ESGF Node

A data Infrastructure for data-intensive science

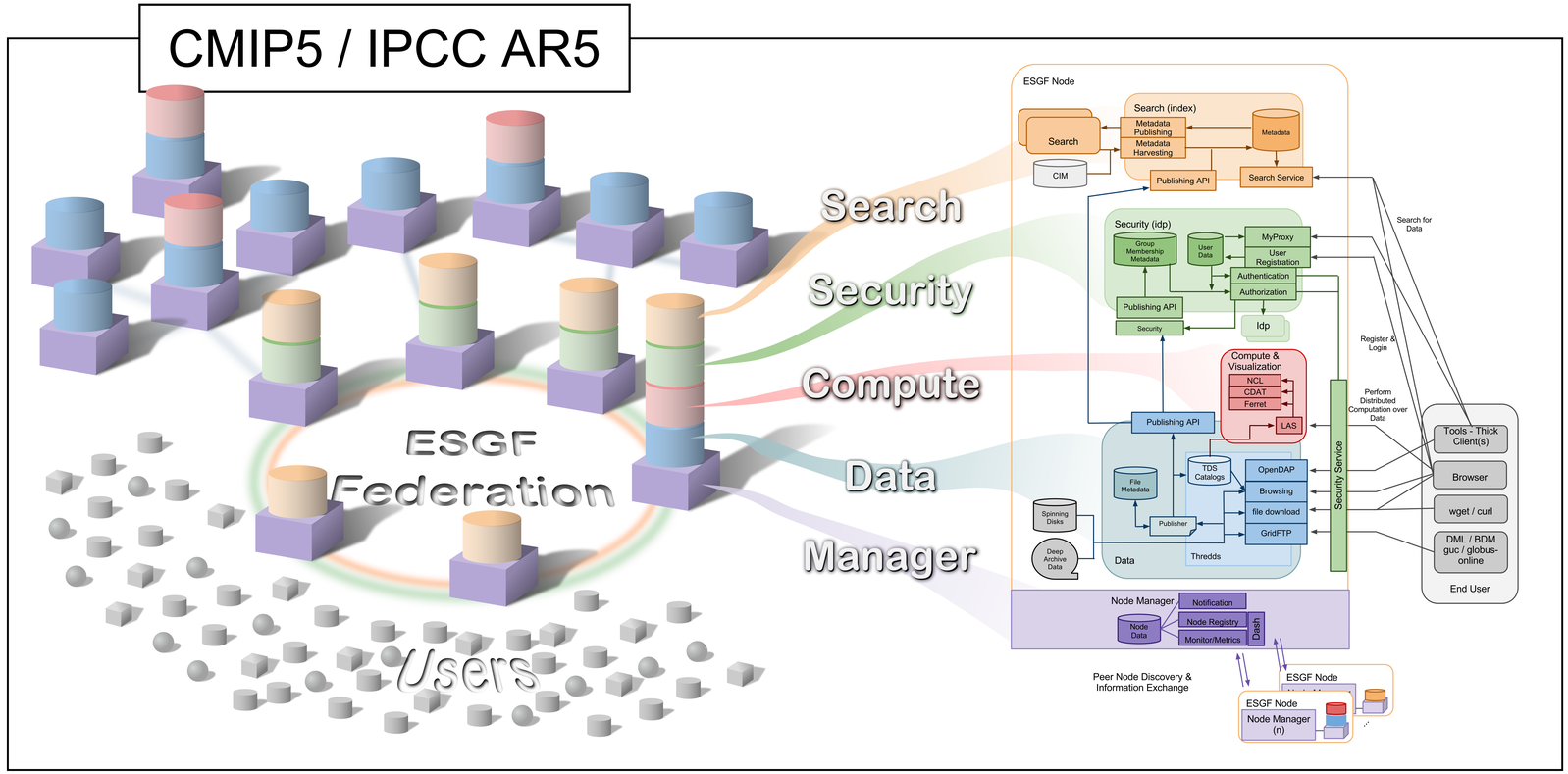
Earth System Grid Federation .org

(ESGF.org)

The ESGF.org is a community driven, open-development effort to produce robust, open-sourced infrastructures for data distribution. These systems are conceived to support data-intensive science by guaranteeing performant and transparent access to Peta/Exa-scale scientific data in a geographically distributed federation.

The primary application is the ESGF Node, an amalgam of software components that work in concert to perform the higher level tasks. The Node is a collection of components developed by the members of the ESGF.org open source effort as well as external tools and libraries that provide support for the ESGF Node feature set.

The ESGF Node will be used to support the CMIP5/IPCC AR5 data infrastructure having 1 PB of replicated data and 10 PB in total across the federation. The ESGF Node allows an institution to check, publish, replicate and administer data as well as to secure access to its resources. The modularity of the ESGF Node is central to its conception and it already provides means for file serving (HTTP, GridFTP, OpenDAP), browsing (Thredds), visualization, access metrics, as well as many others.



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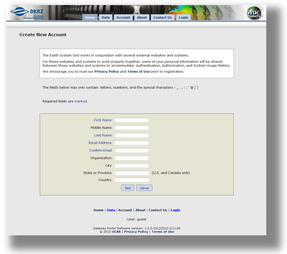

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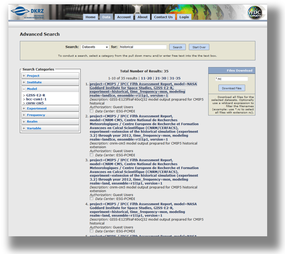

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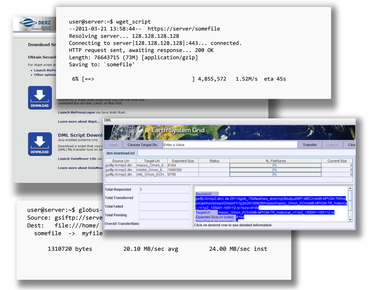
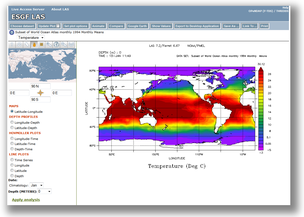


...or even visualize & compute!



http://pcmdi3.llnl.gov/esgcet/
http://cmip-gw.badc.rl.ac.uk/
http://cpo-ars.dkrz.de/
...

The ESGF.org web presence is http://esgf.org

For information regarding hosted data instead of the infrastructure holding it please contact: esg-support@earthsystemgrid.org

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