





STUDY

Second Committee of the General Assembly

Review of the implementation of the Sendai Framework for Disaster Risk Reduction 2015–2030



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Main findings and recommendations of the midterm review of the implementation of the Sendai Framework for Disaster Risk Reduction 2015–2030

Summary

The present report contains a summary of the findings and recommendations of the mixture nevers of the implementation of the Send Travenetts of Distant Risk Retaction 2015–2018 In examining progress made and childrages experienced since POSI to retirating the expected notiones—and position prevent new and reduce existing distaster risk, the mixture review explores efforts to integrate risk reduction into decision-mixting, investment and behaviour that spanned sectors, disciplines, geographies and scales so as to prompt re-cumination and reduces of our relationship with risk.

The findings and recommendations are the result of inclusive, government-led and multi-stakeholder consultations and review, consistent with the guiding principles of the Sendai Framework for Disaster Risk Reduction 2015–2030 as an "all-ofsociety" and "all-of-State institutions"! undertaking.

The United Nations Office for Disaster Risk Reduction expresses its

appreciation to all Member States and non-State stakeholders whose genuine interest in and commitment to the process informed the findings and recommendations of the report. Special gratitude goes to the 75 Member States which conducted national consultations and review and the 25 organizations, finals and programmes of the United Nations system, the 26 constituencies associated with the Stakeholder comparations and individuals that provided contributions. 27 groups, 1 Definition

The midterm review was launched by the UN General Assembly to evaluate global and national progress in implementing the Sendai Framework's goals. It helps identify gaps, share lessons learned, and recommend strategies for accelerating disaster risk reduction efforts by 2030.



The Sendai Framework for Disaster Risk Reduction 2015–2030 is the United Nations' global agreement that guides countries in reducing the risk and impact of disasters by focusing on prevention, preparedness, and building resilience to both natural and manmade hazards.



Sendai Framework for Disaster Risk Reduction 2015–2030 (General Assembly resolution 69/283,

² All Member State and non-State stakeholder contributions to the midterm review are available online at https://sendaiframework-mtr.undrr.org/mtr-sf-submissions-and-reports.

- I. Retrospective review
 - A. Progress towards realizing the priorities and targets

The Sendai Framework for Disaster Risk Reduction 2015–2030 represents a shift from managing disasters to an approach of understanding and managing disaster risks inherent to the decisions and actions within social, economic, political and environmental systems in all gooranthies and at all scales.

- 2. The increasing number of countries reporting on Sendai Framework implementation indicates growing commitment to a more nuanced understanding of risk, with 93 per cent of Member States conducting midterm review consultations reporting improvements in risk information and management.
- 3. While progress has been made toward realizing Sendai Framework priorities, it is not consistent across countries. The unique challenges faced by the least developed countries, limitocked developing countries and small island developing States continue to hinder realization of the Framework outcome and are.
- 4. Global secess to disuster data and applicable risk knowledge, including humand and young symmic Pressions includent. Interested economic costs of disasters are not material with filamening for disaster risk reduction, and challenges remain in quantility give indistingent perceive filamening embedding in public and continues, compounded by the impacts of climate change, a durantic servace in efforts is needed to residue the Seadal Farinava when expected outcome, good and priorities for action.
 7. For enable Member States to effectively report on prospess in implementation,
- an online reporting instrument and data portal the Scalala Framework monitor war stabilished in 2018 to enast the 2016 for recommendation of the open-ended intergovernmental expert working group on indicators and terminology relating to from 85 countries in 2018.

 So with the contraction of the contraction of the contraction of the contraction of the three contractions of the contraction of the contraction of the contraction of the contraction of the security of the contraction o

to realize the Framework expected outcome and goal by 2030.

- (a) Target A. Substantially reduce global disaster mortality by 200.9 The except and senting date; 2017-2021; 16.233 (pp. 4). decrease per 100,000 people from 1.77 in 2005-2014 to 0.34 in 2012-2011, this represents an improvement in the average annual number of detasts and missing persons in the event of a disaster. However, the COVID-19 pandamic office this improvement, custing 599-279 details the control of the Framework monitor. These figures are likely a justification underestimation in the
- Health Organization (WHO) estimates 1.9 million deaths in 2020 and 3.5 million deaths in 2021 and 3.5 million deaths in 2021 as result of the pandemic. 3

 (b) Target B: Substantially reduce the number of affected people globally.

 The number of persons affected by disasters per 100,000 people as increased from 141-111 (2025) 2014 to 2 feet or 2025. 2021

 142 in 2025 2014 to 2 feet 2 f
- (c) Target C: Reduce direct disaster economic losses in relation to global

 Fross domestic product (GDP). The average direct economic losses per year from

Definition

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6a Did You Know That

According to the most up-to-date figures from the UNDRR's Sendai Framework Monitor, From 2015 to 2023, the average annual global disaster-related death (excluding COVID-19) stood at 41,683 people per year. This is a slight decrease compared to the previous period, but still a very significant number.

Did You Know That

Over 400,000 people were affected by disasters every day during this period. This scale of exposure is a strong reminder, of how widespread disaster impacts are even outside of major headlines and it highlights how crucial it is to invest in prevention and

[!] See https://covid19.who.int/.

2015 to 2021 exceed \$330 billion - approximately 1 per cent of total GDP of reporting countries - is estimated to be significantly undervalued. While the economic impact of geophysical disasters has remained stable over recent decades, annual economic loss from climate and weather-related events has risen significantly over the past decade.

(d) Target D: Reduce disaster damage to critical infrastructure and basic

services disruptions. The number of critical infrastructure units and facilities destroyed or damaged by disasters averaged 142,852 per year from 2015 to 2021. 2020 and 2021 in 44 reporting countries, including health and educational services.

(c) Target E: Increase national and local disaster risk reduction strategies.4 The number of countries with national disaster risk reduction strategies increased from 55 in 2015 to 125 in 2021. The number of countries with strategies promoting policy coherence and compliance, notably with the Sustainable Development Goals and the Paris Agreement, has reached 118, compared with only 44 in 2015. A total of 99 countries have reported having local governments with disaster risk reduction strategies.

(f) Target F: Enhance international cooperation for disaster risk reduction.5 In the past decade, 42 developing countries reported receiving official development assistance (ODA) for national disaster risk reduction actions, and 26 countries have reported providing ODA support 5 Of the disaster risk red le available from 2010 to 2019, 4.1 per cent was snent on disacted



While earlier reports estimated global disaster-related economic losses at over US\$330 billion annually (around 1% of GDP) undated Sendai Framework Monitor data covering 2015-2023 shows the average is now closer to US\$200 billion per year, about 0.3% of the GDP of reporting countries. However, UNDRR notes that certain cascading, ecosystem, and macroeconomic impacts push the total lost toll to around US\$2.3 trillion globally, once systemic effects



From 2015 to 2023, disasters destroyed or damaged an average of 92,199 critical infrastructure units and facilities per year including schools, hospitals, and water or power systems. It is evident that the number has decreased in 2022-2023. Several possible reasons could be Improved resilience and protection of infrastructure in some regions. Changes in reporting coverage or methodology or even Fewer high-impact disaster events in the final two years (2022-

Interesting Facts

131 countries have reported having a national DRR strategy aligned with the Sendai Framework as of late 2023

Interesting Facts

More than one-third of UN Member States have either given or received DRR-focused development assistance in the past decade, but the majority of countries weren't engaged in either direction, showing untapped potential in global disaster cooperation. For now, international aid for prevention is still limited to a relatively small group of donor countries.

015 to 2021 exceed \$330 billion - approximately 1 per cent of total GDP of reporting ountries - is estimated to be significantly undervalued. While the economic impact of cophysical disasters has remained stable over recent decades, annual economic loss

- (d) Target D: Reduce disaster damage to critical infrastructure and basic services disruptions. The number of critical infrastructure units and facilities destroyed or damaged by disasters averaged 142,825 per year from 2015 to 2021. Disasters, including COVID-19, also disrupted more than 363,184 basis services in 2020 and 2021 in 44 reporting countries, including health and educational services.
- (c) Target E: Increase national and local disaster risk reduction strategies 4-th number of countries with national disaster risk reduction strategies and increased from 5-in 2015 to 125 in 2021. The number of countries with strategies promoting policy coherence and compliance, notably with the Statistianal Development Goals and the Paris Agreement, has reached 11K, compared with only 4-in 2015. A total 6-99 countries have reported having boal personment in the contribution.
- Target F, tabance international congenition for disease risk reduction. The past seek at 2 development represents receiving official development of the past seek at 2 development represents receiving official development of the past seek at 200 A, for the past seek at 200 A, for the past seek at 200 A, for the past seek at 200 A, past seek at 2
- (g) Target G: Increase availability and access to early warning systems and risk information. Of 120 countries reporting via the Sendai Framework monitor, 95 reported the existence of multi-hazard early warning systems.

