SIXTY-SECOND SESSION OF THE IPCC

24 – 28 February 2025, Hangzhou, China

Decisions adopted by the Panel

Decision IPCC-LXII- 1. Adoption of the Provisional Agenda

Documents: IPCC-LXII/Doc.1, Rev. 1 and IPCC-LXII/Doc.1, Rev.1, Add.1

The Intergovernmental Panel on Climate Change at its Sixty-second Session adopts the Provisional Agenda as contained in document IPCC-LXII/Doc.1, Rev.1.

Decision IPCC-LXII-2. Approval of the draft report of the Sixty-first Session of the IPCC

Document: IPCC-LXII/Doc. 10

The Intergovernmental Panel on Climate Change at its Sixty-second Session decides to defer the approval of the draft report of the Sixty-first Session of the IPCC to the Sixty-third Session of the IPCC.

<u>Decision IPCC-LXII- 3</u>. IPCC Trust Fund Programme and Budget – Any other matters – Task Group on Data Support for Climate Change Assessments

Document: IPCC-LXII/Doc. 5

The Intergovernmental Panel on Climate Change at its Sixty-second Session:

- Approves the AR7 TG-Data work plan for 2025 and requests the FiTT to consider the budget for DDC activities for the year 2025;
- Takes note of the recommendations and lessons learnt from the AR6;
- Invites the Secretariat to continue resource mobilization for the sustainability of DDC activities in AR7.

<u>Decision IPCC-LXII- 4</u>. Proposals for Expert Meetings and Workshop for the seventh assessment cycle

Documents: IPCC-LXII/Doc. 7, Rev.1; IPCC-LXII/Doc. 8; IPCC-LXII/Doc. 9

The Intergovernmental Panel on Climate Change at its Sixty-second Session decides:

to approve the proposals for:

- Two co-located workshops as outlined in IPCC-LXII/Doc. 7 Rev.1 and its respective budget (as agreed at the FiTT). The workshops are:
 - 1. Workshop on Engaging Diverse Knowledge Systems
 - 2. Workshop on Methods of Assessment
- An Expert Meeting on the Methodologies, Metrics and Indicators for Assessing Climate Change Impacts and Adaptation as outlined in IPCC-LXII/Doc. 9 and its respective budget (as agreed at the FiTT).

The Panel further decides:

- To convey views expressed during the discussion of the agenda item on the Workshop on Engaging Diverse Knowledge Systems and Workshop on Methods of Assessment to the Scientific Steering Committee and respective invited experts.
- To defer discussion on the proposal for an Expert meeting on High-Impact Events and Earth System Tipping Points as outlined in IPCC-LXII/Doc. 8 at a future session.

Decision IPCC-LXII-5. IPCC Scholarship Programme

Document: IPCC-LXII/Doc. 4

The Intergovernmental Panel on Climate Change at its Sixty-second Session:

- Approves the amendment of the IPCC Scholarship Trust Deed (set out in paragraph 11 of Annex I to this Decision);
- Appoints Mr Edgardo Alvarez-Chávez, from Peru, as a member of the Board of Trustees;
- Thanks the governments of Germany and Norway for their financial contributions in 2024 to the IPCC Scholarship Trust Fund;
- Thanks the Prince Albert II of Monaco Foundation and the Cuomo Foundation for their continued support of the IPCC Scholarship Programme.

TRUST DEED

Intergovernmental Panel on Climate Change (IPCC) Scholarship Programme

Aim and objectives of the Fund

1. The aim of the IPCC Scholarship Programme is to build capacity in the understanding and management of climate change in developing countries through providing opportunities for young scientists from developing countries to undertake studies that would not be possible without the intervention of the Fund

- 2. Income of the IPCC Scholarship Programme includes:
 - Funds received by IPCC from the Nobel Foundation for the 2007 Peace Prize;
 - Donations and contributions from individuals, organisations and governments supporting the aim and objectives of the Fund;
 - The interest and capital gains accrued from any investment of the principal of the Fund.
- 3. The IPCC Scholarship Programme will be used to:
 - Provide scholarships for young post-graduate or post-doctoral students from developing countries, especially least developed countries, for research that advances the understanding of the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation;
 - Support other capacity building activities in developing countries, in line with the general aim of the Fund and as agreed by the IPCC.

Administration of the Fund

4. The resources of the IPCC Scholarship Programme are deposited with WMO under a separate account (IPCC Nobel Peace Prize Fund). The Secretary-General of WMO administers the Fund in accordance with WMO Financial Regulations and Rules, Standing Instructions and established procedures of WMO, as supplemented by the provisions of the present terms of reference and guidance received from the Board of Trustees. The administration of the Fund is subject to no administrative or support costs.

5. Financial reports on the Fund will be made in Swiss Francs. The United Nations rate of exchange prevailing on the date of the transaction will apply for the conversion into Swiss Francs of income received and payments made or charges incurred in any other currency.

6. WMO shall prepare a financial report on the overall use of the Fund and make it available annually to IPCC. The statement of income and expenditure of the Fund will be incorporated in the overall audited financial statements submitted by the Secretary-General of WMO to the WMO Executive Council for approval. External audit will be conducted as provided for in the WMO Financial Regulations. The audit report will be submitted to the IPCC together with the annual report referred to in paragraph 11 below.

Governance and Management of the Fund

Overall Governance

7. The utilization of the Fund shall be consistent with the aim and objectives of the Fund and additional guidance provided IPCC in Plenary Session.

8. The Aims and Purpose of the Fund and the governance structure of the Fund may only be changed by the IPCC in Plenary Session

Science Board

- 9. A Science Board, composed of the IPCC Chair, or his representative, and the three IPCC Vice-Chairs will
 - set priorities for funding based on an evaluation of gaps in scientific technical knowledge and capacity-building needs in countries/regions;
 - set scientific technical criteria for selection of projects and scholars, as required;
 - select the scholars.

10. The Term of the Science Board will be the same as the Term of the IPCC Bureau. If a member of the Science Board resigns or is unable to complete the term of office as IPCC Bureau member his/her successor will assume his/her responsibilities as member of the Science Board. If a member of the Science Board remains member of the IPCC Bureau but is unable to continue serving on the Science Board the IPCC Bureau will elect a replacement from among the members of the IPCC Bureau.

Board of Trustees

11. The IPCC shall appoint in Plenary Session a Board of Trustees of no more than four members, including a Chair of the Board with a term of office limited to one four-year term and who is elected by the Board of Trustees at their first meeting. The Board of Trustees will be responsible for

- deciding on the investment strategy of the assets of the Fund;
- developing and implementing a fund-raising strategy;
- liaising with WMO regarding the administration and management of the Fund
- establishing further criteria for granting scholarships and funding any other activity consistent with the aim and objectives of the Fund;
- deciding on the of amount and frequency of scholarships awarded;
- advising WMO as to the acceptance of donations, gifts and other contributions to the Fund;

The Board of Trustees will be collectively accountable to the IPCC and will report annually to the Panel on the affairs of the Fund.

12. The powers, authorities and discretion of the members of the Board of Trustees shall be subject to any direction by the IPCC. The members of the Board of Trustees

- may not do anything which prejudices the aim and objectives of the Fund
- may not do anything which prejudices the academic integrity of the scientists receiving support from the Fund, nor the integrity and independence of the IPCC

13. Any Trustees must bring clearly identified skills to the Fund. In appointing the members of the Board of Trustees the Panel shall also aim for a balanced representation of developed and developing countries.

14. The members of the Board of Trustees will not be remunerated for their activities for the Fund. They shall be defrayed of travel expenses incurred in connection with the discharge of responsibilities for the IPCC Nobel Peace Prize Fund in accordance with the general rules applied in the IPCC.

15. To avoid additional overhead expenses, the business of the Fund would be carried out by e-mail and at meetings held in conjunction with regular IPCC Bureau or Plenary meetings.

16. At the formation of the Fund the members of the Science Board would serve as the Trustees of the Fund. The appointment of the Board of Trustees should be carried out to the extent feasible at the IPCC Session following the establishment of the Fund or within one year the latest.

17. The members of the Board of Trustees shall be appointed for a four-year term, renewable once.

18. The IPCC Secretariat shall serve as the Secretariat of the Fund. It will assist the Board of Trustees and the Science Board in carrying out their duties.

19. Tasks will include

- the preparation and announcement of calls for proposals, based on guidance received from the Board of Trustees and the Science Board;
- management of the selection process, and disbursement of scholarship monies;
- compilation of submissions for consideration by the Science Board;
- assist in fundraising activities;
- monitoring of the reporting requirements of scholars and other beneficiaries;
- preparation of reports for consideration by the Board of Trustees and the IPCC;
- liaison with WMO regarding the administration and management of the fund.

Liquidation of the fund

20. Upon liquidation of the Fund, the Secretary-General of WMO shall make provision for the payment of any un-liquidated obligation and expenses necessary for the closure of the Fund.

21. Following the closure of the Fund any remaining surplus shall be transferred to IPCC General Trust Fund or to any entity determined by the IPCC.

