Association of Insurance Supervisors (IAIS) is a voluntary membership organisation of insurance supervisors and regulators from more than 200 jurisdictions. The mission of the IAIS is to promote effective and globally consistent supervision of the insurance industry in order to develop and maintain fair, safe and stable insurance markets for the benefit and protection of policyholders and to contribute to global financial stability.

Established in 1994, the IAIS is the international standard setting body responsible for developing principles, standards and other supporting material for the supervision of the insurance sector and assisting in their implementation. The IAIS also provides a forum for Members to share their experiences and understanding of insurance supervision and insurance markets.

The IAIS coordinates its work with other international financial policymakers and associations of supervisors or regulators, and assists in shaping financial systems globally. In particular, the IAIS is a member of the Financial Stability Board (FSB), member of the Standards Advisory Council of the International Accounting Standards Board (IASB), and partner in the Access to Insurance Initiative (A2ii). In recognition of its collective expertise, the IAIS also is routinely called upon by the G20 leaders and other international standard setting bodies for input on insurance issues as well as on issues related to the regulation and supervision of the global financial sector.

About the SIF

The UN-convened Sustainable Insurance Forum (SIF) is a leadership group of insurance supervisors and regulators working together to strengthen their understanding of and responses to sustainability issues facing the insurance sector. The long-term vision of the SIF is a global insurance system where sustainability factors are effectively integrated into the regulation and supervision of insurance companies. The United Nations Development Programme (UNDP) serves as the Secretariat for the UN-convened SIF. The SIF works closely with the IAIS, delivering collaborative projects and research on climate change issues. As of May 2021, the SIF has 31 jurisdictions as members.

Application Papers provide supporting material related to specific supervisory material (ICPs and/or ComFrame). Application Papers could be provided in circumstances where the practical application of principles and standards may vary or where their interpretation and implementation may pose challenges. Application Papers do not include new requirements, but provide further advice, illustrations, recommendations or examples of good practice to supervisors on how supervisory material may be implemented. The proportionality principle applies also to the content of Application Papers.

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Acronyms

A2ii Access to Insurance Initiative

ACPR Autorité de Contrôle Prudentiel et de Résolution

ALM Asset-liability management

BaFin Bundesanstalt für Finanzdienstleistungsaufsicht (Federal Financial

Supervisory Authority)

BMA Bermuda Monetary Authority

BNM Bank Negara Malaysia

CSR Corporate social responsibility

ComFrame Common Framework for the Supervision of Internationally Active Insurance

Groups

DNB De Nederlandsche Bank (Dutch Central Bank)

EIOPA European Insurance and Occupational Pensions Authority

ERM Enterprise risk management

ESG Environmental, social and governance

EU European Union

FSB Financial Stability Board

GHG Greenhouse gas emission

IAIS International Association of Insurance Supervisors

IAIG Internationally Active Insurance Group

ICP Insurance Core Principle

IDF Insurance Development Forum

IPCC Intergovernmental Panel on Climate Change

IST Industrywide Stress Test

ND-GAIN Notre Dame Global Adaptation Initiative IndexNGFS Network for Greening the Financial System

OECD Organisation for Economic Co-operation and Development

ORSA Own risk and solvency assessment

PACTA Paris Agreement Capital Transition Assessment

SIF Sustainable Insurance Forum

TCFD Task Force on Climate-related Financial Disclosures

UK PRA United Kingdom Prudential Regulation Authority

UN United Nations

UNEP United Nations Environment Programme

US NAIC United States National Association of Insurance Commissioners





1 Introduction

1.1 Context and objective

- 1. Climate change is recognised as an overarching global threat. It impacts human, societal, environmental and economic systems, through rising temperatures and their consequences, including rising sea levels and an increasing frequency/severity of natural catastrophes and extreme weather events. Climate change, as well as the global response to the threats posed by climate change (eg the reduction of greenhouse gas emissions (GHG) and adaptation programmes) may have wide-ranging impacts on the structure and functioning of the global economy and financial system.
- 2. There is growing recognition that climate change and climate-related risks are a source of financial risk, having an impact on the resilience of individual financial institutions, including insurers, as well as on financial stability. Climate-related risks are material for the insurance sector as they impact the insurability of policyholder property and assets as well as insurers' operations and investments. Therefore, supervisors should identify, monitor, assess and contribute to the mitigation of the risks from climate change to the insurance sector. Climate change also presents opportunities for the insurance sector: the insurance industry plays a critical role in the management of climate-related risks in its capacity as an assessor, manager and carrier of risk and as an investor, and is uniquely qualified to understand the pricing of risks. Notably, through risk-based pricing, insurers provide critical economic signals regarding the changing risk environment. Insurers can also help build resilience through (inclusive) insurance.²
- 3. An adequate response from supervisors to both the risks and opportunities from climate change will support the objectives of insurance supervision of protecting policyholders, contributing to financial stability and promoting the maintenance of a fair, safe and stable insurance market (see Insurance Core Principle (ICP) Standard 1.2).
- 4. This Application Paper aims to support supervisors in their efforts to integrate climate risk considerations into the supervision of the insurance sector. It provides background and guidance on how the IAIS supervisory material can be used to manage the challenges and opportunities arising from climate-related risks. Application Papers do not establish standards or expectations, but instead provide additional guidance to assist implementation and provide examples of good practice. This Paper thereby also aims to promote a globally consistent approach to addressing climate-related risks in the supervision of the insurance sector. This, however, is an iterative and dynamic process given that the understanding of the challenges and opportunities presented by climate-related risks will improve and evolve as the guidance provided is increasingly embedded in supervisory practices.

1.2 Related work by the SIF and IAIS

5. Since initiating a strategic partnership with the Sustainable Insurance Forum (SIF) in 2017, the International Association of Insurance Supervisors (IAIS) has identified climate risk

¹ See NGFS (2019), <u>First comprehensive report: A call for action, Climate change as a source of financial risk;</u> and BIS / Banque de France (2020), <u>The green swan, Central banking and financial stability in the age of climate change.</u>

² See Access to Insurance Initiative (A2ii), https://a2ii.org/en/knowledge-center/climate-riskdisaster-insurance.





and sustainability as a strategic focus. In July 2018, the SIF and the IAIS released a joint Issues Paper on Climate Change Risks to the Insurance Sector ("2018 Issues Paper"). As a follow-up, the SIF and IAIS published a second Issues Paper in February 2020 on the Implementation of the Recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) ("2020 Issues Paper").3

1.3 Proportionality

6. IAIS Application Papers should be read in the context of the proportionality principle, as described in the Introduction to ICPs: "Supervisors have the flexibility to tailor their implementation of supervisory requirements and their application of insurance supervision to achieve the outcomes stipulated in the Principle Statements and Standards." When reading the advice, illustrations, recommendations and examples of good practice provided in this Paper, it is important to keep proportionality in mind. Where appropriate, this Paper provides practical examples of the application of the proportionality principle.

1.4 Terminology

7. In this Application Paper, all terms have the same meaning as set out in the IAIS Glossary and the Introduction to the ICPs. To facilitate the understanding of the Paper, definitions of terms that are used frequently and are not part of the IAIS Glossary, are shown in the table below.

Table 1: List of climate-related terms

Term	Definition
Climate change	The warming of the world's climate system, including its atmosphere, oceans, and land surfaces.
Sustainability risk	Risks associated with environmental, social or governance (ESG) factors.
	Climate-related and other environmental risks are a subset of sustainability risks.
Climate- related risk/ climate risk	Risk posed by the exposure of an insurer to physical, transition and/or liability risks caused by or related to climate change. These terms are used interchangeably in this Paper.
Environmental risk	Risks posed by the exposure of an insurer to activities that may potentially cause or be affected by environmental degradation.

³ The 2018 and 2020 Issues Papers are available at https://www.iaisweb.org/page/supervisory-material/issues-papers/.

⁴ "Implementation - proportionality allows the ICPs to be translated in to a jurisdiction's supervisory framework in a manner appropriate to its legal structure, market conditions and consumers. Application - proportionality allows the supervisor to increase or decrease the intensity of supervision according to the risks inherent to insurers, and the risks posed by insurers to policyholders, the insurance sector or the financial system as a whole. A proportionate application involves using a variety of supervisory techniques and practices that are tailored to the insurer to achieve the outcomes of the ICPs. Such techniques and practices should not go beyond what is necessary in order to achieve their purpose."





Liability risk	The risk of climate-related claims under liability policies, as well as direct actions against insurers, for failing to manage climate risks.
Physical risk	Risk arising from increased damage and losses from physical phenomena associated with both climate-related trends (eg changing weather patterns, sea level rise) and events (eg natural disasters, extreme weather).
Transition risk	Risk arising from disruptions and shifts associated with the transition to a low-carbon economy, which may affect the value of assets or the costs of doing business.

1.5 Scope

- 8. Climate-related risks may affect the supervision of insurers in many ways. Therefore, an Application Paper on this topic could theoretically deal with a great number of ICPs. For the purpose of focusing the content of the Paper, the following ICP topics are in scope:
 - ICP 9 (Supervisory Review and Reporting);
 - ICP 7 (Corporate Governance);
 - ICP 8 and 16 (Risk Management);
 - ICP 15 (Investments); and
 - ICP 20 (Disclosures).
- 9. The ICPs listed above all contain ComFrame standards (Common Framework for the Supervision of Internationally Active Insurance Groups (IAIGs)), with the exception of ICP 20. ComFrame builds on, and expands upon, the high-level standards and guidance set out in the ICPs. The ICPs generally apply to the insurance sector as a whole, both on a legal entity and group-wide level, and both to primary insurers and reinsurers. The primary aim of this Paper is to provide guidance for supervisors in implementing the ICPs.
- 10. The SIF and IAIS recognise that several ICPs, not in scope for this Paper, do have relevance for assessing and mitigating climate-related risks. These may be covered in future work, or are already covered by other work and include:
 - ICPs 14 and 17 (Valuation and Capital requirements): Since ICPs 14 and 17 are scheduled to be revised in the coming years (during the monitoring period of the Insurance Capital Standard Version 2.0), developing an Application Paper related to these ICPs at this time would not be appropriate;
 - ICP 19 (Conduct of business): Conduct of business is especially relevant in terms of
 possible reputational risk and the risk of "green washing".⁵ Inclusion of ICP 19,
 however, does not naturally fit with the other identified topics, which instead all relate
 to prudential supervision. For the purpose of this Paper, it is therefore out of scope;
 and
 - ICP 24 (Macroprudential supervision): Climate change has system-wide implications. Supervisory (macroprudential) stress testing is one tool to measure the potential impact of climate change on the insurance sector as a whole. At the time of this Paper's development, the IAIS is also developing an Application Paper specifically dealing with ICP 24; therefore, this ICP is not in scope. That Paper provides examples of the various

⁵ Greenwashing refers to the process of conveying a false impression or providing misleading information about how a company's products or services are more environmentally sound, eg spending more on the marketing around it than on actually reducing its environmental impact.





macroprudential tools that a supervisor may use, many of which are helpful to assess climate-related risks.

