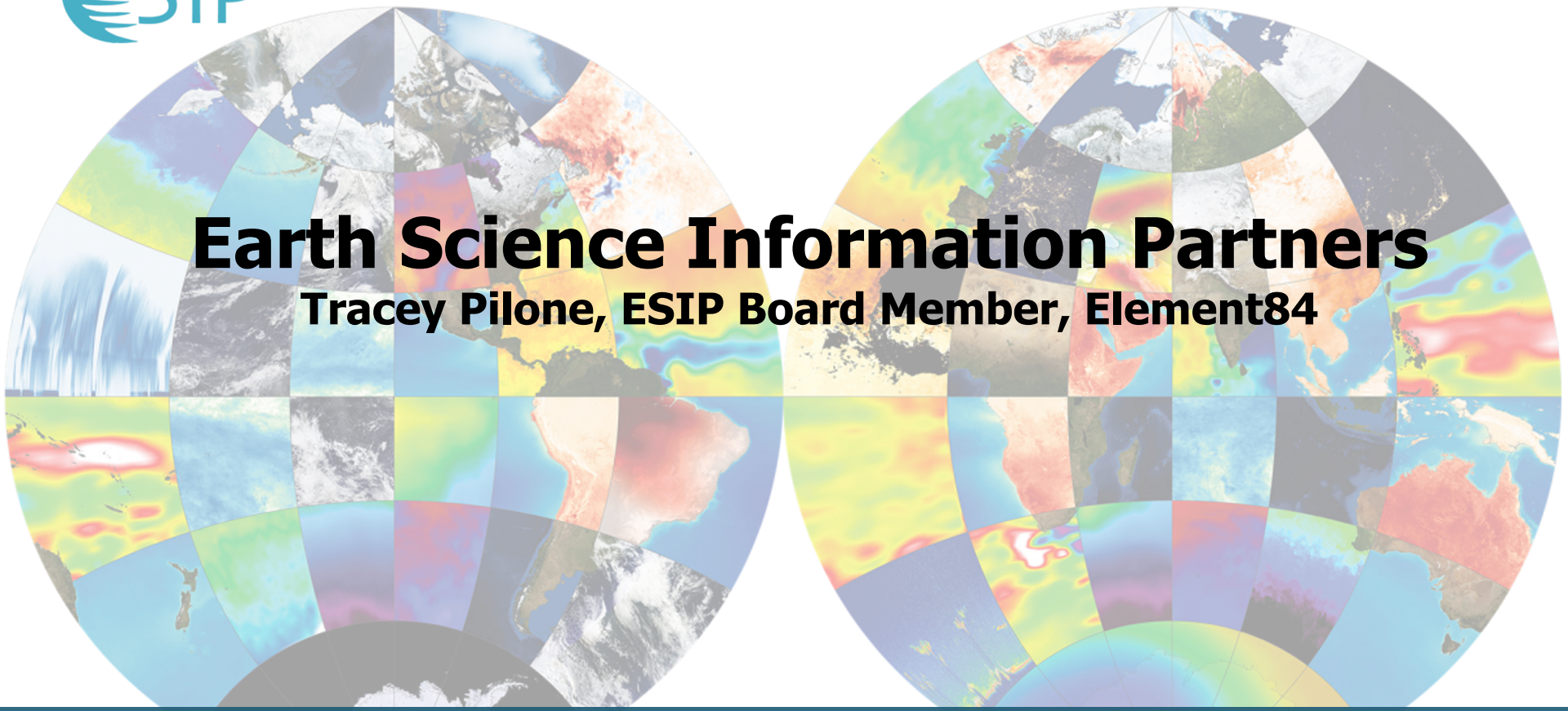


Earth Science Information Partners

Tracey Pilone, ESIP Board Member, Element84

DOE Cyberinfrastructure Annual Meeting

April 24, 2017

ESIP COMMUNITY VISION

To be a leader in promoting
the **collection, stewardship and use**
of Earth science data, information and knowledge
that is responsive to societal needs.

