State of the Federation

Peter Fox, ESIP President

http://commons.esipfed.org/node/8962

2016 ESIP WINTER MEETING
Wardman Park Marriott, Washington, DC
TYPES OF ESIP MEMBERS

Type I: Data Centers
- NASA DAACs
- NOAA (NGDC, NCEI)

Type II: Researchers and Tool Developers
- Academia
- Government labs

Type III: Application Developers
- Commercial
- Nonprofit
- Educational

Type IV: Strategic Partners
- NASA
- NOAA

ESIP Assembly:
- One partner, one vote
- Annual business meeting at ESIP Winter Meeting
- Leadership elected from Assembly representatives
ESIP GROUPS

**Standing Committees**
- Data Stewardship
- Education
- Information Technology and Interoperability
- Products and Services
- Semantic Web Technologies

**Administrative Committees**
- Constitution and Bylaws
- Finance and Appropriations
- Partnership
- Nominations

**Working groups**
- Visioneers
- Climate Education
- Energy & Climate

**Clusters**
- Agriculture and Climate
- Cloud Computing
- Discovery
- Disaster Lifecycle
- Documentation
- Drones
- Drupal
- Earth Science Collaboratory
- Envirosensing
- Information Quality
- Geospatial
- Science Software
- Sustainable Data Management
- Web Services

... And yours?

[http://esipfed.org/collaboration-areas](http://esipfed.org/collaboration-areas)
ESIP FEDERATION AND FOUNDATION FOR EARTH SCIENCE

ESIP is the Community.

Foundation for Earth Science provides management, operational and logistical services to the ESIP Federation.
2016 ESIP LEADERSHIP

President & Vice President
Emily Law  Christine White

Administrative Committee Chairs
Bill Teng  Ken Keiser  Danie Kinkade

Standing Committee Chairs
Justin Goldstein  LuAnn Dahlman  Ethan Davis  Soren Scott

ESIP Type Reps
Bob Arko  Sky Bristol  Ted Habermann

Nominations - TBN
THINGS ESIP DOES

- Community-generated best practices
- Testbed
- Professional development
- Outreach
- Provide virtual and in-person venues for collaboration and connections
- Provide mini-grants to make stuff happen
2015 EXCOM WORK

- Review arrangement between the Foundation and Federation (finance and services)
- An ESIP budget has been created
- A new Committee (Semantic Web Technologies)
- Student Fellows
- Type Reps – their role and member engagement
- Coordination among Collaboration Areas
- Inactive member procedures
• STRATEGIC PLAN (2015-2020)

• Approved executive summary and baseline roadmap
• Posted on wiki page
• 2016: Start iteratively and periodically monitor, review and update

• Get Involved, Contact
  – Emily Law, emily.law@jpl.nasa.gov
  – Christine White, cwhite@esri.com
HIGHLIGHTS

• Testbed re-envisioning
• D-Lib - Data Stewardship in the Earth Science (Downs, Duerr, Hills, Rama) published
• Collaborative Common Operating Picture – Disaster Life Cycle
• DC visit (Peter and Erin): USGS, NOAA x 2, NASA, CEQ/OSTP, EPA, USGCRP
• Briefing to NIH BD2K community about ESIP
• ESIP Code of Conduct
• 7 New Members!
Since 2009, the Education Committee has delivered ESIP content to more than 200 regional educators at summer workshops.
DATA STEWARDSHIP COMMITTEE 2015: SELECTED ACCOMPLISHMENTS

- Several members involved in crafting GEO Data Management Implementation Guidelines, including serving in leadership positions.

- Development of case studies of application and evaluation of the NCEI/CICS-NC Scientific Data Stewardship Maturity Matrix (DSMM) to various data types.

- Data Management Training: USGS CDI SOI requested full proposal, which has been submitted.


- Active involvement with the EarthCube project iSamples, creating an RDA physical samples group.

- Convened workshop on dynamic data citation
DATA STEWARDSHIP COMMITTEE 2015: SELECTED ACCOMPLISHMENTS

WE PUBLISHED QUITE A BIT!

- Special Issue: Rescuing Legacy Data for Future Science
AG & CLIMATE

- Two sessions (joint with Energy & Climate Workgroup) at ESIP 2015 Summer on CDI and CRT
- Student fellow (Bar!) organized a session on UAVs and agriculture for ESIP 2016 Winter
- Began "pipeline" to transform/translate current research into CRT Case Studies
- Initiated collaborations with groups previously unaffiliated with ESIP, including Cornell, UC Irvine, California Water Resources Board, USDA Climate Hubs, and NASA GPM
FICOM

• Main overall focus was on process improvement, especially for the budget request and review process.