11. Another important area not in scope relates to the availability and affordability of insurance due to an increase in weather-related events and natural catastrophes. To reduce its exposure to climate-related risks, an insurer may take a number of actions, including to: stop offering insurance to a certain group of policyholders; significantly increase premiums; lower policy limits; or exclude cover for specific perils and/or promote risk reduction measures by policyholders. While justifiable from a microprudential perspective, some actions taken may potentially introduce undesirable socio-economic results in the near-term. New forms of public-private partnerships are emerging that can help jurisdictions absorb the financial consequences of catastrophic weather-related events. Supervisors can act as a bridge and communication catalyst between policymakers, the insurance industry and consumers. Bodies such as the Insurance Development Forum (IDF) and the Access to Insurance Initiative (A2ii) are actively engaging insurers and supervisors in this area.⁶

2 Role of the Supervisor

12. As noted in the Introduction, climate-related risks are a source of financial risk, which may translate into prudential risks to insurers – ie may affect the resilience of insurers (see Table 2). It is recommended that supervisors assess the extent to which climate-related risks are likely to be material to insurers operating in their jurisdiction and to determine how these risks may be transmitted to their economies and financial sectors more broadly. Supervisors should identify how climate-related risks are relevant to their supervisory objectives. In recent years, some supervisors have expanded their objectives to include sustainability.

Table 2: Climate-related risks and selected prudential risks

Prudential risks	Potential impact from climate change
Investment risk	The value of an insurer's investment portfolio may be affected if invested in sectors or assets, which may be at risk from either physical or transition-related factors.
Liquidity risk	A lack of reliable and comparable information on climate-sensitive exposures could create uncertainty and cause procyclical market dynamics, including fire sales of carbon-intensive assets, and hence reduce liquidity of these markets.
	In addition, the uncertainty in future experience that may result from climate change could lead to a volatile claims experience. This may, in turn, lead to inadequate liquid resources and the potential need to dispose of assets on unfavourable terms.
Operational risk	Physical climate impacts may affect the insurer's own assets (including property, equipment, IT systems and human resources), leading to increased operating costs, inhibited claims management

⁶ See https://www.insdevforum.org/ and footnote 2 for the link to the A2ii website.

⁷ For a further elaboration on how climate-related risks and environmental risks may translate into risks for the financial sector and real economy, see NGFS (2020), <u>Guide for Supervisors on Integrating climate-related and environmental risks in prudential supervision</u>





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	capacity, or potentially stoppages of operations. It may also impact outsourced activities.
Reputational risk	Negative publicity may be triggered by insurers underwriting, or investing in, sectors perceived as contributing to climate change. This is exemplified by social movements calling for divestment from fossil fuels and the cessation of underwriting of coal-fired power infrastructure. Further, reductions in affordability or availability of insurance cover as insurers respond to climate risk may also lead to negative reputational impact, for instance if insurers are perceived to increase prices substantially or withdraw coverage to certain counterparties without there being an appropriate alternative.
Strategic risk	Physical or transition-related climate events, trends and uncertainty about future scenarios may present strategic challenges to insurers, which could inhibit or prevent an insurer from achieving its strategic objectives.
Underwriting risk	Climate change increases the frequency, severity and concentration of weather-related insurance claims, as well as the level of variability. If the impact of climate change is not properly accounted for, underwriting may underestimate the risks to which an insurer is exposed in writing a particular insurance policy.
	Additionally, liability policies may also give rise to prudential impacts through underwriting risk.

Sources: 2018 IAIS/SIF Issues Paper and Network for Greening the Financial System (NGFS) (2020).

2.1 Preconditions and resources

- 13. As highlighted in the ICP Assessment Methodology, an effective system of insurance supervision requires a number of preconditions to be in place. Although normally outside the control or influence of the supervisor, such preconditions can be taken into account in the development of supervisory practices as they relate to climate-related risks. The following categories of preconditions may be of particular relevance:
 - Sound and sustainable macroeconomic and financial sector policies, eg the introduction of a globally-agreed carbon pricing system;
 - A well-developed public infrastructure, eg the existence of levees against rising sea levels as part of adaptation programmes, or the existence of strong building codes that facilitate sustainable structures;
 - Efficient financial markets, eg the adoption of a globally accepted framework for sustainability standards; or
 - Effective market discipline in financial markets, eg the extent to which non-financial
 private sector participants have implemented climate-related disclosures, and the
 existence of independent sustainability ratings that are comparable, reliable and
 accessible.

⁸ See https://www.iaisweb.org/page/supervisory-material/insurance-core-principles-and-comframe





As indicated in paragraph 53 of the Assessment Methodology, where shortcomings exist, the supervisor should make its government aware of these and their actual or potential repercussions for the achievement of supervisory objectives and seek to mitigate the effects of such shortcomings on the effectiveness of supervision.

- 14. Sufficient resources are important to enable effective supervision (see ICP 2 (Supervisor)). In terms of a rapidly evolving risk, such as climate risk, this entails providing adequate training opportunities for supervisory staff. As capability to assess climate risk is still developing, supervisors may find it of assistance to use external resources, including materials produced by international organisations (eg the Network for Greening the Financial System (NGFS), A2ii, IAIS and SIF) or collaborate with external stakeholders (eg Non-Governmental Organisations, think-tanks, government departments, environmental and climate science experts and/or financial sector participants).
- 15. Different approaches may be used to embed climate risk into the organisation of the supervisor. The NGFS distinguishes between three approaches that could be considered, depending on the circumstances:
 - <u>Internal network approach:</u> establishing flexible structures such as internal networks, which can promote knowledge sharing and improve coordination. This structure would typically involve staff from different departments for which climate risk is only part of their responsibilities, and hence is least resource-intensive;
 - Hub and spoke approach: putting in place a central team or unit working full-time on climate-related risks and one or more contact persons in each of the relevant departments to facilitate feedback loops and dissemination of information across the supervisory authority; or
 - <u>Dedicated unit approach:</u> creating a dedicated unit as the main source of general expertise on climate risk, with the mandate to coordinate issues related to climate and/or sustainability across all departments.
- For example, the French Autorité de Contrôle Prudentiel et de Résolution (ACPR) has 16. set up a sustainable finance network in order to exchange information regularly between it and the central bank. The German Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin) established an internal sustainable finance network, which facilitates information exchange across the different sectors and helps achieve a consistent approach. The Bermuda Monetary Authority (BMA) has a standing, internal working group on ESG issues that has dedicated subprojects with clear overarching targets beyond collaboration and information exchange. The Bank of England's Prudential Regulation Authority (UK PRA) set up a Climate Hub to lead on the Bank's policy response to the risks from climate change and embed climate risk within the supervisory approach. The Hub takes a strategic and coordinating role and, in collaboration with the various directorates, contributes to the Bank's involvement in national and international initiatives. Finally, Bank Negara Malaysia (BNM)'s climate strategy is supported by internal workstreams across different aspects of central banking - namely supervisory, regulatory, macrosurveillance, monetary policy and treasury operations as well as the Bank's own operations. A regulator-industry platform has been formed to drive and support readiness of the financial sector in managing risks associated with climate risk and in supporting the transition to a low carbon economy.





2.2 Supervisory review and reporting

- 17. ICP 9 (Supervisory Review and Reporting) focuses on the general processes and procedures supervisors should have in place with respect to supervisory reviewand reporting. ICP 9 therefore provides for a natural starting point for supervisors who want to integrate climate-related risks into their supervisory framework, in terms of integrating this into supervisory plans, obtaining the necessary qualitative and quantitative information on climate-related risks and methods for supervisory feedback and follow-up.
- 18. Guidance in ICP 9.1 notes the need for the supervisory review and reporting framework, including the supervisory plans, to be reviewed and take account of evolving risks. It is clear that climate risk is an example of such an evolving risk and should be considered. As indicated above, the starting point would be the assessment of the materiality of climate-related risks to individual insurers and the insurance sector as a whole. Common practice is for supervisors to assess the impact of climate change on other prudential risk classes rather than as a separate risk category (see Table 2 for examples).