ESIP COMMUNITY

Multiple Science Domains

Corporate

users

application developers

data providers

data archives

tool & system developers

Academia

Cross-Agency

TYPES OF ESIP MEMBERS

Type I: Data Centers

- NASA DAACs (NSIDC)
- NOAA (NCEI)
- NSF Data Facilities

Type II: Researchers and Tool Developers

- Academia (NCAR, LASP, Ronin Institute, GEIA)
- Government labs

Type III: Application Developers

- Commercial (HDF)
- Nonprofit (Unidata, UNAVCO)
- Educational (GLOBE)

Type IV: Strategic Partners

- NASA
- NOAA
- USGS

Type V: Network Partners

ESIP Assembly:

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

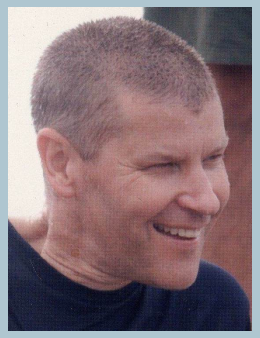
Element 84


Element 84
Home
Hire Us
Work For Us
News
Blog
Contact Us
AQUA 16,787.2 mph
TERRA 16,787.5 mph
MODIS Aqua / Terra near-realtime satellite data
Today at 4:38 AM
We're Element 84 and we're taking on some of the biggest challenges in software:
petabyte search , consumer streaming , Earth science repositories —high performance
systems for some of the biggest corporate and government clients in the world.

2017 ESIP LEADERSHIP

Standing Committee Chairs

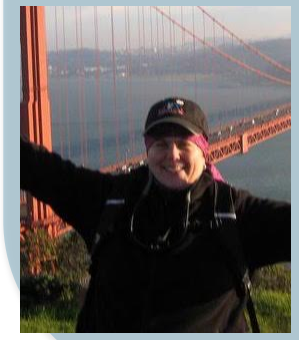
Rich Signell



Soren Scott

Tracey Pilone

Shelley Olds



Matt Mayernik

Beth Huffer

Program Committee

BOARD

President & Vice President

Emily Law

Christine White

Administrative Committee Chairs

Mike Daniels

Helen Conover

Danie Kinkade

At-large Board Directors

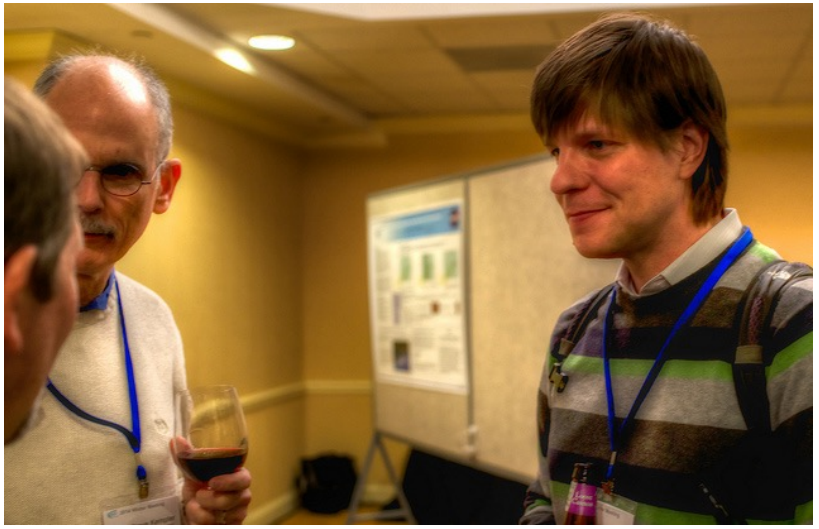
Peter Fox

Karen Moe

Mark Parsons

ESIP HISTORY

- 1998: NASA with NRC prompting creates ESIP Federation
- ESIP creates its constitution: member run, member led
- 2003 ESIP forms nonprofit administrative arm
- 2005ish NOAA adds funding for community building
- 2016 USGS steps up
- 2017 ESIP becomes single organization and is a premier virtual science organization

