

Update on the ongoing work of Working Group II of the Intergovernmental Panel on Climate Change

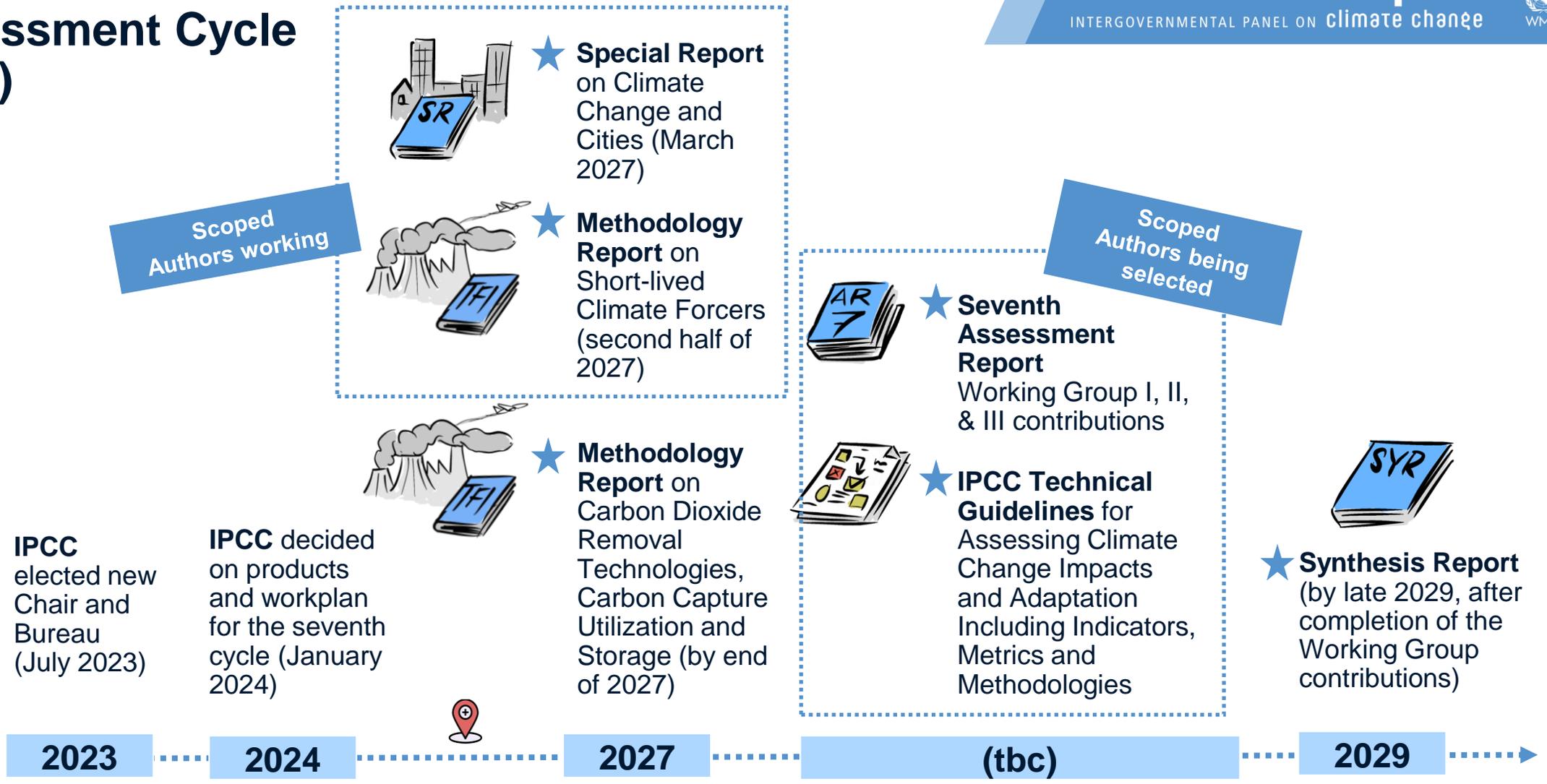
Bart van den Hurk and Winston Chow
Working Group II Co-Chairs, IPCC AR7





Introducing the 7th Assessment Cycle

Timeline of the 7th Assessment Cycle (AR7)



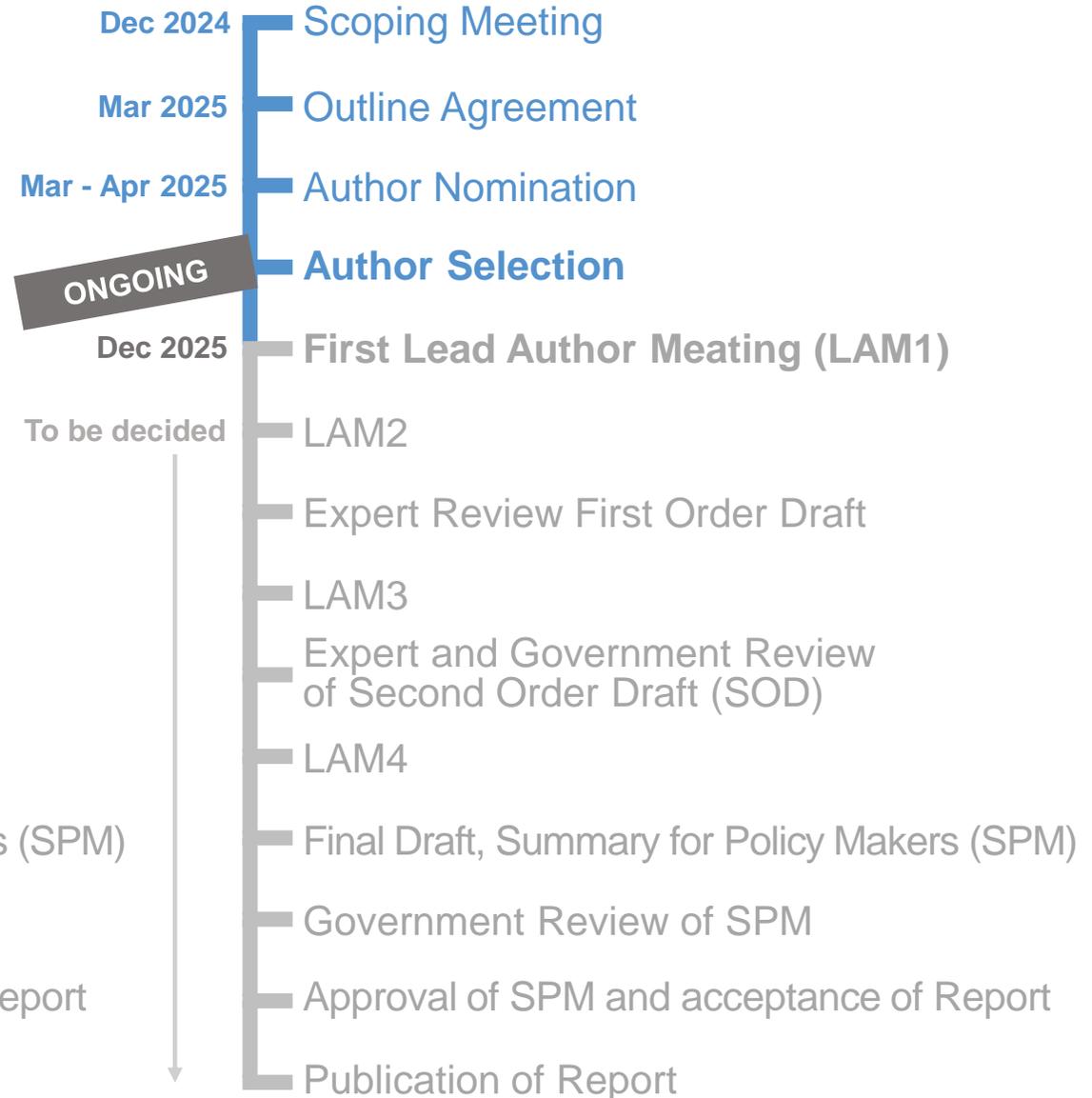
★ AR7 products

Report Timelines

SR Cities



AR7



Our AR7 outline scoping process

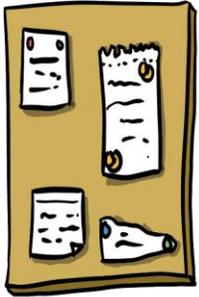


Setting up expertise list for scoping meeting

- Topics of interest retrieved from analysis of AR6, IPCC panel discussions, (Co-)Chairs vision, Bureau consultations and engagements with stakeholder organizations

