IPCC 6TH CYCLE – POST SR 1.5 RESEARCH AGENDA : WORKING GROUP II

The IPCC Sixth Assessment Cycle (2015 – 2022)

Thelma Krug
IPCC Vice-Chair

IPCC Sixth Assessment Cycle

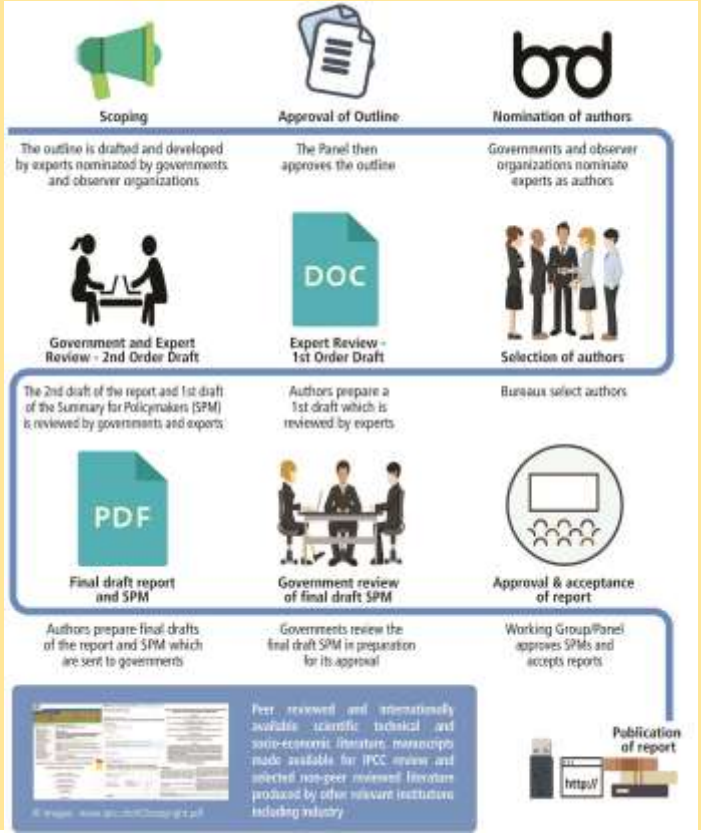
The role of the IPCC is…

"…to assess on a comprehensive, objective, open and transparent basis the **scientific, technical and socio-economic information** relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts and options for adaptation and mitigation."

"IPCC reports should be neutral with respect to policy, although they may need to deal objectively with scientific, technical and socio-economic factors relevant to the application of particular policies."

(*Principles Governing IPCC Work, paragraph 2*
Source: http://www.ipcc.ch/pdf/ipcc-principles/ipcc-principles.pdf)

How the IPCC produces its reports



IPCC Reports

- Five assessment reports (1990, 1995, 2001, 2007, 2013-14)
- 1992 supplementary report and 1994 special report
- Ten special reports (1997, 1999, 2000, 2005, 2011, 2012, 2018)
- Guidelines for national GHG inventories, good practice guidance (1995, 1996, 2000, 2003, 2006, 2013)
- Six technical papers (1996-2008)

The IPCC Sixth Assessment Cycle – AR6

Special Reports

October 2018

Global warming of 1.5° C
An IPCC special report on the impacts of global warming of 1.5° C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty

August 2019

Climate Change and Land:
An IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems

September 2019

Special Report on the Ocean and Cryosphere in a Changing Climate

The IPCC Sixth Assessment Cycle – AR6

Working Group I:
The Physical Science Basis

Chapter 1: Framing, context, methods
Chapter 2: Changing state of the climate system
Chapter 3: Human influence on the climate system
Chapter 4: Future global climate: scenario-based projections and near-term information
Chapter 5: Global carbon and other biogeochemical cycles and feedbacks
Chapter 6: Short-lived climate forcers
Chapter 7: The Earth's energy budget, climate feedbacks, and climate sensitivity
Chapter 8: Water cycle changes
Chapter 9: Ocean, cryosphere, and sea level change
Chapter 10: Linking global to regional climate change
Chapter 11: Weather and climate extreme events in a changing climate
Chapter 12: Climate change information for regional impact and for risk assessment

Working Group II:
Impacts, Adaptation, Vulnerability

Chapter 1: Point of departure and key concepts

SECTION 1: Risks, adaptation and sustainability for systems impacted by climate change

Chapter 2: Terrestrial and freshwater ecosystems and their services
Chapter 3: Ocean and coastal ecosystems and their services
Chapter 4: Water
Chapter 5: Food, fibre, and other ecosystem products
Chapter 6: Cities, settlements and key infrastructure
Chapter 7: Health, wellbeing and the changing structure of communities
Chapter 8: Poverty, livelihoods and sustainable development

Working Group II:
Impacts, Adaptation, Vulnerability

SECTION 2: Regions
Chapter 9: Africa
Chapter 10: Asia
Chapter 11: Australasia
Chapter 12: Central and South America
Chapter 13: Europe
Chapter 14: North America
Chapter 15: Small Islands

SECTION 3: Sustainable development pathways: integrating adaptation and mitigation
Chapter 16: Key risks across sectors and regions
Chapter 17: Decision-making options for managing risk
Chapter 18: Climate resilient development pathways

Working Group III:
Mitigation of Climate Change

Chapter 1: Introduction and Framing
Chapter 2: Emissions trends and drivers
Chapter 3: Mitigation pathways compatible with long-term goals
Chapter 4: Mitigation and development pathways in the near- to mid-term
Chapter 5: Demand, services and social aspects of mitigation
Chapter 6: Energy systems
Chapter 7: Agriculture, Forestry, and Other Land Uses (AFOLU)
Chapter 8: Urban systems and other settlements

Working Group III: Mitigation of Climate Change

Chapter 10: Transport
Chapter 11: Industry
Chapter 12: Cross sectoral perspectives
Chapter 13: National and sub-national policies and institutions
Chapter 14: International cooperation
Chapter 15: Investment and finance
Chapter 16: Innovation, technology development and transfer
Chapter 17: Accelerating the transition in the context of sustainable development

2019 Refinement to the 2006 IPCC Guidelines for National GHG Inventories

Overview Chapter
Volume 1: General Guidance and Reporting
Volume 2: Energy
Volume 3: Industrial Processes and Product Use
Volume 4: Agriculture, Forestry and Other Land Use
Volume 5: Waste

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INTERGOVERNMENTAL PANEL ON climate change
WMO UNEP