Updates on the IPCC Inventory Software and Recent Activities

The 20th Workshop on Greenhouse Gas Inventories in Asia

Tomakomai, Hokkaido, Japan

27 June 2023

Baasansuren Jamsranjav

IPCC TFI TSU

ipcc

INTERGOVERNMENTAL PANEL ON climate change

WMO UNEP

IPCC Inventory Software (version 2.861)

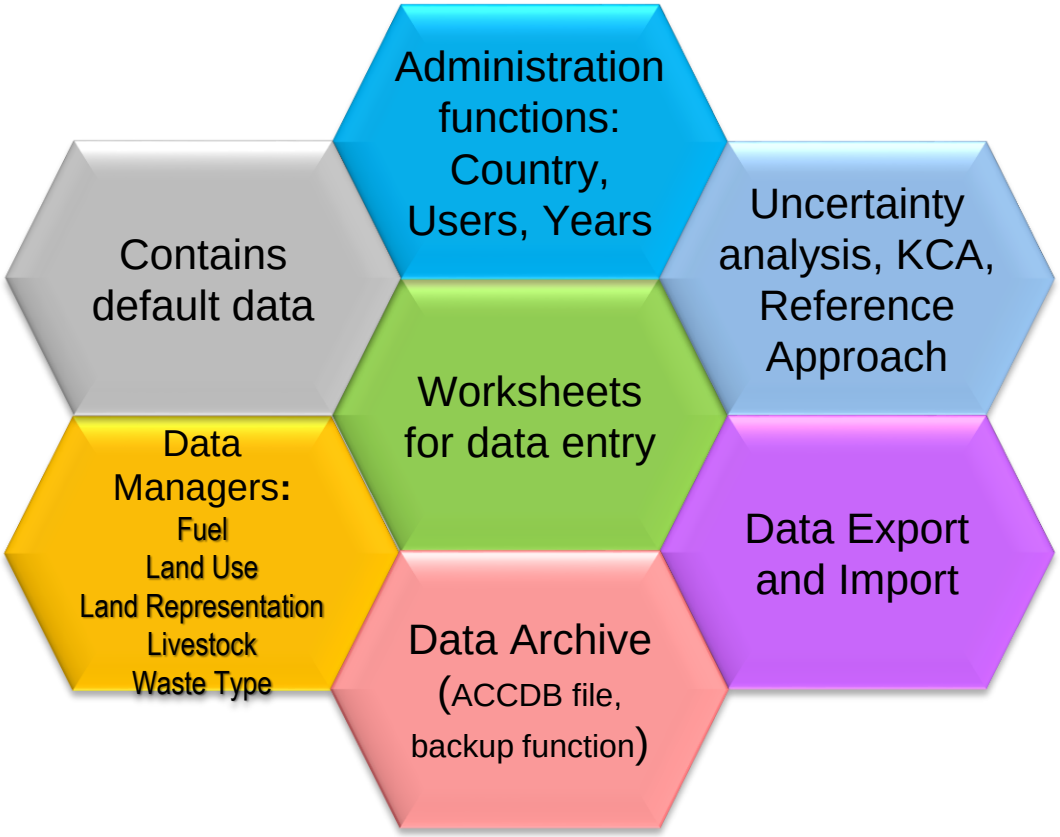
ipcc
INTERGOVERNMENTAL PANEL ON climate change
WMO UNEP

IPCC Inventory Software

- Launched in 2012
- The latest upgraded version 2.861 released on 6 June 2023 is available at IPCC TFI website https://www.ipcc-nggip.iges.or.jp/software/index.html