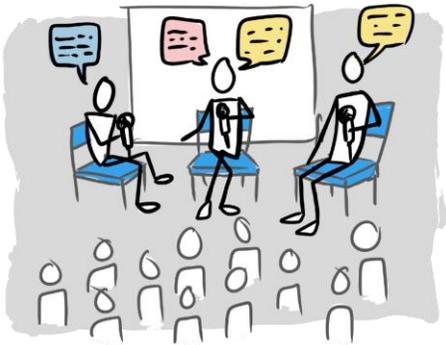
Selection of experts

- 1,340 nominations received, 65 invited.
- Selection criteria included regional diversity, gender balance, solicited domain expertise (including adaptation, scenarios, finance and Guidelines)

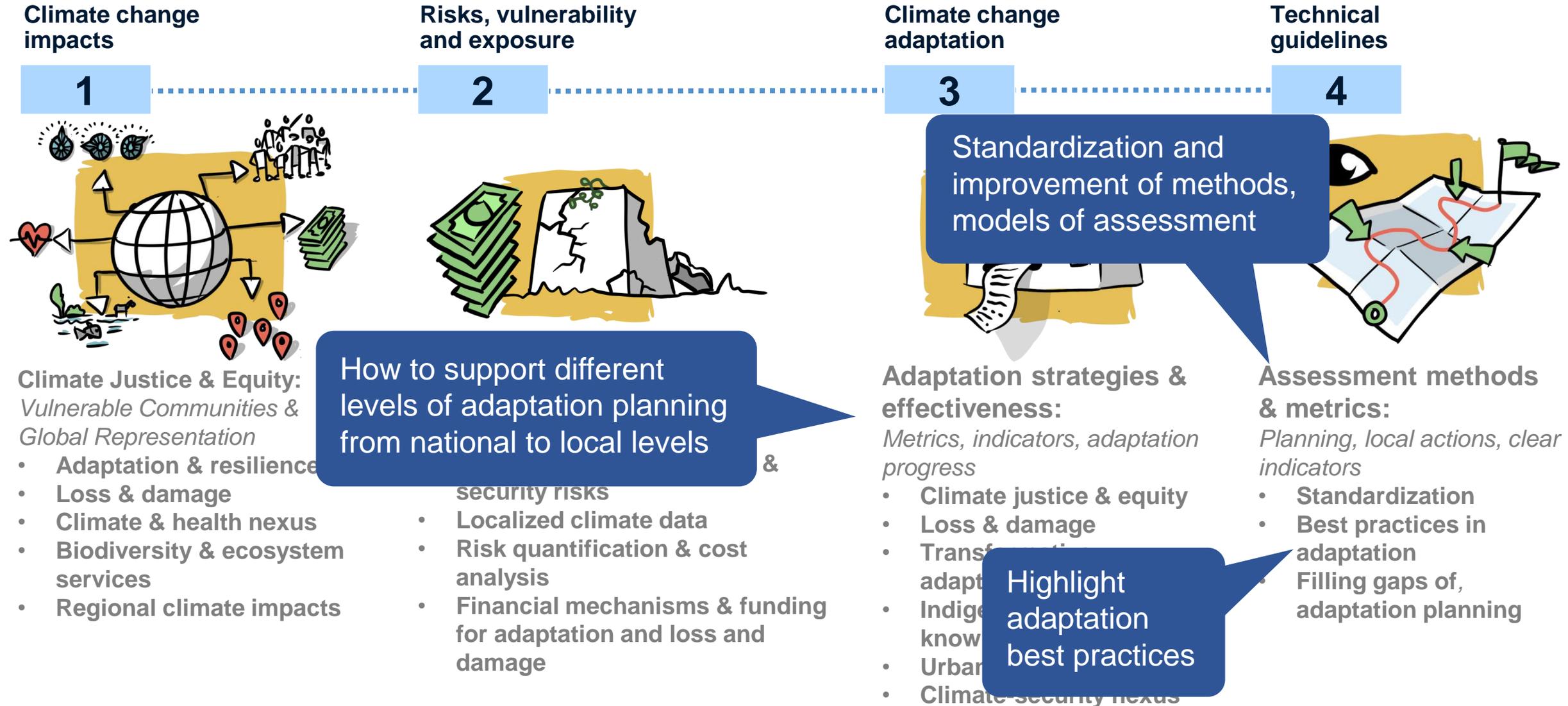


Conducted further engagement sessions (over 1,000 people engaged)

- Cross WG pre-scoping webinars with non-selected nominees and pre-scoping survey with previous IPCC experts, Focal Points, Observer organizations
- Engagement call with ~50 former (C)LAs, REs, Bureau members
- Pre-recorded videos on selected topics and post-scoping meeting survey with ~60% participants returned generally positive