2,203 examples of capacity development from 2005-2020.

- 7. The Sendai Framework clearly recognizes that the least-developed countries, landlocked developing countries and small island developing States free numerous resource and capacity challenges. These countries account for approximately 23 per cost of deaths and missing persons despite representing only 11, for per card of the total countries account for approximately 23 per cost of the contribution of the countries reporting. From 2012 to 2012, dissuste mentaling values of the CDP of countries reporting. From 2012 to 2012, dissuste mentaling and countries reporting in From 2012 to 2012, dissuste mentaling and countries reporting the countries report the countries report
- averaged 1.28 and 2.54 deaths 'annually per 100,000 population in reporting leastdeveloped countries and landlocked developing countries, and up to 13 deaths per 100,000 population annually in small island developing States, compared with a global average of 0.34 per 100,000 population.
- While the inclusion of COVID-19-related data in the Sendai Framework monitor is demonstrative of how countries are addressing the broadened scope of the
- United Nations Office for Disaster Risk Reduction, Status Report on Target E Implementation (Geneva, 2020) (available at www.undrr.org/sublication/status-coort-target-e-implementation-2020)
- and target E report 2022 (feethcoming).

 United Nations Office for Disaster Risk Reduction, "International cooperation in disaster risk reduction: Target P" (Geneva, 2021) (available at www.under.com/unbication/international-
- cooperation-disaster-risk-reduction-target-1).

 Economic and Social Council and United Nations Office for Disaster Risk Reduction, Gaps,
 Challenger and Controllers in Means of Implementing the Soudar Framework for Disaster Risk
- Reduction to Small Island Developing States (2022).

 United Nations Office for Disaster Risk Reduction and World Meteocological Organization (WMO),

 "Global status of mali-hazard early warning systems: target O" (Geneva, 2022). Available at

 www.undr.core problection/eighal-status-multi-hazard-early-warnn-wystem-tenesis-e-

6f Something to Think About

Why is so little funding allocated to prevention when it is often more costeffective than response?



According to global statistics, disaster-related deaths are much higher in the most vulnerable countries, despite global frameworks in place.

- Framework (to include biological, environmental and technological, hazards and risks).8 more work is needed to represent human-made and natural hazards and risks.
- 2. Gapo remain in data collection and analysis at the substational and national levels, with very few countries reporting sex, age and disability disaggregated data to the Sendal Framework monitor. This challenge is not extracted to developing economics. Disaggregation of how hazards and risks, as well as disaster impacts, affect difference groups within communities and nations is excention to understand the
- 10. Nevertheless, the Sendali Framework has contributed to enhancing standards and quality in disaster data collection and analysis. The United Notions Office for Disaster Rata Reduction has led efforts to engage antional statistical offices to integrate Sendali and the standard of the standard of
- 11. By providing common metrics and data, the Sendai Framework is promoting mutually supportive and streamlined monitoring of progress in different international frameworks and mechanisms, greater coherence of multilateral agendas, reduced reporting burden on countries, integration of agendas and convergent implementation.

B. Progress in implementing the Sendai Framework for Disaster Risk Reduction 2015–2030

Priority 1: Understanding disaster risk

- 12. Risk is better understood since 2015, but more is needed in assessing and addressing core elements of risk – particularly in respect of the drivers of risk creation and vulnerability of people and the ecosystems upon which they depend.
- 13. The collection and utilization of disaster risk reduction data have improved globally, with notable advances in risk information and management. A total of 110 Member States are using Deslaventary collecting loss and damage data on the human and socioeconomic consequences of realized risk (disasters).
- 14. As a result, knowledge of the frequency and intensity of natural hazards, and the exposure of people and assets, has improved. This is less the case for human-made hazards and risks.
- are moment of trus motions and rust assessment studies has increased. However, fewer than half of the countries reporting against femiled Framework tragets indicate having fit for purpose, accessible and actionable risk informations. States in the Engineering Company of the Company of

6f Something to Think About

If disaster data doesn't reflect differences in age, gender, or disability, whose needs are overlooked in planning and response? What happens when evacuation routes aren't accessible, shelters aren't safe for women, or ald doesn't reach older people? Remember that data gaps don't just affect reports, they shape who lipses and who is left behind.



The Sends Framework's 28 global indicators were developed to track progress toward its seen targets - ranging from reducing disaster mortally and economic loses to disaster mortally and economic loses to disaster mortally and economic loses to provide the provide seen to the provide se

13 Interesting Facts

The name "Destinventat" comes from Spanish combining "desautes" (disasters) and "inventario" (disasters) and "inventario" (inventory). It was originally developed in Latin America to document overlooked disaster losses, and is now used worldwide to help countries build local disaster databases and systematically track and analyze disaster impacts.

^{16.} Improvements in the comprehensive understanding of the systemic nature of risk in protracted crises have been reported, specifically in the interaction of violence, conflict and disaster risk – notably the numerous ways that structural risk drivers in

Sendai Framework, para. 15.
Disaster loss data for the Sustainable Development Goals and the Sendai Framework monitor

- Framework (to include biological, environmental and technological, hazards and risks),8 more work is needed to represent human-made and natural hazards and risks.
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- B. Progress in implementing the Sendai Framework for Disaster Risk Reduction 2015–2030
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 - 15. The number of risk models and risk assessment studies has increased. However, fewer than half of the countries reporting gainst Sendial Framework targets indicate having fit-for-purpose, accessible and actionable risk information. States in the Economic Community of West Afficias States (ECWAS) yas the Economic of Community of West Afficias States (ECWAS) yas the Economic of Community of West Afficias (States) (EVCAS) vereopiate that the absence of data limits understanding and ability in sudates (EVCAS) vereopiate that the absence of states in the work of the control of the co
 - 16. Improvements in the comprehensive understanding of the systemic nature of the interaction of violence, conflict and disaster risk notably the numerous ways that structural risk drivers in

4/28

16 Definition

different types of risks are interconnected across sectors and can trigger cascading effects. Rather than occurring in localistic, and the sector of the control of the con

The systemic nature of risk refers to how



What happens when disaster risks interact with ongoing conflict or political instability? How can one type of crisis worsen another?

Definition

Structural risk drivers include poverty, poor governance, or inequality and conditions that worsen disaster impacts and slow recovery.

Sendai Framework, para. 15.
Disaster loss data for the Sustainable Development Goals and the Sendai Framework monitor.



- protracted crises interact with and exacerbate vulnerability. Progress in risk reduction in conflict and post-conflict areas remains challenging.10
- 17. There are a growing number of useful indices advancing understanding of systemic risks, combining natural hazard-related data with data on pandemic threats, protrated crises, violence and armed conflict, conomic insecurity and other measures. The multidimensional vulnerability index (measures a country's vulnerability to shocks so that those most in need can define apposite and context
 - specific solutions to risk information and management.

 18. While risk information and sharing are increasingly integrated into national decision-making, improvements are needed in strengthening and mainstreaming monitoring, evaluation and learning processes and underlying knowledge-management platforms. This is essential for better assessing the effectiveness of cross-sector and cross-scale resonous and casturine lessons for supporting the control of the control of

transfer or scaling-up of successes.

