



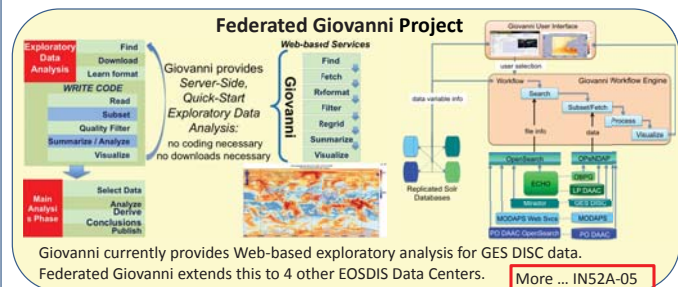
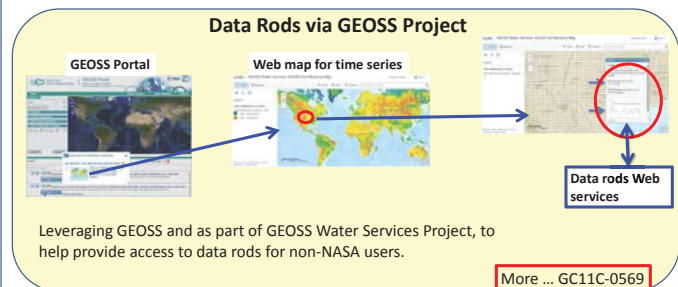
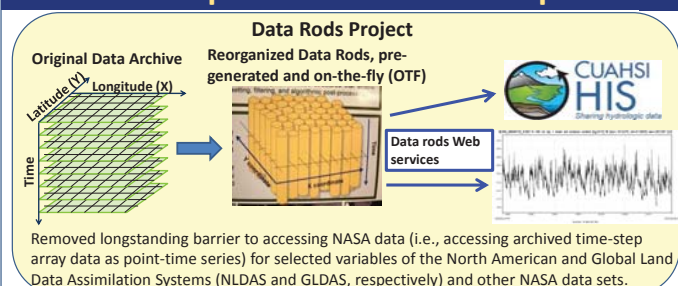
# Proto-Examples of Data Access and Visualization Components of a Potential GEOSS-AI System

## A possible future configuration of these components

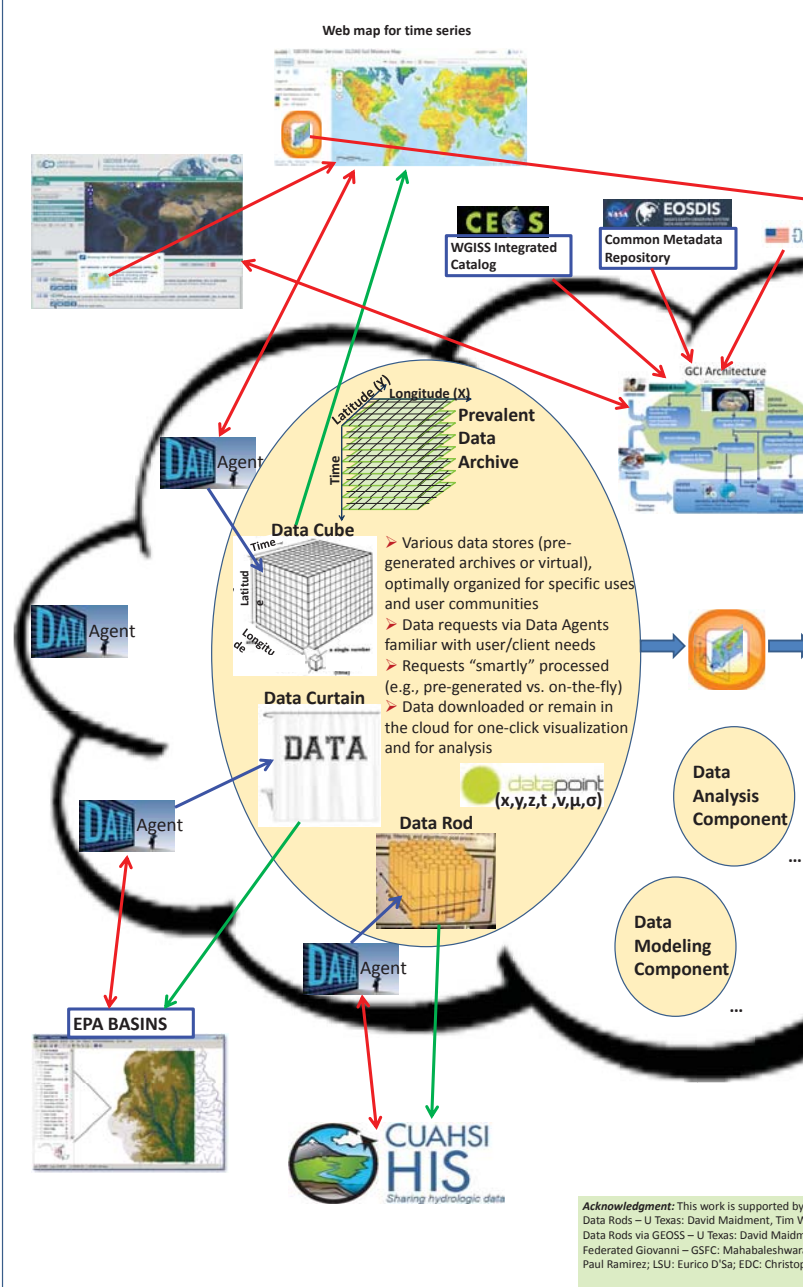
### Motivation

- One component of a potential GEOSS-AI system, in the continuum between observations and end point research, applications, and decision making, would be one that enables transparent data discovery and access by users. Such a component might be effected via the system's "data agents."
- Presumably, some kind of data cataloging has already been implemented, e.g., in the GEOSS Common Infrastructure (GCI).
- Both the agents and cataloging could also leverage existing resources external to the system.
- The system would have some means to accept and integrate user-contributed agents.
- Another component would be one that facilitates browsing/visualization of the data, as well as some basic analyses, i.e., "visualization agents."
- Three ongoing projects at the NASA Goddard Earth Sciences Data and Information Services Center (GES DISC) provide possible proto-examples of potential data access and visualization components of a cloud-based GEOSS-AI system.