2.2.1 Information gathering and sharing

- 19. For a proper assessment of the risks, supervisors should have quantitative and qualitative information on the exposure to physical, transition and liability risks and on climate risk management (see Box 1 for illustrative examples). Relevant public data may come from TCFD-aligned disclosures or reporting in line with the UN Principles for Responsible Investment Initiative. Relevant information from existing reporting requirements may come from evaluating an insurer's business strategy or risk management and governance documentation, detailed data on asset exposures, or outcomes of stress and scenario testing exercises.
- 20. It should be acknowledged that there are significant limitations to data availability and comparability of existing climate-related reporting and disclosures. As per ICP 9.4, the supervisor "requires more frequent reporting and/or additional information from insurers as needed". To assess climate risks, many supervisors have found it useful to collect supplementary information on an ad hoc basis such as through surveys and targeted requests. This allows for a rapid and iterative approach to gathering information. Given the importance of understanding this risk, the supervisor should decrease its reliance on ad hoc information requests and gradually move towards integration of climate risk information needs into the regular reporting requirements.
- 21. Information sharing and cooperation on climate-related risks by supervisors both domestically and on a cross-border basis are crucial. Within the same jurisdiction, this may involve cooperation and information sharing through Memorandum of Understandings or other mechanisms with supervisors in other sectors and between conduct and prudential supervisors. As it relates to cross-border supervision of insurance groups, such cooperation can be done through existing mechanisms, such as the IAIS Multilateral Memorandum of Understanding (MMoU). Supervisory colleges may discuss, for example, the use of natural catastrophe models and assumptions to account for climate change, including in stress scenarios. Such information sharing and cooperation should help support a consistent, groupwide assessment of the risks posed to the group as a whole, including by considering

⁹ Information sharing and cooperation with other involved supervisors is subject to confidentiality requirements (see ICP 3 (Information Sharing and Confidentiality Requirements)).





aggregate risk exposures, peer-group analysis and other relevant supervisory tools (see ComFrame integrated in ICP 9.2). Cross-border and cross-sectoral cooperation on supervisory review and reporting may also help streamline information gathering and avoid insurers being confronted with multiple information requests from several involved supervisors.

2.2.2 Supervisory feedback and follow-up

22. Given the rapid evolution of this risk, clear two-way communication between the supervisor and the supervised entities is essential. Such communication also helps to better understand the challenges faced by insurers and find adequate long-term solutions to overcome them. Supervisors typically use a combination of sector-wide and insurer-specific communication approaches to increase awareness and promote transparency around the supervisor's expectations of the insurer's approach to climate-related risks. The supervisor may also host workshops for the financial and/or insurance sector to exchange information and promote awareness.

Box 1: Illustrative examples of relevant indicators

Examples of relevant indicators and sources of information that supervisors may consider asking insurers, inter alia based on guidance published by the SIF and United States National Association of Insurance Commissioners (US NAIC),¹⁰ include:

Qualitative questions:

<u>General</u>

- What are the environmental, economic, social, political, technological, or reputational risks and opportunities related to climate change that are relevant for your business?
- Has your organisation implemented or planned any substantive changes to its business model, strategy and/or risk appetite in response to current and potential future climate-related risks?
- Does your organisation have a strategy to address climate change?
- Are there governance structures in place in your organisation through which Board Members may have oversight over climate-related risks? Is there a specific Board Member identified to deal with these risks?

Physical risk

- Does your organisation expect that physical risks will materially affect business performance, in terms of market demand, claims experience, or other factors?
- Does your organisation expect that physical risks will materially affect the valuation of financial assets in your investment portfolio, and how do you expect these risks to materialise over the short, medium, and long-term?
- Does your organisation directly or indirectly incorporate climate-related factors into the pricing and underwriting of insurance products?

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¹⁰ See also:

SIF (2020), Question Bank on Climate Change Risks to the Insurance Sector:

NAIC (2013), <u>Financial Condition Examiners Handbook</u> (which was updated to reflect climatespecific aspects, including templates to be used as a starting point when interviewing an insurer).





Transition risk

- Does your organisation expect that transition risks will materially affect underwriting business performance, in terms of market demand, claims burden, or other factors?
- To what extent does the investment strategy include climate-related considerations, and does the insurer comply with its stated strategy?

Liability risk

- Has there been a legal judgement awarded in your jurisdiction relating to liability for climate change damages?
- Does your organisation consider that it may be directly or indirectly exposed to liability risks stemming from climate change, either now or into the future?

Quantitative information:

General

- Carbon-intensity of sectors for both asset and liability exposures; or
- ESG/climate scoring, if available (internally developed or from third parties).

Physical risk

- The vulnerability to climate change by jurisdiction, for instance according to the Notre Dame Global Adaptation Initiative (<u>ND-GAIN</u>) Index or Standard & Poor's methodology;
- Percentage of power plant locations that are exposed to various levels of water stress, flood, and wildfire risks (eg from Paris Agreement Capital Transition Assessment (PACTA) model);
- Exposure to flood risk, or exposure of real estate investments to perils:
- Agricultural insurance with exposure to drought, variations in weather patterns and other climate change impacts; and
- Outputs from catastrophe models.

Transition risk

- Distribution of energy performance labels in insurers' commercial real estate and/or residential real estate portfolios:
- Carbon intensity ratings of various assets and proportion of assets that are exposed to carbon intensive industries; and
- Implied warming of the portfolio such as through the PACTA model.

Liability risk

- General insurance for coal, oil and gas energy operations with exposure to climate litigation;
- Portfolio of relevant insurance liability covers such as for Directors and Officers;
 and
- Professional liability insurance with exposure to climate litigation, such as architects' professional liability risks for a new commercial development that did not anticipate the increased risk of flooding.

3 Corporate Governance

23. ICP 7 (Corporate Governance) sets out requirements for the establishment and implementation of a corporate governance framework. This section looks at oversight and





management responsibilities, business objectives and strategies, the role of the Board, duties related to risk management and internal controls, as well as remuneration through a climate risk lens (ICP 7.1, 7.2, 7.5 and 7.6). ICP 7 also discusses issues around supervisory review and communications, but these are covered in sections 2 and 6 respectively.

3.1 Appropriate allocation of oversight and management responsibilities

- 24. Given that climate risk is an evolving risk area, the relevant roles and responsibilities assigned to the Board, Senior Management and Control Functions should continue to adapt. This includes the need to have greater clarity on information and reporting needs (quantitative, qualitative), resourcing, skill sets and budgets. By assigning responsibility, there is greater accountability for mapping, monitoring and controlling the risk. In this way, an insurer obtains a more accurate picture of how climate risks affect their business and how these might evolve. That might lead insurers to adapt their risk management (and potentially governance) in light of new information. The Application Paper on Proactive Supervision of Corporate Governance can help supervisors identify governance-related issues in terms of management of climate-related risks.¹¹
- 25. One way some insurers address evolving risks, including climate risk, is to have an internal risk committee that has the objective of identifying the changing risk landscape as well as potential ways to address the risk. Supervisors may want to encourage insurers to establish such a committee or other suitable structures with appropriate expertise, if they do not have one already.
- 26. The evolution of climate risk governance is reflected in some jurisdictional examples. In Canada, one insurer recently created the Chief Climate Risk Officer role, responsible for assessing the financial exposures related to climate risk in its insurance portfolio as well as systemic impacts. The United Kingdom Prudential Regulation Authority (UK PRA) requires insurers to identify a person holding a Senior Manager Function to hold this responsibility, for this to be detailed in their Statement of Responsibilities and performance reflected in the individual's variable remuneration, including via the application of risk adjustments.

3.2 Business objectives and strategies of the insurer

27. Insurers should incorporate and assess climate-related risks as part of the annual financial planning as well as the long and short-term strategic planning processes. Insurers should also ensure that impacts of climate change are well-represented in existing risk categories. It is important for insurers' strategic planning periods to build on the risks of their insurance portfolio.

3.3 The role of the Board

28. The Board has a role in maintaining effective oversight of climate-related risk management, including incorporating climate-related considerations into the insurer's risk appetite, strategies and business plans. In executing this responsibility, the Board should consider the potential threat to the insurer's own business risks, the fair treatment of customers and the duty of the insurer to conduct its business in a socially responsible manner.

¹¹ See <a href="https://www.iaisweb.org/page/supervisory-material/application-papers/file/80572/application-papers/file/8057





- 29. There should be appropriate understanding of, and opportunity to discuss, climate risk at the Board and Board committee levels, including within the audit committee and the risk committee.
- 30. In order to enhance the skillset amongst its Board Members, insurers should take actions to facilitate the understanding and discussion of climate risks at Board and Board committee levels and, where necessary, provide appropriate training for Board Members. Additionally, the Board succession or Board renewal plans could be used as a way to help add skills and understanding on climate risk to the Board, if needed.

3.4 Duties of Senior Management

31. Senior Management is responsible for implementing the policies related to climate risk and/or incorporating climate risk related elements into relevant operational and business policies. The Board relies on Senior Management to provide advice on the organisational objectives, plans, strategic options and policies as they relate to climate risk, including the establishment and use of relevant tools, models and metrics to monitor exposures to climate-related risks. Senior Management should set out information, options, potential trade-offs and recommendations to the Board in a manner that enables the Board to focus on key issues and make informed decisions in a timely manner, as it relates to climate risk.

3.5 Duties related to remuneration

- 32. The alignment of remuneration with prudent risk-taking should take into consideration climate-related risks, as appropriate, since risk adjustments should account for all risk types relevant to the insurer.
- 33. Remuneration can be used as one of several incentives to integrate climate-related risks in the risk management system. As part of this, criteria used to calculate the amount of variable remuneration could include, among others, climate-related risk management within the insurer (eg through staff training or asset categorisation and performance). Also, the evolution of the non-financial performance of investee companies could be a relevant indicator for variable remuneration.

4 Risk Management and Internal Controls

- 34. ICP 8 (Risk Management and Internal Controls) sets out requirements on systems of risk management and internal controls, including of the Control Functions. This section provides guidance on how supervisors could integrate climate-related risks into their supervisory expectations around the risk management system (ICP 8.1), and for each of the Control Functions (ICP 8.3 8.6). Finally, it discusses the supervision of outsourced functions in relation to climate risks (ICP 8.8). Box 2 provides examples of supervisory practices relating to ICP 8.
- 35. When addressing climate-related risks, it is expected that insurers integrate these risks into the overall corporate governance framework, which includes the systems of risk management and internal controls. It is recommended that those insurers still using an approach that mainly addresses climate change from a reputational risk perspective ¹² transition to a more fully integrated approach that considers the risks more holistically

¹² Often referred to as a "Corporate and Social Responsibility" approach.





(including not only the reputational aspect, but also the impact on assets, liabilities and the overall business model).

