

Update on EarthCube

Unidata Policy Committee

May 2012

Status

Activities

Charrette

EarthCube
and the
Community

Awards

7 Concepts

6 Community

1 Workshop

1 Stakeholder study

Community Groups

15 active

all working on roadmaps

Activities

Website

>900 members

Frequent updates

NSF EarthCube Staff

Participation

5 GEO

3 OCI

2 CISE

~10 POs

Charrette



Dates: June 12-14



Place: Rosslyn



Attendance: 150 on-site & ~ 100 virtual (est.)



Objectives: Integrate the efforts



Outcome: Roadmaps



Enhancements: Early Career scientists & observers and provocateurs



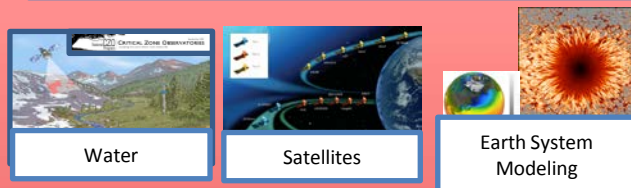
Approach: Flexible agenda

Partnership, Stakeholder Alignment and Community Engagement

EarthCube and the community

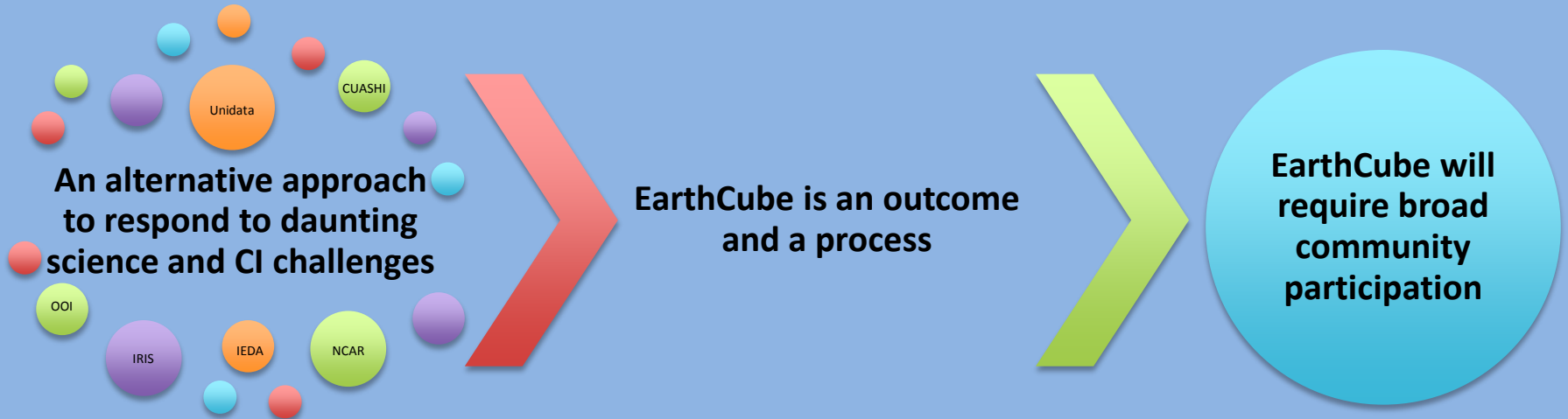
Context & Partnership

- GEO is increasing “born-digital”

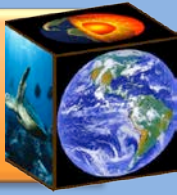


- **CyberInfrastructure For the 21st Century (CIF21)**
 - Builds national infrastructure for S&E
 - Leverages common methods, approaches, and applications – focus on interoperability
 - Catalyzes other CI investments across NSF
 - Provides focus and is a vehicle for coordinating efforts and programs
 - Based upon a shared governance model involving every directorate and office
 - Managed as a coherent program by OCI
- **EarthCube is GEO contribution to CIF21**

The EarthCube Vision



EarthCube Goal and Outcomes



Goal

To transform the conduct of research in geosciences by supporting the development of community-guided cyberinfrastructure to integrate data and information for knowledge management across the Geosciences.