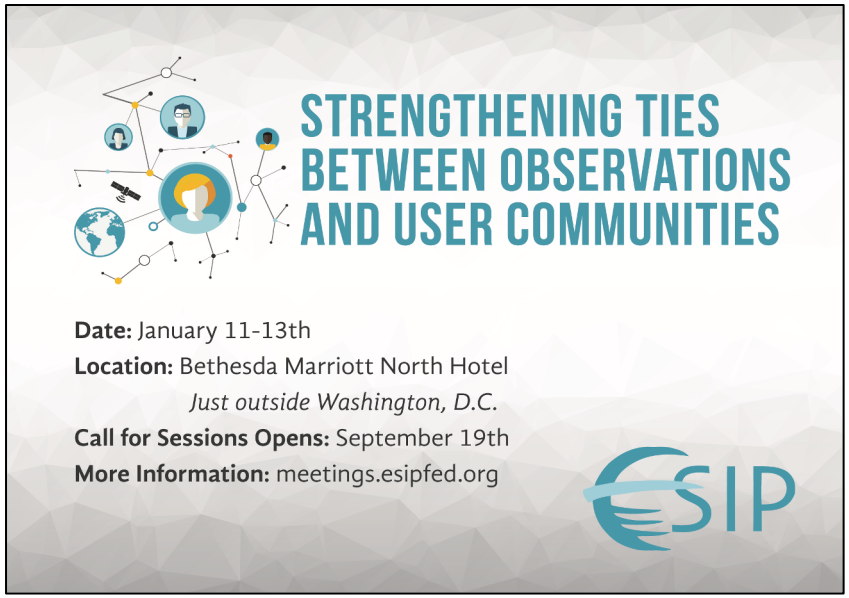


ESIP SHARED AGENDA

2016-2020 Strategic Plan

- **Increase the use** and value of Earth science data and information.
- **Strengthen the ties** between observations and user communities
- Promote techniques to **articulate and measure the socioeconomic value** and benefit of Earth science data, information, and applications.
- **Position ESIP** to play a major role in Earth science issues

2017 Annual Theme



Values

Agile | Collaborative | Collegial | Community-driven | Innovative
Neutral | Open | Participatory | Voluntary

ESIP BACKBONE

ESIP BACKBONE

List-servs & Slack

Email Marketing

Wiki MediaWiki & Loomio

ESIP Hub

ESIP CMSs

Meetings

Social Media

Web Conference

2300 people have been to ESIP meetings in the past 12 years

Welcoming first-timers! (about a third of the group every summer)

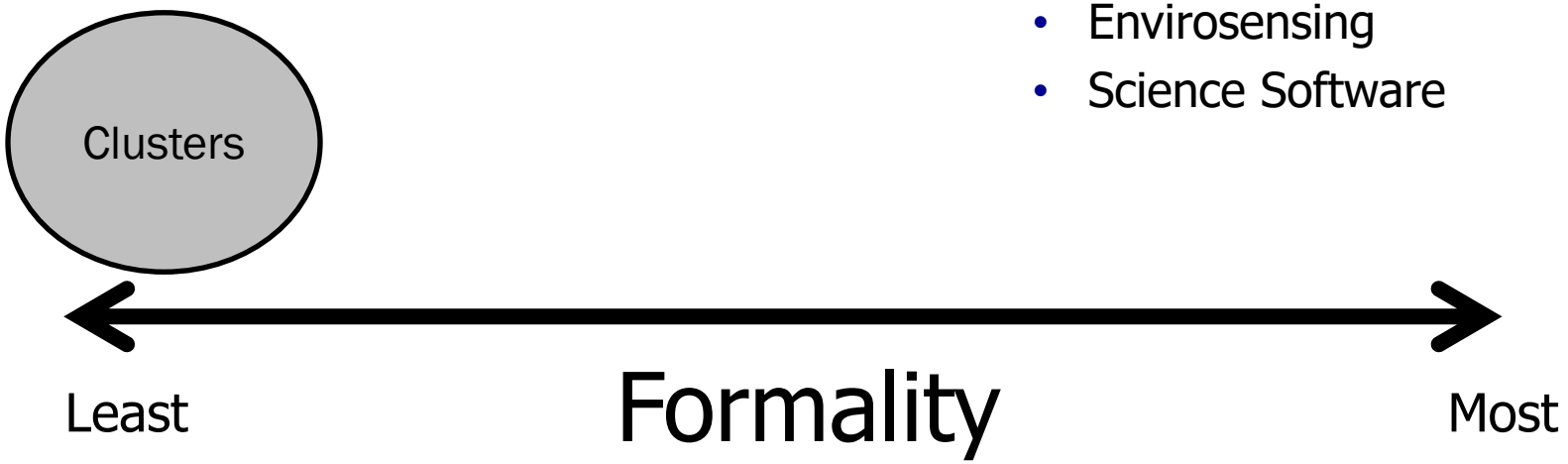
ESIP Visioneers goal: BEST Earth Science Data Meeting anywhere!

