IPCC SEVENTH ASSESSMENT CYCLE

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Supporting climate adaptation policy implementation: Updated Technical Guideline

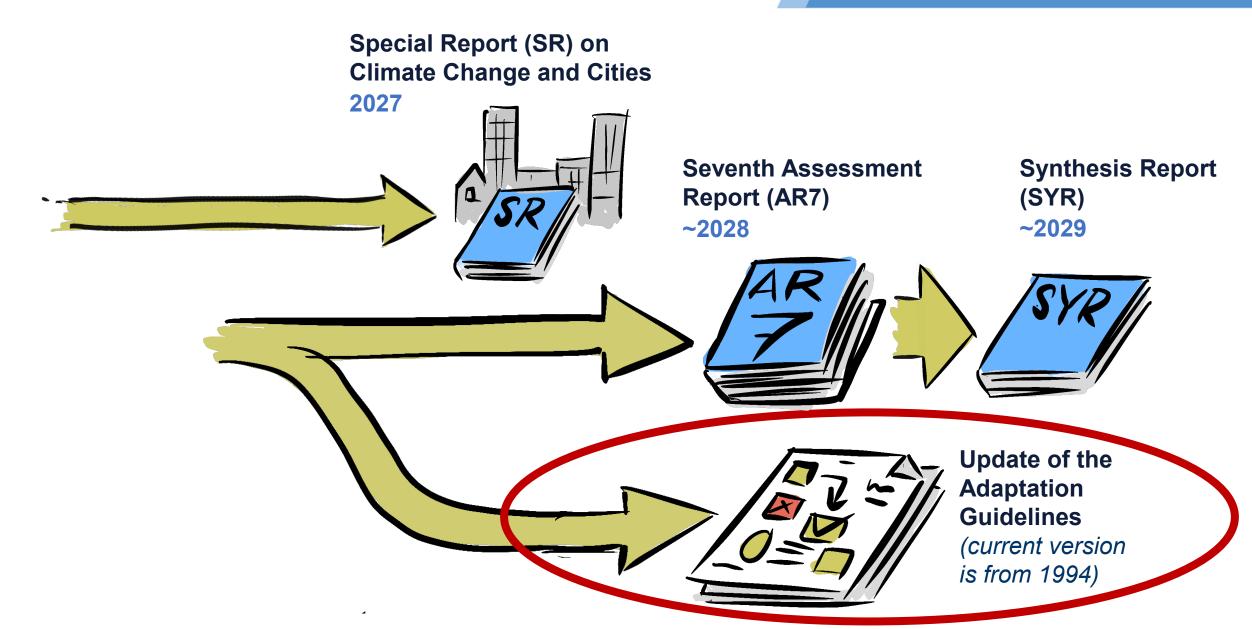
IPCC Symposium GEF, 12 September 2024

Prof. Bart van den Hurk Co-chair IPCC WG2

Process timeline of AR7

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The 1994 Impacts and Adaptation Guideline

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Define problem

Select method

Test method/sensitivity

Select scenarios

Access biophysical impacts, assess socio-economic impacts

Assess autonomous adjustments

Evaluate adaptation strategies

- What's the climate pressure?
- What does it do to the nation/region?
- **❖** How will that change?
- What adaptation is required?

Update in AR7

- ❖ New climate insights
- New data and scenarios
- New adaptation insights
- ❖ New experience from case studies

What do we know now that we did not in 1994? Major conclusions from AR6

 Climate models and scenarios have advanced

infrequent

 Incremental adaptation is prevalent, whereas transformative adaptation is Existing responses are not enough

 Globally applicable adaptation indicators are lacking

 Adaptation successes can have some degree of maladaptation Working Group II

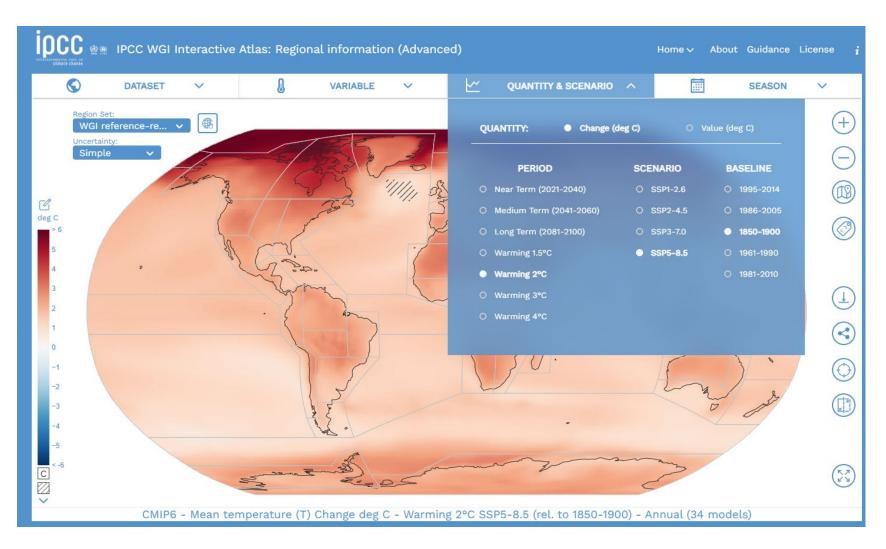
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 M&E are essential for tracking adaptation progress and learning

 Residual impacts, risks and Loss & Damage has become increasingly relevant

Progress of Climate Models

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- Higher resolution
- Higher complexity
- Higher accuracy
- Improved representation of key variables
- Larger number of models and scenarios

Approaching Adaptation at Different Scales of Transformation

Incremental adaptation

Adaptation that maintains the essence and integrity of a system or process at a given scale.