Outcomes

Transform practices within the geosciences community spanning over the next decade

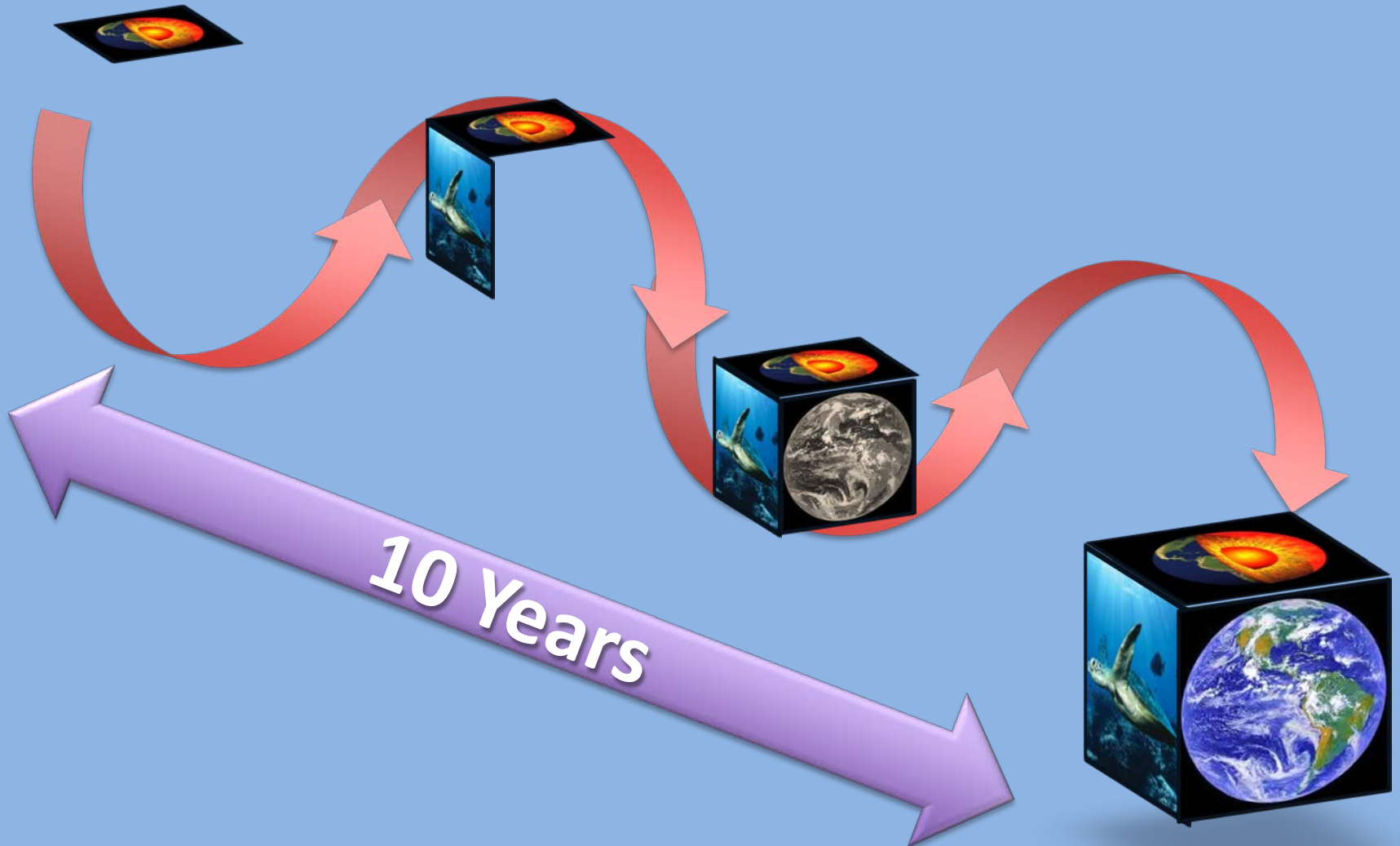
Provide unprecedented new capabilities to researchers and educators

Vastly improve the productivity of community

Accelerate research on the Earth system

Provide a knowledge management framework for the geosciences

Strategic Convergence Using “Spiral Development”



Strong but uneven engagement of the geosciences
and cyberinfrastructure communities

Recent Activities



Social Network Site

<http://earthcube.ning.com/>

~940 members to
the EarthCube
website

113 white paper
submission; 185
respondents to user
survey

~70 expression of
interest emails

12 Community
Groups

Unknown number of
hours of pro bono
contributions by the
community

Unprecedented view
of the pulse of the
geosciences
community

Significant International Engagement

Timeline

- ◆ Accelerating the Community Dialog
- ◆ Defining the initial scope of EarthCube
- ◆ New starting point for collaboration

