

## Technical expert group on comprehensive risk management: plan of action with progress updates on implementation

This plan, developed by the TEG-CRM and subsequently endorsed by the Executive Committee, identifies actions that will contribute to the implementation of the activities under strategic workstream (c) of the five-year rolling workplan of the Executive Committee of the Warsaw International Mechanism for Loss and Damage associated with Climate Change Impacts.

Result/related activity under workstream (c) of the five-year rolling workplan of the Executive Committee	Actions/deliverables	Lead/co-leads	Indicative time frame for completion of action	Status as reported on 17 September, 2021.
<p><b>Methodologies for enhancing knowledge and understanding of CRM approaches identified and/or developed</b> (activity 2a)</p>	<p>A.1 At COP 25, the NAP Expo and/or the Adaptation Futures conference, hold an event (tentative title: “Bringing together comprehensive risk management with national adaptation plans and other relevant processes”), with the following sub-actions:  i. Develop guidance documents on CRM (broad focus: nationally determined contributions, NAPs) to be discussed at the events above and made available on the Fiji Clearing House for Risk Transfer [<i>linkages with activity 5b</i>]</p>	<p>IISD/MCII/CA/IIASA /IFRC/UNDRR</p>	<p>By end 2020</p>	<p>COVID-19 disrupted activities which had been anchored in the NAP Expo, the Adaptation Futures and the 52nd sessions of the subsidiary bodies (SB 52) in 2020.</p> <ul style="list-style-type: none"> <li>(a) Those planned for SB 52 by MCII will be turned to virtual event(s).</li> <li>(b) IISD’s revised timeframe/implementation approach is on hold until further clarification around the NAP Expo.</li> <li>(c) UNDRR’s planned workshop on risk profiles has shifted to developing an action-oriented and practical guide. To explore if an event can still be held in the virtual NAP Expo Sessions and/or AF 2021.</li> <li>(d) Using the same theme, UNDRR, together with other UN and non-UN agencies is proposing a side event at</li> </ul>

	<p>ii. Prepare (or share) infographic on links between NAP processes and DRR strategies to promote CRM approaches [<i>linkages with activity 5b</i>]</p> <p>iii. Share summary of responses to the</p>	<p>CA/IIASA/IISD/MCII /IFRC</p>	<p>...</p>	<p>COP26 (for submission on 20Aug).</p> <p>(d) Adaptation Futures will happen 4-8 October 2021 and will feature several sessions relating to CRM, linking to various products listed in this TEG-CRM update (IFRC, IIASA with GIZ).</p> <ul style="list-style-type: none"> <li>· The following products have been produced: <ul style="list-style-type: none"> <li>(a) A series of briefings (brief <a href="#">one</a>, <a href="#">two</a> and <a href="#">three</a>) on compound risks facing vulnerable countries as a result of the COVID19 pandemic (Climate Analytics) and an analysis of compound COVID and climate risks (IFRC).</li> <li>(b) A <a href="#">brief</a> on how its integrated risk management programmes allow for predictable anticipatory and early responses, significantly reducing human suffering, losses and damages from climate-related disasters (WFP).</li> </ul> </li> </ul> <p>The development of the following</p>
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	<p>questionnaire on climate risk completed under the initial two-year workplan of the Executive Committee with the TEG-CRM</p> <p>iv. Share examples from ongoing or completed CRM approaches with the TEG-CRM</p>		<p>Completed</p>             <p>Completed</p>	<p>products is underway:</p> <p>(a) A guidance document on integrating loss and damage into NAPs, NDCs and NCs, which will be pushed back to the beginning of 2022. (Climate Analytics)</p> <p>(b) Technical Guide on “Technical Guidance on Comprehensive Risk Management (with specific focus on Comprehensive Risk Assessment and Integration in Planning) in the Context of Climate Change.” (UNDRR in collaboration with GIZ) – final draft (CA, IFRC and IIASA in steering committee). Expected to be finalized by end of March 2021. The technical guidance is currently being edited and will be published in September 2021. A complementary CRM training package has been produced and being rolled out by the UNDRR regional offices in 16 LDCs and SIDS (planned to be upscaled to 40 LDCs and SIDS).</p> <p>(c) A Guide to integrate the effect of climate change into water management in the Maghreb region with a great risk of drought (Mohammed VI Polytechnic).</p> <p>(d) Guidance on CRM completed by GIZ and IIASA with applications in India and Tansania (in press)</p> <p>The infographic is currently being developed and should be ready by late 3rd or early 4th quarter of 2021 (UNDRR)</p>
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	IISD/UNDRR  Secretariat  WFP/IFRC		<p>The summary shared via TEG-CRM mailing list in 2019. (See annex III of the ExCom annual <a href="#">report</a> for the summary).</p> <p>WFP CRM briefs, reports, case studies are kept available and up to date <a href="#">on this page</a>.</p> <p>Many resources on anticipatory action in the face of rising risks, including from IFRC and WFP, are being made available on the <a href="#">Anticipation Hub</a> (IFRC).</p> <p>A specific analysis of adapted anticipation approaches during the COVID pandemic, based on experiences across the Red Cross Red Crescent network, is currently under review in a scientific journal and will be shared with the TEG-CRM as soon as it is available (IFRC).</p>
A.2 Prepare and share the summary of the event referred to in activity A.1 above with the Executive Committee for its consideration	Secretariat	Completed	The report published on the UNFCCC website <a href="#">&gt;&gt;&gt;</a> and reported at ExCom 11 (March 2020)
A.3 Organize an expert meeting on risk assessment and adaptation with a view to informing the IPCC assessment process <sup>a</sup>	IFRC/IIASA/CA/ UNDRR	By end 2020	<p>On track. Exact dates are still to be determined. Implementation updates to follow.</p> <p>IPCC process delayed- end of 2021.</p> <p>This topic is being included in UNDRR's COP26 Risk Dialogue</p>