4.1 Integrating climate-related risks into the scope of the risk management system

- 36. Climate risks relate to existing risk categories and affect the valuation of an insurer's assets and liabilities as well as its business plan and strategic objectives. Life insurers, in particular, may incur increased losses due to an increase in the mortality rate from climate events like heat waves (eg impact on term life products) or, in some areas of the world, an increase of longevity due to more moderate temperatures (eg impact on annuity products). Non-life insurers may be affected by the increased frequency and severity of natural catastrophes on their products, such as property insurance, transport insurance or liability insurance. Transition risks manifest, for instance, through a decrease in the value of assets affected by ecological transition and may result in "stranded assets". Stranded assets relate to sectors likely to shrink due to measures taken to transition to a low-carbon economy (eq increase in carbon pricing) or to a shift in consumer or investor's preferences (eg away from air transport). In addition, climate change may affect the correlation between different risk categories (eg insurance and investment risk), which can lead to gaps between the actual risk exposure and the expected one. It also may be important for insurers to consider whether pricing bubbles appear as investors move into green assets.
- 37. Given the potential impact of climate-related risks on an insurer's solvency position, it would be expected that such impact is considered within the existing categories of risks and leads to a review of the risk management system in case of material change in these risks. This means that the insurer should assess and document in its risk management policies how climate-related risks could materialise within each area of the risk management system, in particular, in the investment and underwriting policies, taking into account potential risk mitigation measures and the speed at which risks may manifest over time
- 38. In order to identify, monitor, assess and manage climate-related risks, as well as their interaction with other identified risks, insurers should develop tools to collect reliable quantitative and qualitative data. This also allows the insurer to perform aggregated analysis of various elements of climate-related risks. The measurement of climate-related risks is an evolving science with challenges in the quality and availability of data. In some cases, there may be challenges to translating climate change (scenarios) into financial risks (eg translating a change in temperature into certain natural catastrophe risks). Nevertheless, there is an expectation that insurers' quantitative and qualitative analysis will continue to develop and evolve along with the science and improvements in data quality.
- 39. The potential impact on business continuity due to climate change should be considered in the risk management system.

4.2 Consideration of climate-related risks by the Control Functions

40. In performing its duties, Control Functions should take proper consideration of the impact of climate change on the existing risk categories and should have the appropriate resources and expertise to support that. As the measurement of climate-related risk is an emerging science, and risk modelling continues to develop and evolve, Control Functions will need to continue developing appropriate tools and approaches.





41. The Control Functions should identify, measure, and report on the insurer's risks, assess the effectiveness of the insurer's risk management and internal controls, and determine whether the insurer's operations and results are consistent with the risk appetite as approved by the Board.

4.2.1 Risk management function

- 42. The risk management function should monitor and facilitate the proper identification, assessment and management of climate-related risks. This should be integrated into the existing risk management system and in line with the Board-approved risk appetite statement. The following risk management areas may be particularly affected by climate-related risks: asset-liability management (ALM), investment risk management, underwriting and reserving, reinsurance and other risk-mitigating techniques, operational risk and reputational risk management.
- 43. The risk management function should use a range of quantitative and qualitative methods and metrics to monitor progress against the insurer's overall business strategy and risk appetite, and promote consistency within the insurer. For instance, the underwriting and investment functions should consider where they could benefit from aligned criteria when identifying sectors that are more exposed to climate change. The methods and metrics should be updated regularly to support decision making by the insurer's Board and/or relevant committees.
- 44. An example of a method for managing the risk associated with climate change is defining investment limits to specific companies, sectors, regions, jurisdictions, etc. This may be based on certain criteria, such as the percentage of income stemming from mining, processing or burning fossil fuels. Furthermore, insurers could incorporate environmental and climate change considerations when evaluating a proposed investment. On the liability side, risk limits could also be defined—for instance a maximum exposure to policyholders in coastal areas in order to limit the risk exposure to flood risk. The use of "heat maps" or ESG scoring that highlight climate-related risks may also be a helpful method to get a better understanding of, and monitor, the impact of these risks.

4.2.2 Compliance function

45. The compliance function should then identify the compliance risks that the insurer faces and the steps taken to address them. In performing this task, the compliance function should take into account the liability and reputational risks (eg from a failure to appropriately disclose information on climate-related exposure) stemming from climate change. Accordingly, the compliance function should ensure that internal policies and internal control procedures are compliant with the relevant standards, directives, charters, or codes of conduct related to climate change that the insurer is obliged or committed to respect.

4.2.3 Actuarial function

46. It is expected that the actuarial function takes into account climate-related risks because they can potentially have an impact on the valuation of assets, ALM, underwriting, risk mitigation and on the calculation of insurance liabilities and capital requirements. To assess physical risks, the actuarial function could, for example, consider the impact of windand storm pattern shifts, increased frequency of hot weather, hail, high winds, extreme precipitation, drought and flooding. To assess transition risks, the actuarial function could





consider the insurer's exposure to companies likely to be affected by a transition to a carbonneutral economy.

47. In performing its duties, the actuarial function should pay particular attention to the assessment of the quality and completeness of underlying data. Due to climate change, historical analysis may not be sufficient and may need to be supplemented to enable the appropriate calibration of premiums or reserves to reflect climate-related risks. Expert teams, such as cat modelling teams, can reinforce the actuarial function's role, as these teams are often already using analytical tools that go beyond pure historical analysis.

4.2.4 Internal audit function

48. The internal audit function should review the risk management process to ensure it is adequate and effective. As part of the review, it should assess whether all material risks, including climate risk, that may have an impact on insurer's resilience, are being considered and, where relevant, mitigated.

4.3 Fitness and propriety of Control Functions on climate-related issues

- 49. In order to ensure sufficient knowledge for the Control Functions while identifying, assessing, monitoring, managing and reporting climate-related risks, insurers should adapt their internal policies and implement training programmes to ensure they have a sufficient understanding of climate-related issues and their impact on the risk-profile of the entity. Insurers should ensure that persons who perform Control Functions have relevant experience in understanding the risks of climate change as appropriate to their respective duties.
- 50. As an example, the European Insurance and Occupational Pensions Authority (EIOPA) deems that "depending on their (the insurer's) specific investment strategy, their risk profile and their size, the recruitment of dedicated experts may be needed for some undertakings. In any case, insurance and reinsurance undertakings should be requested to build in the necessary expertise with particular consideration of the proportionality principle". Furthermore, in the Netherlands, De Nederlandsche Bank (DNB) issued guidance on including climate-related risks into the fit and proper assessments of management or supervisory Board members and other policymakers (see Box 2).
- 51. Within the various Control Functions involved, a person with appropriate skills and knowledge in climate-related risks, or a dedicated unit, may be identified as primarily responsible for climate-related aspects in order to ensure that climate-related risks remain in scope and the necessary attention is allocated. However, this does not remove the need to integrate the risks from climate change into all relevant parts of the business.

4.4 Integrating climate-related risks in outsourcing decisions

52. Insurers that decide to outsource any material activity should preserve the ability to manage risks and ensure the continuity of their activities in case of a failure of the outsourcing provider. One example is physical damage that could disrupt the insurer's operations, should severe weather events affect the premises of their outsourced business functions. To manage such physical risks, business continuity plans should incorporate the risks from climate change, where material. It may also be useful for insurers to conduct scenario analyses, for instance considering a scenario in which several outsourced business functions are affected at once. In practice, some insurers with outsourced functions have used physical risk scenarios such as those published by the Intergovernmental Panel on Climate Change





(IPCC). Insurers may increasingly include insured loss data as part of this analysis, as well as examining recent historical climate trends in key locations.

Box 2: Examples of supervisory practice on Corporate Governance, Risk Management and Internal Controls

Germany

BaFin published a Guidance Notice on Dealing with Sustainability Risks ¹³ that considers details of strategies, responsible governance and business organisation. BaFin recommends a strategic assessment of sustainability risks. The management Board should have overall responsibility for the business and risk strategy and its communication and implementation within the entity, as well as for maintaining an appropriate business organisation with the responsibilities, processes, resources and functions to address the risks.

The central focus of the Guidance Notice is risk management. It considers risk identification, management and control processes together with traditional methods and procedures, with specific reference to sustainability risks. It also highlights specific features relating to insurance. In addition, the Guidance Notice considers issues regarding stress tests including scenario analyses. Finally, BaFin takes a stance on questions relating to outsourcing, group issues and the use of sustainability ratings.

<u>Japan</u>

Given recent significant loss experience from natural disasters among Japanese insurers, the Japan FSA has conducted thematic reviews on natural disaster risk management for non-life insurers. The reviews include retention and reinsurance strategy, group reinsurance policy, claim management, protection gap among small and medium-sized enterprises for water-related disasters and risk amount of large natural disasters. Climate-related risk was added to the themes of the review for 2020-2021 and Japan FSA has begun discussions with insurers regarding risk management related to climate changes. In December 2020, an Expert Panel on Sustainable Finance was set up to discuss broader contexts of sustainable finance including managing climate-related risks. Outcomes of discussions are expected by mid-2021.

The Netherlands

Effective 2021, climate-related and environmental risks have become a standard part of DNB's fit and proper assessments for Board members of insurers, banks and pension funds. This means that climate-related and environmental risks will feature more prominently in the assessment interviews. For example, a question may be asked about the candidate's knowledge in the area of climate-related and environmental risks, relevant legislation and its impact on the institution. Also DNB will ask that the institution include in the assessment file it submits, information on the candidate's knowledge and experience in the area of climate-related and environmental risks.

DNB also published the following list of expectations for proposed Board members with respect to climate-related and environmental risks, thereby referring to the criteria listed under A through E in the Policy Rule on Fitness 2012:

- Be able to define these risks:
- Be aware of relevant laws and regulations and of reporting obligations;
- Be able to identify, monitor and manage them;

¹³ See BaFin (2020), <u>Guidance Notice on Dealing with Sustainability Risks</u>.





- Know who is responsible for managing them in the institution;
- Understand their impact within the institution's specific context, and to be able to cite examples:
- Be able to formulate a strategy and policies to tackle them;
- Take responsibility for ensuring their adequate management;
- In the case of supervisory Board members: to monitor their adequate management; and
- Have sufficient relevant competencies, such as a helicopter view, leadership, autonomy, sensitivity to their environment, strategic guidance and sense of responsibility.