### Proto-examples of GEOSS-AI Components



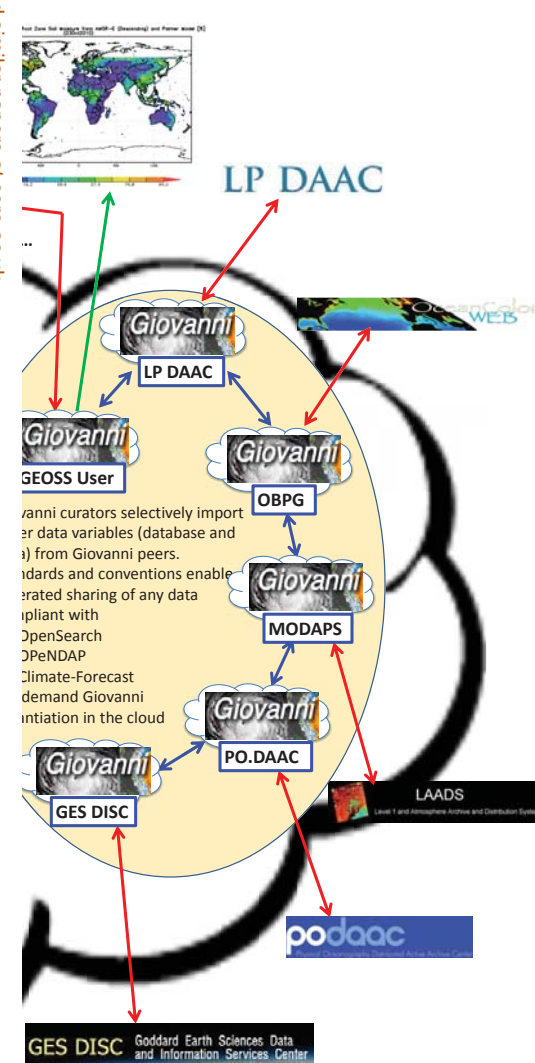
### Notional Configuration of GEOS



## loud-Based

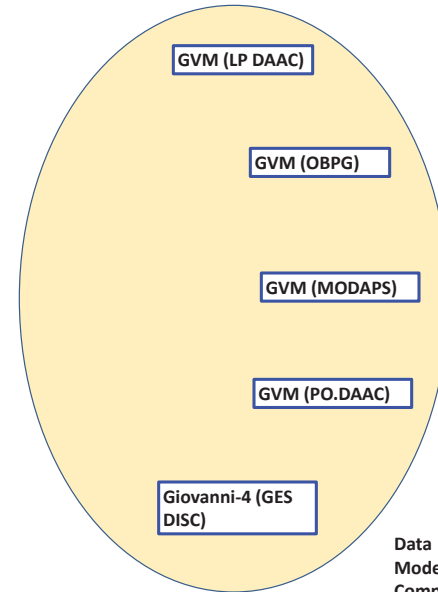
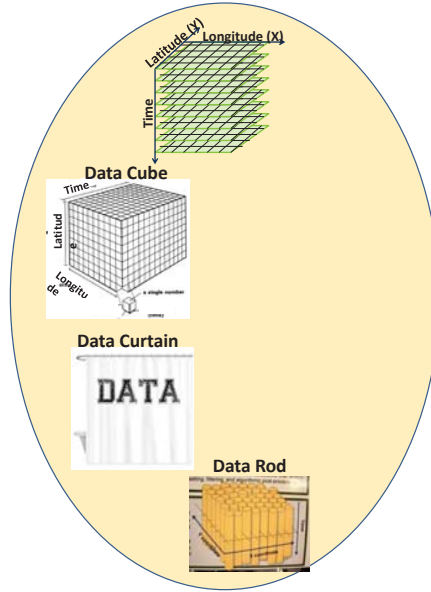
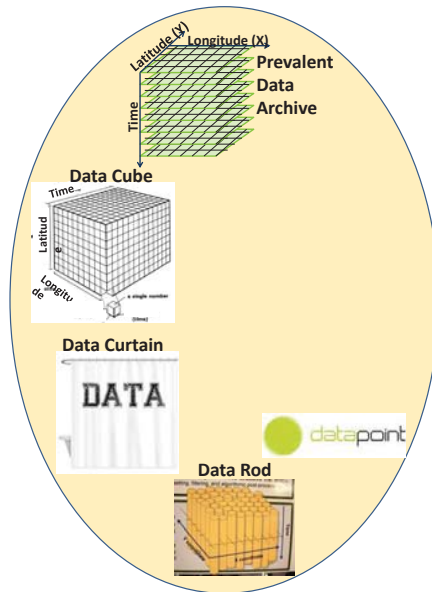
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### Components



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Data Modeling Component