AR7 Pre-scoping WGII Survey – some highlights on emerging topics



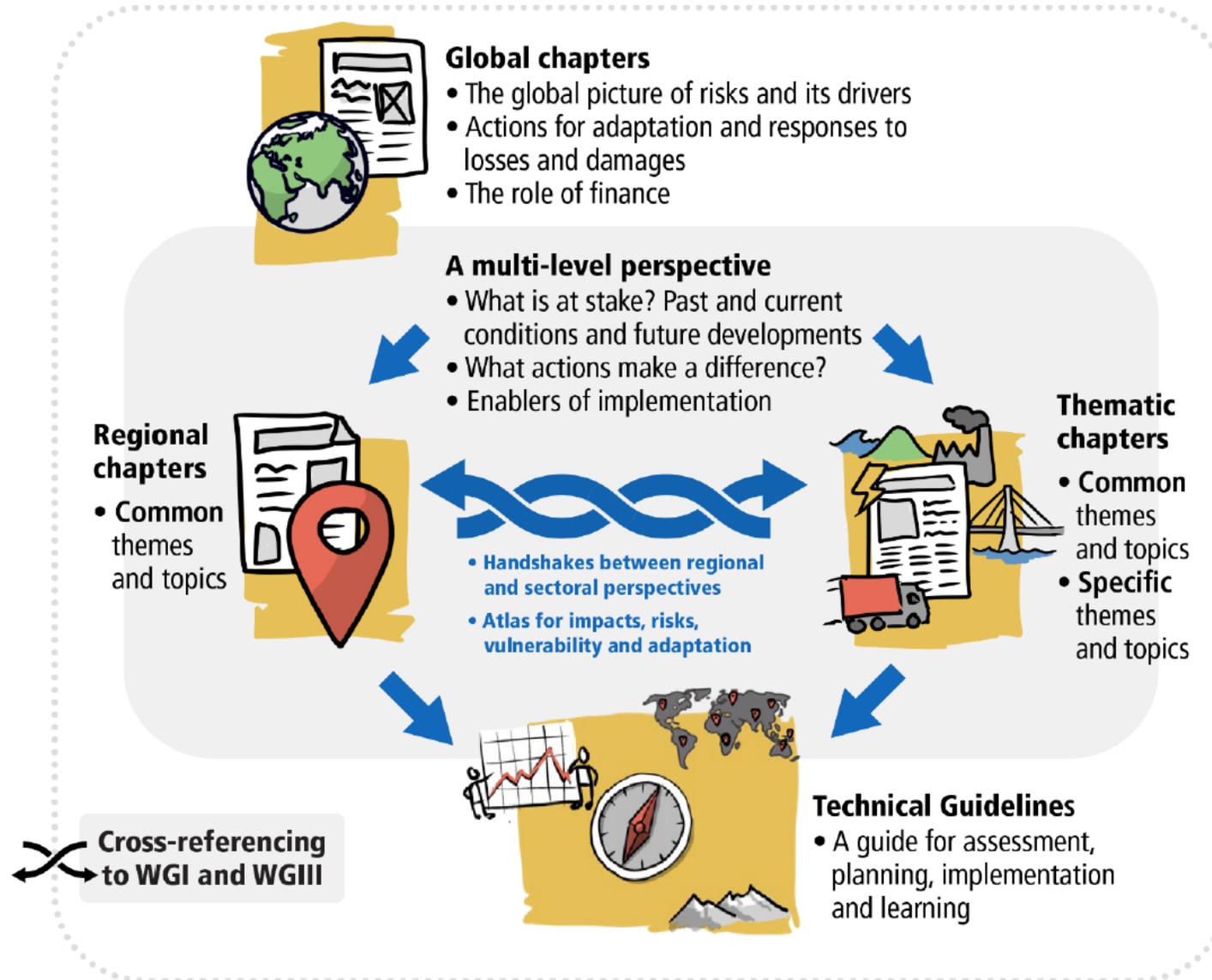


The outline of the Working Group II contribution to the 7th Assessment Report

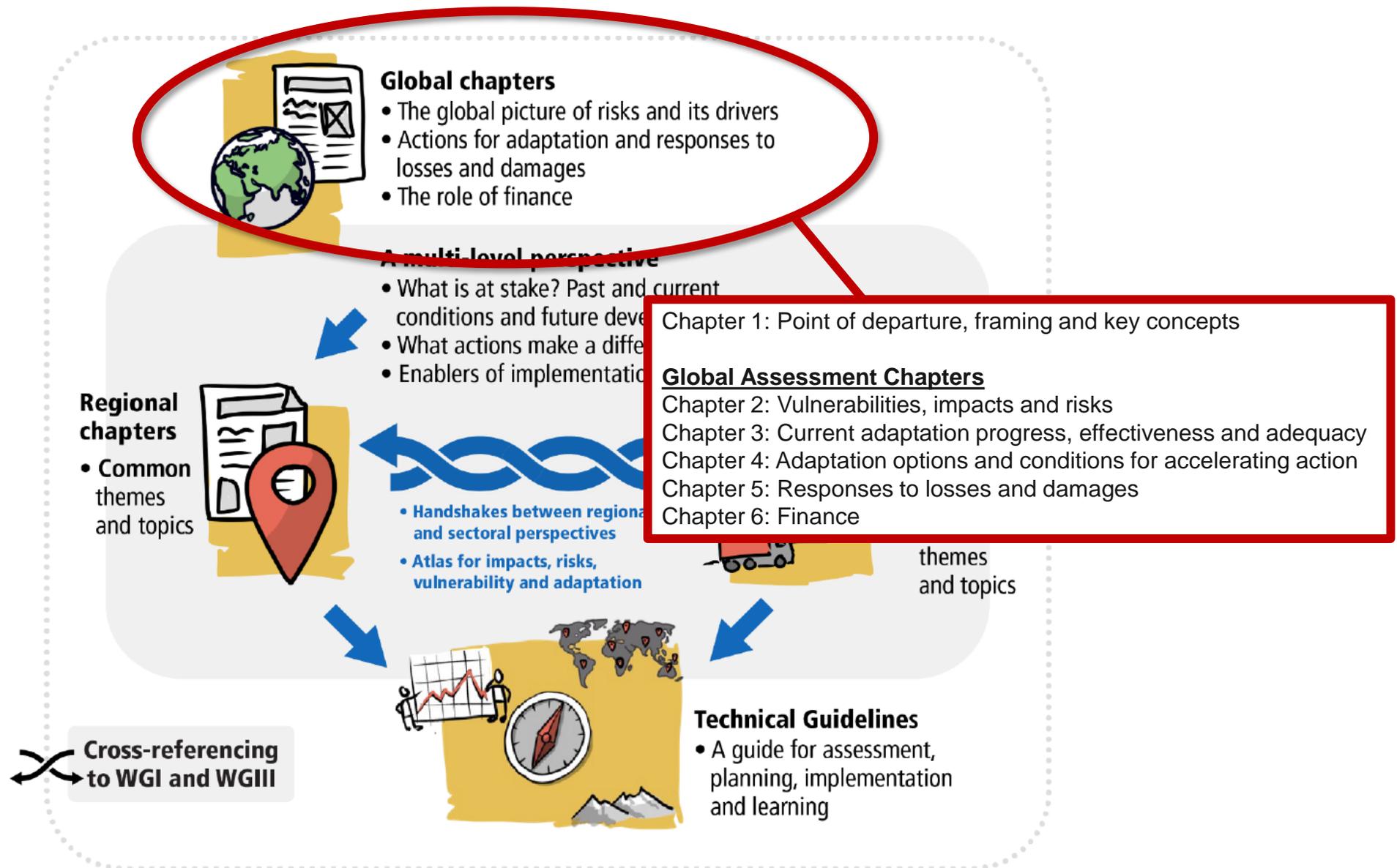


<https://tinyurl.com/ar7outline>

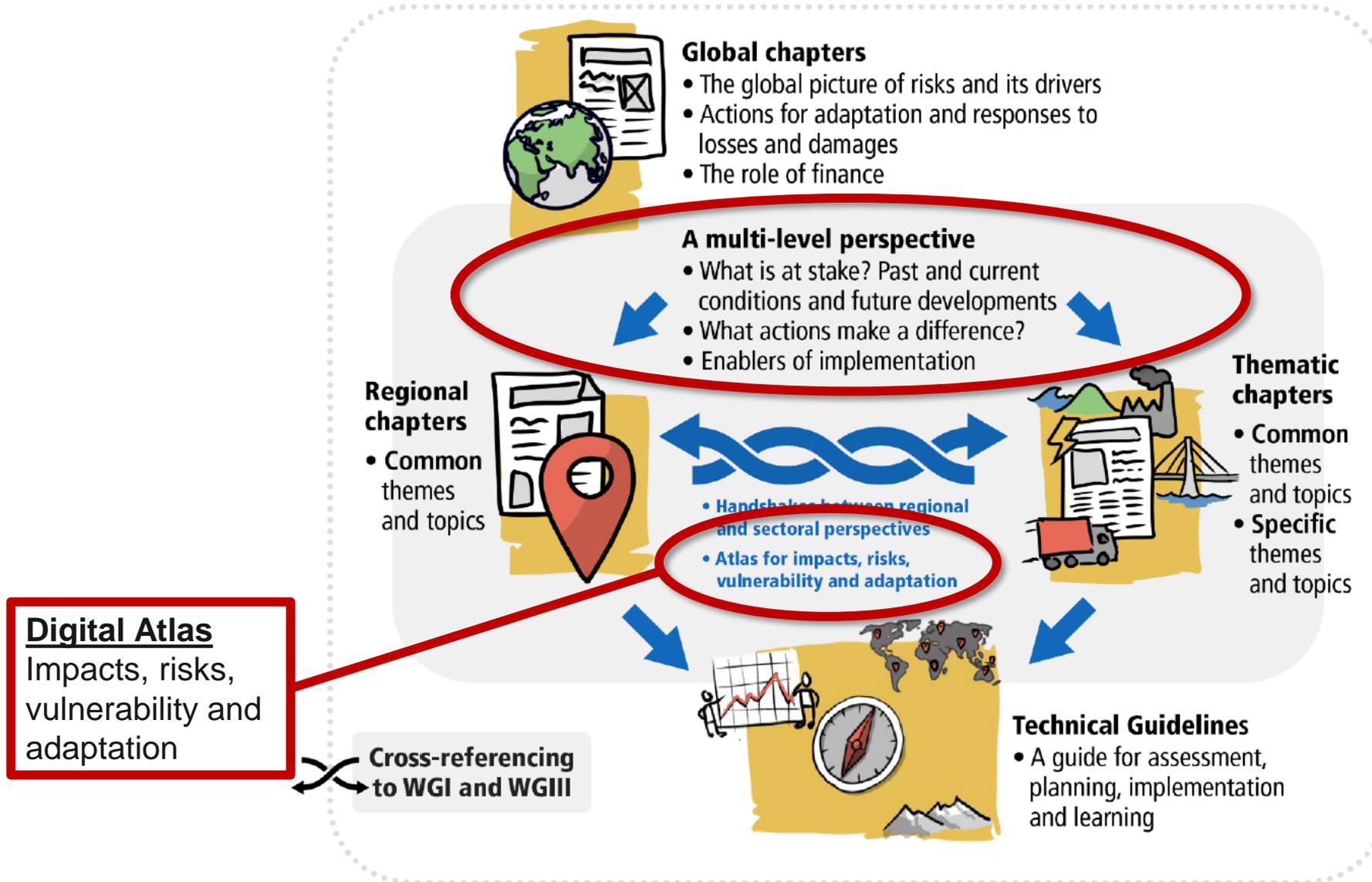
Outline of WG II AR7



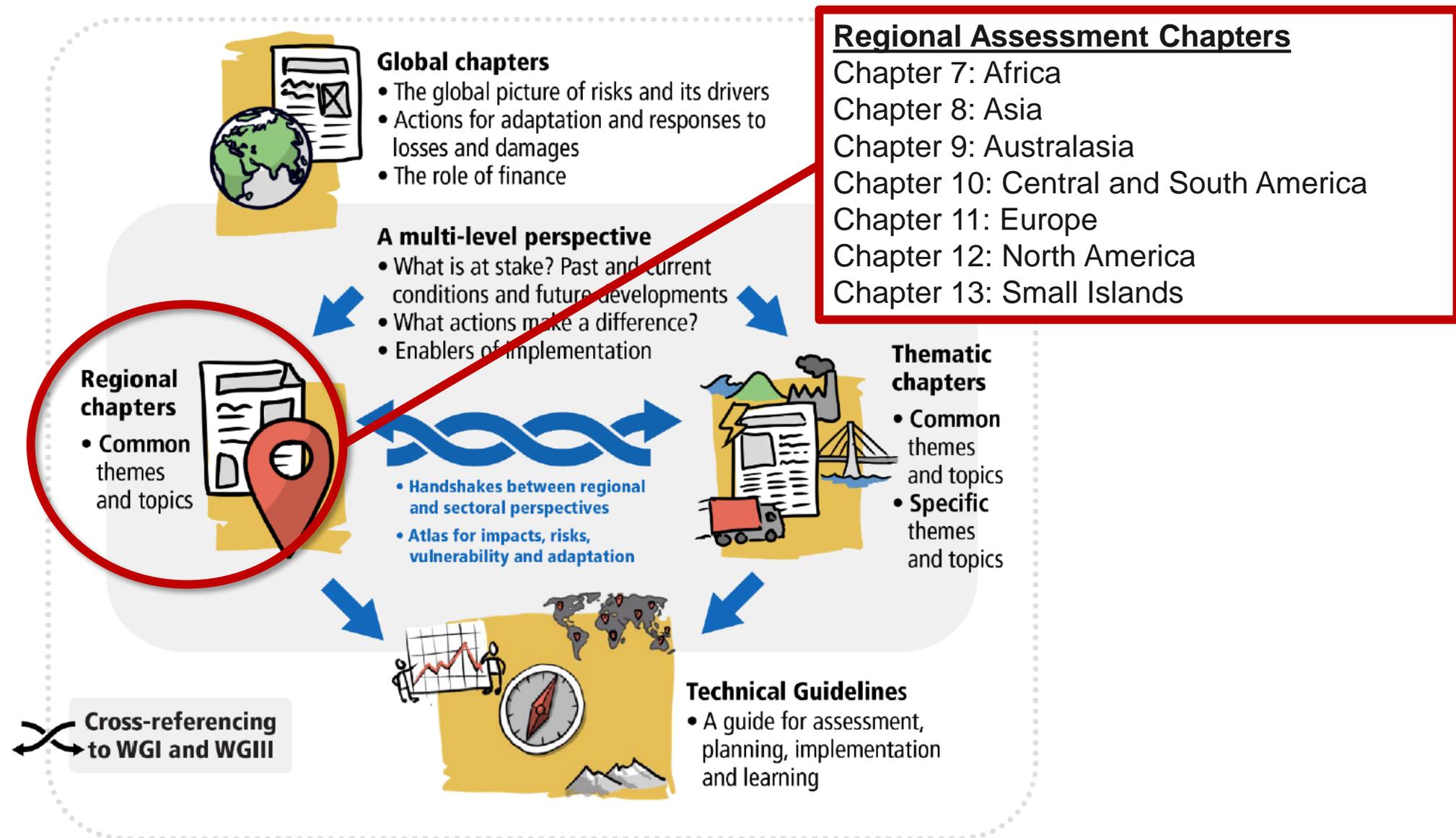
Starting with global chapters



Segments to note



Progressing to regional chapters



Moving to thematic chapters

Global chapters

Thematic Assessment Chapters

- Chapter 14: Terrestrial, freshwater and cryospheric biodiversity, ecosystems and their services
- Chapter 15: Ocean, coastal and cryospheric biodiversity, ecosystems and their services
- Chapter 16: Water
- Chapter 17: Agriculture, food, forestry, fibre and fisheries
- Chapter 18: Adaptation of human settlements, infrastructure and industry systems
- Chapter 19: Health and well-being
- Chapter 20: Poverty, livelihoods, mobility and fragility

of risks and its drivers
on and responses to

Objective

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a difference?
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regional
ives

- Atlas for impacts, risks, vulnerability and adaptation