The actual assessment will be proportionate, taking into account the candidate's position, the institution's nature, size, complexity and risk profile, and the composition and functioning of the Board as a whole. More information can be found on DNB's "fit and proper assessments website under the heading Climate-related risks are now part of fit and proper assessments.

United Kingdom

The UK PRA stipulates the following expectations for insurers and reinsurers to address financial risks from climate change through their risk management frameworks. 14 It is expected that insurers and reinsurers should understand the financial risks from climate change and how they will affect their business model.

To do so, they should:

- Develop scenario analysis and stress testing, using all possible data in addition to historical data (eg future trends in catastrophe modelling) to identify correctly the short- and long-term financial risks to their business model from climate change;
- Develop quantitative and qualitative tools to monitor their exposure to financial risks from climate change exposure (eg monitor the potential impact of physical risk factors on outsourcing arrangements and supply chains) and to monitor progress against their overall business strategy and risk appetite; and
- Define a credible plan or policies for mitigate and managing the exposures to financial risks from climate change (eg any action to reduce the concentration of these risks such as the necessity to take into account the potential and future impacts of the physical and transition risk factors on their clients, counterparties, and organisations in which the firm invests or may invest).

5 Enterprise Risk Management for Solvency Purposes

53. ICP 16 (Enterprise Risk Management for Solvency Purposes) sets out supervisory expectations of how insurers coordinate their risk management, strategic planning and capital management processes. This section discusses how climate-related risks should be integrated in an insurer's underwriting policy and underwriting processes, as well as in the Own Risk and Solvency Assessment (ORSA) process (with a focus on stress testing and scenario analysis). This covers Standards ICP 16.2, 16, 7 and 16.10 – 16.14. ICP 16 also

¹⁴ See UK PRA (2019), <u>Supervisory Statement SS 3/19 on Enhancing banks' and insurers' approaches to managing the financial risks from climate change</u>. In July 2020, the PRA issued a <u>Dear CEO letter</u> which gives a timeline of by the end of 2021 for firms to embed the PRA climate-related requirements.





covers areas relating to the insurer's ALM and investment policies, which is covered in section 6. Box 3 provides examples of supervisory practices around ORSA and stress testing.

5.1 Underwriting policy

- 54. Physical, transition and liability risks arising from climate change can impact the business risk profile, underwriting strategy and underwriting processes of insurers. When material, supervisors should expect insurers to identify the relevant physical, transition and liability risks inherent in their business portfolios, assess the implications for their underwriting strategy, and develop policies and procedures to integrate the management of these risks as part of their enterprise risk management (ERM) framework as well as the risk appetite statement.
- 55. Insurers should consider both the short-term and longer-term (including both business planning horizon and duration of the policies) when assessing the impact of such risks. How insurers consider the climate-related risks within underwriting risk is likely to be dependent on various elements (eg duration of the contract, frequency and severity of climate events, localisation of the goods and persons covered, impact of perils on their policies, reinsurance agreements, terms and conditions).

5.1.1 Consideration of climate-related risks in the underwriting policy

- 56. Insurers should have internal guidance on how the assessment and monitoring of such risks are embedded in the underwriting process. Hence, supervisors should require insurers to incorporate the consideration of climate-related risks in the underwriting policy, as appropriate, given the exposure of their individual products to those risks. This may include the description of:
 - Geographical areas, economic sectors¹⁵ or lines of business that are assessed to have higher climate-related risks;
 - Processes to identify and assess material climate-related risks inherent in new business applications and in the in-force portfolio; and
 - The use of climate research reports, climate risk models and other analytics tools in the underwriting decision-making process, where applicable.

5.1.2 Consideration of climate-related risks in the underwriting assessment

- 57. Insurers strive to understand the potential losses from natural catastrophe events through their use of natural catastrophe modelling and analytical tools. It is possible that over time, insurers will also have a more precise understanding of the physical risks of climate change. However, this requires that sufficient data becomes available to incorporate climate change scenario analysis into their catastrophe models, which would allow for the estimation of both the likelihood of events as well as the associated potential losses.
- 58. The integration of climate-related risks in the underwriting assessment may involve the enhancement of underwriting practices due to the need to consider the relevant liability,

¹⁵ The evaluation criteria for such sectors may include the level of greenhouse gas emissions, vulnerability to extreme weather events, and linkages to unsustainable energy practices, deforestation and pollution. For example, the UN IPCC has noted that sectors such as agriculture, chemicals, forestry and mining may face material challenges due to either their impact on the environment or as a result of the impacts related to climate change.





transition and reputational risks. For material risks associated with climate change, supervisors should encourage insurers to include, as relevant, their assessment as part of their overall underwriting assessment for each policyholder. Where relevant, the underwriting assessment should be enhanced to consider: 16

- The track record and commitment of the policyholder in managing climate-related risks;¹⁷
- The ability and willingness of each policyholder to mitigate the identified climate related risks associated with the transaction;
- The duration of the policy; and
- The need to impose underwriting conditions for certain types of products ¹⁸ to require
 policyholders that are assessed to pose higher risks due to their climate impact to take
 steps to mitigate those risks.
- 59. Insurers may choose to use ratings developed by external parties or develop their own risk assessment methodology to incorporate climate-related risks in the underwriting assessment. If an insurer relies on external ratings, it should ensure that the rating methodology is sufficiently transparent to allow understanding of the ratings provided. For transactions that are assessed to involve higher climate-related risks, it may be appropriate for supervisors to expect insurers to perform additional due diligence procedures 19 to obtain a more informed understanding of the risks associated with the transaction. It may also be appropriate for insurers to incorporate climate-related risk exposures into the underwriting authority grid, such that transactions that are assessed to involve higher climate-related risks require internal escalation for approval.

5.1.3 Monitoring of underwriting exposure to climate-related risks

- 60. Climate change is already causing changes to the frequency and severity of loss events for some perils, which in turn may increase the risk profile of an insurer's business portfolio. For instance, climate change could result in changes in weather patterns that may impact non-life products as a result of the increase in physical risks of certain geographical areas, but will also increase the air temperature that could result in a longer-term impact through the increase in mortality and morbidity risks. Additionally, certain non-life policies may face increased liability risks as a result of evolving legal approaches and increased litigation linked to climate-related risks.
- 61. Hence, supervisors should encourage insurers to develop appropriate tools and metrics to monitor their underwriting exposures to climate-related risks. Such tools and metrics may be used, for example, to monitor underwriting exposures to and concentrations in geographical areas or sectors that are assessed to pose higher climate-related risks (such as peril regions). This would enable insurers to take appropriate mitigating measures to manage

¹⁶ Both historic and forward-looking considerations should be taken into account in underwriting assessments.

¹⁷ Especially in case of material exposure to liability as well as reputational risk and where the terms and conditions of the insurance policy do not set out mitigating obligations on the policyholder to manage climate-related risks or the fulfilment of such contractual obligations would be difficult to verify after a claim

¹⁸ Such conditions may include the development of a sustainable transition strategy and the adherence to relevant environmental certification standards.

¹⁹ Such procedures may include on-site visits to the policyholder or risk location or external expert review.





any potential build-up in concentration of exposures to geographical areas or sectors with higher climate-related risks.

5.2 Own Risk and Solvency Assessment (ORSA)

- 62. The unique business strategy, investment portfolio and risk profile of each insurer will affect the degree of impact arising from climate-related risks. The nature and materiality of the relevant insurance, credit, market, concentration, operational and liquidity risks will vary depending on the exposure to climate change of each insurer. Hence, the ORSA is a particularly useful tool for insurers to assess the adequacy of their ERM and capital position. Supervisors should expect insurers to consider all material physical, transition and liability risks arising from climate change in its ORSA process, and adopt the appropriate risk management actions to mitigate the identified risks accordingly. Insurers may consider the risks on both a qualitative and quantitative basis, with the understanding that quantitative capabilities should improve over time as the ability to access the necessary data is improved.
- 63. As part of the ORSA, the insurer assesses its risk management and financial resources over a longer time horizon than used to determine regulatory capital requirements. The time horizon should be consistent with the nature of the insurer's risks and business planning. Some climate-related risks may take longer to fully materialise and, therefore, it would be expected that the ORSA also include appropriate scenarios that use a more extended time horizon, where relevant. When assessing the appropriateness of time horizons used by insurers, supervisors should consider the nature and types of business written by the insurer.

5.2.1 Stress testing and scenario analysis of climate-related risks

- 64. As part of the ORSA, an insurer is required to perform a continuity analysis to assess its ability to manage its risks and meet its capital requirements under a range of plausible adverse scenarios with a forward-looking perspective in mind. When material, this analysis should include the identification and assessment of the direct and indirect impact of climate-related risks. For instance, including as part of the scenario analysis a (reverse) stress testing process. This would enable insurers to assess their resilience to financial losses with respect to climate change. This process should incorporate an assessment of physical, transition and liability risks:
 - Assessment of physical risks includes the use catastrophe modelling including a number of different scenarios (eg 1-100 to 1-500 or 1-1000 year events). This may also include the identification of a climate-related risk scenario that could potentially cause insolvency;
 - Assessment of transition risks may cover how increases in carbon taxes, stricter environmental regulations and a low-carbon economy would impact both assets and technical provisions; and
 - Liability risks assessment involves the risks resulting from potential changes in societal, litigation and judicial environments. Insurers offering claims-made policies should have an understanding of the potential impact on their liability risks as a result of increasing pressure on Boards to manage their companies in a responsible manner, especially as it relates to the environment, and should consider appropriate exclusions and/or limits.
- 65. Parameters and assumptions for climate-related stress testing scenarios may be adopted from modelling work performed by meteorological agencies, regulators or other external experts. For example, there are statistical models to determine the frequency of





flooding events, and modified economic models to estimate the economic or financial impact of various climate shocks. Alternatively, insurers may have developed internal models for the impacts of climate risk. Supervisors should encourage insurers to use models that are pertinent to their geographical scope and nature of business. It is important for insurers to fully understand these models, the uncertainties of the results and their underlying assumptions and methodologies when deciding on their relevance.