Legal responsibilities

22. Under no circumstances will the Fund be made liable to pay and/or reimburse any taxes on emoluments or honorarium, or any customs and import duties, value added taxes or similar charges. If applicable, these will be payable by the beneficiaries of the support provided.

Review of the terms of reference

23. IPCC Plenary may review this Trust Deed in the light of experience gained and make any changes as appropriate.

Decision IPCC-LXII- 6. Admission of Observer Organizations

Document: IPCC-LXII/Doc. 3, Rev. 3

The Intergovernmental Panel on Climate Change at its Sixty-second Session decides:

- to take note of the status of the review of current observer organizations; and
- to grant the following organizations IPCC observer status, in accordance with the IPCC Policy and Process for Admitting Observer Organizations:
 - 1. African Development Bank (AfDB)
 - 2. Assembly of First Nations (AFN)
 - 3. Clean Air Fund (CAF)
 - 4. Council on Energy, Environment and Water (CEEW)
 - 5. E3G
 - 6. Elizka Relief Foundation (ERF)
 - 7. Gas Exporting Countries Forum (GECF)
 - 8. Geomar Helmholtz Centre for Ocean Research Kiel (GEOMAR)
 - 9. HelpAge International (HAI)
 - 10. Huqooq-ul-Ebad Development Foundation (HEDF)
 - 11. Inter-American Institute for Cooperation on Agriculture (IICA)
 - 12. National University of Singapore (NUS)
 - 13. Pakistan Community Peace Foundation (PCPF)
 - 14. South Asian Forum for Environment (SAFE)
 - 15. University of Exeter (Uni Exeter)
 - 16. African Heritage and Global Peace Initiative (AHGPI)
 - 17. Union Nationale des Travailleurs Démocrates (UNTD)

<u>Decision IPCC-LXII-7.</u> IPCC Trust Fund Programme and Budget for the years 2024, 2025, 2026 and 2027

Documents: IPCC-LX/Doc. 2; IPCC-LXII/Doc. 2, Rev.1

Based on the recommendations of the Financial Task Team (FiTT), the 62nd Session of the Intergovernmental Panel on Climate Change:

- 1. Appreciates the support that the Secretariat of the IPCC provides to the IPCC process;
- **2.** Notes the basis for the significant reduction in the revised 2024 budget is due to implications of some meetings/activities being postponed to 2025;
- 3. Approves the revised budget for 2024, as contained in Annex 1;
- 4. Approves the proposed budget for 2025, as contained in Annex 2;
- **5.** Notes the forecast budget for 2026, as contained in **Annex 3**, noting that disbursement of funds for Data Distribution Centre (DDC) will be subject to Panel approval of the TG-Data AR7 work programme;
- **6.** Notes the indicative budget for 2027, as contained in **Annex 4**, noting that disbursement of funds for DDC will be subject to Panel approval of the TG-Data AR7 work programme;
- 7. Welcomes with gratitude all contributions, pledges and in-kind contributions from member countries, especially from developing countries, UN bodies, intergovernmental organizations and the European Union, and encourages all member countries of the IPCC to maintain or increase their financial support, also through multi-year pledges, so as to ensure the financial stability of the IPCC. A list of 2024 voluntary contributions is presented in Annex 5. The in-kind contributions table for 2024 is contained in Annex 6;
- **8.** Encourages member countries to make first-time contributions to the IPCC Trust Fund in order to broaden the donor base;
- **9.** Expresses its gratitude to member countries that support the Technical Support Units (TSUs) and a number of IPCC activities, including data centres, travel support of IPCC experts, meetings and outreach activities;
- **10.** Encourages member countries to transfer funds as soon as practical, while noting that contributions from IPCC members are due on 1 January of each calendar year, noting that when transferring funds to WMO, members should indicate that the contribution is "for the IPCC Trust Fund" to ensure proper identification of the recipient;
- 11. Recognizes the sound financial situation of the IPCC Trust Fund and appreciates the efforts of the Secretariat but notes with concern the decline in the level of annual voluntary contributions to the IPCC Trust Fund and invites member countries to make their annual voluntary contributions to the IPCC Trust Fund and, if possible, to increase their annual voluntary contributions;

- 12. Expresses its gratitude to the World Meteorological Organization (WMO) and the United Nations Environment Programme (UNEP) for their cash contribution to the Trust Fund, for financing one Secretariat position each, and to WMO for hosting the Secretariat and for its continuing support for the IPCC;
- **13.** Expresses its gratitude to the United Nations Framework Convention on Climate Change (UNFCCC) for its contribution to the IPCC Trust Fund;
- **14.** Decides to continue preparing the budget of the IPCC Trust Fund using the standard costs, bearing in mind that expenditures may be lower than the budget;
- **15.** Requests the Secretariat to provide detailed information in the budget document presented to the Panel;
- 16. Requests that the Secretariat presents, in addition to statements according to the International Public Sector Accounting Standards (IPSAS), the statement of financial position and financial performance on a modified cash basis which categorizes expenditures per activity as well as by natural account;
- **17.** Requests the Secretariat to provide the Panel with interim statements of expenditure covering the first six months of a given year, as well as the projection of expenditure for the rest of the given year;
- Recalls decisions IPCC-LVII-4, para 28; IPCC-XLVII-9, para 5; IPCC-LIV (bis)-2, para 28; IPCC-LVII-4, para 29; IPCC-LX-10, para 20 regarding the Panel's recognition regarding the funding needs of the DDC;
- **19.** Invites member countries and observer organizations to consider additional contributions to support the activities of the DDC;
- **20.** Requests the Secretariat to provide information on major activities and related costs covered by the Communications budget;
- **21.** Recalls decision IPCC-LX-10, para 26, requesting the Secretariat to create a temporary P3 level position, which could be converted to an established position (fixed term position) subject to Panel approval and approves its conversion to address the immediate staffing needs;
- **22.** Recalls decision IPCC-LX-10, para 27, requesting the Secretariat to produce a strategic human resources plan, with support from an independent consultant, and notes the progress and approves the creation of a budget line for 2025 "Strategic Human Resource plan" to complete the work;
- **23.** Requests the Financial Task Team (FiTT) to meet virtually inter-sessionally to conduct informal discussions regarding relevant FiTT decisions and matters, for consideration at the FiTT of the next plenary session;
- **24.** Recalls decision IPCC-LX-10, para 25, noting document *IPCC-LX/Doc.12 "Financial implications and estimated associated travel-related GHG emissions"* and requests the Secretariat to update and provide the document with similar information for other travel-related activities, including but not limited to outreach events, to the Panel for consideration at the 63rd Session of the IPCC.

25. Recalls decision IPCC-LX-10, para 30, agreeing to explore the cost implications of extending additional Trust Fund support for developing country participation in Panel sessions, with the view to increasing their participation and requests the Secretariat to provide cost estimates to the Panel for consideration at the 63rd Session of the IPCC.

REVISED 2024 BUDGET FOR ADOPTION BY IPCC-LXII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Governing bodies		1 400 000		
IPCC-60	Future Work of IPCC	480,000	280,000	760,00
4 days (moved from 2023) PCC-61	Programme and Budget Agreement of outlines	120 journeys 480.000	420,000	900,00
6 days + 1 day pre-session	Agreement of outlines	120 journeys	420,000	900,00
IPCC-62		120 journeys	0	
4 days	(moved to 2025)	120 journeys	v	
Bureau	2 sessions	248,000	120,000	368,00
4 days		62 journeys	120,000	000,00
TFB	2 sessions	80.000	13,600	93,60
		20 journeys	,	00,00
UNFCCC		80,000	0	80,00
and other UN meetings		20 journeys		,
SUB-TOTAL				2,201,60
Lead Authors, scoping, expert meet	ings and workshops			
Scoping Meeting (AR7)	1 meeting	480,000	81,600	561,60
		120 journeys		
Scoping Meeting (SR Cities)	1 meeting	260,000	44,200	304,20
	(moved from 2023)	65 journeys		
SR Cities		0	0	
LAM 1 and LAM 2	(moved to 2025)	100 journeys	0.100	FC 10
TG-Data	1 meeting	48,000	8,160	56,16
For est Manting Disconting	d months a	12 journeys	0	
Expert Meeting - Diversity, Equity and Inclusivity	1 meeting (moved to 2025)	0 20 journeys	U	
Expert Meeting - Science of	1 meeting	0	0	
Communicating Science	(moved to 2025)	20 journeys	Ŭ	
EFDB Editorial Board	1 meeting (virtual)	0	0	
		21 journeys		
EFDB Data meeting	1 meeting (virtual)	0	0	
_		10 journeys		
EFDB and Software Users	1 meeting	0	0	
Feedback		21 journeys		
TFI Scoping Meeting on	1 meeting	176,000	29,920	205,92
Short-lived Climate Forcers TFI - Short-Lived Climate	(moved from 2023)	44 journeys		
	CLA/LA Meeting	-	0	
Forcers - LAM 1 TFI - Short-Lived Climate	(moved to 2025) CLA/LA Meeting	53 journeys	0	
		ě	U	
Forcers - LAM 2 Workshop on IPCC Inventory	(moved to 2025) 1 meeting	53 journeys 552,000	93,840	645,84
Software	Theeting	138 journeys	95,640	040,04
TFI Expert Meeting - Methodology	1 meeting	160,000	27,200	187.20
Report - CDR		40 journeys	,	- , -
TFI Scoping Meeting - Methodology	1 meeting	160,000	27,200	187,20
Report - CDR		40 journeys		
TFI Expert Meeting - Reconciling Land	1 meeting	160,000	27,200	187,20
Use Emissions		40 journeys		
SUB-TOTAL				2,335,32
Other Expenditure	-			
2006 GL software	Maintenance/development			50,00
EFDB maintenance	Update/management			20,00
Publications/Translations	IPCC publications			100,00
Communication I	AR7 material/travel/events	+	├	175,00
Communication II*	AR7 outreach events			53,96
TG-Data	DDC activities			200,00
Gender Action Team	Training - Diversity, Equity & Inclusivity	(moved to 2025)		
Science Editors	Technical editing services	(moved to 2025)		
Distribution	IPCC publications			100,00
IT Infrastructure	Web hosting/cloudflare/upgrades	+	├ ─── │	13,1
External Audit	Fee Conflict of Interest	+		20,0
Advisory Services	Conflict of Interest			15,0
Co-Chairs	Support	1		200,0
SUB-TOTAL Secretariat				947,0
Secretariat Secretariat	Staff costs/misc expenses			2,865,3
Resource Mobilization	Travel costs		<u>├</u>	<u>2,805,3</u> 15,8
SUB-TOTAL		L		2,881,1
TOTAL				<u>8,365,1</u>