- 19. Effetts to better understand diaster risk increasingly eccompass aspects of juristice, social colorison and human rights. Consistent with the Scale Transecork, guiding principles, effects continues to operationalize right-hand geproaches to guestion of the continues of the
- 20. New and emerging technologies present opportunities for overcoming data gaps. The scarcity of quality, interoperable or accessible data remains an orablook to effective disactors risk electricity, when the data is a waitable and tools such as weather station network cutsf, lack of capacity to interpret data and develop risk donors support in needed for capacity-building.
- 21. Information and guidance on addressing technological hazards are now available and several United Nations organizations are supporting Member States in improving understanding of and reporting on human-made hazards and risks. In 2020, a hazard definition and classification review 13 was published, together with hazard information profiles which outline a detailed description of each hazard.
- 22. To respond to the need for expanding our understanding of the systemic nature of risk, the United Nations system14 has developed knowledge-sharing platforms and

and Cultural Organization (UNESCO) and United Nations University (UNU).

17

Interesting Facts

Tools like the Multidimensional Vulnerability Index go beyond GDP to measure how exposed a country is to shocks including pandemics, conflict, and disasters. These indices help shift attention from how rich a country is to how resilient it needs to be



If donor funding often supports equipment and technology, what might be the impact of placing more emphasis on building local capacity like training people to interpret and apply data effectively?

^{**} For example, the Arab region identifies the least progress in disaster risk reduction in post-conflict

and conflict areas.

Submission from Bosnia and Herzegovina.

¹³ Submission from Bosnia and Herzegovina. 12 E/2022/22-E/CN 6/2022/16 page 56

A valiable at www.undro.org/publication/hazard-definition-and-classification-review-technical-report.

For example, Food and Agriculture Organization of the United Nations (FAO), Economic and Social Commission for Axis and the Pacific (ESCAP), United Nations (FAO), Economic and Social Commission for Axis and the Pacific (ESCAP), United Nations Educational, Scientific

expert networks to exchange technical knowledge and good practices. Initiatives such as the Risk Information Exchange 5 enhance our understanding.

Priority 2: Strengthenin disaster risk sovernance to manage disaster risk

- A total of 123 countries have reported the development of national disaster risk reduction strategies, yet implementation at the local level faces critical gaps, l6 The least-developed countries present less progress, and only 61 per cent have developed national disaster risk reduction strategies.
- 24. There has been considerable progress in regional cooperation and disaster risk reduction governance mechanisms, I7 with improvements in regional disaster risk reduction governance having inter alia reduced barriers in small Island developing States and the least-developed countries to implementing disaster risk reduction
- 25. There has been limited progress at the local level. Only 99 countries reported having local governments with disaster risk reduction strategies. Numerous least-developed countries, small sland developed States and landlocked developing countries identified a near complete absence of local government and community involvement in disaster risk reduction balanties.
 - 26. There is minimal evidence of improvement in coordination mechanisms.

 Institute risk reduction agreeise and policies continue to limit integrated risk information of the control of t
 - countries continue to limit disaster risk reduction effectiveness. 18 While some countries have made ambitious plans to enhance collaboration, without the transformation of organizational structures and mandates, little channe is obse
 - disaster risk reduction, elimate change and development, let alone priority mercoeconomic sectors, as noted in the American and the Caribbean and Africa. Small island developing States identified that diminishing duplication is essential to reduce disaster risk reduction financing gaps. Greater integration of risk-informed decision-making and investment across sectors and scales it required if the Sendai Framework
 - While most countries identified the importance of updating legal frameworks to acilitate the implementation of disaster risk reduction plans, risk-informed decision-



The Risk Information Exchange (RX) is an open-access platform created by UNDRR that serves as a centralized hub for disaster risk exposure, vulnerability, lors and damage, and local sources. RX is designed to be compatible, standardized, and sclabble, being governments, planners, and humanitarian partners access quality risk incompanies of the compatible of the compatib

23 Something to Think About

This highlights a common governance challenge: a disconnect between national policy and local action. What specific barriers could be preventing national strategies from being effectively implemented by local government?

26 Definition

A "siloed" approach means that different government departments such as Environment, Health, and Finance work in isolation without coordinating.

26 Interesting Facts

The COVID-19 pandemic, despite its devastation, served as a catalyst. It forced governments to recognize that a health crisis is also an economic, social, and logistical crisis, highlighting the critical need for breaking down agency allos.

pulliix.undr.org/.

Global Platform for Disaster Risk Reduction 2022 discussions. Available at

ausuare/DPProceedings DREITAL Lydf.

"For example, the Regional Action Plan for the Implementation of the Sendui Framework for Disaster Risk Roduction 2015–2030 in the Americas and the Caribbean (available at

reduction-2013-0) and the Arab Strategy for Disaster Risk Reduction (available at https://www.persitionreductifices/9464-audrereportionidefinalforwish.pdf).
Submission from: Burkins Fass, Niger, Tucklys; and Economic Community of West African

- expert networks to exchange technical knowledge and good practices. Initiatives such as the Risk Information Exchange 15 enhance our understanding.
- Priority 2: Strengthening disaster risk governance to manage disaster risk
 - reduction strategies, yet implementation at the local level faces critical gaps. 16 The least-developed countries present less progress, and only 61 per cent have developed.
- 24. There has been considerable progress in regional cooperation and disaster risk reduction governance mechanisms, 17 with improvements in regional disaster risk reduction governance having inter alia reduced barriers in small island developing. States and the least-developed countries to implementing disaster risk reduction
- 25. having local governments with disaster risk reduction strategies. Numerous least-developed countries, small island developing States and landlocked developing countries identified a near complete absence of local government and community.
- 26. There is minimal evidence of improvement in coordination nechanisms. Siloed Hisaster rule relation agreeies: and publicies continue to limit integretard rule informafaction-making before risk manifests as a thoric or disaster. However, since the ounce to a silver of the control of the control of the control of the control of the importance of transitioplinary, intersection and multi-scale coordination within rountries to enhance disaster risk reduction expansities, reduce duplication of efforts at financing and enable preventive measures that minigate or road reactive are financing and enable preventive measures that minigate or road reactive.
- 27. Nevertheless, a significant number of countries identify that silos within countries continue to limit disaster risk reduction effectiveness. I8 While some countries have made ambitious plans to enhance collaboration, without the transformation of organizational structures and mandates, little change is observed.
 28. There remains a lack of coordination between institutions responsible for
 - disaster risk reduction, climate change and development, let alone priority microcrocomes, sectors, as noted in the Americas and the Tambbean and Africa. Small island developing States identified that diminishing duplication is essential to reduce insater risk reduction financing agos, Certaer integration of risk-informed decision-making and investment across sectors and scales is required if the Sendai Framework is to be realized by 3000.
 - While most countries identified the importance of updating legal frameworks to facilitate the implementation of disaster risk reduction plans, risk-informed decision-



Disaster risk, climate adaptation, and sustainable development are deeply linked. Why do these three areas often have separate government bodies and funding streams? How could a country better integrate them to improve efficiency and

Whitps://rix.under.org/.

See Global Platform for Disaster Risk Reduction 2022 discussions. Available at https://globalplatform.undrr.org/sites/default/files/inline-files/Global%20Platform%

²⁰²⁰²²⁴²⁰Proceedings DRGITAL 1.pdf.

For example, the Regional Action Plan for the Implementation of the Sendai Framework for Disaster Risk Reduction 2015–2030 in the Americas and the Caribbean (available at

www.undrr.org/publication/regional-action-plan-implementation-sendul-framework-disaster-risk-reduction-2015-0) and the Arab Strategy for Disaster Risk Reduction (available at https://www.percentineurch.extfiled/9464 auditor-portinoide/inal/provels-pdf).
Salemissions from: Burkins Faso, Niger, Turkiye; and Economic Community of West African States (ECONAS).



making and investment, owing to lack of financial resources, organizational capacity or political will, propress is largely confined to high-income countries.

30. Several countries identified that assistance in establishing legal frameworks to support risk reduction strategies and policies across and between multiple sectors and scales is a priority. Among improvements in this area is the passing of legislation to provide a legal basis for addressing new and emerging risks, such as eybersecurity 19 or intensityling impacts of climate change.

Priority 3: Investing in disaster risk reduction for resilience

 Sespite increases in direct and indirect economic impacts of disasters, investments in disaster risk reduction and efforts to de-risk investment remain inadequate.

