

Energy Transformation and Climate Change ~Challenge as IPCC Early Career Scientist~

Intergovernmental Panel on Climate Change

AR6 WG3 Scientist

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IPCC

Creation

1988: UN General Assembly endorsed the action by UNEP and WMO in jointly **establishing** the IPCC



Today

Oct. **2015:** IPCC elected **new Bureau** in charge of the **Sixth Assessment cycle**,
April 2016: first **session** since election



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What is next for the IPCC?

IPCC Decision XLIII-5

“To take the outcomes of the 21st Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC) into consideration when determining the IPCC programme of work and products for the sixth IPCC assessment cycle”

AR6 cycle Special Reports on



impacts of global warming of **1.5 °C** above pre-industrial levels and related global greenhouse gas emission pathways by 2018



Climate change and **oceans** and the **cryosphere**



Climate change, **desertification**, **land degradation**, **sustainable land management**, **food security**, and **greenhouse gas fluxes in terrestrial ecosystems**

What is next for the IPCC? (cont.)

AR6 Main Report



Expected to be released in three working group contributions in 2020/2021 and a **Synthesis Report** in 2022

Methodology Report update



Methodology Report on National Greenhouse Gas Inventories by **2019**

Cities



Attention on **cities** in AR6 including a conference and special report on cities in AR7

How the IPCC produces its reports?



Scoping

The outline is drafted and developed by experts nominated by governments and observer organizations.



Government and Expert Review - 2nd Order Draft

The 2nd draft of the report and 1st draft of the SPM is reviewed by governments and experts.



Final draft report and SPM

Authors prepare final drafts of the report and SPM which are sent to governments.



Approval of Outline

The Panel then approves the outline.



Expert Review - 1st Order Draft

Authors prepare a 1st draft which is reviewed by experts.



Government review of final draft SPM

Governments review the final draft SPM in preparation for its approval.



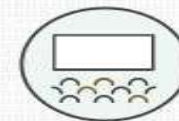
Nomination of authors

Governments and observer organizations nominate experts as authors.



Selection of authors

Bureaux select authors.



Approval & acceptance of report

Working Group/Panel approves SPMs and accepts reports.

Publication of report



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Policy/Science Interface

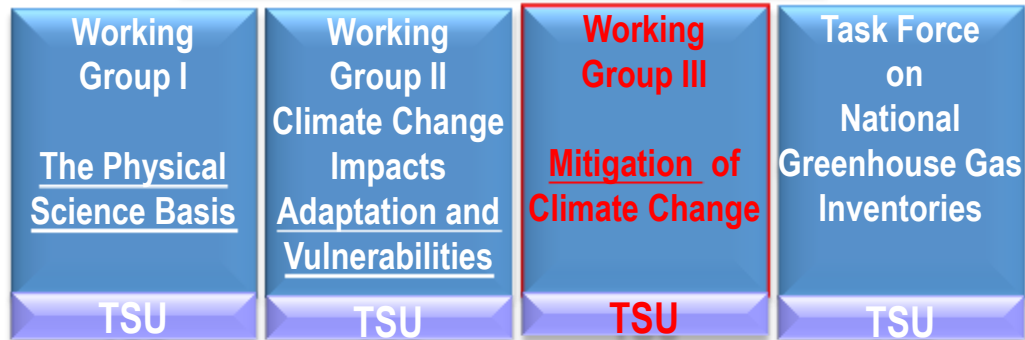
- UN body

- Intergovernmental Panel (195 member States)

- International scientists and experts



IPCC Secretariat



What are the tasks as Chapter Scientist?

- Scientific assistants who provide technical and logistical support to author teams.
- assist chapter teams with technical aspects of chapter development(e.g. cross-checking between findings presented in different parts of the report, additional fact-checking, and reference management).

How do I got into the role of scientist ?

