

NOAA's Global Earth Observation – Integrated Data Environment (GEO-IDE)

NOAA Environmental Data Workshop
May 25-26, 2010
Silver Spring, MD



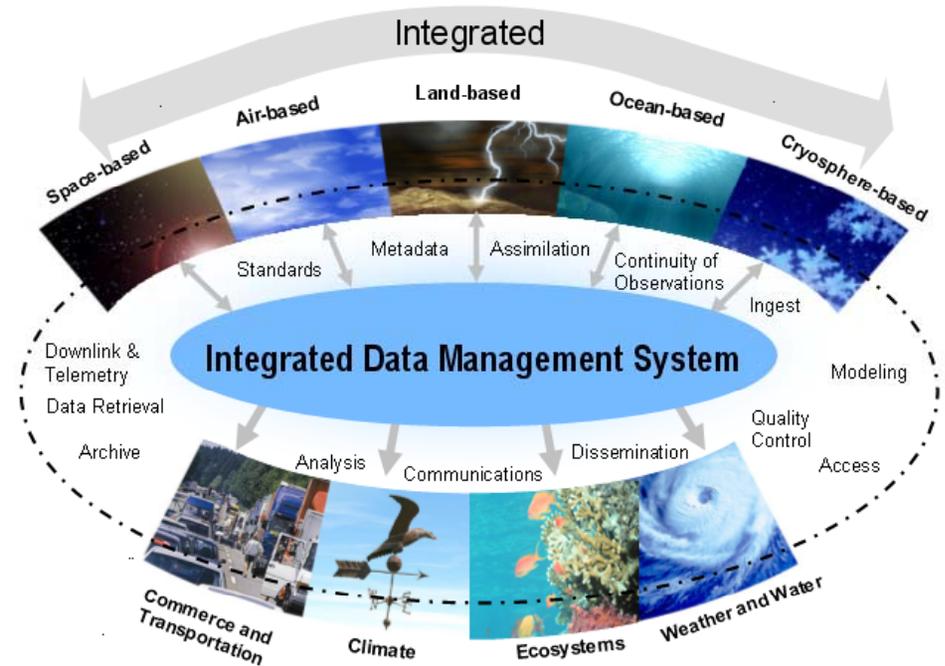
Kenneth McDonald

Technology, Planning and Integration Office
National Oceanic and Atmospheric Administration