Cross-chapter Papers

- Polar regions
- Mountain regions
- Drylands and Deserts
- Least Developed Countries
- Mediterranean climates

Thematic chapters

- Common themes and topics
- Specific themes and topics

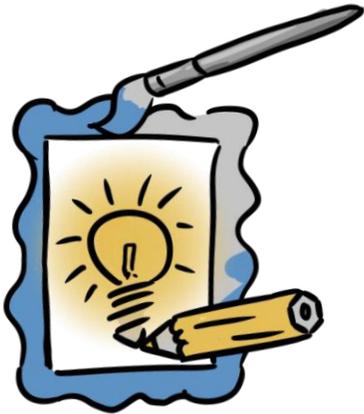


Technical Guidelines

- A guide for assessment, planning, implementation and learning

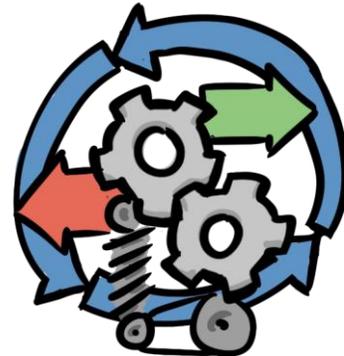
↔ Cross-referencing to WGI and WGIII

IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptation including Indicators, Metrics and Methodologies



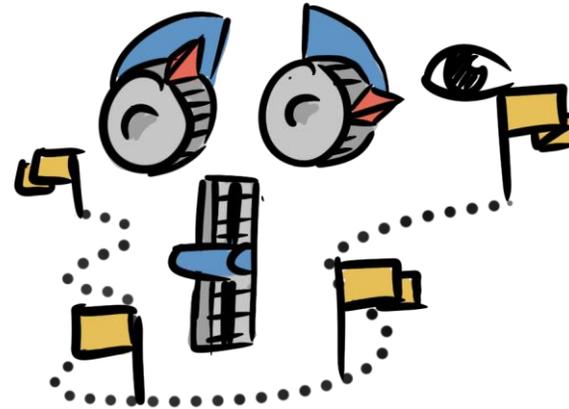
Section 1 Introduction

- Rationale, Framing and Purpose



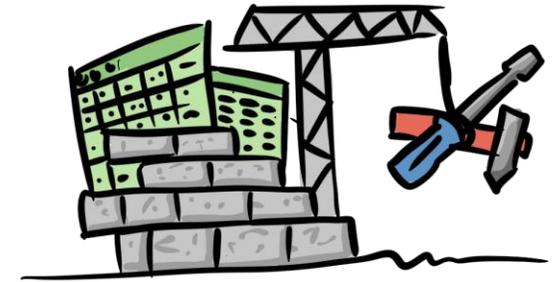
Section 2 Adaptation in practice

- Key principles and concepts
- Context scan: governance, levels of adaptation action, societal development
- Stand-alone vs continuous adaptation



Section 3 Technical Guidelines

1. Scoping and goal setting
2. Risk assessment
3. Planning
4. Implementation
5. Learning, monitoring and evaluation



Section 4 Tools, building blocks and enablers

- Methodologies, tools, metrics & indicators
- Co-design approaches
- Services & data
- Financing adaptation planning
- Governance and regulatory enablers



Spotlight on some emerging topics in AR7...