- 12. In the past 20 years, climate exhibit disasters alway almost doubted. Developing countries need an estimated \$70 billion annually for adoptation. 20 The Africa region is total GDP in reporting years. Disaster risk reduction-related ODA has however barely uncreased, bith only \$67 per cent from 2010 to 2010 #26 dated and disaster risk reduction deliaster risk. Post-2010 to 2010 #26 dated and disaster risk.
- 33. Some 99 per cent of ODA is garred lowards recovery, with only 10 per cent for prevention 22. In 2018 and 2019, only 14 per cent of fort disaster-related ODA was spent on disaster prevention and preparedness, equiting to only 30.30 on per-compitive actions for every 5310 oper on development and 21 Evidence suggests that ODA is not targeted to regions and countries where it is needed most. Several respondents and attribute this minimisectation of recourse to poor measurement. Underreporting and arthrotic this minimisectation of recourse to poor measurement. Underreporting and countries where it is needed most. Several respondents arthrotic this minimisectation of recourse to poor measurement. Currective measurement of the countries of the
- 14. Domestic structures and investment are bundened by limitations of international cooperation for disaster risk reduction. Although several countries have established integrated antional financing frameworks and disaster risk reduction funds, domestic unvestment in finaster risk reduction remains challenged. Public secure disaster risk radiation are supported to the result of the results of the results
- 3.5 Several countries lack formal disaster risk reduction financing frameworks, which can led to an overcellases on dosort finaling and cubes measures supporting long-term disaster resilience. Challenges in assessing the direct and indirect proportions of disaster risk reduction allocation in longester remain. Limitations and lack of interoperability in risk and financial data impede informed decision-making output and the control of the control of

32 Interesting Facts

This alarming statistic highlights how climate change is increasingly driving the frequency and intensity of disasters around the world



Official Development Assistance overwhelmingly favors post-disaster recovery over pre-disaster prevention. Why does this imbalance exist, and how can the international community shift its financial priorities toward proactive risk reduction?

3

Submission from United States of America.
 See United Nations Office for Disaster Risk Reduction. "International cooperation in disaster.

risk reduction: target F" (2021) (see footnote 4).

Illisid.

Natalis Danback: "What we can learn from diseaser risk reduction efforts in small islands."

Devex, 12 February 2020.

"United Nations Office for Disaster Risk Reduction, "International cooperation in disaster risk reduction tages F" (2021).

²⁶ United Nations Office for Disaster Risk Reduction, "Accelerating financing and de-risking investment", policy brief, 2021.



- are not ad hoc or one-time exercises, specific tagging and tracking systems should be feveloped, with entities assigned the mandate and responsibility for systematic analysis and review 25.
- 16. The least-developed countries and small island developing States identify technical and human capacity contrastitats as one of the ky missing investments in disaster risk reduction. While some investment in technology transfer and reasencapacity through regional platforms and south-outle cooperation is observed, the least-developed countries and small island developing States recommend to the contrastitute of the contrastitute of the contrastitute of the contrastitute of the applying for and managing OLD.
- 17. Areas of disaster risk reduction fluories in twick investments have increased globally include. <u>Sure twicting twicting</u> 50 which can assist in addressing the multidimensional nature of volterability and the systemic nature of risk; and nature-based doubtons, which countries increasingly see as soldhea and effective in simultaneously addressing the growing challenges of climate change, biodiversity reduction statespies, and discovating freatment without countries disaster risk reduction statespies, and discovating freatment without countries. disaster risk reduction statespies, and discovating freatment without countries.
- 18. Furthermore, initiatives on financing anticipatory action are growing. These include the Risk-informed Early Action Pattership, but Funkeships the Unification of the Pattership and efforts made under the Grand Bargain to further address the humanitarian financing gar by califact fine greater investments in anticipatory finance. 28
 39. While private sector awareness of the early of the street in resilience has increased. 29 the section of the pattern of the pat
- 40. Despite paragraph 36 (c) of the Sendal Framework, article 2.1 (c) of the Paris Agreement and calls for the alignment of financial flows with the Convention on Biological Diversity goals and targets, many aspects of the financial system, macroeconomic policy and public and private financial continuous to certain disaster risk. Instead of enhancing the resilience of societies, current investments often conventionally and proposed and the calls of community, apply chains and ecosystems.

reduction in decision-making, little progress is expected.

41. Although the Sendai Framework heralds the shift to managing drivers of risk, risk financing remain heavily focused on reactive measures, such as contingency funds, insurance and catastrophe bonds to finance post-disaster response and catastrophe to the response of the response of the response of the response of the response response to the response of the r



Adaptive Social Protection refers to systems like cash transfers or food assistance that are designed to expand rapidly during crises, helping vulnerable populations respond to shocks such as floods, droughts, or other disasters by linking social support directly to risk management.



The private financial sector focuses on reacting to disasters while leaving prevention entirely to governments. How can governments create policies and incentives to make risk prevention a profitable and programs covern for private investors.

²⁹ United Nations Office for Disaster Risk Reduction. "Disaster risk reduction investment in Africa

evidence from 16 risk-sensitive budget reviews" (2020).

Tor example, the Sahel Adaptive Social Protection Programme.
For example: the Climate Resilient by Nature initiative of the Government of Australia, launched in 2021, seeks to enhance nature-based no obtains for disaster resilience in the Indo-Pacific; and

the United States integrating nature-based solutions within its critical infrastructure models.

**State Petras, "Evidence of positive progress on disaster risk reduction in the lumanitaria-development-peace excut" (Geneve, 2023).

**Stor extends the Private Science Allience for Disaster Benilium Societies (ABSES) added networks.

now has over 400 members and 29 networks supporting and implementing the Sendai Framework.

See EFFDF/2027/L.1.



42. While the private sector's engagement in environmental, social and governance factors, sustainability reporting and disclosure standards have improved, beyond climate change the connection to disaster risk reduction remains weak. Institutional investors remain largely unable to articulate a coherent, directed approach to disaster risk reduction

- 43. Promising innovations in risk financing lack scale and penetration, despite growing interest in risk financing and risk transfer mechanisms. Innovations include greater use of contingent financing mechanisms, for example catastrophe bonds, 31 "resilience bonds" 33 In 2022, the Group of Seven (G7) development ministers committed to strengthening the architecture of global climate and disaster risk financing and insurance,34 including supporting insurance premium subsidies, providing capital support to respond to the impacts of the climate crisis and closing protection gaps.
- 44. International and national development financing institutions have increased investment both in terms of direct funding and through compliance mechanisms. While focus is often on low and zero-carbon development, many are investing in resilience, adaptation and response, with some considering Sendai Framework priorities. The Asian Development Bank lists key performance indicators for the numbers of people benefiting from strengthened climate and disaster resilience, and the Resilience and Sustainability Trust of the International Monetary Fund (IMF) will assist low-income and vulnerable middle-income countries build resilience to external shocks and longer-term environmental and biological risks, promoting sustainable growth.
- 45. Donors and the private sector have invested substantially in risk transfer mechanisms, such as the Insurance Development Forum, the Sustainable Insurance Facility, led by the Vulnerable Group of Twenty (V20), the work of the International Cooperative and Mutual Insurance Federation, moving from protection to prevention and incentivizing risk-informed behaviours.35 and the Pacific Catastrophe Risk Assessment and Financing Initiative. However, insurance remains underdeveloped in many regions, for example, insurance as a percentage of GDP sits at 1 per cent in the Arab region, significantly below the global average of 3 per cent.
- 46. In both developed and developing countries, insurance affordability and availability is a growing concern as risks increase to the point where some become uninsurable, prompting providers to leave those markets.36 While risk-informed investment that prevents risk creation and reduces existing risk remains the priority. an expansion of appropriate and affordable risk transfer mechanisms is required to close the protection gap.

Something to Think About

The private sector is increasingly focused on climate risk, but why does this focus often exclude other hazards like earthquakes. pandemics, or technological failures? What can be done to promote a more comprehensive, "all-hazards" approach in the

43 Definition

Catastrophe bonds, disaster-linked debt clauses and resilience bonds are types of to release funds quickly after a disaster. They help governments respond without having to divert money from long-term development or recovery plans.

Definition

The Group of Seven (G7) is an intergovernmental organization of seven major advanced economies: Canada, France, Germany, Italy, Japan, the United Kingdom, coordinate economic policy and address global challenges.