kenneth.mcdonald@noaa.gov

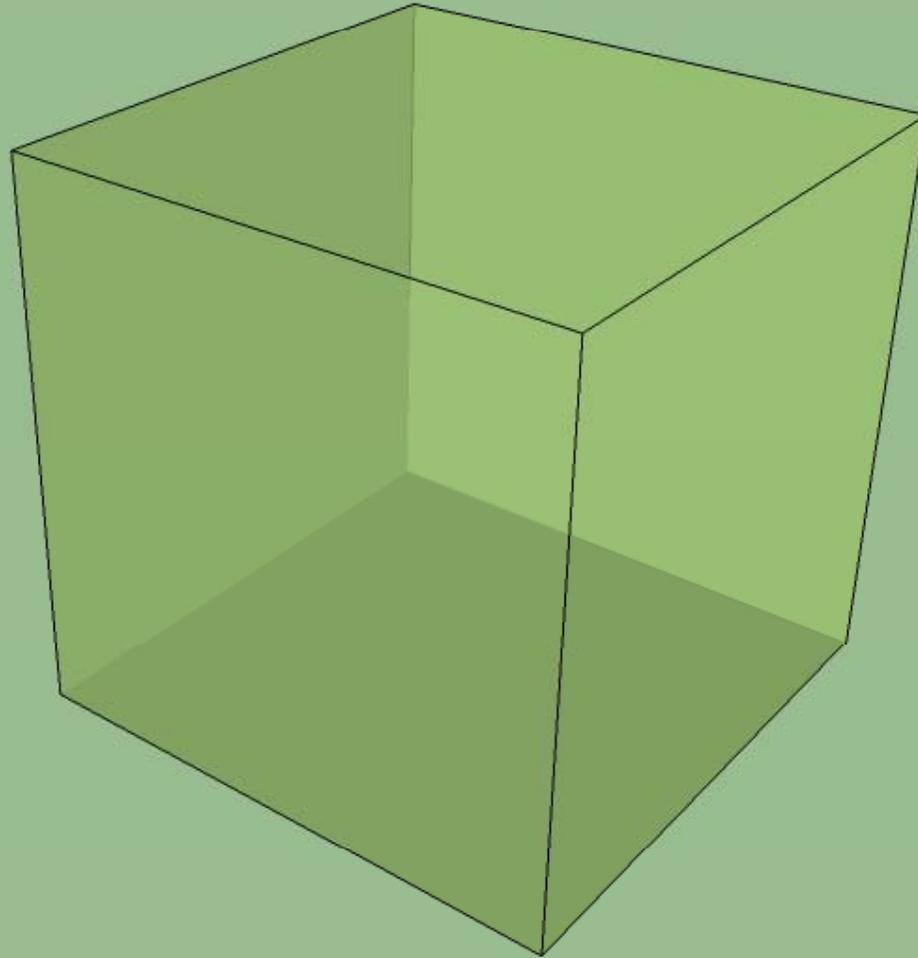
GEO-IDE Overview

- **Purpose** – Maximize use and utility of NOAA environmental data and information
 - Concept developed by the NOAA Data Management Integration Team (DMIT)
- **Vision** – A “system of systems”
 - Framework that provides effective and efficient integration of many quasi-independent systems
- **Concept** – Services-oriented architecture
 - Provides common services and leveraging the benefits of existing data management systems
- **Implementation** – A set of processes, guidelines and supporting activities
 - Work with and through programs and projects, NOAA-wide
 - Includes development of selected infrastructure elements and demonstration projects