				webinar series. Will be discussed with other organizations
	A.4 Develop a NAP database, tagging CRM approaches and lessons learned in different countries	IISD	2020–2021	The beta version is underway and will be available in the second half of 2021.
	A.5 Capture and share lessons learned from the NAP Global Network’s regional peer learning summit for the Pacific on linking community assessment with the NAP process	IISD/CA	By end 2020	A regional peer learning summit for 12 countries in the Pacific (15 and 23 November 2020) was conducted by IISD in the context of the NAP Global Network to discuss how the Integrated Vulnerability Assessments (IVA) can play a role in M&E. Lessons learned will be shared.
<b>Revised compendium (activity 2b)</b>	B.1 Revise and update the compendium on CRM on the basis of final inputs from the TEG-CRM	Secretariat	Completed	<a href="#">Compendium on Comprehensive Risk Management Approaches</a> published on the UNFCCC webpage
	B.2 Create and maintain a user-friendly version of the compendium and, where necessary, update information on CRM approaches	Secretariat	Continuous	
<b>Paper(s) with clear priority (activity 2c)</b>	C.1 Prepare paper(s) on social protection and forecast-based approaches	IFRC, WFP, ActionAid, ODI and relevant organizations (e.g. DIE <sup>b</sup> )	In 2021	<p>The following products have been produced:</p> <p>(a) A <a href="#">paper</a> and a <a href="#">brief</a> on social protection and climate change, with a focus on WFP Regional Bureau for</p>

Latin America and the Caribbean's vision to advance climate change adaptation through social protection.

- (b) A [brief](#) highlighting 10 tips on shock-responsive social protection drawing on insights from real-life examples (WFP)
- (c) A [study](#) on shock-responsive social protection in Latin America and the Caribbean showcasing a theoretical framework, five country case studies, and relevant conclusions for action (WFP in collaboration with Oxford Policy Management).
- (d) A [paper](#) and a [brief](#) which reviews the evidence base on anticipatory action (WFP).
- (e) In January 2021, ActionAid and Rosa Luxemburg Stiftung jointly released a paper that outlines

how gender-responsive systems of social protection and the various tools and policies that they include can help to deliver a human-rights based approach to sustainable development, while minimising and addressing climate-induced loss and damage.

· The following products are being developed:

(a) The desk review and case study collection for the technical paper on Social Protection (ActionAid, DIE, IFRC and WFP) has been done and the discussions with the partners will be conducted to finalise and submit the paper by the end of September 2021 (ActionAid). Potentially two technical papers will be submitted by the organisations.