All activities subject to Panel approval in IPCC-62

* Regional/local events

PROPOSED 2025 BUDGET FOR ADOPTION BY IPCC-LXII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Governing bodies		400.000	250.000	000.0
IPCC-62	Agreement AR7 & MR CDR outlines	480,000	350,000	830,0
5 days	Programme and budget	120 journeys		
IPCC-63	Standard plenary business	480,000	280,000	760,0
4 days	Programme and budget	120 journeys		
Bureau	1 session	248,000	150,000	398,0
5 days	1 session (contingency)	62 journeys		
TFB	1 session	40,000	6,800	46,8
		10 journeys		
UNFCCC		80,000	0	80,0
and other UN meetings		20 journeys		
SUB-TOTAL				2,114,8
Lead Authors, scoping, expert meetin	gs and workshops			
WGIAR7	1 meeting	420,000	71,400	491,4
LAM 1		105 journeys		
WG II AR7	1 meeting	520,000	88,400	608,4
LAM 1		130 journeys		
WG III AR7	1 meeting	420,000	71,400	491,4
LAM 1	i mooung	105 journeys		,.
SR Cities	2 meetings	400.000	68,000	468,0
LAM 1 and LAM 2	(moved from 2024)	100 journeys	00,000	400,0
Chair - Workshop - Engaging	1 meeting	100.000	17,000	117,0
	Theoding	25 journeys	17,000	117,0
Diverse Knowledge Systems Chair - Workshop - Methods of	1 meeting	100,000	17.000	117,0
•	r meeung		17,000	117,0
Assessment TG-Data	1 meeting	25 journeys 48.000	8,160	56,1
TG-Data	1 meening	12 journeys	0,100	50,1
GAT - Expert Meeting - Diversity,	1 meeting	80.000	13,600	93,6
Equity and inclusivity	(moved from 2024)	20 journeys	13,000	93,0
Chair - Expert Meeting - Science of	1 meeting	80.000	13,600	93,6
Communicating Science	(moved from 2024)	20 journeys	10,000	30,0
EFDB Editorial Board & Data	1 meeting	84,000	14,280	98,2
Meeting	i mooung	21 journeys	,200	00,2
Software and EFDB Users	1 meeting	84,000	14,280	98,2
Feedback	i mooung	21 journeys	,200	00,2
TFI - SLCF Methodology Report	1 meeting	212,000	36,040	248,0
LAM 1	(moved from 2024)		30,040	240,0
TFI - SLCF Methodology	1CLA/LA Meeting	53 journeys 320.000	54,400	074.4
•••	•		54,400	374,4
Report - LAM 2	(moved from 2024)	80 journeys		
TFI - Science Meeting - CDR	1 meeting	60,000	10,200	70,2
Methodology Report		15 journeys		
TFI - Expert Meeting	1 meeting	160,000	27,200	187,2
· · ·	(contingency)	40 journeys		
SUB-TOTAL				3,612,9
Other Expenditure				
2006 GL software	Maintenance/development			50,0
EFDB maintenance	Update/management	1		66.8
Publications/Translations	IPCC publications	1	<u>├</u> ───┼	100,0
Communication I	AR7 material/travel/events		+ +	494,8
Communication II*	AR7 outreach events		+ +	53,9
		+	┼───┼	
TG-Data	DDC activities	(moved from 0004)	┼───┼	270,2
Gender Action Team	Training - Diversity, Equity & Inclusivity	(moved from 2024)	┼───┼	150,0
Science Editors	Technical editing services	(moved from 2024)	+	95,1
Strategic HR Plan	Consultancy			100,0
Distribution	IPCC publications			100,0
IT Infrastructure	Web hosting/cloudflare/upgrades			13,1
TFI website	Redevelopment			60,0
External Audit	Fee			20,0
Advisory Services	Conflict of Interest			15,0
Co-Chairs	Support	1	<u>├</u>	200,0
SUB-TOTAL	Copport	1		1,789, 1
Secretariat				1,700,1
Secretariat	Staff costs/misc expenses			2,865,3
Resource Mobilization	Travel costs		+ +	2,605,3
SUB-TOTAL	114701 00010	1		2,881,1
TOTAL				2,881, 10,398,0

* Regional/local events

FORECAST 2026 BUDGET TO BE NOTED BY IPCC-LXII

4 days 120 journeys 120 journeys 9 Bureau 2 sessions 480,000 280,000 360 4 days 1 session 424,000 360 460 4 days 1 session 424,000 360 46 4 days 1 session 42,000 3600 46 4 Bit FB 1 session 40,000 6,800 46 5 UNFCCC 80,000 0 68 20 50 8 UB-OTAL 2 meetings 840,000 142,800 982 1 WG I AR7 1 meeting 50,000 142,800 982 2 WG II AR7 1 meeting 40,000 74,800 514 2 WG II AR7 1 meeting 420,000 71,400 491 2 MG II Expert Meeting on 1 meeting 120,000 20,400 144 6 WG I- Expert Meeting on 1 meeting 120,000 20,400 144 6 WG I- Expert Meeting on 1 meeting 120,000 20,400 144 7 To-bat <td< th=""><th></th><th>Activity</th><th>Purpose</th><th>DC/EIT support</th><th>Other Expenditure</th><th>Sub-total</th></td<>		Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total	
1 4 days 120 journeys 120 journeys 2 IPCC-65 Standard plenary business 440,000 280,000 760 3 Bureau 2 sessions 248,000 120 journeys 120,000 366 4 days 1 sessions 248,000 6.800 46 4 TFB 1 session 40,000 6.800 46 5 UNFCCC 80,000 0 66 300 142,800 962 5 UMP and LAM 3 (contingency) 210 journeys 201 201 1 WGI AR7 1 meeting 520,000 88,400 666 1.MR7 1 meeting 520,000 88,400 667 142,800 962 1.MR7 1 meeting 520,000 71,400 491 142,800 962 142,800 962 144,800 142,800 962 144,800 962 144,800,00 74,800 514 145 160,000	A						
2 IPCC-65 Standard plenary business 440,000 280,000 760 3 Bureau 2 sessions 224,000 120,000 366 4 days - - - - - - - 366 4 TFB 1 session 40,000 6.800 46 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	1	IPCC-64	Standard plenary business	480,000	280,000	760,000	
Image: Application of the second se							
3 Bureau 2 sessions 248,000 120,000 366 4 4 days 1 session 40,000 6,800 46 5 UNFCCC 80,000 0 866 5 UNFCCC 80,000 0 866 5 UNFCCC 20 journeys 20 journeys 20 journeys 8 Lead Authors, scoping, expert meetings and workshops 20 journeys 20 journeys WG IAR7 2 meetings 840,000 142,800 962 LAM 2 and LAM 3 (contingency) 130 journeys 20 journeys 20 journeys LAM 2 (contingency) 130 journeys 440,000 74,400 604 LAM 2 (contingency) 10 journeys 144 604 600 144 LAM 2 (contingency) 30 journeys 144 604 606 WG II - Expert Meeting on 1 meeting 120,000 20,400 144 604 4 days and LAM 4 meeting 120,000 20,400 144	2	IPCC-65	Standard plenary business		280,000	760,000	
4 Image: second se		4 days	Programme and budget	120 journeys			
4 TFB 1 session 40,000 6,800 46 5 UNFCCC 80,000 0 80 sub_FOTAL 20)ourneys 20)ourneys 200 8 LEAD Authors, scoping, expert meetings and workshops 200 142,800 962 LAM 2 and LAM 3 (contingency) 210 lourneys 962 144,800 962 LAM 2 and LAM 3 (contingency) 130 lourneys 963 1440,000 71,400 491 LAM 2 (contingency) 105 lourneys 963 1440,000 74,800 514 LAM 2 (contingency) 30 lourneys 964 963 1440,000 74,800 144 LAM 2 (contingency) 30 lourneys 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 964 96	3	Bureau	2 sessions	248,000	120,000	368,000	
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D Secretariat Image: Staff costs/misc expenses 2,865 1 Secretariat Staff costs/misc expenses 2,865 2 Resource Mobilization Travel costs 15 SUB-TOTAL 2,881			• • • •			1,484,496	
1 Secretariat Staff costs/misc expenses 2,865 2 Resource Mobilization Travel costs 15 SUB-TOTAL 2,881	D						
2 Resource Mobilization Travel costs 15 SUB-TOTAL 2,881		Secretariat	Staff costs/misc expenses			2,865,339	
SUB-TOTAL 2,881		Resource Mobilization				15,800	
						2,881,139	
		11,495,675					