ipcc
INTERGOVERNMENTAL PANEL ON climate change
WMO UNEP

Software functions

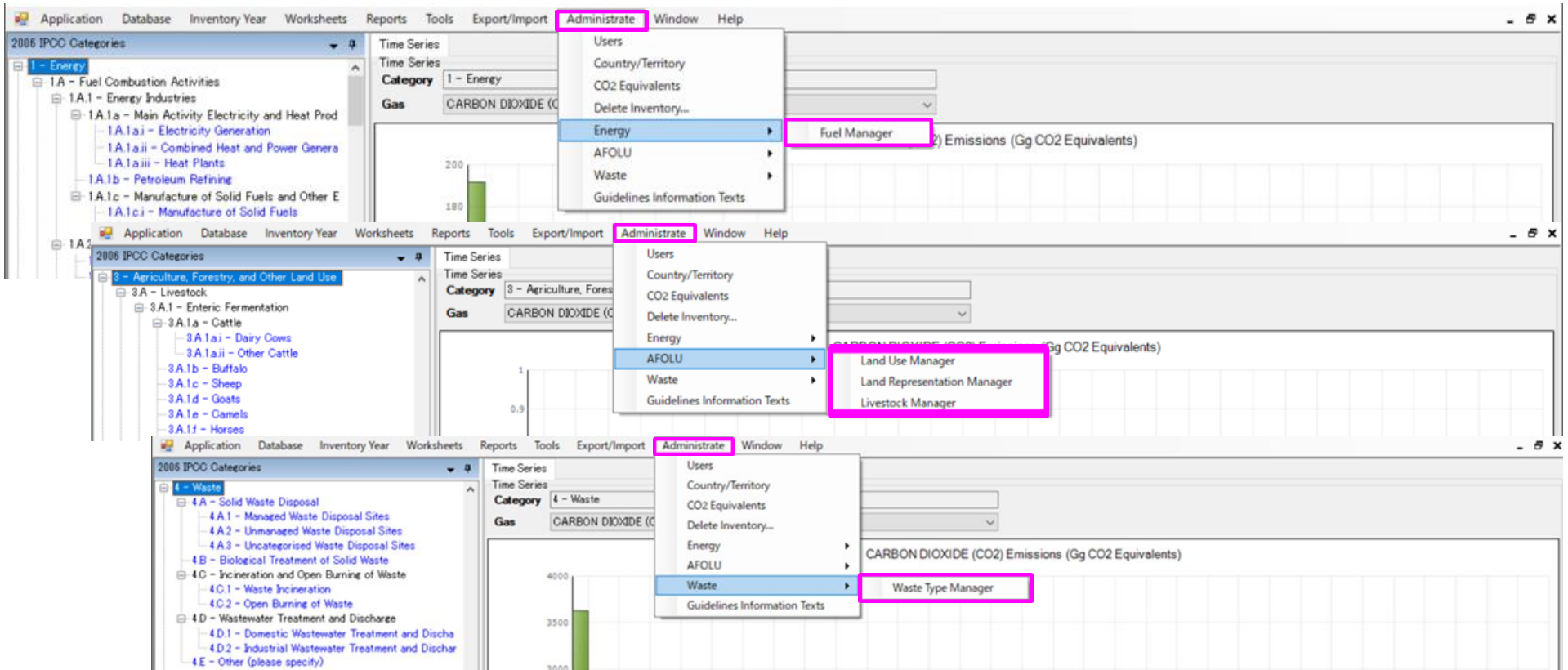


Software key features

- All tiers and approaches of the *2006 IPCC Guidelines and its Wetlands Supplement (lilac color)*
- Data Managers:
- Subnational disaggregation
- Some elements of the *2019 Refinement (magenta color)* to facilitate interoperability with the UNFCCC reporting tool for electronic reporting of common reporting tables (CRT)
- Inclusion of AR5 GWP100 values
- Interoperability functionality with the UNFCCC reporting tool for CRT (Energy sector)