(b) On Forecast Based

				financing approaches (IFRC and WFP). IFRC as lead in development of the paper to update WFP.
<p><b>Improved and enhanced understanding of tools and instruments for addressing the limits of the current CRM approaches and actions to facilitate transformational approaches</b></p> <p><b>(activity 2d)</b></p>	<p>D.1</p> <p>Prepare technical paper(s) and undertake a book project on incremental and transformational approaches in collaboration with the TEG-CRM and relevant institutions</p>	<p>CA/IIASA/IFRC/UNU and relevant organizations</p>	<p>In 2020</p>	<p>The following products have been produced:</p> <ul style="list-style-type: none"> <li>(a) A review journal <a href="#">article</a> on “Perspectives on transformational change in climate risk management and adaptation” published in the journal ERL</li> <li>(b) A journal <a href="#">article</a> on transformation and finance for the COSUST special issue building on the risk layering concept (IIASA)</li> <li>(c) A review <a href="#">paper</a> on SIDS, risks, responses and loss and damage published (Climate Analytics). Complementary to work on Activities 5a, b and c D.1.</li> <li>(d) A journal <a href="#">article</a> on sea level rise, CRM and SIDS for Current Opinion in Environmental Sustainability Special Issue on “Slow Onset</li> </ul>



			<p>Events related to Climate Change” (Climate Analytics).</p> <p>a. (e) A book project on the role of transformational risk management complementing other adaptation approaches would contain 17 chapters and is expected to be completed by End 2021 now (IIASA as part of the Flood Resilience Alliance )- a working paper synthesising key insights has been finished and can be accessed as of September 1</p>
D.2 Issue a call for submissions to support activity D.1 above	Secretariat	In 2020	Call pending in coordination with co-leads of D.1 activity
D.3 Conduct a desk review on the climate-conflict-food security nexus	WFP/Victor Cardenas/IFRC, <sup>c</sup> in collaboration with relevant knowledge partners	Completed	<p>The following have been completed:</p> <p>(a) A <a href="#">paper</a> on climate and conflict risks in the LAC Dry Corridor (WFP in collaboration with SIPRI and the CGIAR).</p> <p>(b) A <a href="#">brief</a> on the climate conflict-food security nexus in 3 languages (WFP).</p>

			<p>(c) A side event request on the climate-conflict-food security nexus has been submitted by WFP, CGIAR and SIPRI for approval at COP26. WFP explored if Victor Cardenas wishes to partner in the side event. The same can be explored with IFRC.</p>
<p>D.4 Identify how artificial intelligence can help in further developing CRM approaches (including regulatory frameworks)</p>	<p>Linda Siegele/IIASA, in collaboration with relevant knowledge partners (e.g. DIE)</p>	<p>In 2020</p>	<p>The activity has been delayed due to the closure of the university from the impacts of COVID-19. IIASA has contributed to an OECD/ADB report on “Leveraging technology and innovation for disaster risk management and financing” with a focus on AI. Report can be found <a href="#">here</a>.</p> <p>University College London (UCL) has funding for and has commenced a project called “Re-Energize DR3: Kick-Starting Global Governance”, which goes through March 2023. The website can be found <a href="#">here</a>. To date, an analysis of multi-hazard risk assessments; multi-scale governance structures; legislation; sectoral practices; tools and indicators have been completed, all informing the development of a toolbox. A survey for stakeholders has been prepared and insights from this survey will be integrated into the toolbox and future project planning. A series of workshops are being organized as part of this stakeholder engagement. The project team has included considerations of the use of artificial intelligence in DRR</p>

				<p>approaches, including from a governance perspective. The project focuses on three countries as case studies: Ghana, Mauritius and Qatar. However, a review of project outputs shows that data analysis from other regions has helped inform the development of the toolbox. Latest outputs and reports can be found <a href="#">here</a>. (Linda Siegele)</p>
<p><b>Enhanced understanding of how the Fiji Clearing House for Risk Transfer supports the work of the Executive Committee and the TEG-CRM</b> (activity 2e)</p>	<p>E.1 Invite partners to share information on the usage of the Clearing House, topics and questions posed and relevant information, and submit that information to the Executive Committee for consideration of how the Clearing House mechanisms can be enhanced to support the specific needs for disseminating the outputs of the TEG-CRM</p>	<p>Secretariat</p>	<p>Continuous</p>	<p>Information on the usage of the Fiji Clearinghouse is included in the annual reports of the ExCom</p>
<p><b>Relevant regional and global research programmes and organizations that provide capacity-building for observation and risk assessment identified</b> (activity 4a)</p>	<p>A.1 Compile and complete an initial list of relevant regional and global research programmes and organizations (including a full list of acronyms), complemented by a list of international businesses, that provide capacity-building for observation and risk assessment [<i>linkages with activity 1a under strategic workstream (a)</i>]</p>	<p>WMO and UNDRR</p>	<p>Completed</p>	<p><a href="#">Stakeholder engagement workshop</a> on strengthening the capacities for observation and risk assessment in the context of loss and damage associated with climate change was convened on 29-30 October 2019.</p> <p>Relevant organizations were engaged in the workshop</p>
	<p>A.2 Organize a stakeholder engagement workshop to identify capacity gaps related to observation and risk assessment at the national, regional and global level and to learn from national examples with a view to enhancing national and regional capacity</p>	<p>Secretariat in collaboration with WMO and UNDRR</p>	<p>Completed</p>	