66. Climate-related risks are material to the insurance industry and are expected to potentially have an impact on all insurers; therefore, these risks should be considered for inclusion in the ORSA. If climate-related risks are assessed to be immaterial by an insurer, the insurer should document the reason for the assessment. The rationale for immateriality could be included in the documentation that summarises the risks that the insurer considered for incorporation in the ORSA and may be concise.

Box 3: Examples of supervisory practice on ORSA and stress testing

Canada

In Canada, certain IAIGs have included a climate risk scenario in stress testing in the last two years. In 2019, this included both first-order impacts (loss of value in physical assets in high-risk flooding regions) and second-order impacts on the asset portfolio due to a shift to green industries and reduced market value of securities related to fossil fuels businesses.

Furthermore, in 2021, the Bank of Canada and the Office of the Superintendent of Financial Institutions (OSFI) will undertake a pilot project to use climate-change scenarios to better understand the risks to the financial system related to a transition to a low-carbon economy. A small group of institutions from the banking and insurance sectors will participate voluntarily in the project. Participants will be asked to explore the potential risk exposures of their balance sheets to climate-change scenarios that are relevant for Canada. A report is planned to be published end 2021.

Chinese Taipei

The Financial Supervisory Commission (FSC) has required insurers to assess the impact of climate change in the 2020 ORSA Supervisory Report, including risk identification of climate change, major risk exposure status, risk assessment methods and related response strategy.

The FSC requires insurers to identify and assess the aspects of climate change and the degree of impacts, including physical risks, transition risks and liability risks, in the 2021 ORSA Supervisory Report. The insurers should disclose the difficulties, limitations and challenges faced by the insurers when they conduct climate change risk management. Also, the ORSA Supervisory Report should include the related response strategies to climate change risk management.

Regarding the stress test, in addition to the existing scenarios of catastrophes, the FSC has adding climate change scenarios, including the associated losses related to typhoons, into the current overall stress test scenarios to assess the impact on insurers and other associated losses.

The Netherlands





In its Good Practice and Q&A document, ²⁰ DNB formulates principles on how insurers should integrate climate-related risks in the ORSA based on the outcomes of an analysis of ORSAs submitted in 2018. These are summarised below.

On the asset side of the balance sheet, insurers were asked to consider the following:

Physical risks

- Damage to collateral, such as real estate, investments or exposure to other real estate investments; and
- Write-down of bonds and equities of companies whose property or processes are exposed to physical effects of climate change.

Transition risks

- Write-down of loans to and investments in companies with large carbon footprints that are sensitive to an energy transition (stranded assets);
- Write-down of mortgage loans and investments in non-sustainable real estate; and
- Increasing risks for mortgage loans, bonds and businesses that are vulnerable to an energy transition, which means higher capital buffers are required for such assets.

When designing climate-related scenarios for the ORSA, insurers were asked to consider the following:

- Use of country-specific scenarios (eg scenarios developed by regulators or meteorological agencies);
- Adopt the relevant principles of climate-related stress tests performed by regulators; and
- Integrate indirect effects of climate-related risks that may lead to an increase in claims into scenario and impact analyses, such as potential health risks and increased mortality rates.

The following examples mainly relate to supervisory stress testing but may nevertheless provide valuable examples related to defining relevant scenarios, and setting up stress testing exercise.

France Prance

In 2020, the first climate risk evaluation in the banking and insurance sector was carried out by the ACPR. The exercise aimed to take stock of the availability of data and the suitability of current modelling approaches, and more broadly to improve understanding of the interactions between climate change and the macro-financial realm.

To link climate and policy shocks with their financial impacts, the *Banque de France* has adapted the National Institute Global Econometric Model to yield macroeconomic shocks at the country level following an increase in carbon prices. The baseline scenario for the exercise assumes that the emissions goals of the Paris Climate Agreement will be achieved, with three variants:

- A disorderly transition without favourable technological developments;
- A EUR 200 per ton carbon tax implemented in 2025; and

See https://www.dnb.nl/media/43ufhxoj/qood-practice-integrating-climate-related-risks-in-the-orsa.pdf





 A EUR 300 per ton carbon tax implemented in 2030 with accompanying shocks to productivity levels.

Insurers will carry out projections for 2025 using a static balance sheet from 2020, while further horizons (2030 and 2040) can integrate management decisions intended to mitigate financial risks, in line with the insurer's previous communication. The results of the exercise were published in April 2021.²¹

<u>Japan</u>

In its annual strategy from 2020-2021, the JFSA prioritises dialogue on climate-related risk with financial institutions. JFSA continues to have close dialogue with major insurers to explore the possible approaches for climate-related scenario analysis.

<u>Singapore</u>

The Monetary Authority of Singapore (MAS) regularly conducts Industry-Wide Stress Tests (IWST) for selected direct insurers representing at least 80% of the market.

MAS included a climate variability scenario in the 2018 IWST, to raise the insurance industry's awareness of the financial impact of climate change on the insurers' capital positions, so as to enable insurers to consider the relevant climate-related risks as part of their ERM framework.

The climate variability scenario required direct general insurers to estimate the impact of severe flooding in Singapore (at an average depth of 600 millimetres) by assessing the impact on their exposures through insured properties (by considering a list of flood-prone areas in Singapore). Insurers were also required to provide qualitative assessments on the possible implications on their business lines such as motor and public liability insurance. The introduction of climate variability scenario helped to raise the industry's awareness on the impact of climate-related risks to their business portfolio, and provided MAS with a deeper understanding of the industry's flood-risk exposure.

MAS is working on refining future stress test scenarios related to climate risks such as lengthening the stress test time horizon and broadening the scenarios to include assessment of transition risks. Through the introduction of climate-related stress scenarios in the IWSTs, MAS aims to raise industry awareness about climate-related risks relevant to the Singapore insurance industry and encourage insurers to adopt relevant stress scenarios (where applicable) in their ORSAs.

<u>United Kingdom</u>

The Bank of England ("the Bank") conducts biennial industry-wide insurance stress tests (IST) for the UK's largest regulated life and general insurers representing more than 70% of the market. In 2019 the IST included an exploratory climate scenario assessing the impacts to assets and liabilities arising from physical and transition risks. The exercise included three scenarios that explored a range of potential greenhouse gas transitions including the Paris Agreement, a disorderly transition and a high physical risk scenario.

Despite being voluntary, all firms completed the exercise, enabling the Bank to (i) raise the climate agenda at Board level; and (ii) identify and understand weaknesses in the current capabilities, tools and data available in assessing the potential impacts from climate change.

See https://acpr.banque-

france.fr/sites/default/files/medias/documents/20210504 as pilot exercise climat change.pdf





In June 2021, informed by the findings from IST 2019, the Bank will test the resilience of the UK financial system to the physical and transition risks associated with different climate pathways over a number of decades. The desired outcomes are to (i) size the financial exposures of participating firms and the financial system more broadly to climate-related risks; (ii) understand the challenges to participants' business models, and investigating interdependency between insurers and banks; and (iii) assist participants in enhancing their management of climate-related financial risks, including encouraging firms to take a strategic, long-term view to addressing climate risks and highlighting data gaps that need to be filled for effective disclosure.

United States

US ORSA requirements as described in the NAIC ORSA Guidance Manual, ²² require insurers to explain how they identify, assess, monitor, prioritise and report all material and relevant risks. To the extent that an insurer deems climate-related risks material to its business strategy and operations, these risks should be disclosed in the annual ORSA Summary Report filing with the regulator. The determination as to whether climate-related risks are material is made in the first instance by the insurer and later reviewed by the supervisor. The supervisor has the authority to require the insurer to incorporate climate-related risks into its ORSA and/or require changes in assumptions and scenarios utilised by the insurer in this area.

The California Department of Insurance has initiated multiple efforts and partnerships since 2015, developing new strategies to test insurer exposures to fossil fuel investments and climate-related transition risks. For example, the Department partnered with 2 Degrees Investing Initiative, which conducted a comprehensive financial stress test analysis for the insurance sector. ²³ In addition to this scenario analysis stress test, the Department also developed a database for insurer investment information related to fossil fuels. ²⁴ Both the scenario analysis stress test and the database provide a foundation for future policy work.

6 Investments

67. The Introductory Guidance in ICP 15 (Investments) explains how quantitative and qualitative requirements should take account of the risks that insurers face through their investments, in order to ensure that assets are "sufficient to cover technical provisions and capital requirements" (see ICP 15.1.1) Additionally, certain standards within ICP 16 require the insurer's ERM framework to include an explicit ALM policy and an ERM framework that addresses risks from investments (see ICP 16.5 and 16.6).

6.1 Climate-related risks for investments

68. Physical and, especially, transition risks can have complex and non-linear impacts on insurers' investments. Where material, these risks must be taken into account regardless of whether the insurer invests directly or through a third-party asset manager or investment advisor. This section provides guidance related to supervisory approaches on investments. Box 4 includes examples of relevant supervisory practice.

See https://content.naic.org/sites/default/files/inline-files/prod/serv fin/recievership ORSA-2014 1.pdf

²³ See https://interactive.web.insurance.ca.gov/apex extprd/f?p=250:70

²⁴ See https://interactive.web.insurance.ca.gov/apex extprd/f?p=250:1:0





- 69. Both transition and physical risk have the potential to affect investments via credit/counterparty default risk (eg an increase in the probability of default or loss given default), market risk (eg a change in the value, trend, or volatility of an asset or derivative, in particular equity, property or spread risk) as well as liquidity risk (eg as a result of a sudden cash outflows as a result of a natural hazard). Transition risk and physical risk can also include second-order effects such as indirect losses in insurers' investments due to the devaluation of financial counterparties that have high exposures to those climate-sensitive sectors, or the impact of changing investor sentiments on market values.
- 70. ICP 15.1.1. states that the quality and characteristics of an insurer's asset portfolio and the interdependence between the insurer's assets and its liabilities are central to the assessment of an insurer's solvency position and, therefore, are an important aspect to be addressed by the supervisor and for an insurer to manage. In assessing the risks attached to the asset portfolio, and depending on the duration and quality of the portfolio and ALM, it may be relevant for supervisors to enquire as to the impact of the insurer's investment from climate change as it has the potential to impact the risk-return characteristics of a portfolio. The longer the duration of the asset portfolio, the more important it is for the insurer to understand the risk. At the same time, transition risks can happen at any time and in a sudden manner, and thus require insurers to review their investment strategy regularly.