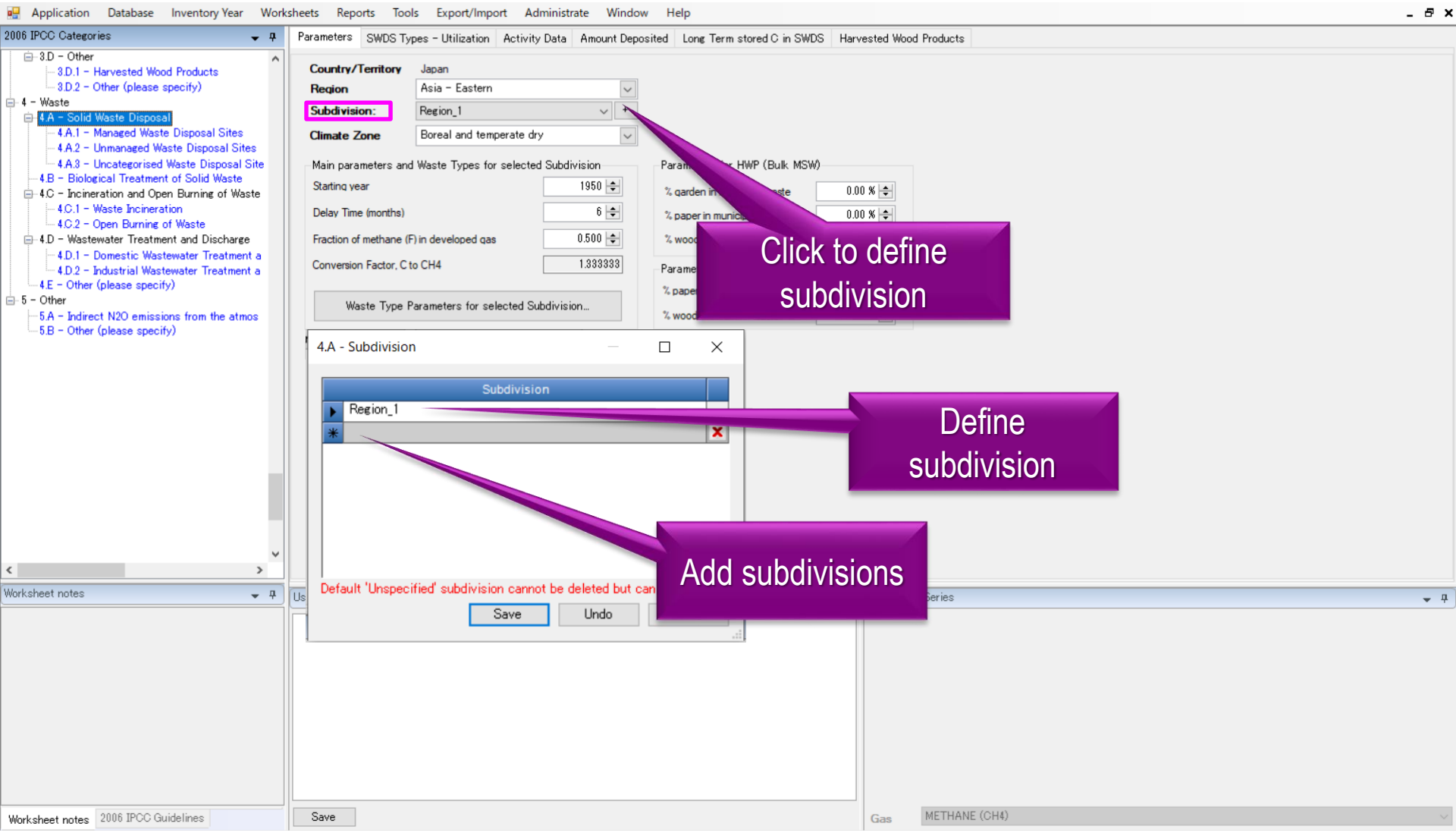
Data Managers

- Contains main data/information needed for estimation of greenhouse gas (GHG) emissions/removals. Allows to enter user-specific data/information.
- Data/information are transferred to relevant worksheets
- Help ensure consistency of data used in estimation of emissions/removals across all relevant worksheets/categories