Definition

The Vulnerable Group of Twenty (V20) is a coalition of finance ministers from climatevulnerable developing countries. Originally formed by 20 nations in 2015, it now includes 68 members. The group advocates for climate finance, economic resilience, and global support to address the disproportionate

¹¹ For example: the \$52.5 million quick payout for the Government of the Philippines in response to Typhoen Odette from the World Bank Capital-at-Risk Notes facility; and submission from Jamaica.

¹²Submissions from Barbados, Grenada. ¹¹For example, bonds linking project finance for infrastructure with catastrophe bonds. See

[&]quot;Zod Scott, "Finance for early action: tracking commitments, trends, challenges and opportunities" (Risk-informed Early Action Partnership, 2022).

[&]quot;See www.icmif.org/undrr-icmif-report/. "See Aviva Investors. "Act now: a climate emergency roadmap for the international financial architecture" (15 November 2022).



 Priority 4: Enhancing disaster preparedness for effective response and to build back better in recovery, rehabilitation and reconstruction

followed 37

- 47. Strengthenot resilience through distater risk reduction, enabling the prevention of economic, overionmental and human loses in the recur of a crisis, is at the heart of the Sendai Framework outcome and goal. This led to wider understanding of the need for enhanced, risk-informed preparations within distant risk reduction strategies that include, for example, contingent reconstruction plans, pre-approved contracts and frameatic ameragements in adequately overv ulterative populations, reconstructions.
- Progress on priority 4 has been limited, owing to a continued overemphasis on reactive disaster risk reduction measures. Prioritizing speed, significant opportunities are missed to build back better, to accelerate development and improve resilience post-disaster.
- 49. Improvements in cooperation have enhanced the preparathesis and effectiveness of responsess. Number States tell supficilization gains including eligible endanged regional cooperation mechanisms. In the Americas and Caribbean region, the Regional Response Mechanisms Was established to address capacity constraints faced by small island developing States, undesirable gains of the endanged to the endanged to

and y warring systems, overcome measurements or subhikazaral cardy warring systems, overcome measurements or subhikazaral cardy warring systems, overcome measurements or subhikazaral cardy systems or people insubjected year read publicly 39 Only 32 per cent of small tishand developing states, 59 per cent of fundacted developing constraints and 4 per cent of countries in the sub-Sharara Africa region reported having multi-lazaral early warring systems. In merally all countries, marginalized groups (e.g., women and grit, persons with disabilities, people in read areas, holigenous Peoples, then and impantic disabilities, people in read areas, holigenous Peoples, then and impantic disabilities, people in read areas, holigenous Peoples, then and impantic disabilities, people in read areas, holigenous Peoples, then and impantic disabilities, people in read areas, holigenous Peoples, then and impantic disabilities, people in read areas, holigenous Peoples, then and impantic disabilities, people in read areas, holigenous Peoples, and people disabilities are supported to the people of t

51. Donor initiatives have often acted as drivers for multi-hazard early warning systems. For example, supporting 60 countries in improving their early warning systems, the Climate Risk and Early Warning Systems institute was established to close financing gaps for the least-developed countries and small island developing States for trick-demonder only warning services. 41 The theoretic implementation of States for the States of the States of

48 Something to Think About

Post-disaster recovery often focuses on rebuilding quickly rather than rebuilding stronger. How can governments and aid organizations balance the urgent need for recovery with the crucial opportunity to "build back better" and reduce future vulnerability.

50 Did You Know That

According to statistics, despite progress, a third of the world's population lacks access to the early warnings that could save their lives.

50 Something to Think About

Post-disaster recovery often focuses on rebuilding quickly rather than rebuilding stronger. How can governments and aid organizations balance the urgent need for recovery with the crucial opportunity to 'build back better' and reduce future

¹⁷ The Gambia, Liberia, Malawi, Mauritius, Togo and the United Republic of Tanzania established mandatory budgets for emergency preparedness and response.

A harmonized approach led by the Caribbean Diasster Emergency Management Agency, which coordinates Caribbean regional disaster response.

¹⁹ United Nations Office for Disaster Risk Reduction and WMO, "Global status of multi-hazard early warning systems: target G" (see footnote 6).
20 Youth engagement is observed in the Europe and Central Asia Youth Network for disaster risk

reduction.

(Climate Risk and Early Warning Systems, "Annual report 2021: rising to the challenge in complex criters" (2022).

Submissions from Algeria, Austria, Blutan, Bosnia and Herzegovina, Burundi, Ethiopia, Kyrgyzstan, Mauritius, Morocco, Philippines, Slovenia, Sudan, Sweden, United Republic of Taxomia, Thailand, Toor, Turkive, Viet Nam.



- 52. Increased focus on disaster preparedness is apparent across regions; however, woman's incubino and diversity are not yet recognized as integral components of equitable solutions in recovery, rehabilitation and reconstruction. Improvements in management, but the contribution of women and girts skills and capacities to respute for disasters and ensure community resilience is under-utilized. This was cyliders in SEC COVID-19 response, where women compenied lexs has a quarter of all national.
- 53. Community participation in a bottom-up co-creation process is essential in recovery planning. Efforts towards disability-inclusive disaster recovery have been made, and include identitying principles, data requirements, enabling policies, institutional mechanisms and financing. Such efforts are considered essential forneation of the community of the community of the community of the community and implementation of "inclusive" disaster response mechanisms have been limited.
- 54. "Enfante e de la material de la miseranistiq viul-informed and more intergrated. Mediologica and guidance for certaing post-dissister necela assessments continue to be developed, including the COVID-19 recovery seeds assessment. 43 flex being large point and partie interpretation of the chainter perif questionment? and the depart perif post-dissister necela seasonments are valued to the chainter perif question of the chainter period post-dissister necela assessments are valued tools for supporting protection recovery include 1 necessaries are valued tools for supporting protection recovery include 1 necessaries are valued and consideration of the chainter of institutional experience. Statinger remain in creating in non-estimation of post-dissister descriptions. The chainter of institutional experience. Statinger remain in creating in non-estimation of post-dissister descriptions.
- 55. Confination within the United Nations system on disaster risk relutions in temporary. The United Nations Passed Actions to Disaster Risk Relutions for Resistance—Travaria a Risk attented and Integrated Approach to Statistanks (Resistance—Travaria a Risk attented and Integrated Approach to Statistanks (Resistance). The Resistance of Resistance and detection and resistance and resistance

11 Prospective review

56. This prospective review provides an overview of key issues and measures to accelerate and amplify Sendai Framework implementation in the years to 2010. It would find the retrospective review and integrates assessment of coacest shifts and Sendard Sendard

52 Interesting Facts

This statistic highlights a significant gender imbalance in disaster response leadership, a key issue in ensuring equitable recovery



The Post-Disaster Needs Assessment (PDNA) is an internationally accepted methodology for determining the physical damages, economic losses, and costs of meeting recovery needs after a natural disaster through a government-led process. It forms the basis for

54 Something to Think About

If a country cannot accurately measure its losses after a disaster, how can it effectively plan for recovery, prioritize resources, or make a case for international aid? What technologies or methods could help close these data gass?



Sendai Framework is not a standalone document; it is supported by specific action plans within the UN system to ensure a coordinated and effective approach to helping countries build resilience.

https://recovery.preventionweb.net/build-buck-better/post-disaster-needs-assessments/covid-19-recovery-needs-assessment.
See www.sffer.ors/intrublication/methodolouv-nete-slobal-rapid-nest-disaster-damage-

estimation-grade-approach.

See www.unescap.org/publications/innovations-disaster-rapid-assessment-framework-early-

recovery-asean-count See A/72/259.

- 57. Reducing risks is one of the central components of astroguarding human critiseness and accustive. AC turner conventional crisis response and risk management can no longer cope with interconnected disruptions—as seen for example is not accordance to the contract of the contract o
 - 58. With growing uncertainties and increasingly complex tisks, amplified by increasing disaster impacts and losses, belief in our collective ability to achieve the 2010 A gendu pepers to be vaning 51 [Imman inserging is on the rate, with disasters. 2010 A gendu pepers to be vaning 51 [Imman inserging is on the rate, with disasters our ability to anticipate and prepare for major shocks. In addition, we late: Imman in the person of the person of
- 59. The biggest transformations needed for achieving the 2030 Agenda and other internationally agreed frameworks and agreements require a systemic approach that manages interdependencies and interactions between goals and trapets. Governments need to shift priorities to policy convergence, overcoming sectoral silos and developing new integrated approaches that take into account systemic interactions.
- on sum possions pointy vorsetgence, verecoming sectorist sides and developing new integrated approaches that take take occur systemic interactions and every contractive to the contra

Recommendations for action

Reiterated commitment and efforts of traditional disaster risk reduction stakeholders, as well as novel collaborations with other stakeholders, are needed to correct course and ensure that the Sendai Framework is fully realized by 2030.