6.2 Asset liability management (ALM)

- 71. ICP 15 requires insurers to invest in assets that are secure and available, so that payments to policyholders or creditors can be made as they fall due and assets are adequately diversified. ICP 16 requires insurers to include an ALM policy within their ERM framework, which helps insurers asses the ability to pay policyholders or creditors on a timely basis.
- 72. Climate change can negatively affect the matching of assets and liabilities, primarily through transition risk, as insurers with long duration products use longer-term bonds to match the liability cash flows. Due to the long-term nature of the bonds, insurers should consider the potential that individual firms or an entire sector, could be significantly impaired over the matching period when constructing their investment portfolios. Correlation between different asset classes would also be an important consideration. Additionally, correlation between assets and liabilities when holding both a bond of an entity and insuring that entity for risks related to climate change should be considered.
- 73. The time horizon is an essential component as the impact of climate change on insurers' investment portfolios may fully materialise over an extended period and therefore impact either the value or expected cash-flows from financial assets only in the long-term. Transition risks, arising from political decisions, regulatory policies, changing demand or investor expectations, can happen at any time and suddenly, and thus require insurers to think about their investment strategy now. Therefore, the time horizon is an essential component for defining the investment strategy. ALM would be particularly important for long-tail business given the long duration of their liabilities coupled by climate-related risks that can materialise over an extended period.

6.3 Risk assessment of investments

74. ICP 15 requires insurers to invest only in assets for which it can properly assess and manage the risks (see ICP 15.4). For that reason, a forward-looking viewwith quantitative and qualitative data, as well as the use of scenarios, can help overcome potential limitations of





historical and market data and help insurers consider how their investments may be impacted in different climate scenarios.²⁵

75. External credit ratings can assist the insurer in determining the credit risk of an investment. However, insurers should have enough information to fully understand the rating methodology. Insurers should also consider the extent to which climate risk has been factored into the rating as well as the time horizon of the assessment.

6.4 Impact of investments on climate change

- 76. Certain institutional investors, including insurers, apply engagement strategies to steer the activities of the assets they are holding (where their shareholders' rights allow). Such stewardship would act to influence the strategy and business of the firms in which they are investing to progress towards sustainable economic activities, and contribute to reducing climate-change related risks.
- 77. Where possible, the exercise of a stewardship approach by the insurer, promoting risk mitigation and adaptation to climate change, may have an impact on the risk profile of the investment. This may include insurers' active engagement with investees to achieve sustainable investment outcomes through voting strategies or other investment strategies such as, for example, exclusions (negative screening), norms-based screening, integration of ESG factors, best-in-class (positive screening), sustainability-themed investments or impact investing.
- 78. In order to be effective, an engagement strategy with the investee company may include exercising voting rights as a shareholder, sending letters to or attending meetings with the management of investee companies, setting up documented and time-bound engagement in actions or shareholder dialogue with specific sustainability objectives, planning escalation measures in case those objectives are not achieved, including reductions of investments or exclusion decisions.²⁶

Box 4: Examples of supervisory practice on Investments

Chinese Taipei

The FSC has required insurance associations to incorporate climate change issues in investment-related specification as a tool to encourage insurance companies to pay close attention to climate change issues. The insurance industry should review whether the lenders are doing their best to protect the environment, conduct business with integrity and social responsibility, and the overall investment policy formulated by the insurance industry should include projects for environmental protection, corporate integrity and social responsibility.

In addition, the FSC encourages insurers to sign up the "Stewardship Principles for Institutional Investors" to urge the financial industry to implement shareholder activism and responsible investment, consider ESG-related risks and opportunities, incorporate ESG issues into the investment evaluation and decision-making process, and enhance corporate governance quality.

European Union

²⁵ See NGFS (2019).

²⁶ See ESMA (2020), <u>Joint Consultation Paper on ESG disclosures</u>.





In the EU, the prudent person principle, which is the overarching principle under Solvency II and requires that undertakings only invest in assets whose risks they can properly identify, measure, monitor, manage, control and report on, could be revised. The EIOPA 2019 technical advice on integrating sustainability risks and factors within Solvency II advises on a change of the regulation to consider mention that undertakings should consider sustainability risks in the process of assessing the security, quality, liquidity and profitability of the investment portfolio, as required by the "prudent person principle". The European Commission has published proposed legal changes based on EIOPA's technical advice.²⁷

As part of integrating sustainability risks into Solvency II, EIOPA includes the principle of stewardship. As indicated in its Opinion on integrating sustainability risks within Solvency II²⁸ EIOPA deems that "the transition towards a more sustainable economy should rely on this principle. From a prudential point of view, this can greatly contribute to the management of sustainability risks."

7 Public Disclosure

- 79. According to ICP 20 (Public Disclosure) the supervisor requires insurers to disclose relevant and comprehensive information on a timely basis in order to give policyholders and market participants a clear view of their business activities, risks, performance and financial position.²⁹ Public disclosures on emerging(ed) risks, including risks from climate change, are of primary relevance to this objective. In establishing disclosure requirements for the risks associated with climate change, the supervisor should take into account existing relevant requirements as well as proprietary and confidential information that could negatively influence the competitive position of an insurer if made available to competitors.
- 80. ICP 20 requires insurers to provide information on all material risks faced by the company and its management. If risks associated with climate change are material to the insurer, it follows from ICP 20 that information thereon must be disclosed. The level and type of information disclosed may depend on the line of business; for example, disclosures on climate-related risks to insurers' investment portfolios are likely to be more extensive for life insurers with long duration insurance contracts, while non-life insurers that write one-year contracts are likely to focus relatively more on their underwriting and risk management implications of climate change. However, this does not mean that the investments of non-life insurers are not exposed to risks from climate change, and that these risks should be neglected.
- 81. Supervisors that are considering the introduction of mandatory disclosure requirements on the risks from climate change may wish to consider a range of approaches, recognising the iterative nature of disclosure processes and early stages of certain aspects of climate risk assessment methodologies. In addition, as ICP 20 allows supervisors to meet the standard through public general-purpose financial reports, supervisors may want to consider allowing insurers to augment those disclosures with relevant climate-related information, if applicable, rather than requiring duplicative disclosures for regulatory purposes.

²⁷ See https://ec.europa.eu/transparency/documents-register/detail?ref=C(2021)2628&lang=en

²⁸ See EIOPA (2019), Opinion on Sustainability within Solvency II.

²⁹ This includes existing and potential investors, lenders and other creditors.





- 82. Supervisors may also use the Financial Stability Board (FSB) TCFD Framework when designing best practises or as input for setting their own supervisory objectives. Going forward, supervisors may seek to adopt, or make reference to, various aspects of the TCFD framework in their interpretation of the various ICPs discussed in this Paper, in particular ICP 20.
- 83. The remainder of this section discusses those Standards of ICP 20 that are deemed most relevant in determining how comprehensively insurers have publicly disclosed the interplay between climate change and their business. Box 5, provides several examples of supervisory practice around climate-related disclosure requirements.

7.1 General disclosure requirements

- 84. Enhancing the availability and quality of climate-related information is now widely understood to be a foundational component of market and policy action to address risks from climate change. Insurers should incorporate in their disclosure the extent to which their risk profile exposes them to the impacts of climate-related risks. Insurers that have developed metrics, should disclose the metrics used to assess risks and opportunities arising from climate change in line with their strategy and risk management process and how the metrics are set, tracked and rewarded across the organisation. The metrics should also indicate the uncertainty in the measurement so users can understand the quality of the information. They should also describe the targets used by the organisation to manage risks of climate change and performance against targets. The information on metrics and targets does not necessarily need to be quantitative, but should cover material risks. It is also expected that as the measurement of the risks improve over time, the uncertainty within the measurements will decline.
- 85. Insurers that perform climate-related scenario analysis on their underwriting activities are encouraged to disclose a description of the climate-related scenarios used, including the critical input parameters, assumptions and considerations, and analytical choices. Indications of the quality of the scenario analysis should also be provided. Insurers should also indicate how the assumptions and parameters align with their risk appetite and strategic business direction.

7.2 Company profile

- 86. Insurers should describe the climate-related risks and opportunities the insurer has identified over the short-, medium- and long-term, the impact of climate-related risks and opportunities on the organisation's businesses, strategy, and financial planning.
- 87. The information should include supporting quantitative information, where available and relevant, on their core businesses, products, and services, including information at the business division, sector, or geography levels. Insurers should also disclose how the potential impacts of climate-related risk influence policyholder, cedent, or broker selection, and whether specific climate-related products or competencies are under development, such as insurance of green infrastructure, specialty climate-related risk advisory services, and climate-related policyholder engagement.
- 88. Insurers should provide information on the impact of climate change on their business and may be encouraged to provide information on how their business impacts the climate. This should enable users to both understand the impact of climate-related risks on the insurer and vice versa.





7.3 Corporate governance framework

89. Disclosures should describe the Board's oversight and Senior Management's role in assessing and managing climate-related risks and opportunities. Insurers should also describe the organisation's processes for identifying and assessing climate-related risks, and describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organisation's overall risk management. They may also describe how risk and opportunities are communicated internally (eg management reports) across the company and where they are communicated externally (regulatory filings, company reports, TCFD, etc.).