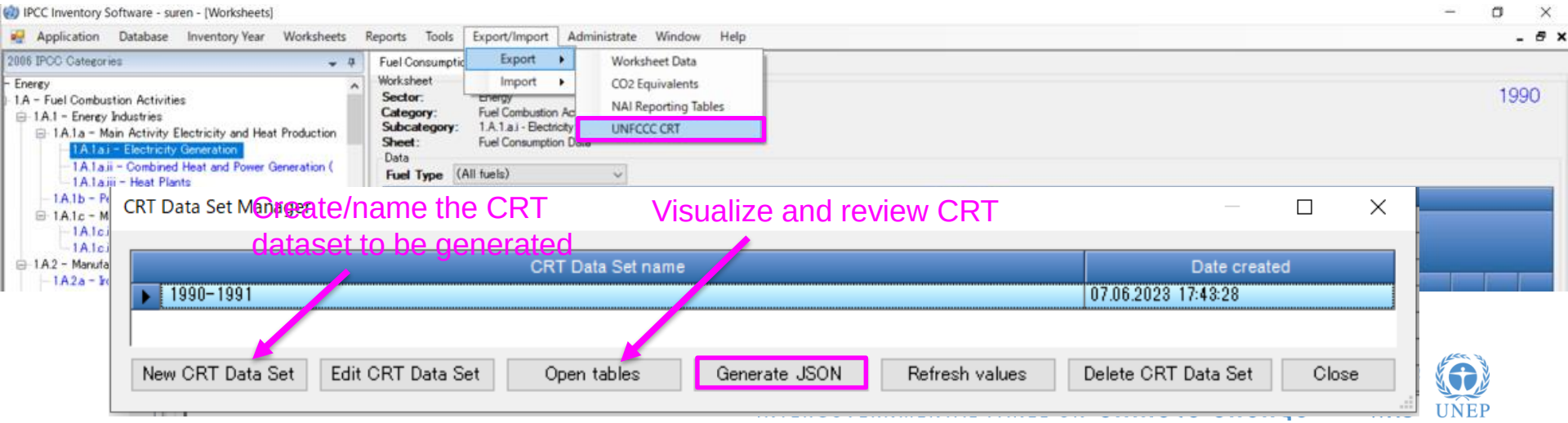
Subnational disaggregation

- Subdivision allows estimation of emissions/removals at subnational level (e.g., regions by climate zone)



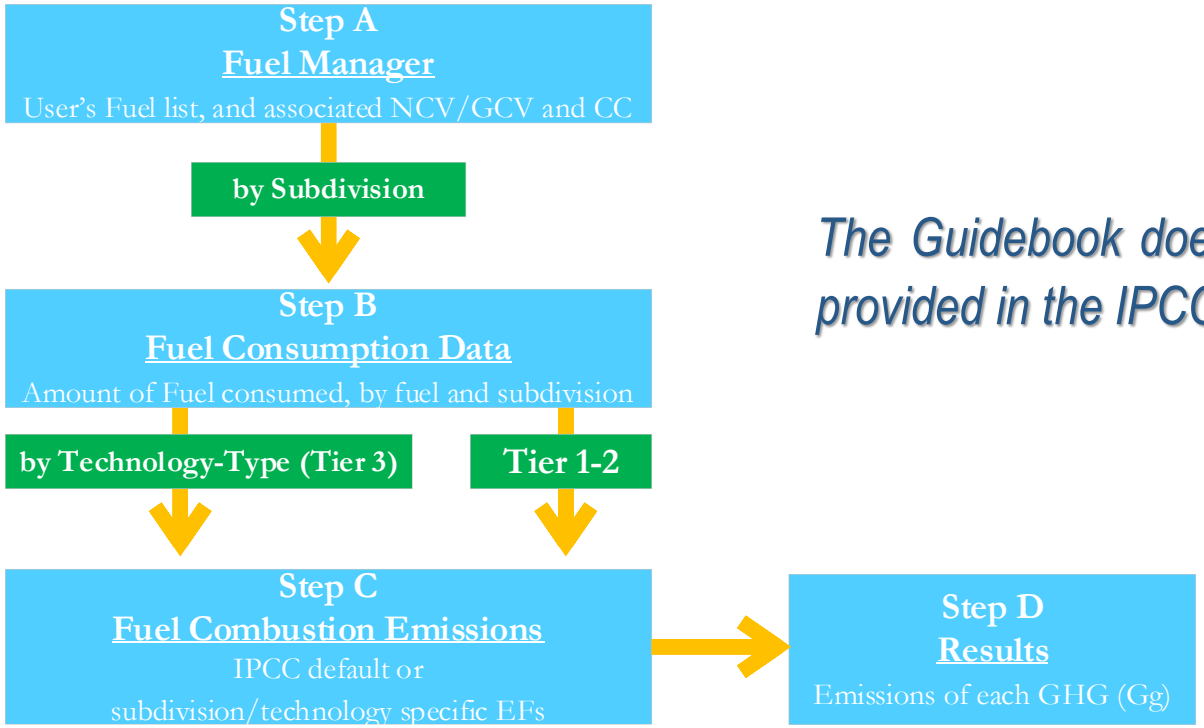
Interoperability with UNFCCC reporting tool for CRT

