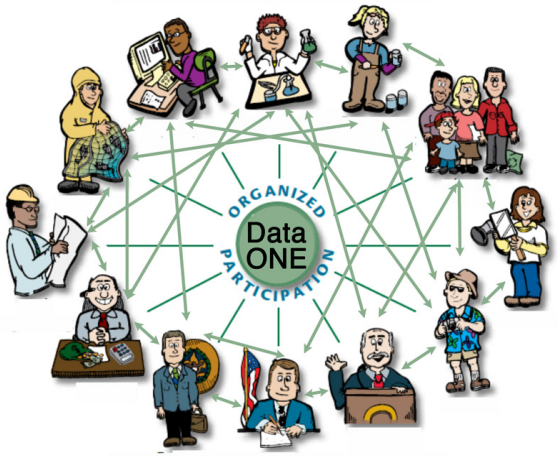
Participating in DataONE

So You Wish to Become an Active Part of DataONE?

One of the primary ways to interact with DataONE as a partner is to become a Member Node.

Member Nodes store and provide access to their digital scientific data holdings. Member Nodes provide metadata describing their data to Coordinating Nodes to facilitate discovery and retrieval of the data within the DataONE Network. Member Nodes may host their own data, and/or may partner with other data holders to provide access to partner's data and metadata. Member Nodes may have direct connection with user communities.



Member Nodes are distinct from **Coordinating Nodes,** which choreograph services that help users store, discover, and retrieve data using metadata provided by Member Nodes, who archive data using various standards and formats. The Coordinating Nodes facilitate replication and preservation of data objects, authorization and authentication, and data discovery. They enable replication of archived data object at other geographically and organizationally distinct Member Nodes and are responsible for authentication and authorization for any operations by users or services on DataONE.

Potential Benefits for Member Nodes

- Improved methods of access to your data, as well as wider access to and exposure of those data
- Cost-effective preservation of your data and metadata
- Access to larger community with expertise and best practices in data life cycle management
- A toolkit for analysis, visualization and modeling your data
- Facilitate response to increasing demands by funding agencies for long-term data management planning
- Visibility as a community leader in supporting open and rapid access to scientific data
- Recognition and credit for data and services provided through data citations in published literature
- Opportunities for collaborative research
- Potential funding opportunities resulting from data discovery

Responsibilities

- Provide access to actively managed data
- Allow replication of data for preservation and increased access
- Provide descriptive metadata to Coordinating Nodes to facilitate data discovery, access and usability
- Ensure availability and reliability of physical data access
- Engage with the larger DataONE community to advance DataONE services, support emerging Member Nodes, and promote best practices in data management.
- Utilize a unique identifier for each dataset by participating in DataONE user identity federation
- Deploy an implementation of DataONE APIs (Application Programming Interfaces)