7.4 Insurance risk exposures

90. Insurers should disclose the process by which they have identified, assessed and managed climate-related risks and opportunities. Insurers should disclose the process for undertaking scenario analysis, taking into consideration different climate-related scenarios, including physical, transition and liability risk scenarios, and the rationale and limitations of the chosen approach. Insurers should disclose the process for integrating climate-related risks and opportunities into underwriting processes across the business (considering relevance to the nature of the business) over the short, medium and long-term. They may also describe the actions taken in response to risks from climate change, which could include, for example, new exclusion policies, an updated risk appetite statement, new underwriting targets and policyholder engagement efforts. Where third party models have been used, the insurer should provide a description of how they have vetted the model.

7.5 Financial investments and other investments

- 91. Insurers should disclose how climate-related risks and opportunities are factored into relevant investment policies. This could be described from the perspective of the overall investment policy or individual investment policies for various asset classes.
- 92. Insurers should disclose how investment portfolio decisions assess and address asset classes, such as real estate and mortgage-backed investments, which are more vulnerable to rising ocean levels, coastal flooding and storms, drought, wildfire and other natural disasters. They should describe how climate-related risks are factored into investment portfolio decisions and processes, and the potential impact of the portion of the portfolio composed of high-carbon assets on capital adequacy. They should also disclose any considerations for investing in funds focused on innovation, clean technologies and biofuels or in companies committed to climate resilience, how the current investment diversification and geographical asset allocation addresses climate risk, and the efforts to diversify or divest against climate risk and any resulting financial impact.

Box 5: Examples of supervisory practice on disclosure requirements

See also the IAIS/SIF 2020 Issues Paper for further case studies from various SIF/IAIS members taking a range of actions to strengthen climate risk disclosures.

Chinese Taipei

The FSC launched the Green Finance Action Plan 2.0 in August, 2020. In terms of information disclosure, the measures in the Action Plan 2.0 require companies to disclose ESG information (including GHG emission related information) that is financially material





and useful for decision-making; and study the implementation of disclosure of climate-related information in accordance with TCFD recommendations.

In order to enhance the quality of ESG disclosure, the Action Plan 2.0 further expands the scope of listed companies whose ESG reports are subject to third-party verification.

Furthermore, the Action Plan 2.0 lays out plans to construct and strengthen the ESG data integration platforms, which include establishing Taiwan Sustainable Finance Taxonomy and databases integrating climate change and environment-related information for use by businesses and financial institutions in the assessment of potential risks and scenario analysis.

The FSC has required that CSR Reports of 2021 should be prepared and filed by listed life and non-life insurers. For life insurers, the requirement is applicable to those with total assets above a certain level. For non-life insurers, the top five non-life insurers complying with rules shall be subject to third party verification, to disclose the implementation outcomes and in response to climate change.

European Union

In December 2019, Regulation (EU) 2019/2088 on sustainability-related disclosures in the financial services sector, was published and is directly applicable in all EU Member States since 10 March 2021. It applies to financial market participants and financial advisers, including insurers. It lays down harmonised rules on transparency with regard to the integration of sustainability risks, the adverse impact on the investment portfolio and the transparency on ESG characteristics of products marketed as "green" or "social" products. With this regulation, sustainability-related disclosure within the EU should improve considerably.

<u>France</u>

According to article 173 of the French law on ecological transition and green growth, passed in August 2015, French insurers are required to disclose how they take into account ESG criteria in their investment decisions.

ACPR published in April 2019 the main findings of the review of these reports, with the view to call upon insurers to better take into account and manage ESG risks, primarily by developing a prospective approach and making use of appropriate scenarios:

- 76% of the sample issued a dedicated report and 24% included this information in a pre-existing report, such as the annual report;
- All insurance groups described their consideration of ESG criteria and labels used.
 Almost all insurers implemented an exclusion or divestment policy, mostly on the basis of environmental criteria (for instance, divestment from coal mining) and have an investment policy in green bonds;
- The measure of carbon intensity of assets is the most widespread metric for these investment decisions. Other metrics used come from credit rating agencies or public institutions; and
- Only half of the sample specifies whether the climate-related risks to their business
 are physical or transition risks, whereas article 173 requires financial institutions to
 report on their exposure to climate risks, especially the GHG emissions of the
 assets they own (transition risk). Little information is published on how ESG risks
 are managed. Some groups indicate they use stewardship to influence ecological
 transition of firms they invest in. Some groups also set up a team dedicated to social
 responsible investment.





<u>Japan</u>

According to the Act on Promotion of Global Warming Countermeasures and the Act on Rationalizing Energy Use, it is mandated for companies emitting GHGs above certain thresholds to report to the government, which collects and discloses the information. Additionally the Corporate Governance Code, which was adopted by listed companies on a comply-or-explain basis, calls for broader stakeholder engagement highlighting the importance of ESG.

Furthermore, Japan has the highest number of TCFD supporters in the world, amounting to 358 institutions (as of March 2021). This includes 13 insurers, which covers more than 70% of the total assets of the sector. The TCFD Guidance, which was revised by the TCFD Consortium in July 2020, includes specific guidance for life and non-life insurers to further enhance their climate-related disclosure. In April 2021, JFSA and the Tokyo Stock Exchange published a draft revision of the Corporate Governance Code that requires companies listed in the "prime market" to disclose information based on TCFD recommendations based on a "comply or explain" basis. The revision will be finalised in June 2021 after public consultation.

Switzerland

Financial institutions have until now displayed varying levels of transparency with regard to disclosure of climate-related financial risks. In order to create more transparency, FINMA is therefore specifying the disclosure requirements pertaining to these risks for large financial market players. For this purpose, FINMA conducted a public consultation ³⁰ until January 2021 on the planned amendments in its Public Disclosure Circulars for Banks and Insurers.

For the insurance sector, it is proposed that large insurance companies and insurance groups are required to make their climate-related financial risks transparent from 2022 onwards. The approach is based on the recommendations of the TCFD.

In terms of content, the following principle-based elements should be covered and disclosed:

- Governance: description of how the Board of Directors fulfils its oversight responsibilities in respect of climate-related financial risks;
- Strategy: description of the key climate-related financial risks identified short-term, medium-term, and long-term risks, as well as their impact on business strategy, business model, and financial planning;
- Risk management: description of the risk management process for the identification, evaluation, and addressing of climate-related financial risks; and
- Quantitative information on climate-related financial risks and the methodologies underpinning such information.

Transparency with regard to climate-related financial risks at supervised entities is an important first step towards the expedient identification, measurement, and management of such risks. More comprehensive and uniform disclosure of climate-related financial risks by major financial market protagonists will improve transparency and lead to greater market discipline.

United Kingdom

³⁰ See <u>Transparency obligations for climate risks - FINMA opens consultation</u> (10.11.2020)





In 2015, Mark Carney, in his capacity as chair of the FSB, established the TCFD. The Bank and Mark Carney, in his capacity as its Governor, have promoted the importance of clear and reliable climate disclosures to regulated firms, including insurers.

In 2019, the Bank strengthened its support for climate-related financial disclosures by setting out expectations in a supervisory statement³¹ that PRA-regulated firms "develop an approach to disclosure on the financial risks from climate change". This asked firms to:

- Consider whether further disclosures (beyond existing requirements) are necessary to enhance transparency on their approach to managing the financial risks from climate change;
- Develop and maintain an appropriate approach to disclosure of financial risks from climate change; and
- Engage with wider initiatives on climate-related financial disclosures, such as TCFD, and to take into account the benefits of disclosures that are comparable across firms.

To help inform the Bank's view of best practice, beyond what it has stated in the 2019 supervisory statement, the PRA convened the Climate Financial Risk Forum jointly with the Financial Conduct Authority. The objective of this industry forum is to build capacity and share best practices to advance financial sector responses to the financial risks from climate change. The forum has set up four technical working groups to produce practical tools and guidance; one of the four working groups is focused on disclosure. The outputs from the Forum were published at the end of June 2020. 32 Also in June 2020 the BoE published its first TCFD-aligned climate report, setting out its approach to managing the risks from climate change across its entire operations and what it is doing to improve its understanding of these risks. The PRA's supervisory focus for 2021 will be on assessing the extent to which firms have fully-embedded the supervisory expectations in SS3/19 by the end of 2021.

Finally, the UK Government's Green Finance Strategy sets an expectation for publicly listed and large asset owners to disclose in line with the TCFD Recommendations by 2022. To help operationalise this expectation, the Bank is a member of a joint taskforce of UK regulators, chaired by the Government, that developed and published a Roadmap charting a path to mandatory TCFD-aligned disclosures across the UK economy by 2025, with the majority of measures introduced by 2023.

United States:

In the US, the Climate Risk Disclosure Survey was adopted by the NAIC in 2010. Currently, the survey is being administered in a multi-state initiative that includes California, Connecticut, Minnesota, New Mexico, New York and Washington. The survey's eight questions ask insurers to provide a description of how they incorporate climate risks into their mitigation, risk-management, investment and business plans and identify steps taken to engage key constituencies and policyholders on the topic of climate change.

Responses are collected annually from insurance companies with direct written premiums over USD 100 million (about 1,200 individual insurers representing over 70% of US direct written premium) and annual responses are organised into a publicly accessible database, located on the California Department of Insurance website.

See https://www.bankofengland.co.uk/-/media/boe/files/prudential-regulation/supervisory-statement/2019/ss319.pdf?la=en&hash=7BA9824BAC5FB313F42C00889D4E3A6104881C44

See https://www.bankofengland.co.uk/climate-change/climate-financial-risk-forum





Insurers were encouraged to incorporate FSB TCFD guidelines when answering the Reporting Year 2018 NAIC Climate Risk Disclosure Survey, which could effectively align the survey with the TCFD guidelines. For the Reporting Year 2019 NAIC Climate Risk Disclosure Survey, which was due from insurers in 2020, participating insurers were allowed to submit a TCFD report in lieu of the NAIC Climate Disclosure Survey; as a result, 85 individual companies and eight groups submitted TCFD reports.³³

³³ More about the survey, including all survey responses over the past ten years, can be found at the following link: http://www.insurance.ca.gov/01-consumers/180-climate-change/ClmtRskDsclsrSrw.cfm