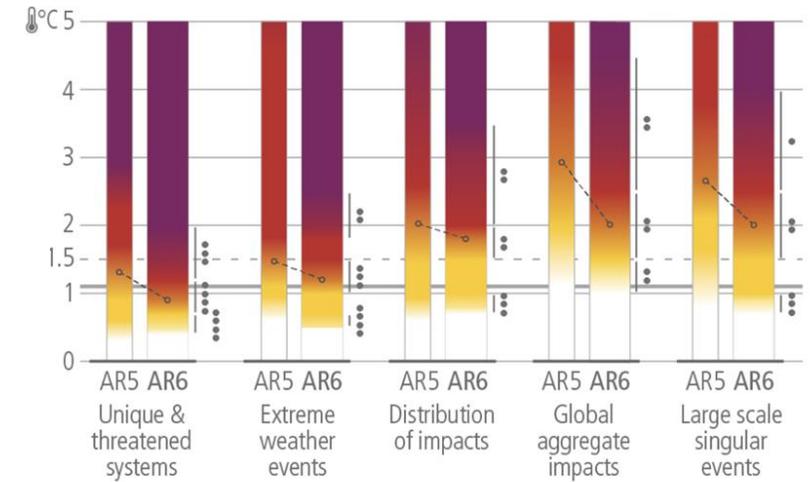
Global assessment of vulnerabilities, impacts and risks (Ch 2)

Building on AR6

- Update on risk distribution, reasons for concern and key risks
- Addressing complex, compound, cascading and residual risks

Emphasis in AR7

- Mapping of vulnerability gradients across temporal and spatial scales
- Economic and non-economic losses and damages
- Recognizing slow- and rapid onset events
- Risk management and ethics of Solar Radiation Modification
- Other approaches to risk assessment
- Design of an Interactive Atlas for WGII quantities



Global assessment of adaptation (Ch 3 & 4)

Chapter 3 ‘Current adaptation progress, effectiveness and adequacy’

- Adaptation progress, gaps, limits and barriers, costs, trade-offs and co-benefits
- Indicators and metrics to measure adaptation
- Effectiveness and scope of state and non-state actions

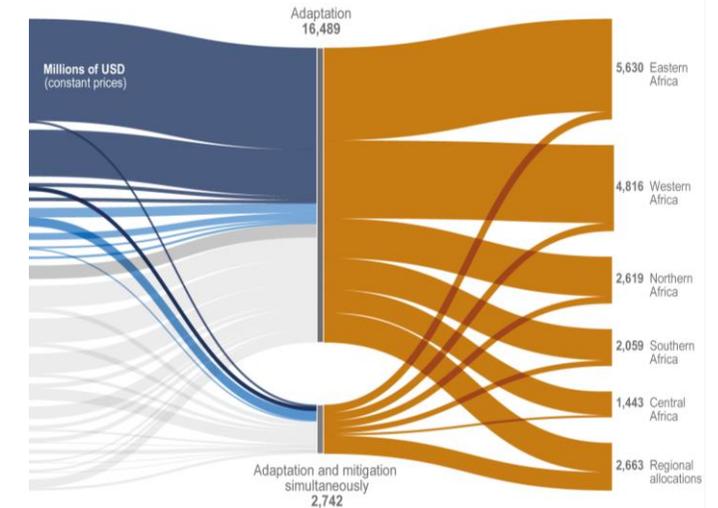


Chapter 4 ‘Adaptation options and conditions for accelerating action’

- Adaptation options considering current context, and different levels of global warming & development
- Adaptive and continuous learning, monitoring and evaluation to enhance implementation and avoid adverse outcomes
- Drivers & enablers for accelerated adaptation action, and means of implementation
- Enhancing agency of stakeholders and empowering Indigenous Peoples and local communities
- Synergies and trade-offs of adaptation with Disaster Risk Reduction and sustainable development

Finance (Ch 6)

- Macroeconomic context, international financial architecture and commitments
- Adaptation and losses and damages financing needs, current flows, instruments, effectiveness, access and approaches to accelerate
- Public and private investments at domestic and international levels
- Equitable financial schemes related to financial stability, sustainability and financial risk management
- Consistency of finance flows with a pathway towards climate resilient development



(c) Total African adaptation- and mitigation-related finance commitments by country, 2014–2018

