ESIP Membership Application

Response ID: 52 Data

1. Contact Information

1. Primary Contact

First Name

Name

Nancy Hoebelheinrich

Title

Principal / Information Analyst

Organization

Knowledge Motifs LLC

Street Address

448 East Ellsworth Court

Apt/Suite/Office

City

San Mateo

State

CA

Postal Code

94401

Country

Email Address

nhoebel@kmotifs.com

Phone Number

650-302-4493

Fax Number

650-745-3333

Mobile Phone

Website

2. Designated Assembly Representative (if different from primary contact)

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address

Phone Number

Fax Number

Mobile Phone

Website

3. **Please add any alternate or proxy assembly representatives, if available.**

Is the contact the same as above?

First Name

Name

Title

Organization

Street Address

Apt/Suite/Office

City

State

Postal Code

Country

Email Address	
Phone Number	
Fax Number	
Mobile Phone	
Website	

2. About Your Organization

4. Please give a main website address for the proposed Partnership:

http://kmotifs.com

5. Describe your organization's role in the Earth science community

Knowledge Motifs LLC acts as a liaison between digital library and cultural heritage archive organizations and science DAACs and archives. In that capacity, we apply digital preservation and data management methodologies and techniques used for social science and cultural heritage resources to science data, and transfer to each community what knowledge is useful.

6. Please describe your organization's Earth science data/technology activities.

Our organization has been engaged in activities associated with:
- creating and supplementing all kinds of metadata for data objects according to FGDC and ISO standards;
- standards development for aggregation format, provenance, preservation, descriptive and technical metadata expressed in XML, RDF, OWL, and SKOS;
- transformation of existing metadata into XML and RDF,
- creation of formal geospatial format descriptions for the Library of Congress;
- investigation of implementation issues associated with the use of various identifier schemes for data objects;
- the creation, editing, scriptwriting and voiceover recording of online data management courses for research scientists;
- teaching, presenting and writing on topics related to these activities.

7. What are the primary sources of your funding?

Grants, project / contract funding

3. How will your organization benefit from or contribute to the Earth Science Information Partners (ESIP) Federation

8. Describe current or anticipated users of your products and services and how you think the Federation can help you better serve this population.

We have been working with organizations engaged in providing services or building tools for memory institutions (archives, libraries, data centers). Cultural heritage and social science memory institutions may not have knowledge of the specific requirements or recommendations for managing and preserving Earth science data while conversely, Earth science data centers may not have knowledge of some of the standards, principles and techniques used by cultural heritage and social science organizations. Because of our experiences with managing and preserving data in each of these organizations, with translating requirements into specifications to which service providers and tool builders can work, and with teaching and communicating to the various audiences, we are trying to develop a niche where we can be helpful to all three communities as they go about their similar work in managing and preserving data. As the Federation is a community of many types of organizations focused on creating, managing, providing access to and archiving Earth sciences data, we know that we will continue to learn a great deal about the details of data stewardship and access for Earth science data.

9. Describe technologies that you have developed and are willing to share with the Federation?

The technologies that we have developed have been related to metadata creation (relational database and XML based input tools), encoding (XML and RDF schemas and ontologies), searching (XML, SQL, Oracle and ArcGIS) and delivery (web page design and creation). Each of the technologies has been developed in collaboration with others for specific requirements, so may not be shareable per se, but certainly the underlying analysis and technologies that were used could be applied to appropriate situations as needed by Federation partners within the ESIP context.

10. Describe how you can contribute to the efforts of one or more standing committees, working groups and/or clusters? (200 words or less)

I have been and plan to continue contributing to the Data Stewardship committee activities related to the recommendations for identifier schemes for data objects and other objects such as person IDs, the development of provenance standards for Earth science data, and the creation, editing, presentation and evaluation of the ESIP Data Management for Scientists Short Course. I have also been involved with the Products and Services committee as a representative of the Data Stewardship committee while working on the identifier scheme implementation project, and will continue even though that project has been (more or less) completed. I am starting to monitor and hope to participate in the Semantic cluster's activities related to the creation or adaptation of provenance ontologies for Earth science. If I have time, I also plan to monitor what's happening with the new Geospatial cluster as well as I think there is a lot to learn in the areas of interest that are developing (i.e., less spatial data and more geographic data).

11. Describe your own use of Earth science information and data and how you would see this use enhanced by your partnership in the Federation.

Our organization is not a data producer per se, but a data service provider and collaborator with tool builders for data producers and data managers. A partnership with the Federation would allow us the opportunity to get a better view of real Earth sciences data of various kinds, and also provide use cases for downloading and manipulating the open data that is available as we learn to use and adapt the various tools that are available for Earth science data. An example of this would be the opportunity to use netCDF and HDF data and the tools that are available to use them in hackathons such as those put on by the Earth Sciences Collaboratory cluster or some of presentations in recent meetings. As another example, learning about the availability of different kinds of remote sensing data will provide the opportunity to further our knowledge of ArcGIS, and similar, open source tools.

12. Select membership type

ESIP-III (primarily applications and education)

4. Other comments?

Any other comments about your proposed membership and its relation to the Federation that you wish to provide.

We really value the open, welcoming, collaborative and exploratory nature of the Federation and of its members. We have had similar experience with early digital library organizations and find that kind of atmosphere very important for problem solving. The Federation also seems to be an excellent venue for creating a community of like-minded people who can work and play together, especially in the development phase of new problems to solve like the stewardship of big data.

5. Thank You!

Email notification

Apr 04, 2013 13:53:05 Success: Email Sent to: erinrobinson@esipfed.org

Copy of Email notification

Apr 04, 2013 13:53:07 Success: Email Sent to: carolbmeyer@esipfed.org

Copy of Copy of Email notification

Apr 04, 2013 13:53:09 Success: Email Sent to: jscialdo@ciesin.columbia.edu

Email to potential new member

Apr 04, 2013 13:53:12 Success: Email Sent to: nhoebel@kmotifs.com