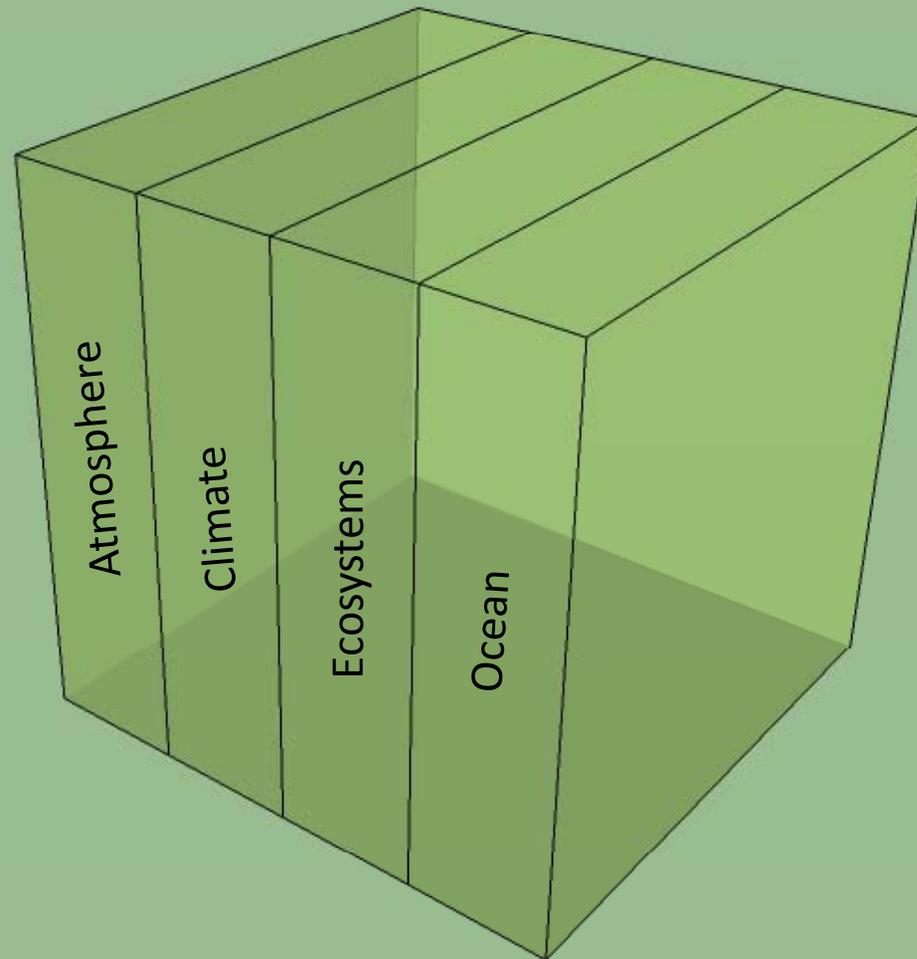
GEO-IDE approach

Represents all of NOAA's environmental data



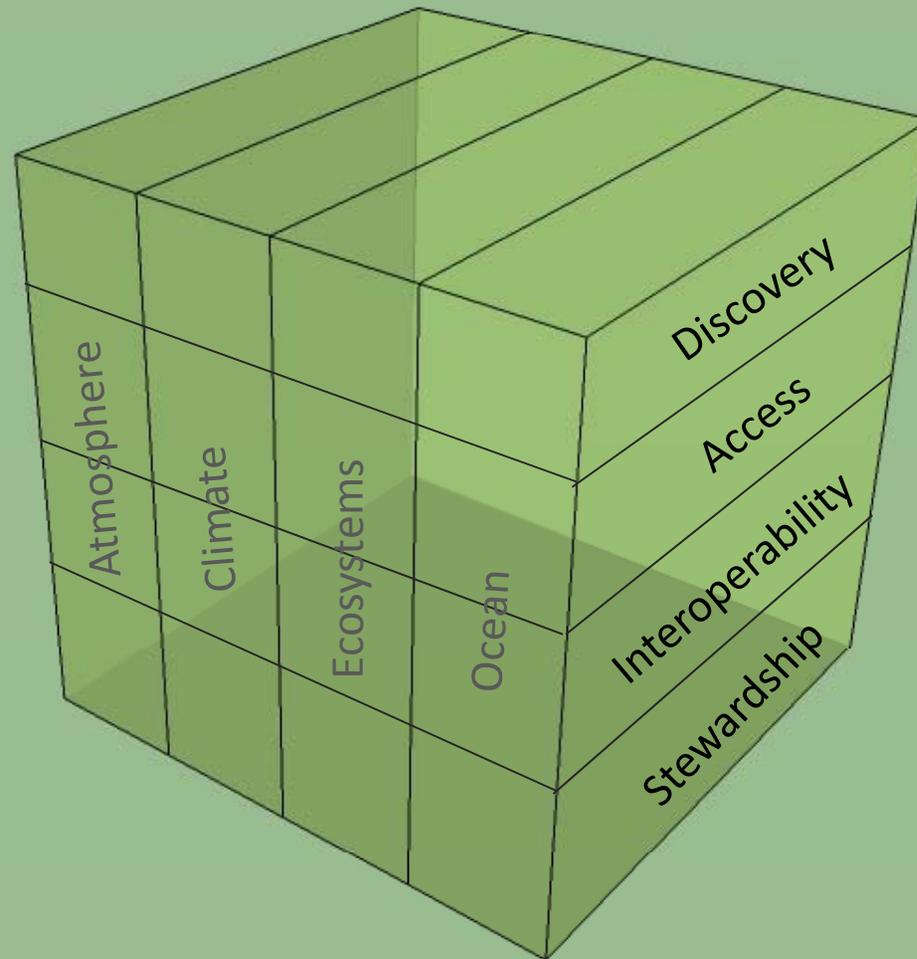
GEO-IDE approach

Existing efforts to integrate within different domain areas