All activities subject to Panel approval in IPCC-63

* Regional/local events

INDICATIVE 2027 BUDGET TO BE NOTED BY IPCC-LXII

Activity	Purpose	DC/EIT support	Other Expenditure	Sub-total
Boverning bodies				
PCC-66	Approval Session - SRCities	480,000	350,000	830,00
ō days		120 journeys		
PCC-67	Approval Session - SLCF/CDR	480,000	350,000	830,00
5 days	Programme and budget	120 journeys		
Bureau	2 sessions	248,000	120,000	368,00
4 days		62 journeys		
TFB	1 session	40,000	6,800	46,8
		10 journeys	-	
UNFCCC		80,000	0	80,0
and other UN meetings		20 journeys	-	,-
SUB-TOTAL		20 journo jo		2,154,8
Lead Authors, scoping, expert	meetings and workshops			2,101,0
WG I AR7	1 meeting	420,000	71,400	491,40
LAM 4	(contingency)	105 journeys	, 1,100	
WG II AR7	2 meetings	1,040,000	176,800	1,216,80
LAM 3 and LAM 4	(contingency)	260 journeys	170,000	1,210,0
WG III AR7	2 meetings	920,000	156,400	1,076,4
LAM 3 and LAM 4	(contingency)	230 journeys	,	.,,
TG-Data	1 meeting	48,000	8,160	56,16
	, , , , , , , , , , , , , , , , , , ,	12 journeys		
EFDB Editorial Board & Data	1 meeting	84,000	14,280	98,28
Meeting	_	21 journeys		
TFI - SLCF/CDR	1 CLA/LA Meeting	648.000	110,160	758,10
LAM 4	· · · · · · · · · · · · · · · · · · ·	162 journeys	,	,.
Software and EFDB Users	1 meeting	84,000	14,280	98,2
Feedback	, , , , , , , , , , , , , , , , , , ,	21 journeys	-	
TFI - Expert Meeting	1 meeting	160,000	27,200	187,2
	(contingency)	40 journeys		
SUB-TOTAL				3,982,6
Other Expenditure				
2006 GL software	maintenance/development			50,0
EFDB maintenance	update/management			66,8
Publications/Translations	IPCC publications (including TFI)			300,0
Communication I	AR7 material/travel/events	1		566,8
Communication II*	AR7 outreach events			53,9
TG-Data	DDC activities (contingency)			400.0
Science Editors	Technical editing services			
Distribution	IPCC publications			100,0
T Infrastructure	Web hosting/cloudflare/upgrades			100,0
				,
External Audit	Fee			20,0
Advisory Services	Conflict of Interest			15,0
Co-Chairs	Support			200,0
SUB-TOTAL				1,785,6
Secretariat				0.005.5
Secretariat	Staff costs/misc expenses			2,865,3
Resource Mobilization	Travel costs			15,8
SUB-TOTAL				2,881,1

All activities subject to Panel approval in IPCC-63

* Regional/local events

Annex 5

Intergovernmental Panel on Climate Change List of Member Governments and Organizations that made a contribution in 2024 (31 December 2024)

Date Contribution Received	Contribution (government or other)	Amount of contribution (CHF)
11-Jan-24	Canada (2023)	69,945
26-Jan-24		107,000
	Australia (2023)	92,400
01-Mar-24		306,046
	Trinidad and Tobago	8,800
15-Mar-24	Peru	5,920
20-Mar-24	UNFCCC	228,562
15-Apr-24	The Trottier Family Foundation (DDC)	23,644
21-May-24	Norway	251,016
21-May-24		126,668
27-May-24	Hungary	63,150
28-May-24	Spain	195,464
	Korea, Repblic of	97,739
06-Jun-24	United Kingdom	131,449
12-Jun-24	-	64,184
13-Jun-24	New Zealand	35,681
13-Jun-24	New Zealand (WG III TSU, Malaysia)	27,696
26-Jun-24	Norway (WG III TSU, Malaysia)	62,754
27-Jun-20	Pakistan	2,475
9-Jul-24	China	17,940
19-Jul-24	France	291,503
22-Jul-24	Norway (co-sponsoring AR7 Scoping Meeting, Malaysia)	84,881
6-Aug-24	Switzerland	117,345
9-Sep-24	Maldives	1,694
10-Sep-24	Japan	243,000
7-Oct-24	France	288,158
14-Oct-24	Austria	75,257
8-Nov-24	USA	1,445,000
15-Nov-24	Finland	39,919
19-Nov-24	Australia	98,174
9-Dec-24	UNEP	176,400
10-Dec-24	South Africa (2025)	9,000
18-Dec-24	Italy	231,899
20-Dec-24	Ireland	106,674
27-Dec-24	Belgium	80,000
Total Income		5,207,437

<u>Note</u>: CHF 210 received from Cambodia (2024) on 28 January 2025, will be recorded in 2025 table of contributions.

List of In-kind Contributions/Activities (January – December 2024)

(In the following cases no financial support for hosting/meeting facilities was provided by the IPCC Trust Fund)

Government/Institution	Activity	Туре
China	Technical Support Unit – WG I (AR7)	Hosting
France	Technical Support Unit – WG I (AR7)	Hosting
Singapore	Technical Support Unit – WG II (AR7)	Hosting
The Netherlands	Technical Support Unit – WG II (AR7)	Hosting
Malaysia	Technical Support Unit – WG III (AR7)	Hosting
United States of America	Technical Support Unit – WG III (AR7)	Hosting
Japan	Technical Support Unit – TFI (AR7)	Hosting
Pakistan	Technical Support Unit – TFI (AR7)	Hosting
New Zealand	Technical Support Unit – WG III Malaysia	Hosting
Norway	Technical Support Unit – WG III Malaysia	Hosting
United States of America	Technical Support Unit – WG III Malaysia	Hosting
Germany	IPCC Data Distribution Centre	Hosting
United Kingdom	IPCC Data Distribution Centre	Hosting
United States of America	IPCC Data Distribution Centre	Hosting
WMO	Post of Secretary of the IPCC	Salary
UNEP	Post of Deputy Secretary of the IPCC	Salary
Türkiye	60 th Session of the IPCC, Istanbul, Türkiye (16-19	Meeting facilities
	January 2024)	
Bulgaria	61 st Session of the IPCC, Sofia, Bulgaria (27 July -	Meeting facilities
	2 August 2024)	
Australia	36 th Session of the Task Force Bureau, Brisbane,	Meeting facilities
	Australia (26 February – 1 March 2024)	
Australia	TFI – Scoping Meeting on SLCF Methodology	Meeting facilities
	Report, Brisbane, Australia (26-28 February 2024)	
Austria	TFI – Expert Meeting – CDR Methodology Report,	Meeting facilities
	Vienna, Austria (1-3 July 2024)	
Denmark	37 th Session of the Task Force Bureau,	Meeting facilities
	Copenhagen, Denmark (17-18 October 2024)	
Denmark	TFI – Scoping Meeting – CDR Methodology	Meeting facilities
	Report, Copenhagen, Denmark (14-16 October	
	2024)	
Italy	TFI Expert Meeting – Reconciling Land Use	Meeting facilities
	Emissions, Varese, Italy (9-11 July 2024)	
Norway	AR7 Scoping Meeting, 9-13 December 2024,	Co-sponsoring
	Malaysia	

<u>Decision IPCC-LXII-8</u>. Scoping of the IPCC Seventh Assessment Report (AR7)

Documents: IPCC-LXII/Doc. 11; IPCC-LXII/Doc. 12; IPCC-LXII/Doc. 13; IPCC-LXII/Doc. 14; IPCC-LXII/Doc. 15; IPCC-LXII/Doc. 16

The Intergovernmental Panel on Climate Change at its Sixty-second Session, recalling the Decision IPCC-LXI-9, decides:

- (1) To agree on the outlines of the contributions of Working Groups to the Seventh Assessment Report as contained in Annexes 1, 2 and 3 to this document.
- (2) To invite Working Groups to start their work as indicated by the 2025 budget as contained in the Decision IPCC-LXII-7 by initiating the call for nominations for the authors, and convene the LAM1 in 2025.
- (3) To defer further consideration of the workplan including the proposed Implementation Plan as contained in the documents IPCC-LXII/Doc. 14; IPCC-LXII/Doc. 15; IPCC-LXII/Doc. 16 for the preparation of the Working Group contributions to the Seventh Assessment Report to the 63rd session.