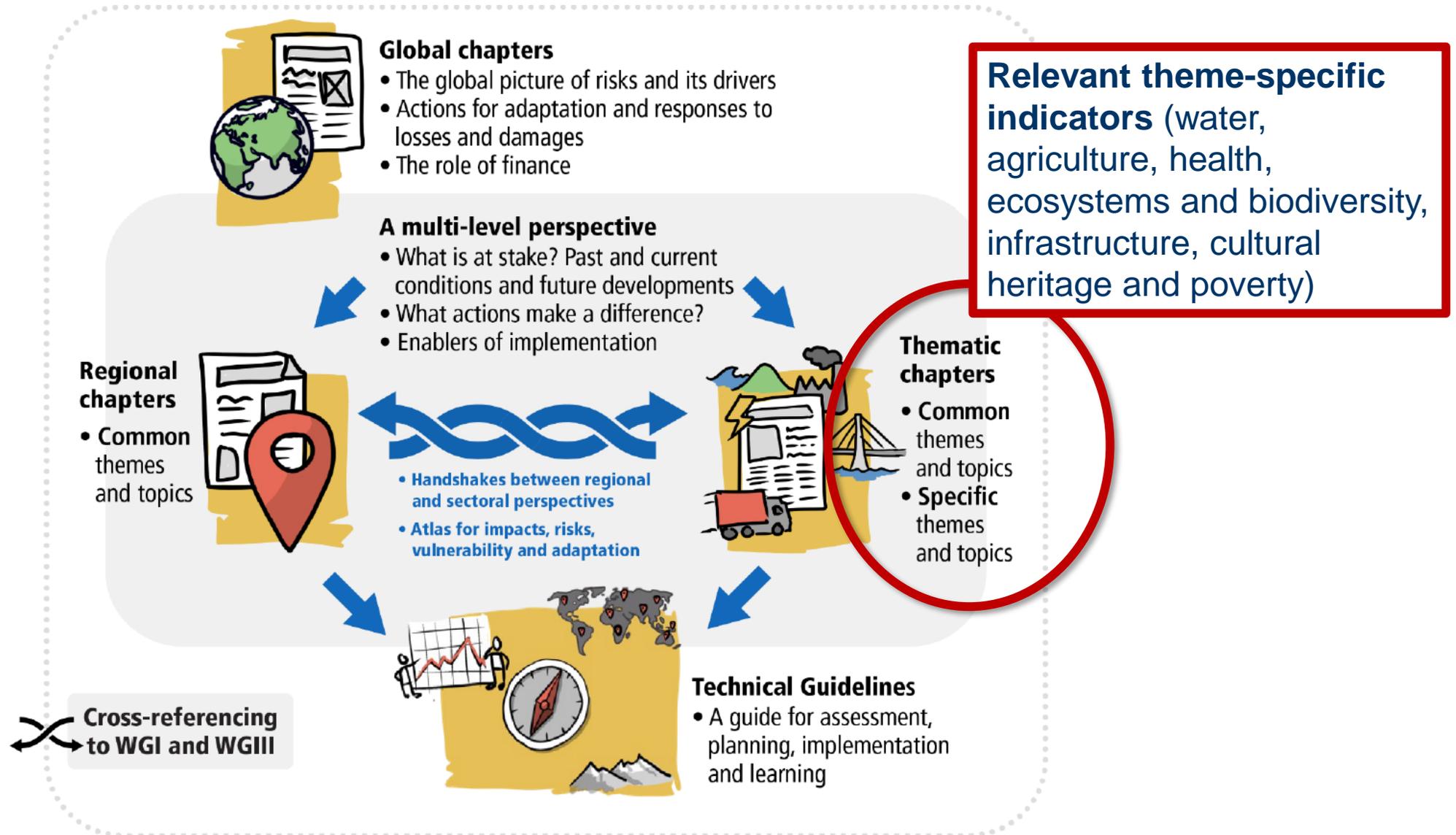




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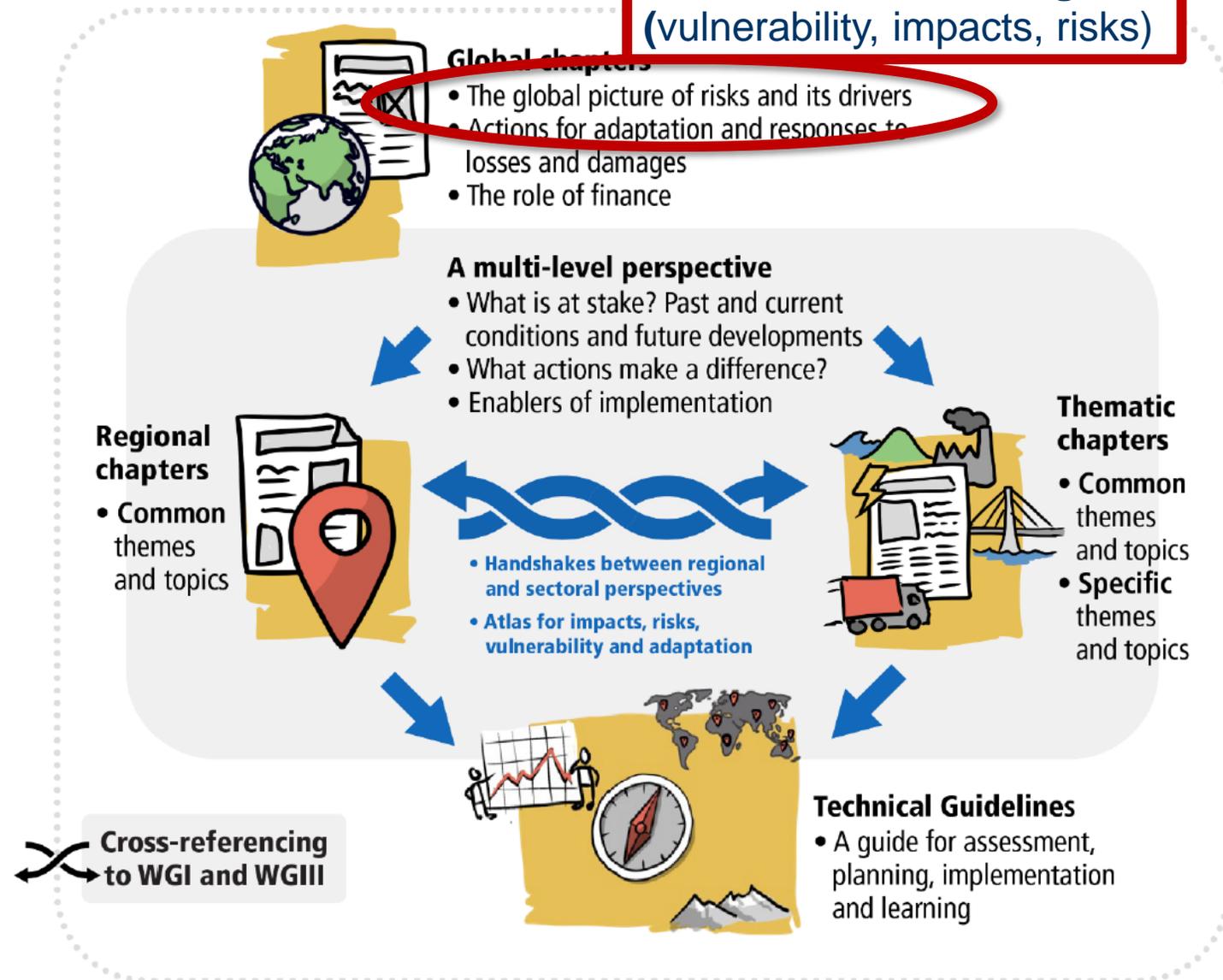
... and entry-points for a GGA-informed report