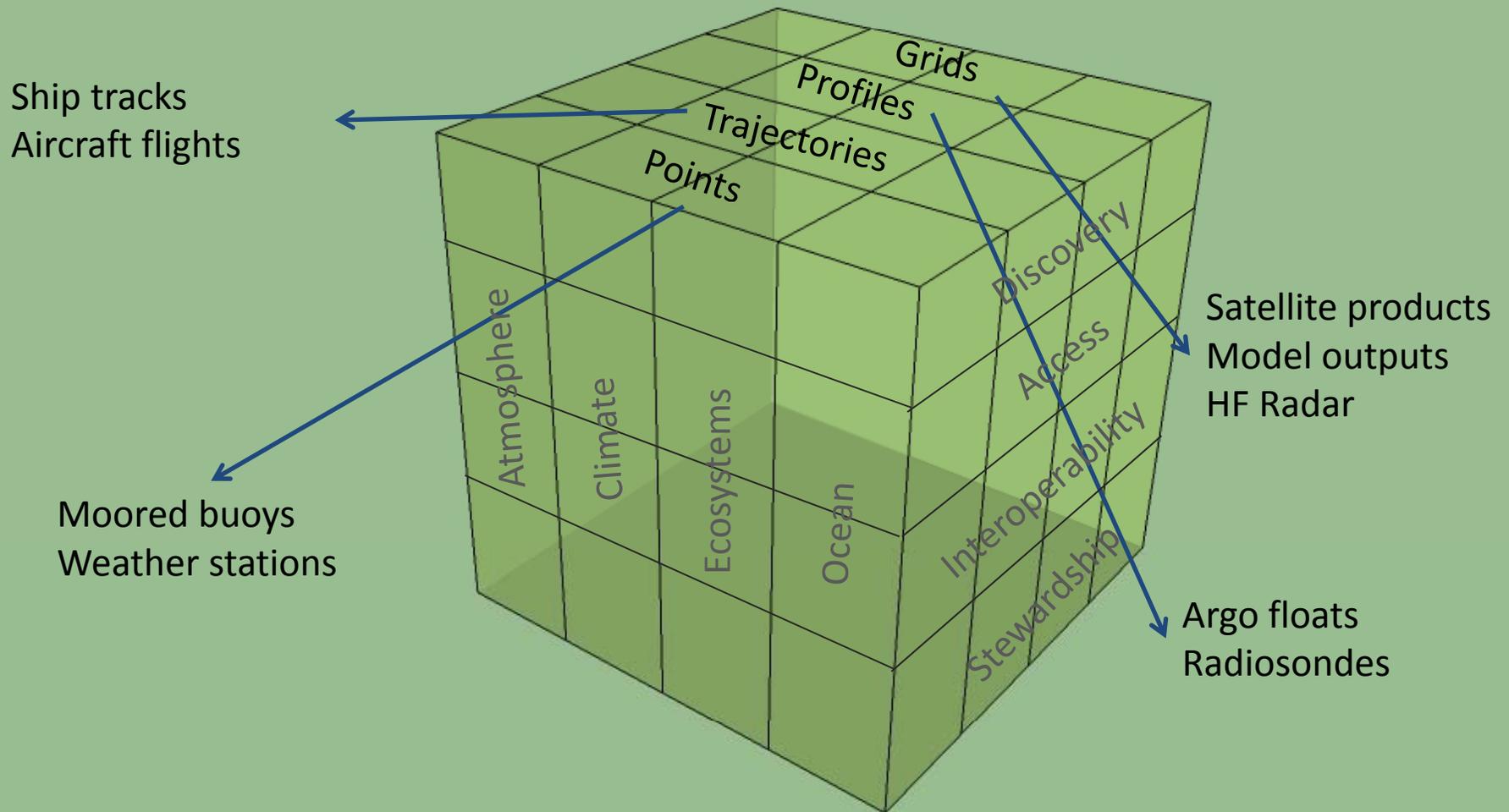
GEO-IDE approach

Need integration across different functional areas



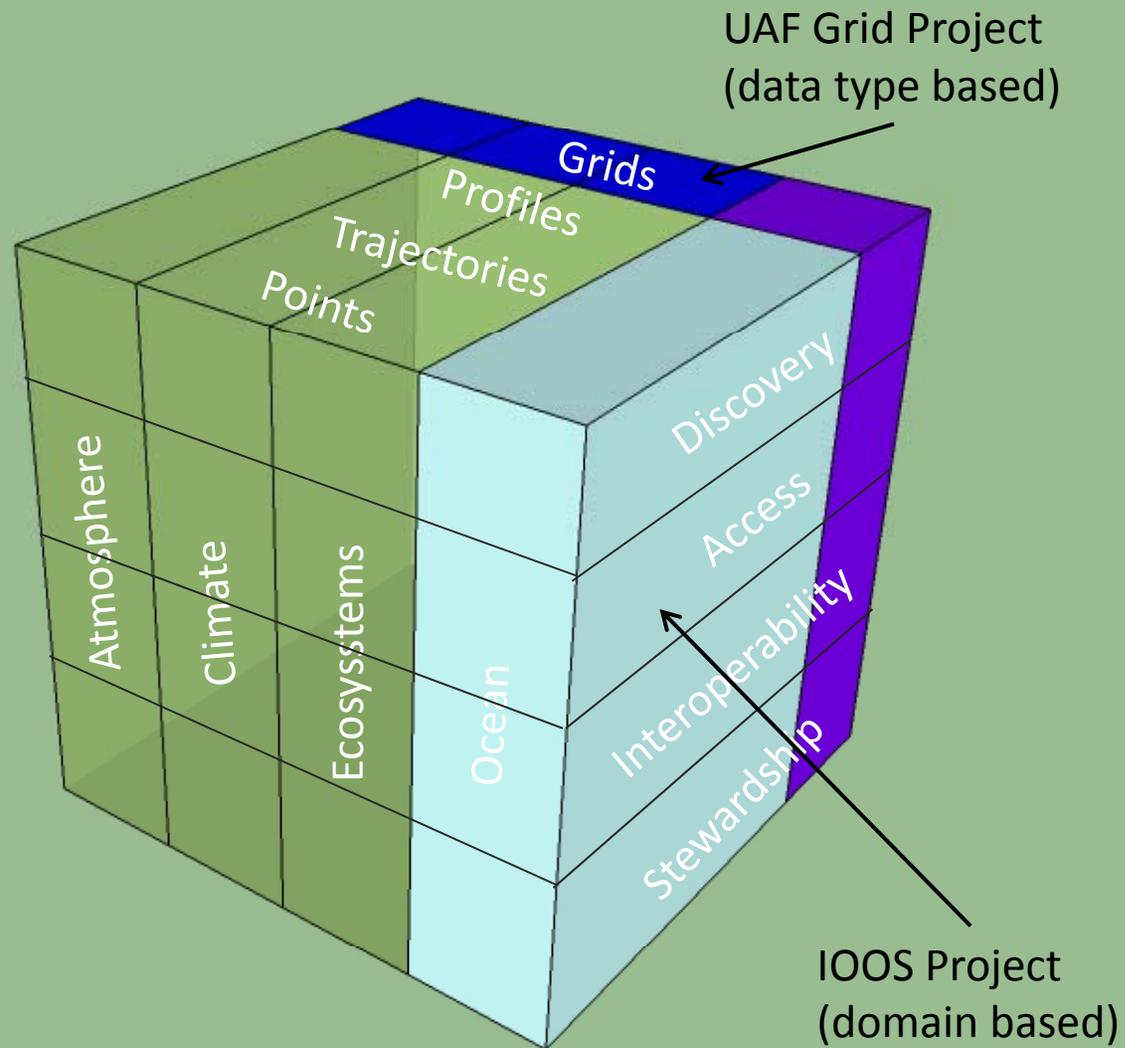
GEO-IDE approach