CHAPTER OUTLINES OF THE WORKING GROUP I CONTRIBUTION TO THE IPCC SEVENTH ASSESSMENT REPORT (AR7)

Version before final copyedit

Summary for Policymakers

Technical Summary

Chapter 1:

Framing, methods and knowledge sources

Executive Summary

Frequently Asked Questions

- Framing, narrative and context of the AR7
- Key findings and gaps in AR6 WGI
- Knowledge sources
- Assessment of knowledge sources, including fitness for purpose
- Methodologies to integrate lines of evidence
- Emerging topics, models, and tools

Chapter 2:

Large-scale changes in the climate system and their causes

Executive Summary

Frequently Asked Questions

- Natural and anthropogenic radiative forcing and Earth energy imbalance
- Indicators of climate change and related methodologies
- Observed changes across the Earth system and their recent and longer-term context
- Changes in modes of climate variability and monsoons
- Assessment of model-simulated changes
- Attribution of large-scale changes

Chapter 3:

Changes in regional climate and extremes, and their causes

Executive Summary

Frequently Asked Questions

- Regions and spatial scales of analysis, including land and oceanic regions and typological areas such as mountains, low lying coastal areas, and polar, tropical, desert, and semi-arid regions
- Disparities in regional information availability, accessibility and gaps, and integration of multiple information sources, including Indigenous Peoples' knowledge and local knowledge, and paleo archives
- Advances and limitations in the assessment of regional climate change and extremes including models and observations
- Emerging regional and local process understanding, including regional interconnections and longrange transport
- Rapid and slow changes in regional and local climate, including changes in seasonality and extremes

- Slow onset events including regional sea level rise and desertification
- Indicators of regional climate change and related methodologies
- Attribution of regional and local changes
- Attribution of extreme events, including tropical cyclones, and compound events

Chapter 4:

Advances in process understanding of Earth system changes

Executive Summary

Frequently Asked Questions

- Biogeochemical cycle processes and budgets, including effectiveness of sinks and sources of greenhouse gases
- Short-lived climate forcers, connection to air quality and climate interactions
- Earth system energy budget and fluxes, heat storage and redistribution
- Water cycle processes and budgets
- Cryosphere processes including in high mountain and polar regions
- Ocean processes including sea level rise and ocean acidification
- Atmospheric processes, including circulation, weather patterns, monsoons, clouds and their interactions with atmospheric composition
- Land-surface processes, including biosphere
- Land-atmosphere-ocean interactions including monsoons
- Earth system feedbacks on multiple time scales
- Model process evaluation, including paleoclimate constraints

Chapter 5:

Scenarios and projected future global temperatures

Executive Summary

Frequently Asked Questions

- Description of scenarios (emissions, removals, and concentrations of GHGs and short-lived climate forcers; land cover and land use change)
- Use and evaluation of models and tools for the assessment of scenarios
- Global Earth system and climate sensitivity metrics and properties, relationship between carbon cycle, energy balance and global temperature
- Effects of non-CO₂ forcers on temperature and carbon budgets across time scales
- Global temperature projections on different time scales
- Global warming levels and associated time frames in scenarios
- Total, historical, and remaining carbon budgets

Chapter 6:

Global projections of Earth system responses across time scales

Executive Summary

Frequently Asked Questions

- Projected changes across the Earth system, its components and their ecosystems including longterm changes in cryosphere and sea level rise
- Projected changes as a function of time and of global warming levels

- Forcing-dependent responses arising from GHGs, short-lived climate forcers, and land use and land cover change
- Projected changes in biogeochemical cycles, including carbon sinks and pools
- Projected changes in modes of climate variability and monsoons
- Near-term information from multiple sources
- Uncertainties arising from forcings, models, internal variability, and process understanding

Chapter 7:

Projections of regional climate and extremes

Executive Summary

Frequently Asked Questions

- Regions and spatial and temporal scales of analysis, including land and oceanic regions and typological areas
- Projected regional and local changes in means, variability and seasonality including regional circulation, as function of time and global warming levels
- Projected regional and local changes in extreme and compound events on land and oceans, including, but not limited to tropical cyclones, oceanic events, extreme sea levels, drought, heat waves, sand and dust storms.
- Natural and anthropogenic drivers of regional changes and their feedbacks
- Influence of regional interconnection processes and long-range transport on projected changes
- Assessment of cascading uncertainties
- Advances and limitations of existing approaches and methodologies for regional climate assessment, including disparities of information production, availability, and accessibility

Chapter 8:

Abrupt changes, low-likelihood high impact events and critical thresholds, including tipping points, in the Earth system

Executive Summary

Frequently Asked Questions

- Definitions, characterization, time and spatial scales, reversibility
- Abrupt changes, low-likelihood high impact events and tipping points¹ within the Earth system components and their ecosystems, their drivers and occurrence conditions
- Evidence from and limitations of observations, models, paleoclimate and Indigenous Peoples' knowledge and local knowledge
- Local, regional and global climatic consequences relevant for impacts and risks, their magnitude, spatial extent, timing, reversibility, teleconnections, cascading and compounding effects
- Critical system-specific thresholds, including in the context of global warming levels, and early warning indicators

¹ A critical threshold beyond which a system reorganizes, often abruptly and/or irreversibly (IPCC AR6 Glossary definition).

Chapter 9:

Earth system responses under pathways towards temperature stabilization, including overshoot pathways

Executive Summary

Frequently Asked Questions

- Global and regional Earth system responses to pathways towards temperature stabilization, including to global net-zero, negative and net-negative emissions, and long-term implications
- Pathway dependency of responses including in the context of overshoot and irreversible aspects
- Bio-geophysical capacity and limits of carbon dioxide removal (CDR) methods
- Global and regional Earth system responses to removals of carbon dioxide, methane or nitrous oxide
- Global and regional Earth system responses to different global and regional solar radiation modification (SRM) methods, including consequences and uncertainties

Chapter 10:

Climate information and services

Executive Summary

Frequently Asked Questions

- Usage of climate information from multiple lines of evidence and knowledge sources, including Indigenous Peoples' knowledge and local knowledge, for public awareness, impact and risk assessment, losses and damages, adaptation and mitigation
- Advances in climate information for climate services across timescales, including multi-hazard, early warning systems
- Methodologies to develop climate information, including co-design and co-production, to support impact and risk assessment, losses and damages, adaptation and mitigation
- Information on climatic impact-drivers and their changes to support impact and risk assessment, losses and damages, adaptation and mitigation, for systems and sectors across regions
- Physical effects of adaptation and mitigation measures on regional climate and extremes
- Gaps and disparities in available and accessible climate data, monitoring infrastructure, information and indicators for climate services, and their implications across spatial and temporal scales, across regions
- Climate information and services to reduce gaps and disparities in climate education and literacy, capacity, and training
- Case studies across regions

Annexes

Cross Working Group Glossary Technical Annexes WGI Interactive Atlas List of Acronyms List of Contributors List of Reviewers

Index

CHAPTER OUTLINES OF THE WORKING GROUP II CONTRIBUTION TO THE IPCC SEVENTH ASSESSMENT REPORT (AR7)

Version before final copyedit

Title: Climate Change 202X: Impacts, Adaptation and Vulnerability

Summary for Policymakers

Technical Summary

Chapter 1: Point of departure, framing and key concepts

- Framing in the context of the IPCC Seventh Assessment Report providing key concepts related to impacts, losses and damages, adaptation, risk, vulnerability and sustainable development that are covered in subsequent chapters
- Facing accelerating climate change impacts and risks and adapting to complex, compounding and cascading challenges and opportunities
- Setting the stage: evolving climate policy and knowledge landscapes in a changing world
- Introducing Global, Regional and Thematic Assessments
- Introducing the 202X Technical Guidelines for Assessing Climate Change Impacts and Adaptation including Indicators, Metrics and Methodologies
- From assessment to effective implementation: overcoming barriers and enabling climate adaptation and responses to losses and damages

Global Assessment Chapters

Chapter 2: Vulnerabilities, impacts and risks

- Multiple dimensions of vulnerability across temporal and spatial scales
- Synthesis of observed and projected reversible and irreversible impacts, building on both slow to rapid onset events and climate extremes, including quantification, detection and attribution as appropriate
- Assessment of methodologies and synthesis of observed and projected economic and noneconomic losses and damages, building on both slow to rapid onset events and climate extremes, including quantification, as appropriate
- Key risks including complex, compound, cascading, reversible, irreversible and residual risks under a range of climate scenarios, and different levels of global warming, development, adaptation and other responses