- UNFCCC Decision 5/CMA.3 requests the UNFCCC secretariat **to facilitate interoperability** between the reporting tools and the IPCC Inventory Software and invites the IPCC to engage in this work.
- IPCC Inventory Software version 2.861
  - Data/information in the software are rearranged/mapped to fit CRT (Annex I to Decision 5/CMA.3)
  - CRT interface is in Main menu of the software
  - Generates a file (JSON file) that could be received and read by the UNFCCC reporting tool for CRT (Energy sector)



IPCC Inventory Software Guidebook

- Step by step instructions on data entry and calculation of emissions and removals in each worksheet



The Guidebook does not replace guidance provided in the IPCC Methodology Reports

Support to users

- Organizing expert meetings annually
  - IPCC Expert Meeting to collect Software and EFDB users' feedback, 1-3 May 2023, Bangkok, Thailand
- Help Desk ipcc-software@iges.or.jp
- User Manual https://www.ipcc-nggip.iges.or.jp/software/index.html
- Frequently Asked Questions https://www.ipcc-nggip.iges.or.jp/software/index.html
- Guidebooks https://www.ipcc-nggip.iges.or.jp/software/index.html
  - Guide to Land Representation (draft)
  - CRT Export Quick Start Guide (draft)
- Collaboration with other organizations (e.g., UNFCCC regional workshops)

In the 7th IPCC assessment (AR7) cycle (from end of July 2023) the support may be subject to changes, depending on consideration by the IPCC and the new Bureau of the Task Force on National Greenhouse Gas Inventories.

Ongoing and planned work

- IPCC Inventory Software Guidebook
- Interoperability with UNFCCC reporting tool for CRT
- Indirect CO_2 emissions
- Indirect N_2O emissions
- Time series export/import

In the IPCC AR7 cycle the plan may be subject to changes, depending on consideration by the IPCC and the new Bureau of the Task Force on National Greenhouse Gas Inventories (TFI).

IPCC Emission Factor Database (EFDB)

ipcc
INTERGOVERNMENTAL PANEL ON climate change
WMO UNEP

IPCC EFDB

- Annual meetings of the Editorial Board to consider data proposals and discuss how to improve/enhance the EFDB
  - 21st Meeting of Editorial Board (EB21), 16-19 May 2023, Christchurch, New Zealand
- Expert Meetings on Data for the EFDB (Data Meetings) have been organized since 2008
  - 21st Data Meeting (DM21), 17-18 May 2023, Christchurch, New Zealand
- Total 2445 data were accepted by the Editorial Board at the EFDB meetings (EB21/DM21) held on 16-19 May 2023 for inclusion into the EFDB.
- A new upgraded version of the EFDB with enhanced functionality will be released in 2023.

Populating EFDB

Defaults

EFDB

Data Provider

Accepted Data

Data

Expert Meeting (Data Meeting)

Data

Editorial Board

Data

TSU

- Initial check of data proposals
- Collection of new data and preparation of data proposals

IPCC TFI Work on Short-lived Climate Forcers (SLCFs)

Methodology Report on SLCFs

- IPCC49 (May 2019, Kyoto, Japan) decided that IPCC TFI should develop a new Methodology Report on SLCFs during AR7 cycle with a preparatory work during AR6 cycle (Decision IPCC-XLIX-7).
- Preparatory work for the Methodology Report in AR6 cycle included:
  - Preliminary technical analysis
  - Expert meetings (virtual): Joint 1st and 2nd Expert Meeting on SLCFs (11-22 October 2021) and 3rd Expert Meeting on SLCFs (11-15 April 2022)
  - Publication of the reports of the expert meetings https://www.ipcc-nggip.iges.or.jp/public/index.html

Methodology Report on SLCFs

- Scoping Meeting for the Methodology Report on SLCFs is planned to be held in AR7 cycle as early as possible (end of 2023 or beginning of 2024)
- Nominations of experts for the Scoping Meeting are being collected from the IPCC member governments and the observer organizations during AR6 cycle
  - The deadline for nomination of experts 30 June 2023 (3 May-30 June)

Thank you

https://www.ipcc-nggip.iges.or.jp/index.html