

# IPCC Data Distribution Centre for AR6

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## IPCC Data Distribution Centre (DDC):

The IPCC DDC is jointly managed by the British Atmospheric Data Centre (BADC), the World Data Center for Climate (WDC), and the Center for International Earth Science Information Network (CIESIN). The DDC is overseen by the Task Group on Data and Scenario Support for Impact and Climate Analysis (TGICA). TGICA and the DDC are currently under review of the IPCC.

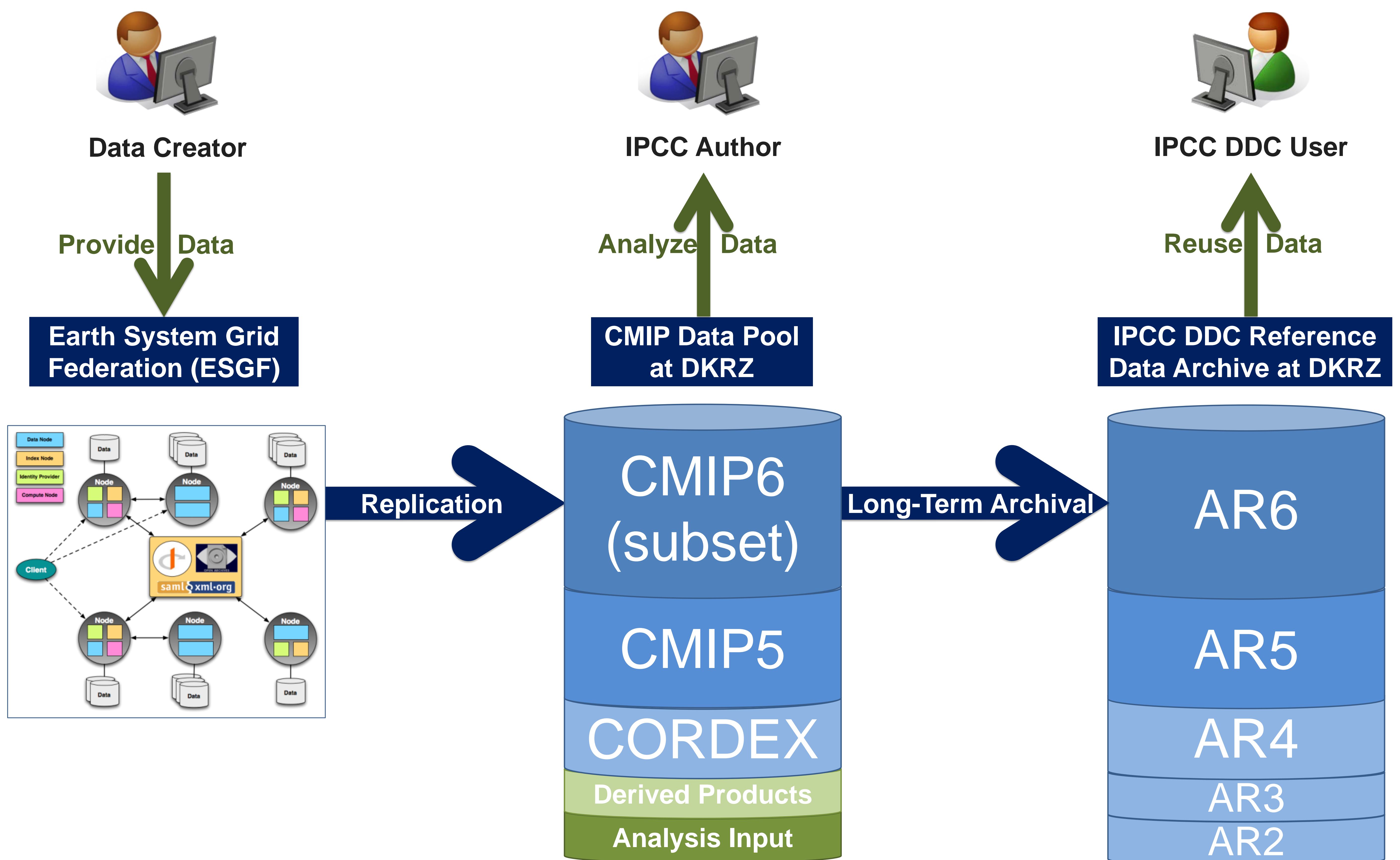
The WDC has been hosting the Reference Data Archive for the climate model output since the Second Assessment Report (SAR) in 1995.

## New Aspects for IPCC DDC AR6:

1. The IPCC requested the DDC to improve its support for the IPCC Working Groups (WGs). Accordingly, the WDC offers the IPCC WGs and their authors to use the CMIP data pool as reliable, up-to-date and easily-accessible data source providing a user-defined CMIP6 data subset.

2. More types of ancillary metadata will be collected for CMIP6. Thus the effort for the metadata enrichment of the Reference Data Archive AR6 will increase in terms of transferring, storing, interpreting and mapping of the ancillary information to the local metadata schema.

## IPCC DDC AR6 Services



### Ancillary Metadata Registration in ESGF:

A URL is registered in the ESGF index on dataset granularity for each type of ancillary metadata during ESGF data publication. Ancillary metadata registration in the ESGF index enables machine access of these external sources of information using the ESGF Search API.

### Data Replication and CMIP Data Pool :

A certain user-requested subset of the CMIP6 data will be provided in the CMIP Data Pool at DKRZ to support the national climate scientists as well as the IPCC authors. It is planned to provide user accounts on DKRZ's HPC for the IPCC authors.

### Long-Term Archival and IPCC DDC AR6:

Metadata from various sources will be transferred, interpreted and mapped to the local metadata schema. This data-related ancillary metadata is accessed via the URL requested from the ESGF Search API. A quality assurance procedure will be applied on data and metadata to ensure the quality standard of the IPCC DDC AR6 archive.

- **Why?** The IPCC DDC Reference Data Archive for the climate model output hosted by WDC provides IPCC data on the long-term for an interdisciplinary user community. The CMIP Data Pool for CMIP6 data strengthens the DDC's support for the IPCC Working Groups.
- **When?** The timeline for the IPCC DDC Services is closely connected with the CMIP6 and IPCC AR6 timelines.

### Concept:

M. Stockhause, F. Toussaint, M. Lautenschlager (2015): *CMIP6 Data Citation and LTA. WIP white paper.*  
<http://www.earthsystemcog.org/projects/wip/resources>.

Living Document on Specifications: <http://bit.ly/1XsVOoz>.



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