COLLABORATION AREA STRUCTURE

Features

- Formed by sending VP email
- For any reason
- Ends when the last person hangs up

- Agriculture & Climate
- CLEAN – Climate Literacy
- Cloud Computing
- Disaster Lifecycle
- Discovery
- Documentation
- Drones
- Drupal
- Energy & Climate
- Envirosensing
- Science Software



COLLABORATION AREA STRUCTURE

Features

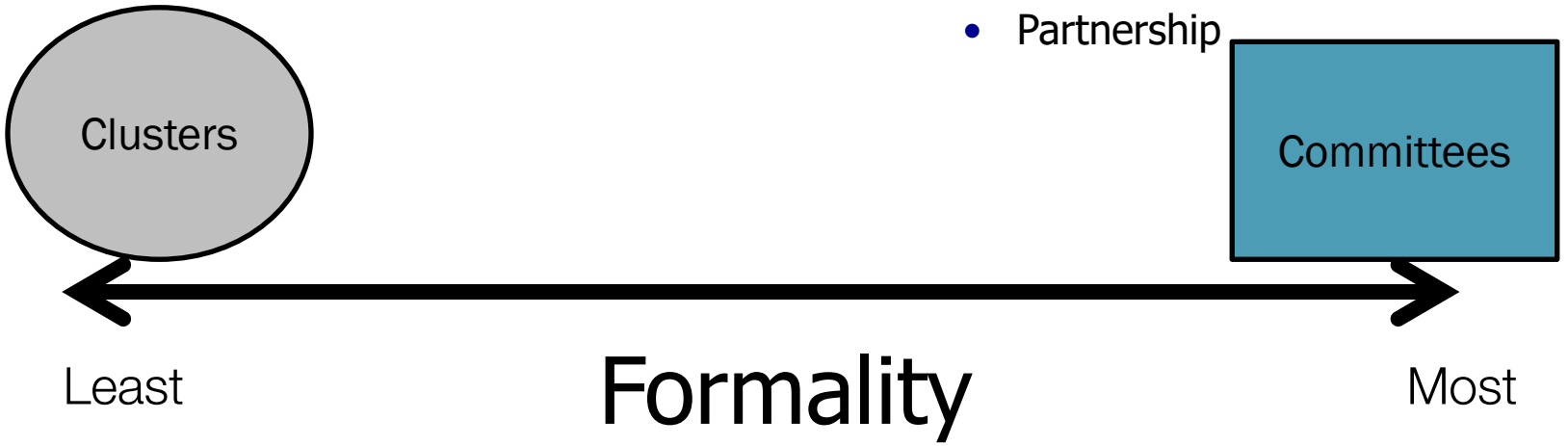
- Chair elected by Assembly
- Chair serves on Executive Committee
- Budget*

Standing Committees

- Data Stewardship
- Education
- Information Technology and Interoperability
- Products and Services
- Semantic Technology

Administrative Committees

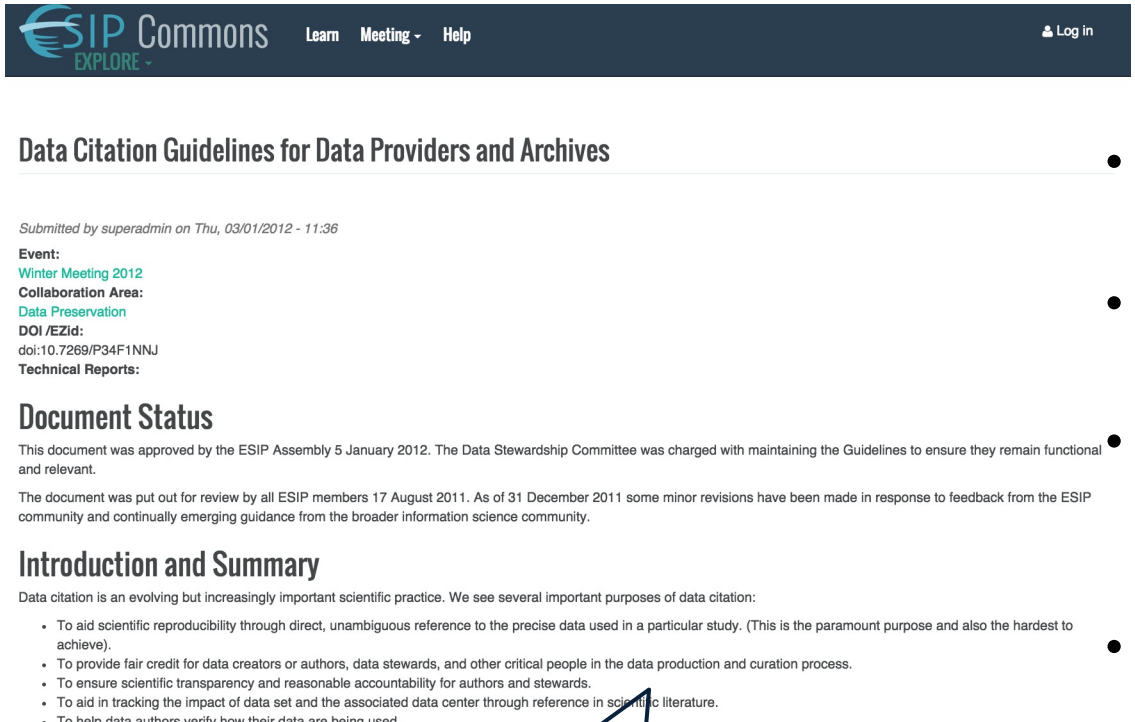
- Constitution and Bylaws
- Finance and Appropriations
- Nominations
- Partnership