6.2. The midterm review of the implementation of the Sendai Framework for Disaster Risk Redoction 2015-230 Peveals commitment to the realization of the guiding principles of the Framework, in particular, the importance of governing and managing risks in a manner that develops disaster risk reduction activation. So for the effectiveness and equity of disaster risk reduction actions and submitted the process of a continuous control of the process of the results of t

Α.

58 Interesting Facts

The concept of human insecurity goes beyond physical safety, it includes lack of access to healthcare, education, stable income, and dignity, all of which are threatened by

58 Something to Think About

Countries with large military space programs often worry about hostile attacks on satellites, anti-satellite weapons, or interference with command systems. They see

62 Definition

An "all-of-society" approach means that responsibility for disaster risk reduction is shared among all stakeholders, including national and local governments, the private sector, civil society organizations, scientific institutions, and individual citizens.

United Nations. Our Common Arenda: Report of the Secretary-General (2021) (A/75/982).

⁴⁴ United Nations, Global Sustainable Development Report 2019: The Future is Now - Science for

AchievingSustainable Development (New York, 2019).

**Our Common Avenda

United Nations Development Programme (UNDP), Human Development Report 2021–2022:
 Uncertain Times, UnsertledLives—Shantwood Patareta a Transformine World (New York.)

^{2022),} p. 49.
UNDP, New Threatsto Human Security in the Anthropocene: Demanding Greater Solidarity

⁽New York, 2022).

*** UNDP, Human Development Report 2021–2022.

M. United Nations, Global Surrainable Development Report 2019.
Sendai Framework, para. 19 (d).

M Bod., para. 19 (c).



- 63. Recommended activities encompass all sectors of society and levels of government, connecting areas as diverse as food and energy systems, water security, poverty, climate change and conflict, 77 with the Sendai Framework seen as an opportunity to promote convergence, enhance inclusion and create equitable outcomes across societies.
- Priority 1: Understanding disaster risk
 - 54. The production of high-quality data on disaster risk is a priority for disaster risk reduction practitioners. Member States must improve the standard of sifficial risk data and broaden the application of risk assessments.
 - 55. With advances in computing power, data availability and use of artificial intelligence, a priority for Member States is the circulation and interoperability of data and risk information across domains and data systems, within and among povernment agencies, and to and from non-State actors, SS including through
 - developing data-sharing platforms and related data-sharing agreements, and in respect of transhoundary risks and cross-border comparability.

 56. The ultimate goal of such measures is to ensure that risk data can be located, is accessible, interonerable, reusable and interrated into decision-
 - making at all levels.

 57. Focus is required on the distribution and analysis of data on disaster risk, with specific government entities to be identified and supported to act as clear focal points for disaster risk data collection and analysis at the national and subnational tevels, and coordinating regionally and globally.
 - 68. Investment is required in training and education for entities beyond those traditionally or commonly mandated to lead disaster risk reduction, to include all sectors and domains, including in capacity development for data collection and analysis at the local level.
 - 69. To support enhanced interoperability, <u>crowd-sourcing</u> and complex analytics, Member States and stakeholders should invest in data-sharing infrastructure in the information technology sector, and ensure better digital field data collection, online reporting, historical records digitization, loss accounting and risk mapping at all administrative levels.
 - 70. Member States must further implement and improve disaster loss databases and disaster risk mapping at the national level. This must involve integrating exposure and vulnerability data into existing platforms and decisionsupport mechanisms.
 - 7-1. Crucial to ensuring and improving data quality, Member States and stakeholders must invest and support capacity development for systematic reporting against the Sendai Framework and related agreements and frameworks.
 - 72. Member States to enhance official statistics on disaster risk, including through standardizing risk taxonomies, risk data generation, risk saessement methodologies (including nature loss) and developing nob to assess systems change and impact on disaster risk and resilience, Collaboration between statisticians. 99 and disaster risk reduction practitioners will improve and sustain quality in disaster risk-related data collection and analysis. Engaging national

65 Definition

Interoperability of data and information means that information systems from different agencies or even different countries can easily connect and share data with each other. This prevents data from being "stuck" in one department and allows for a more comprehensive understanding of risk.



Interesting Facts

The report suggests using "crowd-sourcing" for data collection. This could involve citizens reporting local flood levels through an app or sharing observations on social media, providing real-time information to disaster

¹⁵ Subminsions from: Austria, Bosnia and Herzegovina, Burundi, Canada, Liberia, Morocco, Zimbabwe; and non-State stakeholder subminisions including the science and technology major group.
¹⁶ Subminisions from Norway, United States, Viet Nam.

¹⁹ Including the Inter-Agency and Expert Group on Disaster-related Statistics

statistical offices to integrate Sendai Framework monitor data into national statistics promotes reporting and use of disaster risk-related data by all sectors, thereby promoting risk-informed decision-making among "all State

- 73. Member States and stakeholders must shift the focus of risk assessments from single hazards to better understanding vulnerability and exposure of communities, 60
- 74. Member States must enhance commitment and capacity to develop disaggregated datasets that capture the differential experiences of disaster risk and disaster impacts across untilple indicators.61 Such data are central to understanding risk creation, its prevention, mitigation and impacts in the context of disreventing vulnerabilities.
- 75. The development of mandates, capacity and subsequent fiscal and policy accountabilities at the local level will help to strengthen disaggregated data collection. Comprehensive and integrated monitoring and assessment of vulsar-ability is essential.

 76. The production of data and risk assessment that promotes participation
- and leadership of women, girlsé? and persons with disabilitiesé3 is a priority. Member States should integrate considerations of gender and disability into the mandates of agencies responsible for collecting and analysing disaster risk data and developing risk information.

 7.7. Member States to ensure that disaster risk data and information are
- systematically used to inform decision-making.64 Multi-hazard, vulnerability and expoure analyses must be used to inform high-level, multi-year socioeconomic planning.65 as well as planning, budgeting and financing for disaster risk reduction.
- 78. Relevant government institutions to integrate data, information and reproperties from all sectors into risk databases and/or registers and risk assessments.66. Adopting intersectoral approaches to data management allows the development of updisticated and robust distoser risk information that integrates knowledge from across disciplines and domains and produces insights relevant to multiple sectors. Scientific and academic partnerships are important in this, as are the standardization and circulation of data among government agencies in different sectors.
- 79. Member States must ensure adequate risk understanding in local and municipal governance and maintain dialogue between national, regional and global risk governance catifics. Improving disaster risk management entities' capacity is a must, requiring financial investment, development of expertise and use of technological innovations.

80. Member States must develop comprehensive risk assessments and make better use of emerging technologies and scenario-planning activities to specify Why is it not enough to only study the hazard, for example an earthquake's magnitude? Why is understanding a community's vulnerabilities, such as poorly built homes and exposure (people living in a high-risk zone) just as, if not more, important?



Intersecting vulnerabilities describe how multiple disadvantages, such as poverty, age, gender, or minority status can overlap and increase a person's overall risk in a disaster. For example, someone who is both elderly and part of a marginalized group may face oreater challenges than others during a crisis.



This means disaster risk information should not be limited to emergency managers. It should be a core part of how relevant governmental bodies make decisions about long-term pational development.

Submissions from Bhutan, Burundi, Cambodia, Guatemala, Mauritius.
Submissions from Bhutan, Guatemala, New Zealand, Trinidad and Tobaso, Viet Nam.

Submissions from New Zealand; and major group on science and technology.
Submissions from Cambodia, Viet Nam.

Sabmissions from Philippines, United States.
Sabmissions from Philippines, United States.
Sabmissions from Australia, Ethiopia, Thailand, Viet Nam; local authorities; and urban practitioners actwork.