	[linkages with activity 2d under strategic workstream (e)]			
<b>Enhanced understanding and awareness of the user interface platform and other tools available through WMO that support the design and implementation of CRM approaches among relevant users</b> <b>(activity 4b)</b>	<b>B.1</b> Make a presentation at Excom 9 and collaborate in designing and conducting the stakeholder workshop referred to in activity A.2 above	WMO and UNDRR	Completed	WMO presentation on ‘User Interface Platforms for Comprehensive Risk Management’  available on the ExCom 9 <a href="#">webpage</a>
	<b>B.2</b> Continue to engage with the Executive Committee on matters related to activity 4 under workstream (c) of its five-year rolling workplan and in implementing CRM approaches	WMO	In 2020	The following processes are underway:  (a) Reviewing the climate services capacity of National Meteorological and Hydrological Services (NMHSs) through a self-assessment checklist to verify progress with respect to climate services implementation and identify areas where support is needed. Enhances the service delivery capacity of developing countries and improves access to regional and global monitoring and prediction systems.  (b) Second International Workshop on Cataloguing of Hazardous Weather, Climate, Water, and Space Weather Events: The workshop will be organized jointly with key agencies representing DRR, loss and damage and insurance and reinsurance to design consistent, well-described, and agreed protocols. The workshop will take

				<p>place in Q3/4 of 2021</p> <p>WMO, UNDRR and a couple of other UN agencies are organizing a UNS side event at COP 26 on Scaling up early warning for early action. The side event will capture the user interface aspects, among other high profile issues.</p>
<p><b>Capacity-building needs identified, as appropriate (activity 4c)</b></p>	<p>C.1</p> <p>Prepare a workshop report on how to address key capacity gaps related to observation and risk assessment on the basis of the outcomes of activity A.2 above [<i>linkages with activity 2d under strategic workstream (e)</i>]</p>	<p>Secretariat in collaboration with WMO and UNDRR</p>	<p>Completed</p>	<p>The report published on the UNFCCC website <a href="#">&gt;&gt;&gt;</a></p>
<p><b>Development and/or dissemination of guidance facilitated, as appropriate, for comprehensive risk profiles, and, where possible, comprehensive risk profiles developed for designing and implementing country-driven risk/risk assessments at the national level, including for the preparation of asset inventories (activity 5a)</b></p>	<p>A.1</p> <p>Hold a workshop (working title: “Unifying climate risk data at the country level”) at the fifty-second sessions of the subsidiary bodies with a view to discussing the added value of creating risk profiles, technicalities/ methodologies, standards and data sources for risk profiles, including the preparation of asset inventories</p>	<p>MCII/UNDRR/Victor Cardenas</p>	<p>In 2020</p>	<p>The workshop on “Unifying climate risk data at the country level” was planned to take place at SB 52. It will be turned into virtual event(s). Concept note developed and shared between co-organizers. Logistical questions on virtual events will be raised meeting 24<sup>th</sup> March (MCII).</p> <p>MCII and UNDRR conducted a series of virtual side events during the LAC and Asia Pacific Regional Climate Weeks. Upcoming is the side event at the Africa Climate Week, pending approval from the organizers.</p>
	<p>A.2</p> <p>Develop a comprehensive risk profile, including a case study on climate risk and</p>	<p>Mercy Corps, MCII, UNU and relevant</p>	<p>By end 2020</p>	<p>Completed a comprehensive climate risk assessment in Pekalongan, Indonesia in close collaboration with the</p>

