



Federation of Earth Science
Information Partners
MAKING DATA MATTER

ESIP Federation

A Different Model for Data Sharing, Professional
Collaboration and Technology Advancement

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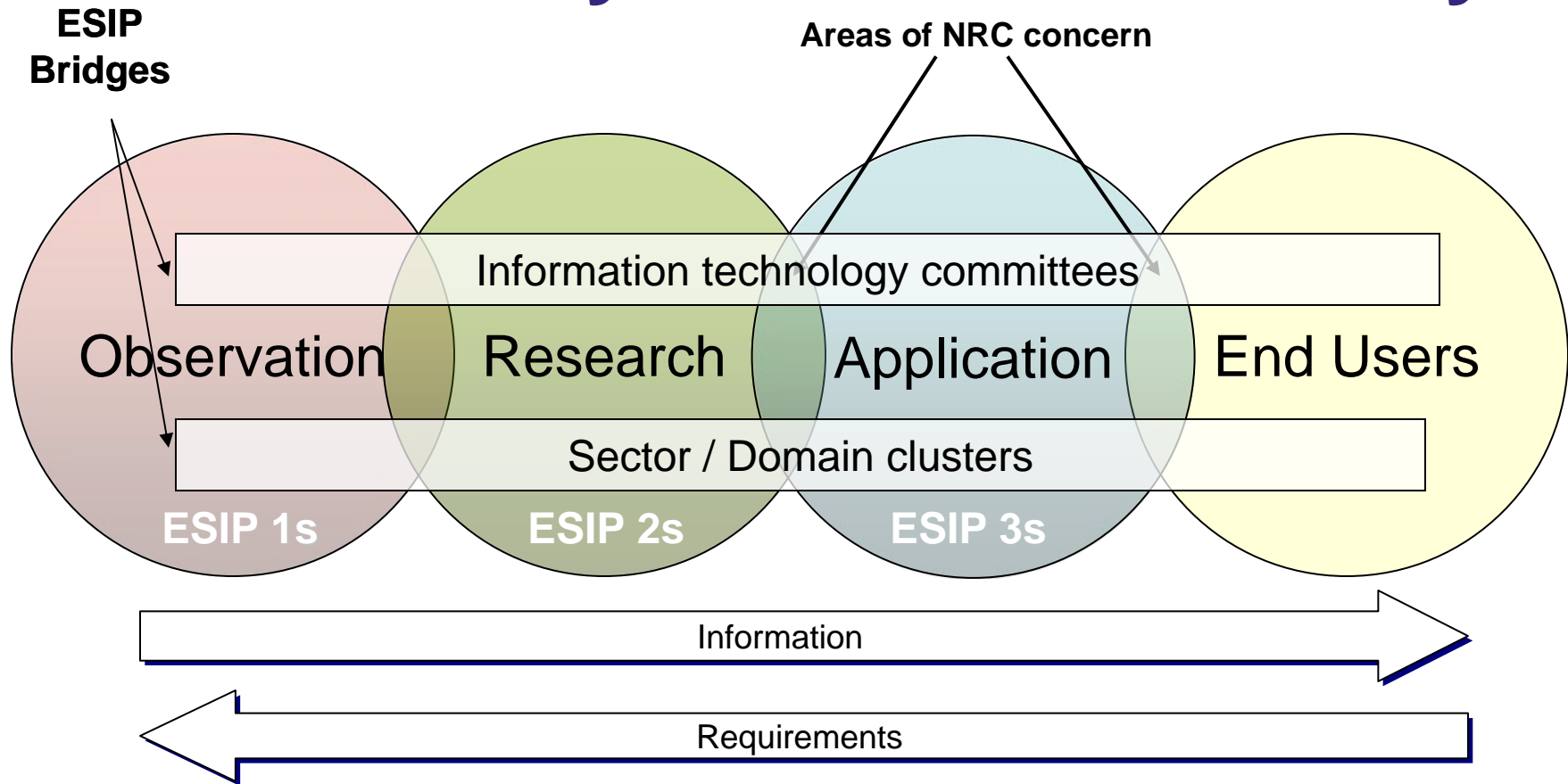
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ESIP Federation

- Consortium of 100+ Earth Science-Related Partners
 - Type I (data centers)
 - Type II (researchers & tool developers)
 - Type III (application developers – commercial & nonprofit)
 - Type IV (sponsors)
- Formed in 1998 by NASA
 - Presently, NOAA and NASA funded
 - EPA, USGS and NSF also involved
- Data- and technology-centric community
 - Membership spans continuum of interests, with small international presence
 - Neutral forum for community networking, collaboration & problem solving

Earth Science Elements As Described By the Decadal Survey*



*National Research Council. 2007. *Earth Science and Applications from Space: National Imperatives for the Next Decade and Beyond*. Washington. 437 p. <http://www.nap.edu/catalog/11820.html>



ESIP Federation Values

- Open Data Access
- Collaboration and Cooperation
- Innovation
- Commercialization



Primary Goals

- Making data usable and accessible to anyone who wants it
- Increase use of Earth science data and information
- Leveraging existing and new technologies to improve flow of data and information



Specific Educational Goals

- **Increase the use and value of Earth science data and information.**
- *Develop an understanding of communities' needs through outreach to user communities. (e.g., decision makers, **teachers, students**)*
- *Foster interactions among communities of Earth science data providers, researchers, technology developers, **educators and those who put their products to practical use.***



Why Work Together?

- Leverage expert capabilities
- Enables each partner to focus on its core expertise and ‘contract’ capabilities from trusted partners (when it makes sense)
- Community of practice encourages free-flow of ideas toward problem solving
- ESIP Federation community can be a partner in dialogue and action



ESIP Activities

■ Technical

- ☐ Systems Interoperability (standards, metadata)
- ☐ Semantic Technologies
- ☐ Web Services
- ☐ Data Preservation and Stewardship
- ☐ Workshops

■ Societal Benefits

- ☐ Air Quality and Water are active
- ☐ Climate and Disasters are coming



ESIP Activities (continued)

■ Education

- ☐ Educator workshops (professional development)
- ☐ Integrating data into teaching
- ☐ Ongoing education committee

■ Networking and Collaboration

- ☐ Meetings
- ☐ Conference calls
- ☐ Wiki



ESIP Federation Successes

- Air Quality Working Group GEOSS Pilot
 - Data from many providers & systems
 - Data synthesis into integrated system
- ESIP-Influenced Specifications
 - OPeNDAP
 - netCDF
 - OGC



ESIP Federation Successes

■ Building Communities

- Education – linking scientists with K-12 teachers and curriculum developers
 - Promoting data use by teachers and students
- Collaborations for research (40-50 proposals submitted)
- Facilitating Interagency Activities
 - NASA, NOAA, EPA, USGS use ESIP Forum to discussion data stewardship



How Can
We Help
You?

How Can We Help You?





Questions?

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