AR7 outline

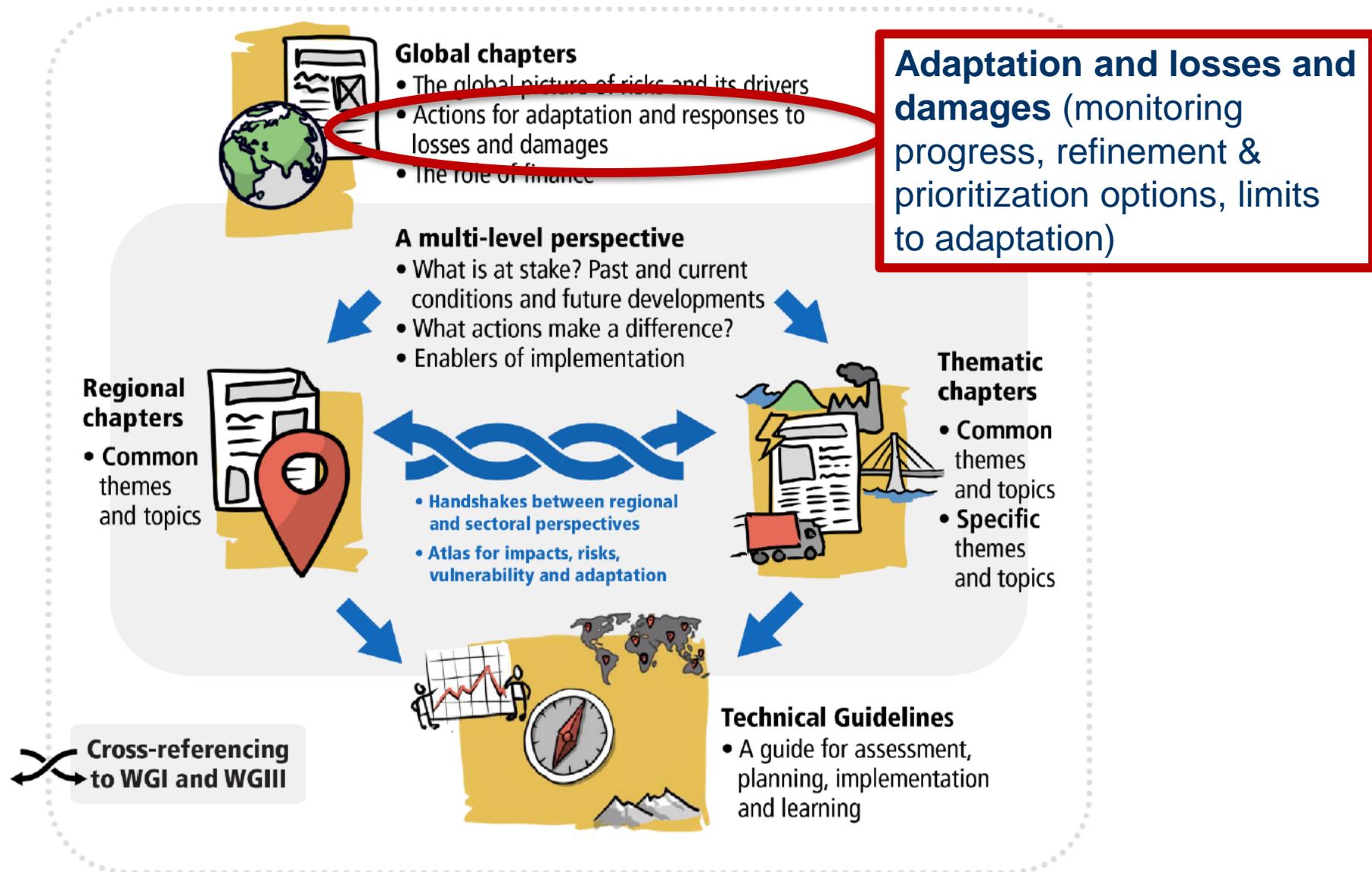


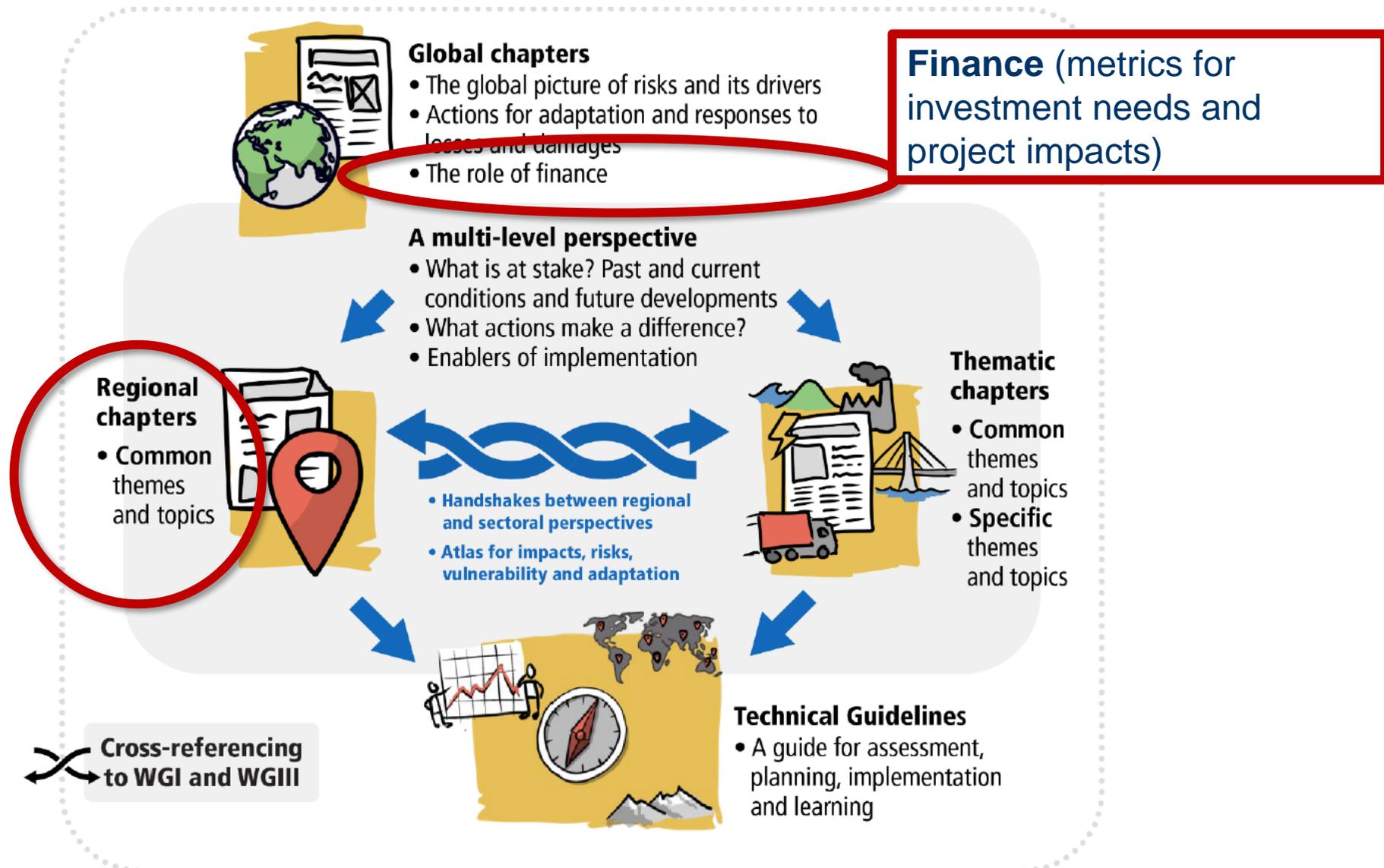
AR7 outline

Metrics for monitoring (vulnerability, impacts, risks)



AR7 outline



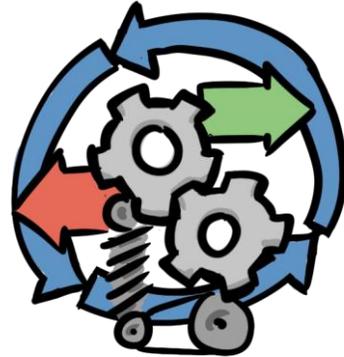


IPCC Technical Guidelines on Assessing Climate Change Impacts and Adaptation



Section 1 Introduction

- Rationale, Framing and Purpose



Section 2 Adaptation in practice

- Key principles and concepts
- Context scan: governance, levels of adaptation action, societal development
- Stand-alone vs continuous adaptation



Section 3 Technical Guidelines

1. Scoping and goal setting
 2. Risk assessment
- evaluation

Design principles of metrics
(baselines, measurability, old/new indicators, transparency, SDG alignment ...)

Section 4 Tools, building blocks and enablers

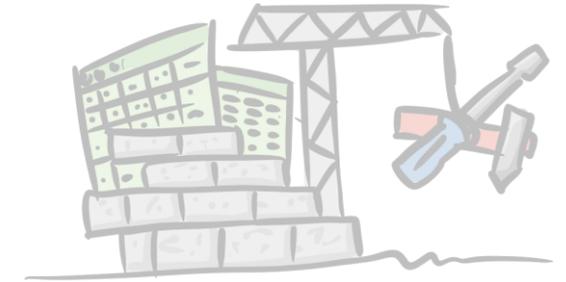
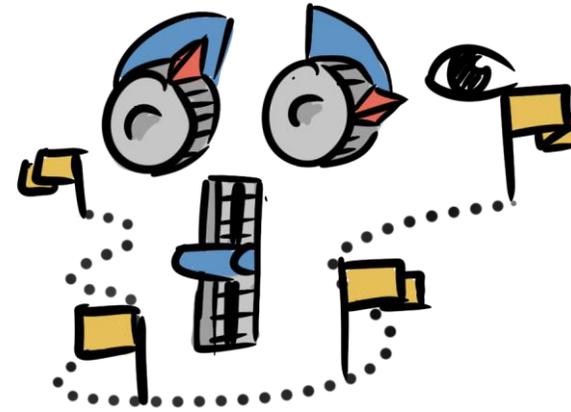
- Methodologies, tools, metrics & indicators
- Co-design approaches
- Services & data
- Financing adaptation planning
- Governance and regulatory enablers

Contextualizing indicators
(sub)national reporting, tiered indicator structures)

IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptation



Supporting an **iterative process** of refining and prioritizing adaptation options



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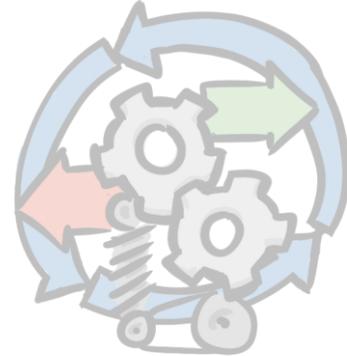
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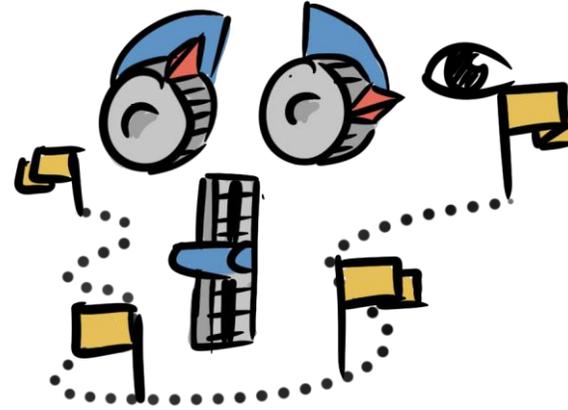
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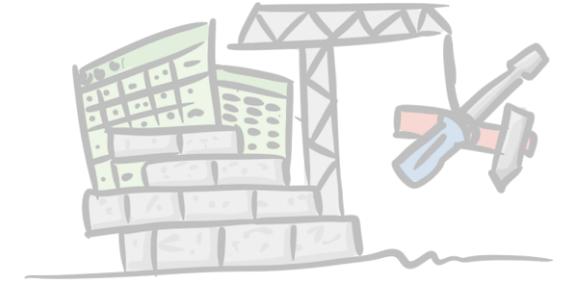
Section 2 Adaptation in practice