- Risks, risk management and ethics of Solar Radiation Modification
- Reasons for Concern
- Lessons from other approaches to risk assessment across scales

Chapter 3: Current adaptation progress, effectiveness and adequacy

- Adaptation progress, gaps, limits and barriers and capacity building
- Indicators and metrics to measure adaptation
- Adequacy and effectiveness of support for adaptation and risk management
- Adaptation costs, trade-offs, benefits and co-benefits
- Evidence of effectiveness and scope of state and non-state actions at various scales

Chapter 4: Adaptation options and conditions for accelerating action

- Effectiveness and feasibility of adaptation options considering current context, interdependencies, and a range of climate scenarios, and different levels of global warming, development, and adaptation
- Approaches for adaptive and continuous learning, monitoring and evaluation to design better policies, options and actions, and to enhance implementation including to avoid adverse outcomes
- Drivers, enablers and conditions for accelerated adaptation action, including means of implementation and using various technologies
- Ways of adaptation decision making and planning under uncertainty and enabling and constraining conditions
- Enhancing agency and capacity of stakeholders and empowering Indigenous Peoples and local communities
- Synergies, opportunities and trade-offs of adaptation such as with Disaster Risk Reduction, mitigation and sustainable development

Chapter 5: Responses to losses and damages

- Types of responses to economic and non-economic losses and damages by a diversity of actors at various scales and their interactions
- Policy contexts, institutional arrangements and other approaches for responding to losses and damages at various scales

- Drivers of decision-making including values, perceptions, differential power and influence, behaviour, incentives and capacities
- Approaches of categorizations and metrics to assess losses and damages
- Existing and potential responses to losses and damages including effectiveness and feasibility under a range of climate scenarios and different levels of global warming, development and adaptation
- Needs, gaps, barriers and enablers in responses to losses and damages

Chapter 6: Finance

- Background considerations, including broader macroeconomic context, other international commitments, barriers and enablers to finance
- Financial adequacy, access (equity and justice), inclusion, effectiveness, and outcomes considering finance at different scales (including national, regional, and global)
- Funding for adaptation overview of financing needs, current climate finance flows, instruments and gaps, effectiveness and access, methodologies for tracking finance flows, and costs and benefits
- Funding for responses to losses and damages overview of financing needs, current climate finance flows, instruments and gaps, effectiveness and access, methodologies for tracking finance flows
- Public and private finance for climate adaptation action and responses to losses and damages: finance flows at domestic and international levels
- Equitable financial systems and schemes including related approaches and policies
- Approaches to accelerate finance flows and investments, including the diversity of instruments and schemes for adaptation action
- Synergies between climate finance and climate resilience

Regional Assessment Chapters

Common Bullets to all Regional Assessment Chapters

- Consider regional setting, including intra-regional variabilities, areas of special concerns, such as hotspots and geographies, socio-political contexts and the thematic assessment chapters
- Multiple dimensions of vulnerability and adaptive capacity across temporal and spatial scales

- Observed and projected impacts, including economic and non-economic losses and damages, building on both slow onset and extreme Climatic-Impact Drivers
- Key risks including complex, compound, cascading, transboundary, residual risks, and risks under a range of climate scenarios and different levels of global warming, development and adaptation
- Adaptation progress, options, solutions, gaps, limits and barriers
- Range of adaptation options and responses to losses and damages, means of implementation, costs, benefits, effectiveness and feasibility of different options
- Barriers and enablers to climate action, including finance, capacity building, education, technology development and transfer
- Perception, beliefs, values, behavioural aspects and cultural practices of adaptation, including locally led adaptation and community-based responses
- Distributional nature of effects, including consideration of human rights, equity and justice, Indigenous Peoples, local communities, gender, disability, informality and intergenerational justice, and other vulnerable groups
- Institutional and governance frameworks critical to planning and implementation, including social, economic and political considerations
- Role of diverse knowledge systems including Indigenous Knowledge, local knowledge and experiential learning
- Linkages with sustainable development and climate resilient development, including co-benefits, synergies, trade-offs and opportunities for innovation and transformation
- Regional and local case studies
- Cross-chapter Papers: polar, dryland and deserts, high altitude and mountain regions, least developed countries, Mediterranean

Chapter 7: Africa

Chapter 8: Asia

Chapter 9: Australasia

Chapter 10: Central and South America

Chapter 11: Europe

Chapter 12: North America

Chapter 13: Small Islands

Thematic Assessment Chapters

Common bullets to all thematic assessment chapters

- Observed and projected impacts, including economic and non-economic losses and damages, building on both slow onset and extreme Climatic-Impact Drivers
- Multiple dimensions of vulnerability and adaptive capacity across temporal and spatial scales
- Key risks including complex, compound, cascading, transboundary, residual risks, and risks under a range of climate scenarios and different levels of global warming, development and adaptation
- Perceptions, beliefs, values, behavioural aspects and cultural practices of adaptation, including locally led adaptation and community-based responses
- Range of adaptation options and responses to losses and damages, means of implementation, costs, benefits, effectiveness and feasibility of different options
- Barriers and enablers to climate action, including finance, capacity building, education, technology development and transfer
- Distributional nature of effects including consideration of human rights, equity and justice, Indigenous Peoples, local communities, gender, disability, informality and intergenerational justice, and other vulnerable groups
- Institutional and governance frameworks critical to planning and implementation, including social, economic and political considerations
- Role of diverse knowledge systems including Indigenous Knowledge and local knowledge and experiential learning
- Linkages with sustainable development and climate resilient development, including co-benefits, synergies, trade-offs, and opportunities for innovation and transformation
- Case studies of implementation

Chapter 14: Terrestrial, freshwater and cryospheric biodiversity, ecosystems and their services

- Considering distinct geographies and biomes, including cryosphere, polar, forests, grasslands, mountains, wetlands, deserts and drylands
- Vulnerability, resilience and climate change feedbacks of biodiversity, ecosystem structure and functions, and the implication for their services under a range of projected scenarios including climate extremes and slow to rapid onset events such as drought, sand and dust storms, and emergence of novel biological communities
- Emerging threats, challenges and management of risk to critical biodiversity, ecosystems, critical species and related cultural heritage
- Enablers, limits and barriers to natural adaptation

Chapter 15: Ocean, coastal and cryospheric biodiversity, ecosystems and their services

- Considering distinct geographies and biomes, including cryosphere, polar, mangroves, sea grasses and sea weeds, coral reefs, estuaries, open ocean, intertidal zone, and salt marshes
- Vulnerability, resilience and climate change feedbacks of biodiversity, ecosystem structure and functions, and the implication for their services under a range of projected scenarios including climate extremes and slow to rapid onset events, emergence of novel biological communities
- Emerging threats, challenges and management of risk to critical biodiversity, ecosystems, critical species and related cultural heritage
- Enablers, limits and barriers to natural adaptation

Chapter 16: Water

- Water security addressing the issues of too little, too much, and polluted water in the context of climate change to meet the needs of people, food production and ecosystems
- Water scarcity in arid and semi-arid regions in context of climate change
- Water use and budgeting including virtual water, water footprints, water-related nexus
- Water management across scales including non-economic and cultural values of water as appropriate
- Risks from response options, including water cooperation and sharing

Chapter 17: Agriculture, food, forestry, fibre and fisheries

• Adaptation options for livelihoods, food supply chains, agricultural production and food and nutritional security, considering affordability, dietary diversity, accessibility, agency and sustainability

- Synergies and trade-offs concerning land and ocean use
- Livelihood security, risks to cultural heritage and adaptation options for key vulnerable groups such as smallholder farmers, women farmers, pastoralists, forestry, artisanal and traditional fishing dependent communities
- The role of international cooperation in addressing the adverse effect of climate change and enhancing adaptive capacity in global agriculture, livestock, fisheries and aquaculture
- Impacts of climate change on inter- and intra-regional trade for food security

Chapter 18: Adaptation of human settlements, infrastructure and industry systems

- Supply chain risk, business risk, cascading impacts, risks of failure of infrastructure systems and risks to cultural heritage
- Adapting infrastructure, industry, energy systems and human settlements to reduce risk, enhance opportunities and build response capacity at multiple levels
- Developing and utilizing climate resilient infrastructure to build adaptive capacity and support sustainable development at multiple levels
- Adaptation solutions including new technologies, methods of construction, materials and innovations, green and grey and natural infrastructure, social and behavioural change, increasing energy access in the context of sustainable development
- Relevant updates to Special Report on Climate Change and Cities

Chapter 19: Health and well-being

- Observed impacts and projected risks from factors such as extreme weather, emerging pathogens, and infectious diseases to physical and mental health and well-being due to multi-scale climate change, extremes, compound and cascading events
- Intersectionality of drivers of vulnerability and exposure to climate hazards within populations and communities
- Adapting health systems, and health prevention and promotion activities to reduce risk and build capacity at multiple levels
- Intersection between climate change, health and wellbeing, and non-climatic drivers of health, and other health determining factors
- Innovative and collaborative partnerships in the health sector involving different stakeholders