Opportunities to integrate different structural data types



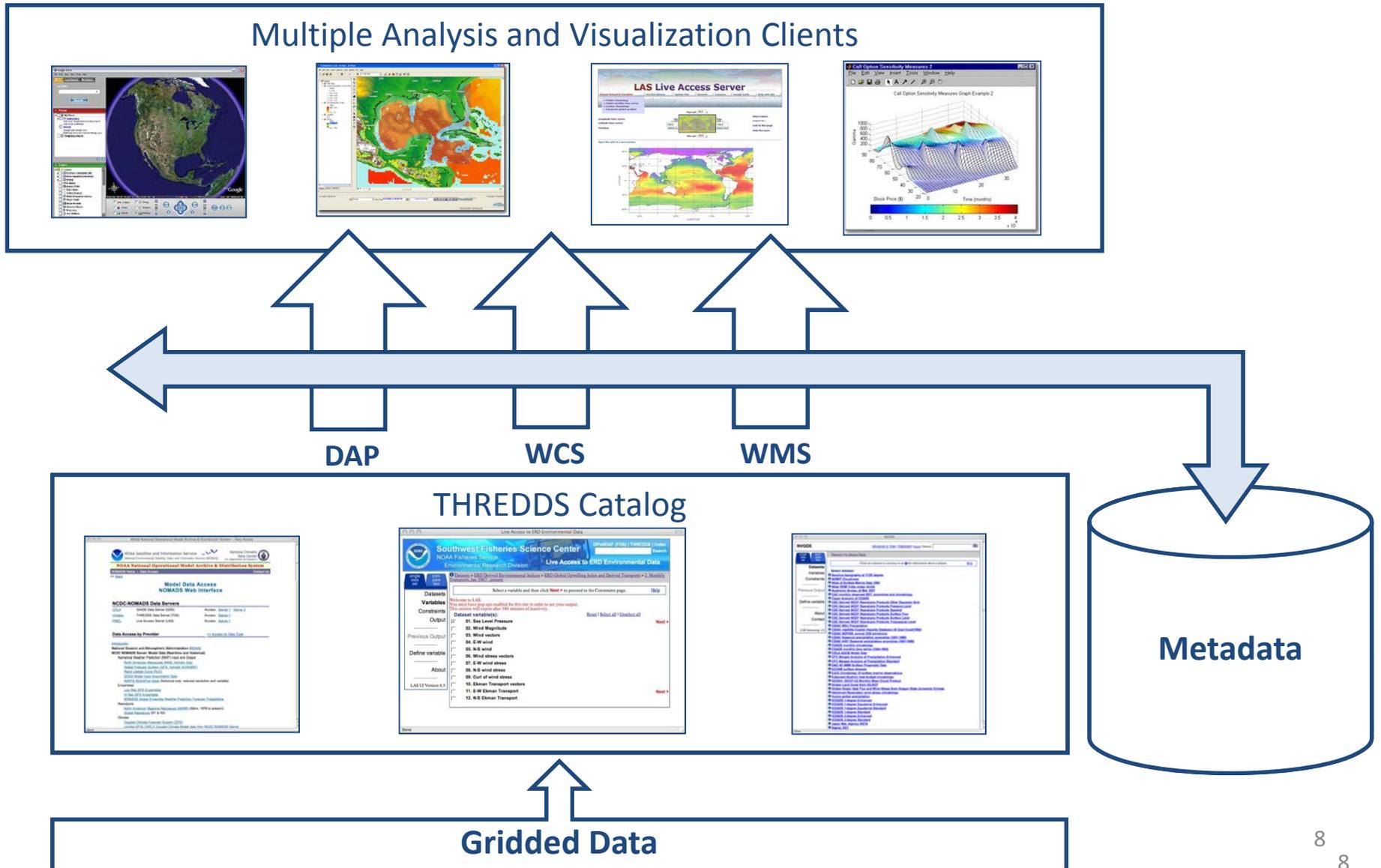
GEO-IDE approach...Encourage Convergence

- Communicate
- Leverage
- Contribute



GEO-IDE Approach...a pilot implementation

The Unified Access Framework for Gridded Data



For More Information

- Check out our demo today
- DMIT Wiki
 - <https://www.nosc.noaa.gov/dmc/swg/wiki/>
- GEO-IDE/UAF Grid Website
 - <http://geo-ide.noaa.gov>