EARTHCUBE: A COMMUNITY-DRIVEN ORGANIZATION FOR GEOSCIENCE CYBERINFRASTRUCTURE

ALLISON, M. Lee, BLACK, Rachael, KATZ, Anna, KRETSCHMANN, Kate, and PEARTHREE, Genevieve; Arizona Geological Survey, 416 W. Congress, #100, Tucson, AZ 85701-1381, earthcube.org

EARTHCUBE VISION:
- Transform the conduct of data-enabled geoscience-related research
- Create effective community-driven cyberinfrastructure
- Allow global data discovery and knowledge management
- Achieve interoperability and data integration across disciplines

EARTHCUBE IS...
- Building on and leveraging existing science & cyberinfrastructure
- Community-driven, with >2,500 members and growing
- Representing all the geosciences domains

EARTHCUBE IS JOURNEY:
2011
- Dear Colleague Letters & Charrettes
- White Papers & Expressions of Interest
2012
- Roadmaps & Concept Designs
2013
- End-User Workshops & Stakeholder Alignment
2014
- Building Blocks, RCNs, & Conceptual Design Awards
2015
- Demonstration Governance phase

Diverse Geosciences Community
Agile Governance & Community-led Technology Development
Transformative Cyberinfrastructure for the Geoscience

Council of Data Facilities
- Establish partnerships among data centers and encourage communication.
- Provide information on potential for shared services to Leadership Council.

Engagement Team
- Develop communication and outreach plan for use within the EarthCube community.
- Assist Science Standing Committee in compilation and dissemination of end-user science use cases.

Technology & Architecture Committee
- Develop science use cases based on End-User Domain Workshop reports.
- Work with other committees and teams to ensure collaboration between the scientific process and technical EarthCube development.

Liaison Team
- Work with Engagement Team to develop follow-up activities in addition to the end-user science use cases.

Science Standing Committee
- Coordinate and align funded projects to foster integrated technology, identify gaps, and provide recommendations to meet end-user needs.
- Design a testbed for EarthCube components, and facilitate community convergence on EarthCube’s architecture.

Dear Colleague Letters & Charrettes
White Papers & Expressions of Interest
- Roadmaps & Concept Designs
End-User Workshops & Stakeholder Alignment
Building Blocks, RCNs, & Conceptual Design Awards
Demonstration Governance phase

Funded Teams
- Implement a strategy for proactive outreach to external partners to avoid duplication of existing initiatives.

- Over 2,500 Community Members
- $25 Million in project awards
- 27 Funded projects
- 25 Domain workshops

This material is based upon work supported by the National Science Foundation under Grant No. 1340233.

Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.