Submissions from Liberia, Morocco, Slovenia, Switzerland.

⁷³ Something to Think About



and assess complex risks. This includes developing flexible and adaptive risk governance mechanisms integrating actors from multiple sectors and scales. Priority 2: Strengthening disaster risk governance to manage disaster risk

81. The creation of governance arrangements that support integrated understanding and management of risks zeroes all sectors, scales and domains, and are reflective of the broadcoad scope of hazards and risks, is key to accelerating Scandi Framework implementation. This requires a shift in the Seess of responsibility and accountability for preventing risk creation and reducing existing class, ways from a single centralized agree, to accordinate risk-informed decision-time.

52. Essentially, no longer treating disaster risk reduction as a sector, but as an outcome

- 83. Governments need to recommit to ensuring that multi-scalar and multi-stakeholder mechanisms and strategies for risk management are implemented at the national and subnational levels.
- 54. Member Natics must ensure that such mechanisms and approaches are recognized to the systemic nature of risk disc reaction, propagation and impacts when realized) and are supported by legislative and regulatory frameworks that reflect shared responsibility for risk-informed decision-making and investment. Clear, defined governance arrangements, in which multiple authorities take responsibility for reducing diseaser risk are essential.
- 85. Member States and non-State actors must remove diseater risk reduction from the exclusive reals of technical and accrued expertise into multidimensional, even territorials? governance. In renovating risk governance multidimensional, even territorials? governance, he renovating risk governance responsible for sectors or domains primarily, target and integrate those responsible for sectors or domains primarily, possible for driving risk creation, and its revestion and reduction.
- 56. Member States and stakeholders should pursue adaptive, vertically and herizottally integrated risk governance within socioeconomic and development planning that allows prospective risk reduction she to deal with uncertainties and sureprices inherent in transforming social, rhenhanglest and ecological systems and address voltareabilities, exposures and contextual factors. Adaptive governance relies on terrathe learning, planning, policymaking, implementation and evaluation over time65 and requires a process of systematic coordination at global to autional scales, and anciento to substational relace, and hack up the
- chain.

 87. Governments should map and assess the institutional and policy architecture for risk governance in relation to the risk landscape, assigning roles and responsibilities for addressing complex risks, with pre-agreed standard one-ration procedures or widelines for redulons fation.
- 88. Governments must develop institutional structures to engage and mobilize the expertise of scientific, academic, private sector, civil society and local stakeholders, creatine natforms and soaces for such stakeholders to be listened



If disaster risk is everyone's responsibility, does that mean it's no one's responsibility? How can a government ensure clear accountability when responsibility is spread across many different ministries and social



Instead of having a "disaster management sector," the goal is for all sectors (health, education, agriculture, finance) to work in a way that produces the outcome of reduced risk and increased resilience for the whole country.

¹⁷ Major group on science and technology, "Midtern review of the Sendai Framework"

⁽forthcoming).

**United States Global Change Research Program, 2018; European Environment Agency, Perspectives on Transmisses as Sassiranbilay, report No. 25/2017 (Luxembourg, 2018). Available at www.cen.cerupes.cup/dictionion/perspectives-on-translines-to-autimability/file.

89. Such structures and processes must be centred around the engagement and needs of marginalized populations, including women, youth and persons with disabilities, ensuring more systematic engagement with existing and emerging networks mobilizing disaster risk reduction stakeholders. National disaster risk reduction stakeholders. National disaster risk reduction stakeholders was reconsidered key to facilitation broad-based participation.

90. Member States must ensure that local-level risk governance structures are supported with the authorities and resources required to meet these expectations. Astional-level submittee must build human ensures. Clear strategies and action plans and financial capacity at the local level where these do not already clearly continued to the control of t

91. Disaster risk reduction governance must include and apply local,

traditional and Indigenous haverlegg. To facilitate congruence of Secul, readitional and Indigenous haverlegg in delice, national distort risk reduction protects should be translated into Secil and Indigenous Inguages, existing risk knowledge should be chared in an appropriate manure and institutional spaces should be created for collaboration. Nechanisms to scale local insights and successes to the antional and international level are created, including the creation of registative and regulatory arrangements that include local, traditional and Indivensa. Necological secular secular secular secular secular secular and Indivensa Necological secular secular secular secular secular and Indivensa Necological secular security secular secul

92. Member States and regional (including intergovernmental) hodies must further develop structures of risk governance at the regional and global levels that interface with and support national and local-level risk reduction. This might include mapping existing strategies and action plans to the range of hazards and risks of the Sendai Framework.

93. Strategic foresight activities are gaining ground in multiple strategic planning and policy-anaking contexts at the antional, regional and global levels, and should be considered by Member States. These explore different plausible futures to identify trends and energing tissees, visions and associated pathways to make better decisions and set in the present to shape a desirable future 260 and more foreward-levels in the properties of the properties of

Priority 3: Investing in disaster risk reduction for resilience

94. Neveral areas related to financing for disaster risk reduction and deviating investments allow a reinaginging of the fundamental relationship between the economy, the environment and society. Momentum for systemic reform of the financial system exists, of the governing rades, its structures and presenses—most recently explored in the Marium 13 Suchla implementation Family and the Giospering disaster risk resentant you make supporting the contraction of the contraction over edity.

3.

Something to Think About

How can the government ensure that the voices of marginalized groups are not only heard, but also have an influential impact in disaster planning? What specific barriers might prevent their participation?



Interesting Facts

Scientific data is not the only valid source of information. Indigenous communities often possess generations of knowledge about local ecosystems, weather patterns, and hazard cycles that can be invaluable for building resilience.

⁴⁰ Angela Wilkinson, Strategic Forestight Primer (European Commission, European Political

⁻ Angein Wilkinson, Stra Strategy Center, 2017)

Nor Common Agenda.
Navailable at https://unfccc.int/documents/624441.



95. Member States must address market short-termism and failures that impact efficient pricing and proper consideration of disaster risks, using fiscal and marketbased measures and other incentives

96. Members States should reassess the approach taken by credit rating agencies, which play an important role in capital markets and the ratings of which are used in many invisdictions for regulatory nurmoses. For instance, they could request lengthening of the credit rating agency time horizon beyond the traditional three years and the creation of long-term ratings to better account for risks. Countries should also not be penalized by credit rating agencies for seeking debt assistance after disasters strike.73 Instead, credit rating agencies could assist Member States in better understanding how disaster risk reduction investment may improve their ratings

97. The financial sector needs to better account for and accurately price disaster risks, while also being more transparent on its exposure and management of disaster-related risks. To this end, Member States could integrate disaster risk reduction into the mandates and decisions of central banks and other financial and regulatory authorities to incentivize investments in risk reduction and resilience. This includes requesting commercial banks to disclose risks and embed disaster risk reduction assessments in credit decisions, lowering risk capital requirements for insurers investing in risk prevention and reduction and reviewing the reporting obligations of financial institutions to avoid threats to long-term financial stability and financial market integrity

98. International collaboration can identify good practices and devise common approaches to amend financial regulations for resilience, by leveraging existing platforms, for example, the Network for Greening the Financial System,74 the Coalition of Finance Ministers for Climate Action, 75 the Financial Stability Board 76 and accounting bodies. This entails undating their mandates and work programmes to explicitly consider a broader range of risks beyond climate and the environment

99. Supporting the Bridgetown Initiative, 77 Member States should pursue reform of institutions such as IMF, the World Bank and other development financing institutions, to further integrate disaster risk reduction into their work and better use their balance sheets for this nurnose, including through lending debt support, sustainable development and adaptation financing streams and grants.

100. Member States need to engage with the private sector to enhance incentives and mechanisms to scale up private sector investment in disaster risk reduction. This could involve Member States collaborating with financial institutions to better integrate multi-hazard, long-term risk analysis in private investment decisions, or committing to develop financial structures dedicated to disaster risk reduction, such as blended finance, resilience bonds78 or impact investing funds, For example, the international community could consider mechanisms, such as guarantees, to reduce the cost of borrowing for countries issuing debt for investment in disaster resilience.

Interesting Facts

This points to a major problem for vulnerable nations taking on debt to rebuild after a disaster can lower their credit rating making future borrowing even more expensive and creating a vicious cycle of debt and disaster vulnerability.