- Key principles and implementation of MEL
- Governance, levels of adaptation action, societal development
- Stand-alone vs continuous adaptation



Section 3 Technical Guidelines

1. Scoping and goal setting
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Section 4 Tools, building blocks and enablers

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Implementation of **MEL**

IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptation



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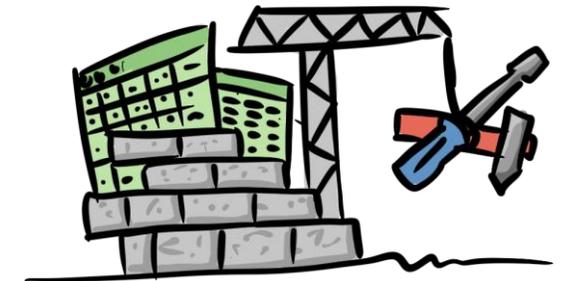
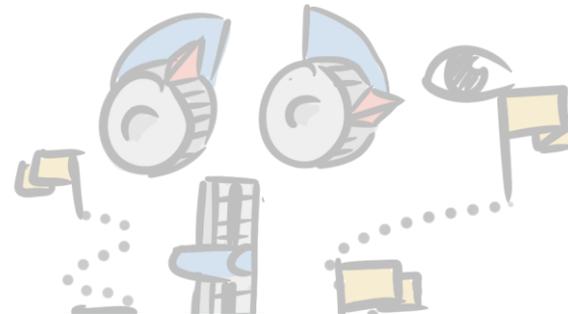
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Section 2 Adaptation

- Key principles and concepts
- Context scan: governance, levels of adaptation action, societal development
- Stand-alone vs continuous adaptation

Data collection methodologies Tools and processes for indicator development, co-development approaches



Section 4 Tools, building blocks and enablers

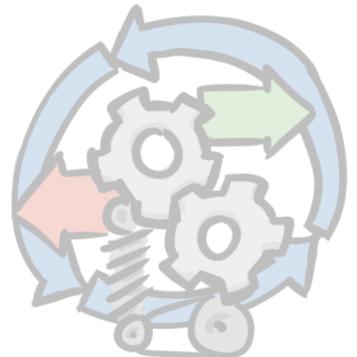
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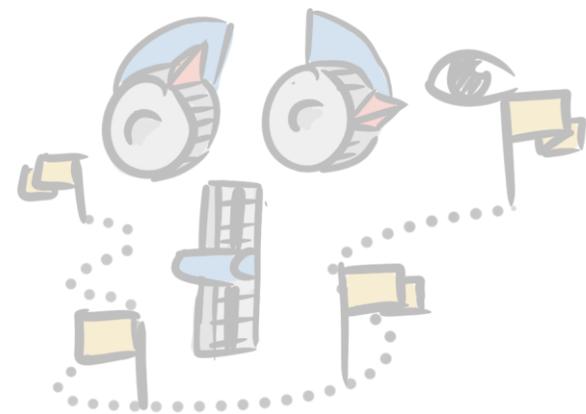
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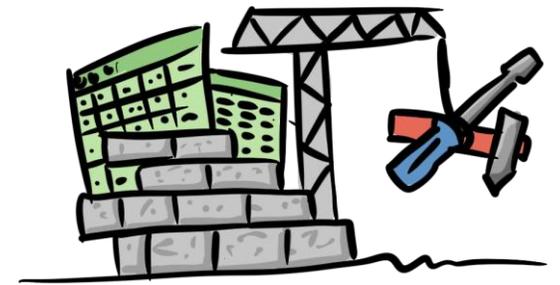
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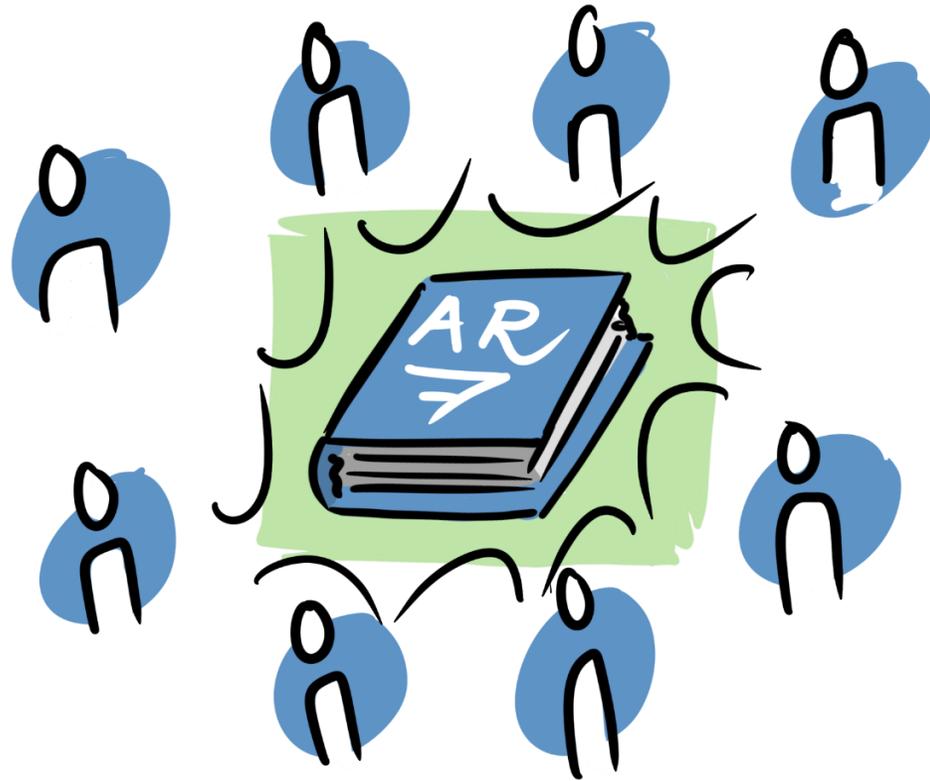
Section 3 Technical Guidelines

Capacity building for indicator measurement
Barriers, resources, common principles and sectoral considerations



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Ways to engage with IPCC Working Group II

Expert Meetings and Technical Workshops with WGII involvement

IPCC Expert Meetings and Workshops

- Adaptation Metrics, Methodologies and Indicators (March 2026)
- New and Extended Methods of Assessment in the AR7 (workshop – early 2026)

Possible co-sponsored technical workshops

- Health (Feb 2026)
- Food and Agriculture (mid 2026)



Timeline of the 7th Assessment Cycle (AR7)

IPCC elected new Chair and Bureau (July 2023)

IPCC decided on products and workplan for the seventh cycle (January 2024)



★ Special Report on Climate Change and Cities (March 2027)



★ Methodology Report on Short-lived Climate Forcers (second half of 2027)



★ Methodology Report on Carbon Dioxide Removal Technologies, Carbon Capture Utilization and Storage (by end of 2027)



★ Seventh Assessment Report Working Group I, II, & III contributions



★ IPCC Technical Guidelines for Assessing Climate Change Impacts and Adaptation Including Indicators, Metrics and Methodologies



★ Synthesis Report (by late 2029, after completion of the Working Group contributions)

2023

2024



2027

(tbc)

2029

Oct 2025 to completion



Opportunities to review
First, Second and Final Drafts

Networks of experts can coordinate reviews

★ AR7 products

Thank you and follow our journey online!



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 Bart van den Hurk



 @prof.winstonchow
 Winston Chow



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our mailing list

Working Group II Co-Chairs and Bureau Members

Co-Chairs



Winston Chow



Bart van den Hurk

Vice Chairs



Adelle Thomas



Fatima Denton



Laura Gallardo



Zinta Zommers



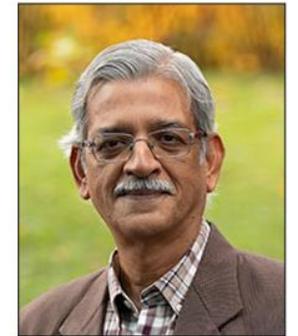
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Thijs Balder

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Yugdeep Bangar

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Administrative
Assistant

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