Chapter 20: Poverty, livelihoods, mobility and fragility

• Livelihood options, households with low-income and social deprivations in rural and urban contexts, Indigenous Peoples, local communities, informal settlements, contexts of fragility, displaced, mobile and immobile populations

- Interaction of climate change and development with poverty, vulnerability and livelihoods
- Human mobility, including transhumance in the context of climate change
- Risks and adaptation in fragile contexts, and in contexts of social unrest and conflict
- Integrating adaptation and resilience into efforts towards poverty eradication, livelihood enhancement, formal and informal social protection mechanisms
- Differentiated capabilities and responsibilities, and asymmetric access to information, knowledge, finance and decision-making fora

Annex I: Atlas

• Inter- and intra-regional mapping of hazards, vulnerability, exposure, impacts, risks, adaptation, and responses to losses and damages

Annex II: Linkage to TGIA: Overview of Technical Guidelines on Impacts and Adaptation

Annex III: Glossary

Annex IV: Acronyms

Annex V: List of Contributor

Annex VI: List of Reviewers

202X IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptation Including Indicators, Metrics and Methodologies:

Update to the 1994 IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptations

Section 1: Introduction

- Rationale for updating the Technical Guidelines
- Framing, purpose and audience for the Technical Guidelines

Section 2: Adaptation in practice

- Key principles and concepts for the Technical Guidelines, such as effective and adequate adaptation; equity and justice; co-development, flexibility and adaptive planning; integrated thinking and consideration of planning as an integrated approach suitable for practical application; synergies and trade-offs
- Considering multiple levels of governance and levels of assessment and adaptation action
- Adaptation in relation to societal development needs and values, and adaptation as both a stand-alone, iterative and continuous, mainstreamed activity

Section 3: Technical Guidelines

- Scoping and goal setting (analysis of current risk management capacities; and analysis of impact of adaptation measures on equity and justice outcomes; identification of risk distribution and risk tolerance across communities, regions and time scales; assessment of sectoral and development policies, data and knowledge sources, resources, enablers and barriers; identifying and addressing information gaps)
- Impact, vulnerability and risk assessment (analysis of climate impacts, including economic and non-economic losses and damages; relationship between global temperature goals and adapting to their impacts; assessment of climate risks, considering climatic and non-climatic risk drivers; identification of new and emerging risks; analysis of tolerance of residual risk; demand for adaptation; assessing uncertainty)
- **Planning** (identifying entry points for adaptation; participatory and inclusive planning processes; mainstreaming adaptation in existing policies, regulations and practices; costs and benefits, and budgeting of adaptation; identifying, appraising and prioritising adaptation options using criteria such as effectiveness, adequacy, feasibility, equity, synergies and trade-offs; iterative planning)
- **Implementation** (identifying roles and responsibilities of relevant stakeholders; identifying and mobilizing resources; development of workflow and institutional collaboration mechanisms; development of communication channels)
- Learning, monitoring and evaluation (impact, thematic targets and adaptation metrics and indicators to monitor and track progress, uptake and performance; systematic tracking of

lessons and feedback from implementation for continuous learning and adaptive management; ex-post evaluations including equity and justice outcomes)

Section 4: Tools, building blocks and enablers

- Systematic exploration of methodologies and tools for assessing impacts, risks, vulnerabilities and adaptation, including climate scenarios, metrics and indicators, adaptation options, prioritization and costing
- Co-development principles and practices (stakeholder engagement; locally-led approaches; gender-responsive approaches; mutual learning with marginalized communities, Indigenous Peoples, non-governmental organizations, and technical and scientific communities; communication and outreach)
- Services and data to support adaptation planning (climate information services; geophysical, environmental and socioeconomic information)
- Financing adaptation and mobilising resources for managing adaptation programs, and identification of funding mechanisms
- Survey of governance and regulatory enablers (frameworks to accelerate implementation of adaptation; identifying approaches for integrating adaptation into national and sectoral policies, laws and regulations; frameworks for adaptive management)

CHAPTER OUTLINES OF THE WORKING GROUP III CONTRIBUTION TO THE IPCC SEVENTH ASSESSMENT REPORT (AR7)

Version before final copyedit

Summary for Policymakers

Technical Summary

Chapter 1: Introduction and framing

- Introduction to WGIII report chapters and sections (and what is not going to be covered in the WGIII report)
- Framing, in the context of AR7, providing overarching concepts related to mitigation, including equity within and between countries, just transitions in its broader sense, differentiation considering stages of development, and circumstances, regionalization, and considerations of Indigenous knowledges and local knowledge
- Sustainable development (not limited to SDGs), national and regional priorities, and their synergies and trade-offs as a framing concept
- Framing, key concepts, and definitions of projected scenarios and pathways, including qualitative and quantitative scenarios
- Highlighting past performance and achievements in implementation of climate change mitigation and evolution of innovation (including social innovation), technology, capacity building, mitigation finance, governance, and climate policy
- Role of the ocean, land, ecosystems, and biodiversity in mitigation
- Social, economic, and environmental impacts of climate mitigation policy and action
- Adaptation interlinkages to mitigation
- Key concepts and dimensions of integration across Working Groups

Chapter 2: Past and current anthropogenic emissions and their drivers

- Historical anthropogenic emissions and emissions trends on an annual and cumulative basis (global, by region, sector, GHG, non-GHG, etc., using different indicators and definitions, at different scales), including estimates of uncertainty, and consistency with national inventories, and relationship to total and remaining carbon budgets
- Emissions, trends in drivers, including a broad set of drivers and activities at different scales
- Policy, actions, and governance at different scales, including impacts on emissions and drivers

Chapter 3: Projected futures in the context of sustainable development and climate change

- Assessment of methodologies, models, databases, development tools for scenarios and emissions pathways, methods for assessing emissions scenarios (including justice and equity assumptions and implications), and consistency of land-use emissions definitions with national inventories
- Implications of mitigation for development pathways, such as well-being, energy security, affordability and access, employment, poverty, and sustainability, including the Rio Conventions
- Assessment of how development pathways and sustainable development pathways consider and affect mitigation, including implications of Rio Conventions, meeting SDGs, and beyond
- Assessment of a broad range of projected futures for socioeconomic development, scenarios, and their underlying assumptions and outcomes, including assessments of feasibility (geophysical, environmental-ecological, technological, economic, socio-cultural, and institutional)
- Assessment of systems transitions under different projected futures
- Economics of global and national mitigation and development pathways, including mitigation costs and benefits, investment needs, employment effects, co-benefits, and spillover effects

- Climate change impacts on mitigation strategies; synergies and tradeoffs between mitigation and adaptation
- Projected emissions pathways considering current policy and projections, and relationships between national and global projected scenarios, in the context of the UNFCCC and the Paris Agreement
- Opportunities and challenges to enable climate action from current policies in the context of equity and justice
- Relationship between global temperature goals and mitigation action, including overshoot, relationship between gross emissions reductions, residual emissions, and negative emissions
- Relationship(s) between equity, justice, and mitigation across, between and within countries and generations
- Robustness of mitigation strategies and projected pathways under uncertainty

Chapter 4: Sustainable development and mitigation

- Sustainable development including and beyond SDGs as an integrative perspective for climate change responses (synergies and tradeoffs)
- Distributional consequences, within and across groups and countries
- Political economy of, co-benefits, adverse effects and livelihood and economic impacts of transitions related to mitigation
- Climate change mitigation response capacities and enabling conditions, including technology, finance, and cooperation for sustainable development
- Equity and justice (with a focus on just transitions and unpacking that at sectoral, national, regional, and global levels)
- Social and socioeconomic dimensions, including impacts of climate mitigation, and sufficiency and other strategies
- Climate change mitigation responses in the context of multi-objective policies across scales (economic development, diversification and prosperity, poverty eradication, improving living standards, etc.)
- Mitigation-adaptation interlinkages and other sustainable development objectives, including potential synergies and trade-offs
- Uncertainties and knowledge needs
- Implications of climate change mitigation responses on biodiversity and ecosystems, conservation, and restoration
- Ocean-based mitigation in the context of sustainable development and blue economy including synergies with global food and nutritional security
- Pathways in the context of sustainable development and the remaining carbon budgets, considering different stages of development, and circumstances, including links to Chapter 3

Chapter 5: Enablers and barriers

- Feasibility of mitigation in different contexts and under multiple barriers and enablers
- Development as enabler of mitigation
- Capacity for mitigation, including technological, institutional, economic, and human capacity
- Technology, including access, cost, infrastructure, innovation, scalability, replicability and speed of and disparity in adoption
- Finance, investment, policies and governance
- Distribution of benefits, costs, and impacts of mitigation
- Inequality and inequity within and across countries, including intergenerational aspects
- Social enablers, barriers, and impacts of mitigation, including public perception and support, lifestyles and behavior, production and consumption, communication, information, engagement, education, health and well-being
- Labor as enabler and barrier to mitigation, including supply, organization, wellbeing, skills
- Just transitions

