

EOSDIS Vision 2020

Vision 2020 Working Group

Overview

- EOSDIS 2015 Vision ~~is expiring~~ has expired
- Time to create the next vision: EOSDIS Vision 2020(+)
- Methods
 - Talking to the community
 - Extracting from strategy documents and workshop reports
 - Brainstorming
- Output: [Recommendations white paper](#)

Three Groups of Capabilities

- Discovery and Access
- Usage
- Integration

Discovery and Access

- **Machine Level Discovery and Access:** All data are available for search and access with machine-callable APIs.
- **Cross-agency Discovery:** ...is seamless.
- **Dataset Selection Guidance:** ...is available on data selection based on fitness for purpose.
- **Metadata Naming Conventions:** Key metadata follow standard naming conventions for Variables, Platforms, Instruments, Spatial Resolution, Temporal Resolution
- **Virtual Collections:** ...can be organized / oriented around a science problem.

Usage - I

- **Intelligent Tool Catalogs:** ...automatically suggest data analytics / visualization tools to work with the data.
- **Live Data Citation:** Publications are linked to data and tools that allow interactions with the data.
- **Mobile Data and Processing:** Data and processing move transparently as necessary to achieve optimal performance.
- **Quantitative Quality:** All data have quantitative measures for data quality.

Usage - II

- **Reproducibility:** Scientists can reproduce other scientists' research results with high precision.
- **High-Quality Documentation:** Concise, Comprehensive and Consistent documentation exists for all data variables.
- **Capacity Building:** A rich set of capacity-building and translation mechanisms exists to facilitate leveraging data for use by people with limited literacy in science and advanced technology, and/or English.
- **Data Analysis at Scale:** Users are able to analyze the entire data record for any data variable over any arbitrarily defined area.
- **Dataset Upgrading:** High-value datasets are upgraded as necessary to fully support in the rich capabilities available in the data systems.

Integration

- **Combining Data:** NASA data can be combined with data from other agencies, nations and other entities
- **Combining Tools:** Tools and services within the community are easy to combine.
- **Sharing:** Scientists are able to share all scientific resources (data, tools, results, workflows, contextual knowledge)

Status and Next Steps

- Status
 - Done: Recommendations Document Submitted
- Next Steps
 - Review by ESDIS Project and HQ
 - Gap Analysis + Roadmap?
 - Implementations by Specific Working Groups?