	social protection in Indonesia and Japan	organizations		<p>local City and Regency governments. <a href="#">This</a> article summarizes some findings. The full final report is only available in Bahasa so far, but a translation effort is underway. Follow on work to quantify the economic impacts of the identified climate risks is also underway (Mercy Corps).</p> <p>Document/summary for policymaker is with Indonesian counterpart and depending on approval can be submitted to TEG-CRM end of April (MCII).</p>
	A.3 Invite relevant organizations, agencies and community-based institutions to share experience of and knowledge on risk assessment	ActionAid	In 2020	
<b>Risk management strategies and approaches/good contingency plans and planning (activity 5b)</b>	B.1 Facilitate the development and dissemination of subnational guidance on CRM [ <i>linkages with activity 2a</i> ]	IFRC/IIASA/UNU and relevant organizations	2019–2020	<p>Running risk management/contingency planning workshops in 2021 with some of IIASA member countries (India, Egypt, Vietnam, Iran)-others to follow (IIASA).</p> <p>Providing guidance on subnational anticipatory action through its <a href="#">Anticipation Hub</a>, in close coordination with national government agencies, as well as WMO and a range of science partners (IFRC).</p>
	B.2 Organize a side event and deliver a presentation on CRM knowledge products (e.g. evidence on costs and benefits of different risk management approaches) at	WFP and IFRC	Completed	CRM knowledge products are a key component of both regional and global Dialogue Platforms, hosted by IFRC's <a href="#">Anticipation Hub</a> . In 2020, several of

	<p>the Dialogue Platform on forecast-based finance</p>			<p>these occurred virtually, including the last global dialogue in Berlin (December 2020) themed 'Collaborating for Climate, COVID-19 and Conflict: Getting Ahead of Crises with Anticipatory Action'. Regional Dialogue platforms will be organized in 2021 in Africa, Asia and LAC (IFRC).</p> <p>Sessions conducted by WFP during the Dialogue Platforms on forecast-based Finance in 2019 in Maputo (African focus), Punta Cana (LAC focus), Manila (Asian focus), and Berlin (global focus). WFP participated and led some sessions in all the 2020 Dialogue Platforms. Reports on these sessions are available in <a href="#">this page</a>. This year, WFP and IFRC will co-host the Global Dialogue Platform, as well as the Southern Africa Dialogue Platform which is the first ever organized in South Africa (WFP).</p>
	<p>B.3</p> <p>Organize regional expert workshops to identify regional stakeholders and needs related to climate risk management (building on activity A.2 above) and to support the development of national and subnational DRR plans, inclusive of ecosystem-based solutions, informed by climate risk</p>	<p>UNDRR and relevant organizations</p>	<p>2019–2020</p>	<p>On track though the exact dates are still to be determined. Implementation updates to follow.</p> <p>Explored options for virtual workshop(s). Aligned with the UNDRR Coherence Initiative (in coordination with Regional Offices). The workshop was converted into an Affiliated Event in the Asia Pacific Regional Climate Week. A similar session has been proposed for Africa Climate Week (and currently waiting for approval).</p>
	<p>B.4</p>			

	Prepare a paper or synthesis report on risk layering, inclusive of strategies and methodologies for assessing risk layering and risk governance [ <i>linkages with activity 3b under strategic workstream (e)</i> ]	IIASA/IFRC/Victor Cardenas/Linda Siegele/WFP (contributor) and relevant organizations	In 2022	A journal article published on transformation and finance for the COSUST special issue building on the risk layering concept (IIASA) -see D1  Synthesis may follow after publication of special issue  Linda Siegele will provide a contribution on this topic in early 2022, based primarily on her involvement in the UCL project described above in D.4.
<b>Climate risk solutions (activity 5c)</b>	C.1 Develop a syllabus on governance principles (considering pro-poor principles) related to CRM including disaster risk financing and insurance	MCII	By end 2020	Waiting for announcement of Crisis Outlook Campaign – Principles. End of May 2021 (MCII).
	C.2 Organize a workshop on disaster risk financing and insurance to be held at COP 25 and/or other partnership forums on gender or disaster risk financing and insurance in fragile contexts [ <i>linkages with activity 3b under strategic workstream (e)</i> ]	Start Network/Mercy Corps/ActionAid/WFP	Completed	No joint workshop was organized during COP25.  During 3rd InsuResilience Global Partnership <a href="#">Forum</a> at the margins of COP25, WFP participated in two sessions on sovereign risk pools, reflecting on successes and challenges and exploring opportunities to link social protection and risk finance measures.
	C.3 Develop a taxonomy and/or topography of disaster risk financing and insurance instruments and their applicability (including how to address adverse selection and uninsurable risks), illustrated by good practice examples [ <i>linkages with activity 3b</i> ]	MCII	By end 2020	Analysis on NDCs done by January 2021.1  Currently waiting for additional NDC – cut-off date March 31. Full document available before summer 2021.



	<i>under strategic workstream (e)]</i>			
<b>Activities 5a, b and c</b>	D.1 Prepare a synthesis paper on insights from the TEG-CRM subgroup's activities in 2019 and 2020, including recommendations on knowledge gaps and, where relevant, research questions	UNU	By end 2020	