- Environmental and natural resources enablers and barriers for mitigation at national, international, and subnational levels, including land, water, natural resources, minerals, and climate services
- Indigenous rights, governance, and knowledge systems
- Political economy of mitigation including public preferences, interest groups, and political institutions
- International cooperation and supply chains
- Peace, security, and conflict, including resource competition

Chapter 6: Policies and governance and international cooperation

- Policies and governance compatible with development pathways, equity, justice, distribution and integration with adaptation and sustainable development
- Various approaches to policy and institutional design
- International cooperation, taking into account political economy dimensions
- International climate and relevant non-climate agreements
- Multiple objectives, tradeoffs and co-benefits with climate and non-climate objectives
- Policy innovation, learning, and diffusion, and assessment of policy instruments
- Non-state actors' roles and efforts at different levels and contexts, including corporate and financial institutions, civil society, labor and informal economy, media, social, gender and youth movements, Indigenous Peoples and local communities
- Mitigation policies, action and cooperation at different levels
- Diverse climate regulatory and governance frameworks and other policy frameworks
- Long-term policy, governance and international cooperation for climate action and net zero emissions and beyond

Chapter 7: Finance

- Scaling finance to meet current and future finance needs
- Investment and finance for innovation and for mitigation and transitions in the context of sustainable development
- Innovation for financing
- Finance instruments, sources, channels and mechanisms
- Financial adequacy, access (equity and justice), inclusion, effectiveness, and outcomes considering finance at different scales (including national, regional, and global)
- Financial flows to support mitigation (including those to, from and between developed and developing countries), and tracking by sources, sectors and levels of governance, channels, regions, countries, and instruments
- Enablers and barriers for finance, including barriers to access
- Climate-related planning and management of finance
- Gender, Indigenous Peoples and local communities climate finance

Common elements across Chapters 8-13

- Key findings from the Sixth Assessment Report (AR6) and the Special Report on Climate Change and Cities
- Policies and implementation as appropriate
- Drivers and current trends in emissions and removals, as appropriate
- Mitigation measures and potentials and futures in the context of sustainable development, justice, equity, and global warming levels
- Feasibility and social acceptance
- Links to projected regional and global futures
- Links to sustainable development and adaptation, including risks, co-benefits, synergies, tradeoffs, and spill-over effects, as appropriate
- Links to Indigenous Peoples, local communities and gender
- Interactions between relevant UN Conventions and other relevant frameworks, as appropriate
- Assessment of costs and benefits of mitigation options
- Financial instruments (e.g., market and non-market)

- Innovation and knowledge gaps
- International cooperation and related aspects
- Case studies, as appropriate

Chapter 8: Services and demand

- Human needs, aspirations, inclusive well-being, and development
- Demand, equity, affordability and access to services across regions and social groups including the informal sector
- Demand-side mitigation potential of different service provisioning options including at system scale
- Demand-side options for comparison with other emission reductions options
- Social drivers of behavioral change, such as lifestyles, culture, value systems, psychology, communications, education, Indigenous knowledge systems, capacity building, social trust, and governance
- Other drivers of change
- Empirical evidence of the speed for diffusion of social innovations, including business model, behavioral, community based, and institutional innovations
- Policy, governance, and the roles of actors in the diffusion of demand-side solutions
- Synergies and co-benefits, including cross-sectoral implications for adaptation, health, energy security, inclusive development, and materials
- Feasibility dimensions of demand-side solutions, including synergies and tradeoffs with sectors and with sustainable development dimensions
- Services and demands related to oceans

Chapter 9: Energy systems

- Trends, historical, current and future
- Options and technologies for mitigation
- Abatement potentials and implications
- Energy access for household and productive use, including distributed approach potential
- Energy security, affordability, sustainability, resilience, and adequacy
- Energy system infrastructure changes, and timescales
- Energy transitions
- Energy governance and political economy (including energy markets and supply chains)
- Material and resource needs and constraints
- Capacity building and capacities (technology transfer and assimilation)
- Renewables, nuclear, carbon capture and storage, carbon capture and utilisation, and synthetic energy carriers (e.g., hydrogen)
- Equity, justice, just transitions, and distributional impacts
- Fugitive emissions and methane mitigation

Chapter 10: Industry

- Industry, society, well-being and inclusive development
- Current and future demand for industrial products to meet end-use services
- Past and current level of emissions by industries
- Material end-use demand, material efficiency, consumption patterns, circularity, waste; CCU and CCS; critical minerals
- Potential sector mitigation options (e.g., energy efficiency, clean fuel switching, feedstocks; process changes, such as electrification and hydrogen; carbon management), and co-benefits
- Access to technology, infrastructure, and capacity
- Governance, institutions, laws, and barriers
- Impacts on and interactions with local communities and Indigenous Peoples
- Policies to drive mitigation and co-benefits in a context of sustainable development, equity, and justice
- International cooperation and related aspects

Chapter 11: Transport and mobility services and systems

- Socioeconomic, geographic-related context circumstances
- Mobility access, affordability, and equity
- Spatial planning, infrastructure, and supply chains for mobility and energy carriers (passenger and freight; public transport, road, rail, micromobility, aviation, maritime, water-based, and multimodal transport)
- Mitigation options and strategies for passenger and freight transport (including Avoid, Shift, Improve options and social and technological innovation) towards low or zero emissions transport
- Interaction with adaptation, disaster risk and resilience, synergies and tradeoffs with sustainable development, including environment and health
- Sector-specific policies and policy packages, laws, multi-level governance, financing, and enabling conditions

Chapter 12: Buildings and human settlements

- Framing the scope and new developments
- Emission trends and drivers
- Services (including comfort, nutrition, illumination, communication)
- Potential mitigation options and strategies for buildings and human settlements (e.g., spatial planning and land use, design, construction, retrofitting and renovation technologies, behavior)
- Direct and embodied emissions reduction, including alternative building materials and material efficiency
- Interaction with adaptation, disaster risk and resilience, synergies and tradeoffs with sustainable development
- Distribution impacts under different urban, rural, and regional specificities/informal settlements, social vulnerability, and land use
- Barriers and opportunities (technological, physical, financial, institutional, governance, cultural, etc.)
- Infrastructure, systemic interactions, cross-sectoral benefits, circular economy, insights from life cycle assessment and material flow analysis

Chapter 13: Agriculture, Forestry, and Other Land Uses (AFOLU)

- Mitigation measures (emissions and removals) and potentials in the context of sustainable development and global warming levels (including equity and justice, risks, food security, feasibility, regions, tradeoffs, and synergies)
- Use of consolidated national/regional data on emission factors, forest and soil parameters, and livestock production systems from under-represented regions, including recent data on fragile ecosystems
- Projected mitigation pathways, including alternative demand scenarios, that assess the scale of land mitigation measures, impacts on gross and net land-use change across different ecosystems, and social and environmental contexts
- Effects of climate impacts on socio-ecological systems, responses, and consequences for mitigation potentials and scenarios
- Consideration of the role of Indigenous Peoples and local communities in codesigning and implementing mitigation measures
- Integration of economic, social, and technological responses and their efficacy and limits for delivering mitigation and multiple outcomes
- Comparing and reconciling land use emissions with national inventories (including the effects of increasing background fluxes on total and net GHG flux from AFOLU)
- Tradeoffs and synergies of measures with sustainable development (beyond SDGs) at regional and subregional levels
- Systems integration related to AFOLU, including linkages to Chapter 14

Chapter 14: Integration and interactions across sectors and systems

- System integration, including energy, transport, buildings, and industry
- Infrastructure used by multiple sectors for enabling low or net-zero emissions economies
- The role of urban systems in mitigation
- Materials, circularity, and waste across sectors
- Energy system integration (power-to-heat, power-to-transport, power-to-water, power-to-fuels, energy storage)
- Intersections between water, energy, food, ecosystems, and climate change; food systems; bioeconomy
- Costs and potentials, including the effects of integration
- Policies and enabling conditions for system integration and cross-sector synergies
- Digitalization and communication technologies for enabling system integration and interaction, and their implications

Chapter 15: Potentials, limits, and risks of Carbon Dioxide Removal (CDR)

- Effectiveness of CDR approaches at different warming levels and time scales
- The role of CDR strategies in net-zero and net-negative emissions futures, including levels of residual emissions achievable
- Technical and economic potential, sustainability aspects, scalability, equity implications and costs of different approaches, including storage potential, CDR approaches in other chapters and marine carbon dioxide removal
- Co-benefits, opportunities, synergies, tradeoffs and adverse effects of different CDR approaches on land, biodiversity and ecosystems, energy, materials, food, and waterbodies
- Feasibility assessment of CDR approaches (including geophysical, environmental-ecological, technological, economic, institutional and sociocultural) reflecting different regional and sub-regional contexts and scales
- Permanence, durability and reversibility of CDR approaches at different scales
- Assessment of current status and limits of MRV approaches
- Policies and governance, market, non-market and financing for research and development and implementation of CDR approaches
- Interactions with sustainable development, adaptation, and other mitigation options
- Technology transfer and capacity building for CDR approaches

Annex: Glossary