THINGS ESIP PRODUCES

- Community-generated best practices
- Consensus governance on conventions
- Professional development & outreach
- Mini-grant Funding - FUNding Friday & Incubator awards provide seed money to make stuff happen

DATA CITATION GUIDELINES



- ESIP Data Stewardship created
- ESIP Assembly endorsed in 2012 (Way ahead of it's time)
- Served as a model for NASA, NOAA, NSF, Group on Earth Observations, …
- ESIP has been influential in Force11 and RDA, influencing directions based on this work

http://commons.esipfed.org/node/308

DATA MANAGEMENT FOR SCIENTISTS SHORT COURSE

A project of
The Federation of Earth Science Information Partners (ESIP Federation), the Data Conservancy, and the United States National Oceanic and Atmospheric Administration (NOAA).

ESIP

THE DATA MANAGEMENT PUZZLE

http://commons.esipfed.org/datamanagementshortcourse

Making research data:
Shareable
Findable
Reproducible
Available for the long term

What is it?

Who cares?

Funding Organizations
Your Colleagues & Collaborators
Data Storage Partners
Future Scientists
Your reputation

Quick: 7 – 15 minutes each

courses complement each other

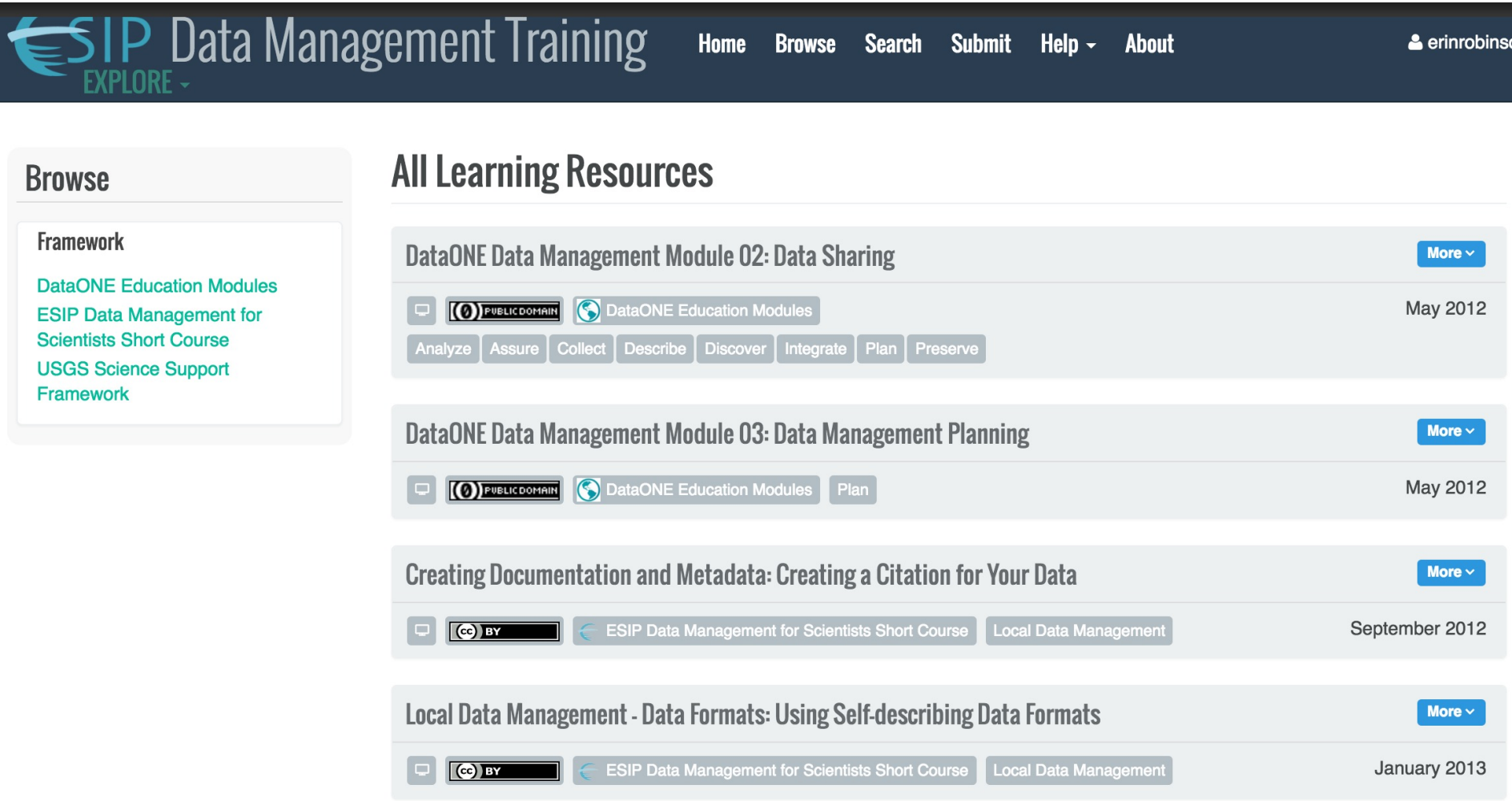
Download as slides or videos

Created by experienced scientists

Peer reviewed
Free of Charge

Benefits of short Course

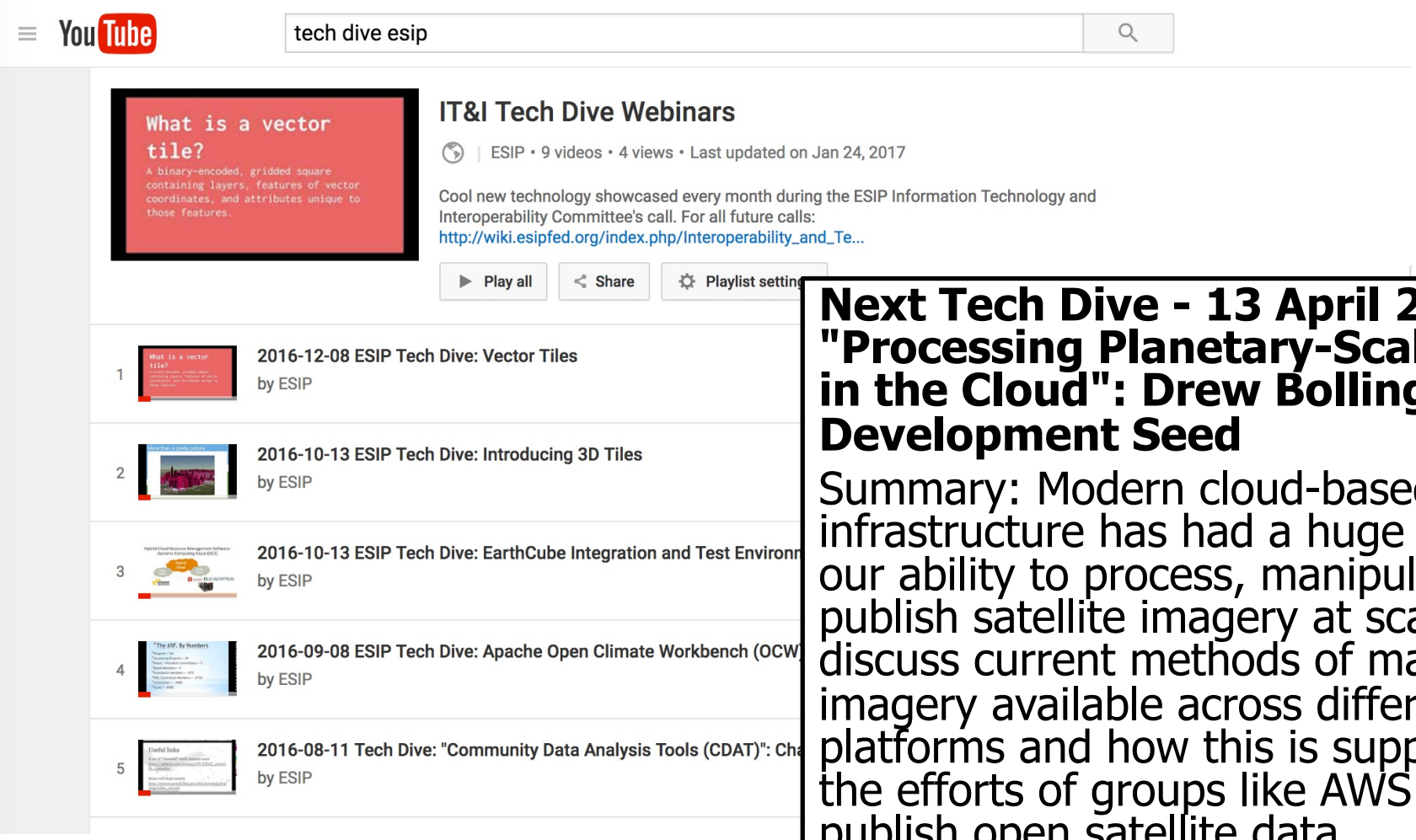
DMT CLEARINGHOUSE



Dmtclearinghouse.esipfed.org

Publicly available for comment!

TECH DIVES

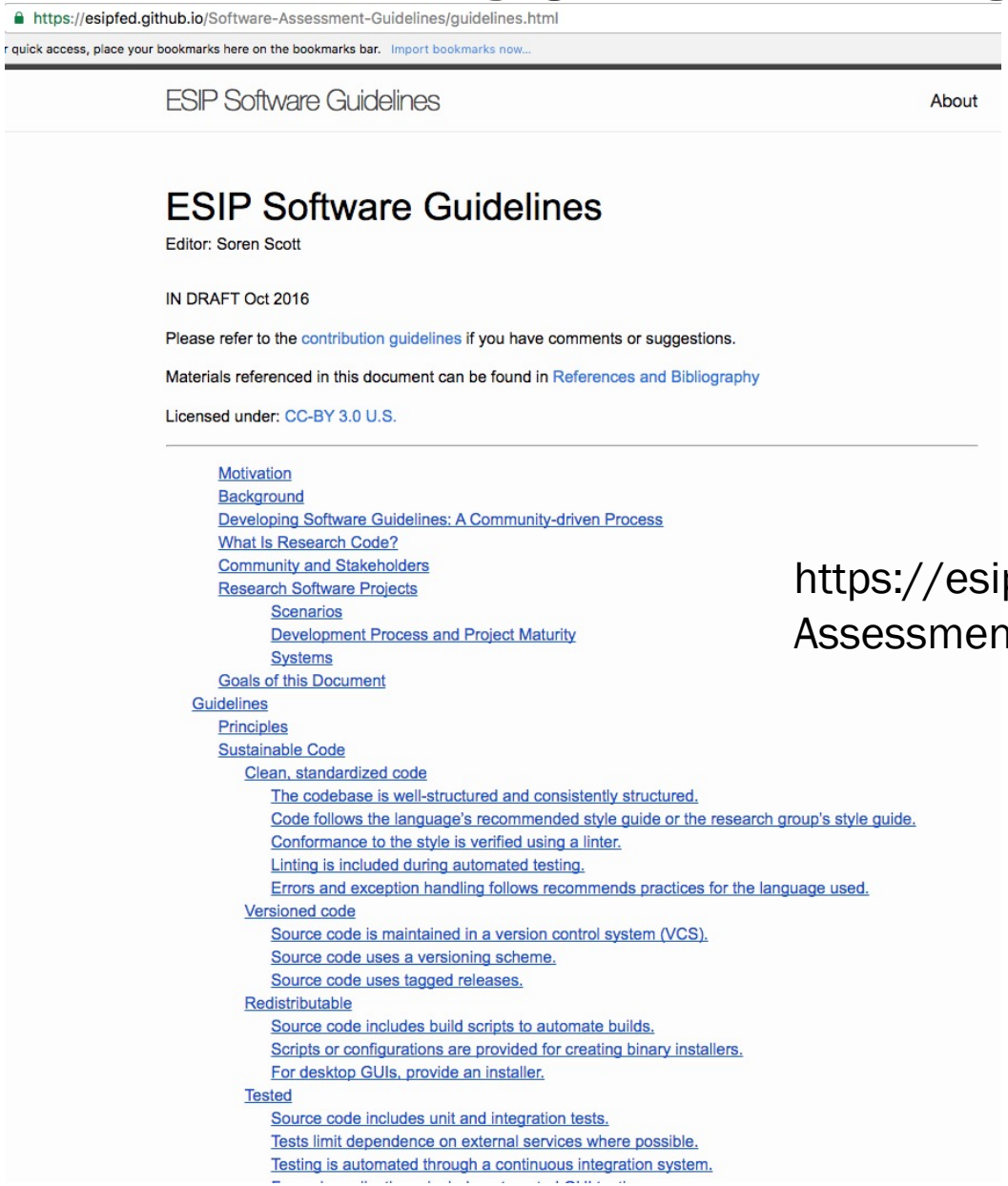


Next Tech Dive - 13 April 2017: "Processing Planetary-Scale Data in the Cloud": Drew Bollinger, Development Seed