The "Bridgetown Initiative" is a major advocacy effort, led by Barbados, aimed at reforming the global financial system. It calls for changes to how institutions like the World Bank and IMF provide funding, especially for climate action and development in vulnerable countries, to make finance more accessible and fair.

²⁴ www.ngfs.net/en.

[~] Sec. for example, www.ebrd.com/news/2019/worlds-first-dedicated-climate-resilience-bond-forus-700m-is-issued-by-ebed-html.

101. With an increased supply of investable instruments for disaster risk reduction, large institutional investors can use their capital to create more resilient societies. In particular, insurance companies could be incentived to afficate capital to purpose built disaster risk reduction investment vehicles aimed at market-rate returns. These have the co-benefits of preventing and mitigating the risks that their underwriting.

100. Mobilisting private investment requires improving computer? disclosure related in distance risks and revising accounting particles, building an progress, made on a revisionmental, social and prevenance and socializability reporting, south as for Fasta Force on Cintaser-charted Fastancial Bioclosures, 70% for Fastaforce on Nature-ordered Financial Bioclosures, 70% for Fastaforce on Nature ordered Financial Bioclosures, 70% for International Socializability Natural Financial Fin

[03] Residual risk will remain, and thus the need to expand aptake and access insurance mechanisms. Member States should continue investment in insurance premium subsidies expanding access for vulnerable groups and exploring options for regulatory changes to enforce risk-pooling through mandatory disaster insurance.

considerations are captured in emerging disclosure standards.

104. The middren review insists on greater public investment in disaster risk reduction in the second half of the Sendai Framework. Member States should ensure that all public investment and procurement incorporates disaster risk considerations and disaster risk management practices in decision-making processes.

reduction budget allocations through government institutions at all appropriate scales and create legal structures supporting risk-informed investments. 22 Allocations must emphasize a shift away from investment in disaster response towards preventing and reducing risks and building redilience. 105. Governments must expand access to finance and prioritize the integration of disaster risk reduction with devolument and climate finance, notentially

aligned with integrated national flauscing frameworks. Enhanced coordination between domors frequired, with greater upport to Mistes Inchigh the capacity to access finance, manage funding applications and manitor projects. 107. To disordify pagin jushifle possible, Member Status chealtif gas and tree, disorder risk evidentian-related expenditures based on a transmost of qualifying end uses and improve understanding and communication of code-boardst of investing in risk prevention and reduction, including accurately pricing risk in investment decisions. 108. Gevernments and stakeholders must create based ones.

and regulatory

environments that incentivize mobilization of public and private investment in resilient infrastructure. This requires quantification of the multisectoral benefits of such investment, drawing on the expertise and insights of diverse stakeholders, including private institution. In a case when insurance companies should not just pay out claims after a disaster, but should actively invest in preventing them, why would this be in an insurance company's self-interest? What kind of incentive would a opvernment need to provide?

103 Definition

"Residual risk" is the amount of risk that remains even after all possible prevention and mitigation measures have been taken. Since it's impossible to eliminate all risk, mechanisms like insurance are needed to cope with the impacts of disasters that still

¹⁹ www.feb-tefd.org/. 10 https://tefd.elobal/

www.ifrs.org/groups/international-sustainability-standards-board/.
 Sabmissions from Belgium, Boonia and Herzegovina, Kyrgyzstan, Thailand.



- 4. Priority 4: Enhancing disaster preparedness for effective response and to build back better in recovery, rebubilitation and reconstruction
 - 109. Disaster risk management and recovery should be deployed to bridge the divide between humanitarian, development and peace activities; By embedding disaster risk reduction within humanitarian activities, interventions push beyond the time frame of immediate emergency to build long-term resilience. Funding mechanism for disaster risk reduction in humanitarian settings should
 - he reviewed and resource mobilization guidance developed for different contexts.

 110. Member States must continue to mobilize resources, technology and
 capacity to implement and extend the reach of multi-bazard early warning
 systems, developing guiding strategies and governance arrangements across all
 - systems, ueveloping guiting strategies and governance arrangements across all four phases of multi-hazard early warning systems implementation: risk knowledge, monitoring and forecasting, dissemination and communication and preparedness and response capability.
 - 111. Closer work with communities 33 and across national boundaries is required to develop multi-hazard early warning systems that are integrated with both local, radicional and Indigenous knowledge and regional data on disaster risks integrating and investing in perspectives of women-led organizations, persons with disabilities and local traditional and Indigenous knowledge holders.
 - Add. Member States should develop governance arrangements methodologies that enable: the integration of vulnerability data into multi-hazard early warning systems, including information on human health, ecosystem health and gender; data haring; and the cholerent use of existing data at the national level. Linking multi-hazard early warning systems to social and climate change insuccts.
 - 113. Member States and stakeholders must place principles of resilience at the heart of developing infrartureture vyslems. 3 both in appraing existing systems and integrating risk assessments and data into future projects. This requires: assessment of the "collineace, expoure and performance of existing critical infrastructure (e.g., through stress-testing); taking resilience as a core value in infrastructure) maining and implementation (e.g., building on the principles for resilient infrastructure) and investment in autional and local-level capacity to ourset and multistian infrastructure value.
 - 11.4. Disaster recovery plans at the national and local levels must systematically include build back better principles and be accompanied by legal frameworks that require and guide the application of principles of equity and inclusion of valurable populations. These frameworks should be operationalized by practical guidelines on rediffer recovery, acceptaged by divers extachedders at which we have been applied to the property of the prope

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¹¹ Submissions from Canada, Philippings, Trinidad and Tobaso, Viet Nam.

¹⁶ Submissions from Australia, Bhatas, Bostin and Herragovina, Moscoo, New Zealand, Norway, Philippines, Tunisia, Vish Nam; and Partnership for Environment and Disaster Risk Roduction of the International Organization for Migration (IOM), United Nations Conference on Trade and Development (IJNCT/AD), UNIDP, World Health Organization (WHO).

B. Conclusion

115. Tarough a concerted global effort, considerable progress has been made in the implementation of the Sendal Framework, Governments and stickholders are better able to understand the risks with which they are confrasted; with this maters among the area of the state of the

116. As populations continue to grow, and consequences of elimate breakdown manifest in societosigical and technological systems, secieties are tasked with ever-increasing challenges. The interconnections and interdependencies that exist between water, energy, food, beath, trade and filmacial systems are both displaying vulnerabilities and generating risks that, when left unaddressed, on immediate the continue of the contin

117. Natural resources such as water, soil and energy are becoming scarcer, lands and marrise ecosystems are being applied pegraded, hieldversity is declining, and income and peculiar inequities are intensitying, with paps more scuic in the world's not vulnerable countries and regions. Egil years after adoption of the Studies vulnerable countries and regions. Egil years after adoption of the contribution of the contributio

118. Nonetheless, where there is knowledge, courage and solidarity in the face of shared threats, there is opportunity. As disaster risk is a social construct—a

fuertion of incomplete and unsentainable fevelopment processes transdisciplinary, prospective risk crediction provides the means for reduce value-mailties, exposure and inequality, in eveling to define risk-informed, seastimable and organization pathway for seastimable and organization provides the seastimable and consequently of the contraction of the contraction of the most challenging lowes of ortion. 2012 process a critical affection point, a unique opportunity for Nature and unso-favies atherbasiles to course correct, for realize information of the contraction of the cont

110. Such course corrections are desply challenging; whether in respect of the transformations to plade to food risk systemace, accommability and or responsibility; or to how risk is treated in the plade financial system; or to consulgating metric of growth to be compatible with planters) possessive and human well-bring, as opposed to wealth concentration and risk accumulation; withing the temporal rame. From whet-term to long-term thinking describinmaking. They are, however, includented it resulting the notiones and goals of any of the agenda, Frameworks, agreements and conventions stretch in 2015 or any of the agenda, Frameworks, agreements and conventions stretch in 2015 or

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Why are wealthier countries often better able to make progress on the Sendal Framework? What specific challenges do low-income and developing countries face in implementing these recommendations, and what kind of international support is most needed?



If traditional economic metrics like GDP are poor measures of progress because they don't account for environmental damage or rising inequality. What alternative metrics could a country use to measure its success in a way that prioritizes sustainability and well-being?