• The RFB (request for budget) was revised and sent out. Current goal is to get everything finalized and ready in advance of FY'17.

• FY'15 budget cycle: Reviewed and approved two regular budgets and two special project budgets.

• FY'16 budget cycle: Three received so far. In review
NOMINATIONS = WHO IS NEXT?

- Winter Assembly – elected!
  - “New” executive committee
    - Committee chairs
    - Type reps
    - President/Vice President

- Awards
  - Martha Maiden
  - President’s Award
  - Catalyst Award (new)

- Nominations ad-hoc committee chaired by Denise Hills
PRODUCTS AND SERVICES

Testbed
• Awarded Four Testbed Projects
• Expanded to include Testbed Evaluation Framework build using the Open Science Framework
• Evaluation of NASA AIST projects
• Collaboration with other Testbeds
• Built resources to help ESIP members take advantage of Testbed opportunities

FUNding Friday
• Awarded 4 Student projects and 3 Member projects
TYPE I HIGHLIGHTS

Rolling Deck To Repository:
• The R2R Program started publishing DOIs in field expeditions in 2015.

Data Conservancy:
• Development of the Data Conservancy Package Tool that provides a functional, desktop-based interface for organizing, describing and preparing data for deposit into a data repository.
• Data Conservancy inspired API extensions to the Fedora 4 repository platform adopted as a DuraSpace community project.

BCO-DMO:
• Relevant to the Data Stewardship Committee and other Type 1 Members in general:
• BCO-DMO participated AGU’s Data Management Maturity Assessment as a pilot case in Nov. 2015.
• New collaborations among ESIP Type I members has lead to improved connections between domain related data facilities: BCO-DMO now links to LTER site data through DataOne.
TYPE I HIGHLIGHTS

NOAA in collaboration with NASA:
- Promoting framework for assessing stewardship maturity and collecting feedbacks from the ESIP and broad Earth Science community, via ESIP Data Stewardship Committee.
- Defining best practices, roles and responsibilities of stewards and key product stakeholders, for ensuring and improving data product quality and usability, via ESIP Information Quality Cluster.
- Exploring ways of integration of dataset product and stewardship maturity rankings as content-rich information into NOAA resources including decision-making support tools.

NASA Planetary Data System (PDS):
- NASA is seeking input for the development of the 2017-2026 PDS Roadmap

Global Hydrology Resource Center (GHRC) DAAC:
- GHRC formalized key data management process in a new Dataset Lifecycle document and updated Levels of Service document.
- GHRC provided data management tools and services for several NASA science missions.
Global Land Cover Facility
- 12 publications and 284.6 terabytes of data distributed

Tetherless World (Rensselaer Polytechnic Institute)
- ESIP testbed recognizing and linking entity mentions in geoscience documents completed
- Work on adopting RDA Data Type and Persistent Identifier Type Registry

ITSC + Disaster Management (UA Huntsville)
- Event-Driven Data Delivery (ED3) NASA Applied Science project is working to integrate data products into ESIP Disaster Cluster
- GeoCollaborate ESIP Testbed effort
- NASA funded Data Curation project is investigating ways to use semantics to better access data products relevant to users' needs.

DISCOVER (UA Huntsville)
- NASA MEASURES project published Regional Air-Sea Interactions (RASI) climatology of gap wind and related coastal upwelling events for sites in Central America.

USGIN (AZGS, AASG)
- Continue development of Content Model Registry and integrated service publication using CKAN
INTERCONNECTIONS @ LARGE

- NOAA, NASA and USGS interest in Testbed

- USGCRP and OSTP/CEQ – Climate Data Initiative and related Initiatives

- Strong resonance of, and interest, in community resilience theme

- Council of Data Facilities synergies

- ESIP members invading RDA
2016 ESIP SUMMER MEETING

Save the date!
July 19-22, 2016
Chapel Hill, N.C.
UNC Chapel Hill's Friday Center
ESIP ONLINE

http://esipfed.org
http://wiki.esipfed.org
http://commons.esipfed.org
http://tinyurl.com/esip-facebook

#esipfed
@ESIPFed
GET ESIP’ED, HAVE FUN

Ongoing activities
- Clusters
  - Start a new one!
- Working groups
- Committees

Biannual meetings
- Attend in person or remote
- Present a talk or poster
- Chair a session

Partnership
- Join
- Invite your colleagues

Host a summer meeting

Consider running for office, co-leading a group, etc.

Jump in and get involved – that’s what makes it work!
QUESTIONS?

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