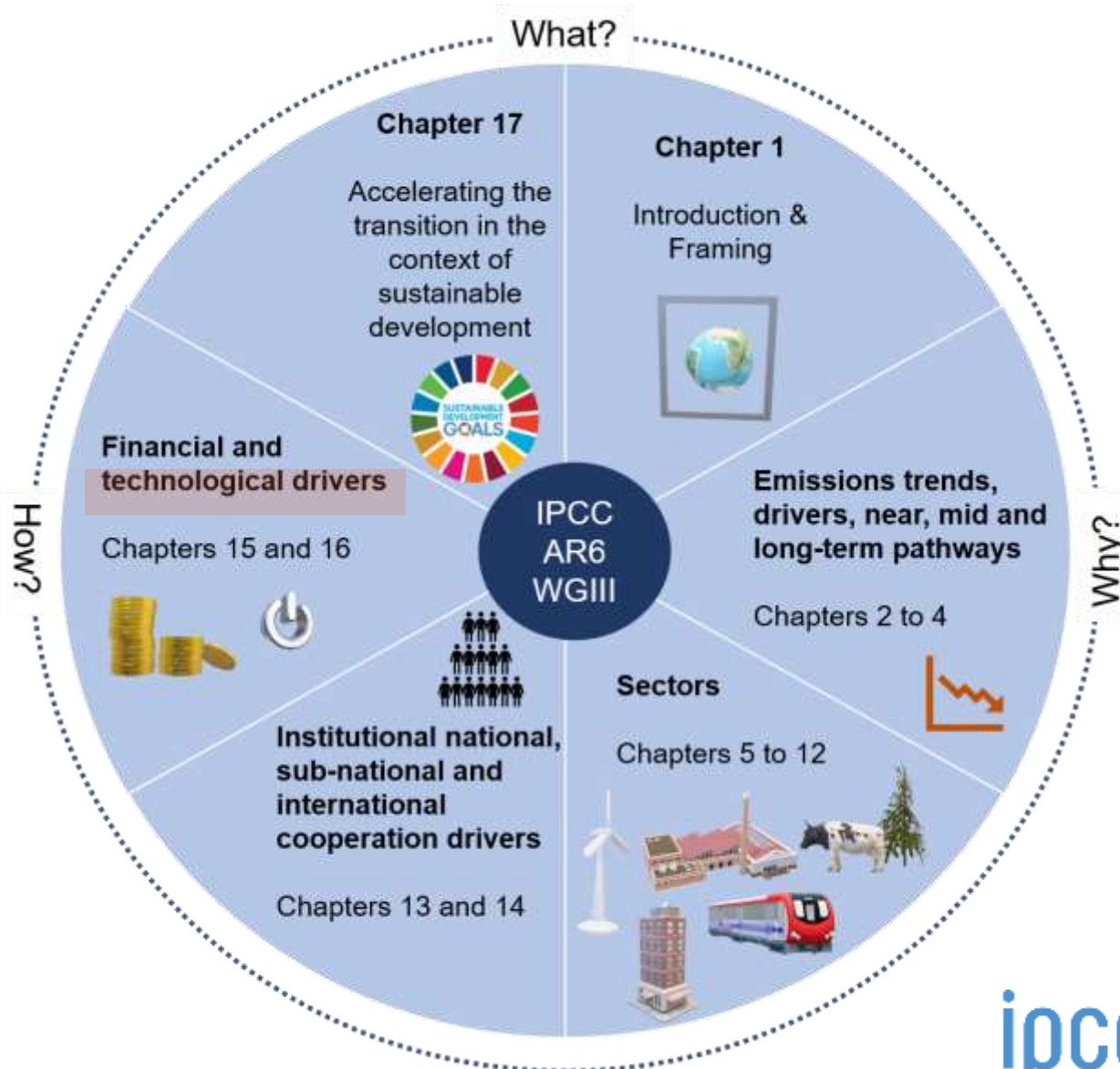
Business	Academic	Public
Worked in Energy sector (20years)' ⇒Contribution to Lowcarbon Society	PhD Candidate in graduate school of Environmental Studies ⇒Exploring Scenario toward Energy Transition(2016~)	Worked in governmental extra body(2years,Loan) ⇒Policy making
Carbon Lock-in	Interdiciprinary approach	Path Dependency

- Problem solving by the integration of knowledge
- Further contribution to energy & climate mitigation



Public Offering from IPCC AR6 WG3
As Chapter Scientist

Understanding AR6 WG3



Which advantages do I identify for my career ?

1. Close relationship with my research interest

-Climate Mitigation, Renewables ,Carbon Lock-in Effect, Policy and Technological Innovation

-Articles to contribute to my research focus

2. Interaction with distinguished authorities

-Lead Author Meeting, Tel conference

-Support & Instruction from TSU

3. Experience of ‘Scientific Neutrarity’

- Transparent process (e.g. Expert & Governmental review)

-Well-balanced structure (e.g. developing & developed, South & North)

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THANK YOU FOR YOUR ATTENTION!

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