Summary: Modern cloud-based infrastructure has had a huge effect on our ability to process, manipulate, and publish satellite imagery at scale. We'll discuss current methods of making imagery available across different platforms and how this is supported by the efforts of groups like AWS to publish open satellite data.

https://www.youtube.com/playlist?list=PL8X9E6I5_i8i070SY0UwMjGrw4UzjCmlc

SOFTWARE GUIDELINES



https://esipfed.github.io/Software-Assessment-Guidelines/guidelines.html quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...

ESIP Software Guidelines About

ESIP Software Guidelines

Editor: Soren Scott

IN DRAFT Oct 2016

Please refer to the contribution guidelines if you have comments or suggestions.

Materials referenced in this document can be found in References and Bibliography

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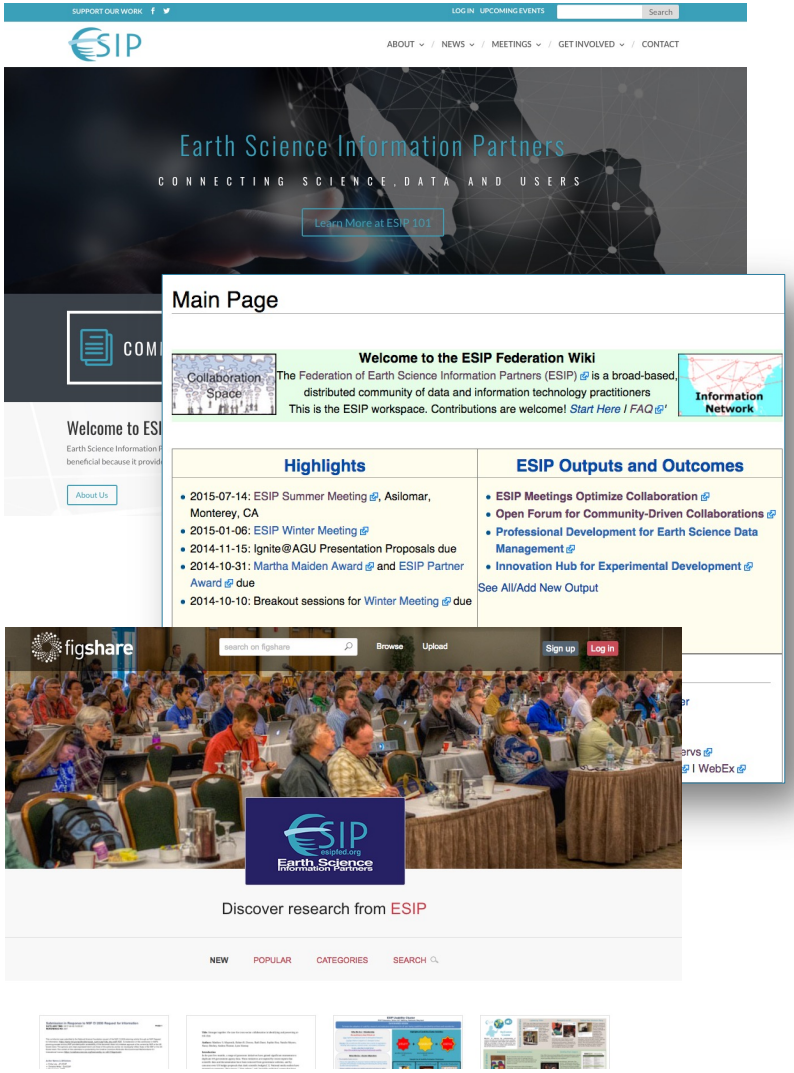
https://esipfed.github.io/Software-Assessment-Guidelines/guidelines.html

Mini-Grants for Innovation

Incubator – twice a year call to fund high risk novel ideas

2015 ESIP Summer Meeting FUNding Friday Winners

GET INVOLVED



Join us at the ESIP Summer Meeting!
July 25-28, 2017
Bloomington, Indiana
Details:
http://www.esipfed.org/meetings/upcoming-meetings/esip-summer-meeting-2017

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@ESIPFed

http://esipfed.org
http://wiki.esipfed.org
https://esip.figshare.com/

Thank you

Follow-up with Erin Robinson, Executive Director
erinrobinson@esipfed.org

DOE Cyberinfrastructure Annual Meeting

April 24, 2017