> Object planning



Improved infrastructure



Flood protection

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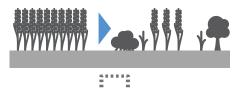
Transformational adaptation

Adaptation that changes the fundamental attributes of a social-ecological system in anticipation of climate change and its impacts.

> City – system planning



Alternative lifestyles and employment



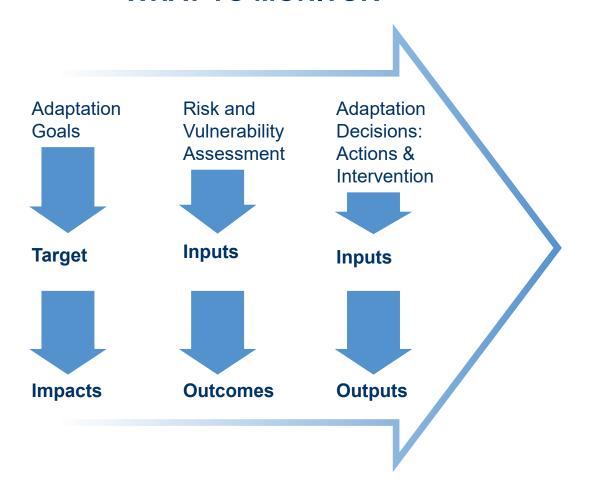
Changes to farming



New city planning

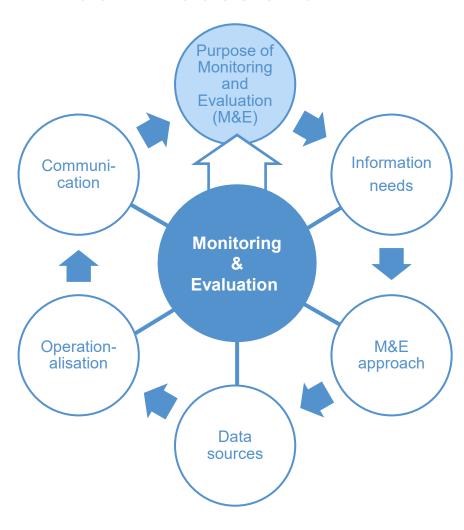
Learning from Adaptation through Monitoring and Evaluation

WHAT TO MONITOR



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CONTINUOUS UPGRADE



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Policy cycles are not essentially linear

Schematic representation of the climate risk management decision-making process



17.2

Adaptation Options & Risk Management: Adaptation Options, Benefits, Costs, Transformation, Context, Risk Layering, Loss & Damage 17.3

Decision-Making Processes & Tools: Tools, Approaches, Scenarios, Models, Trade-offs, Management, (Deep) Uncertainty, Participation, Feedbacks 17.4

Enabling & Catalysing Conditions: Governance, Finance, Knowledge, Capacity, Motivation, Champions, Litigation, Urgency, Windows of Opportunity 17.5

Monitoring, Progress & Success: Success, Maladaptation, Trade-offs, Equity and Justice, Monitoring, Evaluation, Learning 17.6

Risk Management for Climate Resilient Development: Integrated Risk Management, Adaptation Pathways, Portfolios, Cross-sector and Cross-scale Interactions

Outline of AR6 WGII Chapter 17

UAE Framework for Global Climate Resilience

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Builds on the Convention and Paris Agreement principles

Implementation depends on

Cultural heritage

Targets





sectors/themes



Implementation







Utilizes

Source of information

Guides the achievements of the GGA

Review its progress enhancing action and support

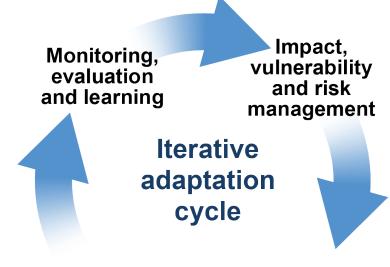


Figure based on Rubial, et al., 2024

Planning

The 1994 Impacts and Adaptation Guidelines

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Define problem

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Access biophysical impacts, assess socio-economic impacts

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Evaluate adaptation strategies

Present Day Challenges

Scenarios and Methods

Impact Assessment

Subject to the the December 2024 scoping

Evaluate Adaption Strategies

Implementation of Adaptation Strategies

Monitoring and Evaluation

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Follow our journey online!



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