First DCL

June 2011

July 2011

Aug 2011

Nov 2011

Dec 2011- present

**Social
Network
Site**

**EAGER
Phase**

**Webex
Community
Outreach**

**First
Charrette**



Timeline

First Awards

Charrette II

*End-user
engagement
events*

Mar – May, 2012

June, 2012

~Sept 2012

Sept -Nov 2012

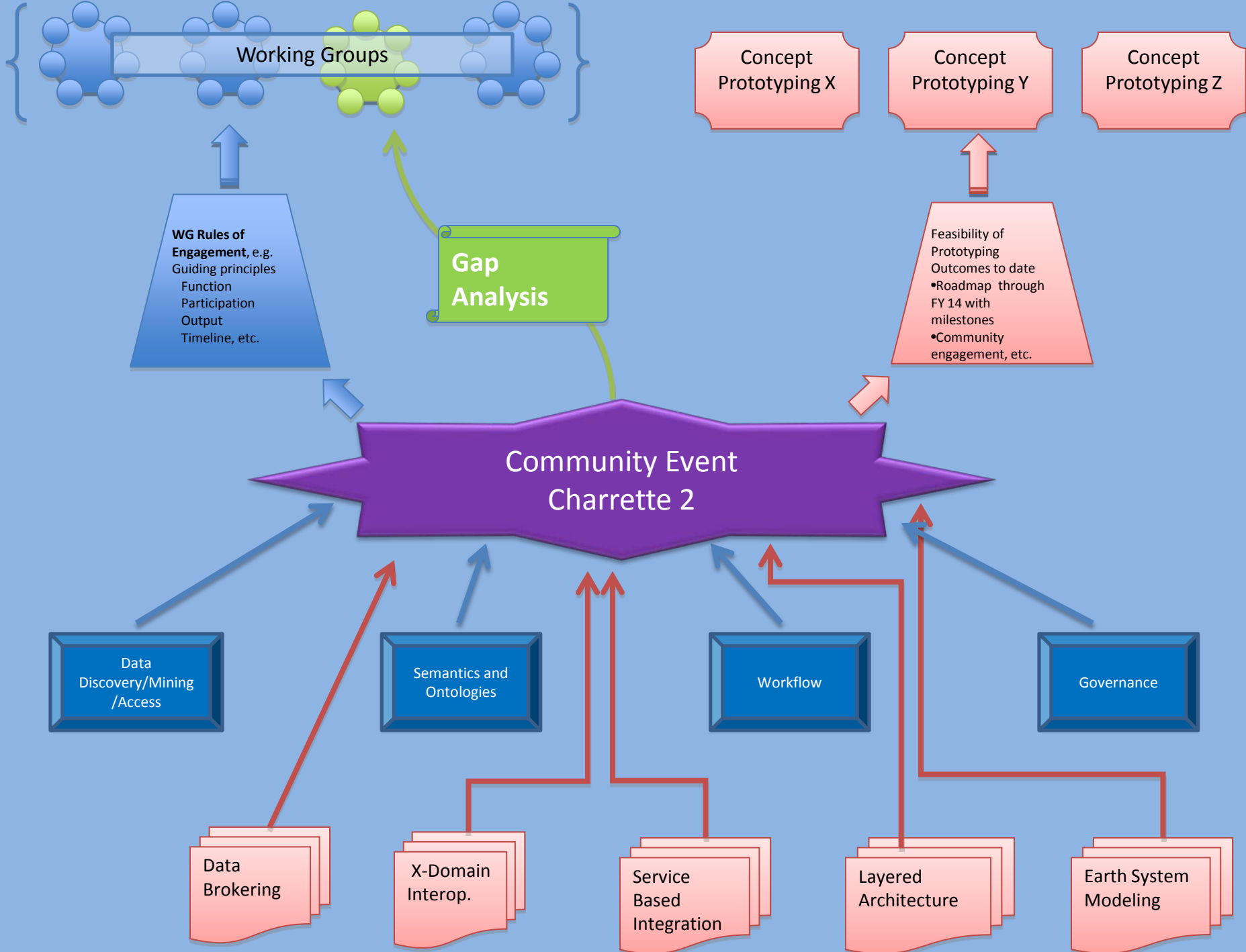
2012 -2013

**Chapeau
Solicitation**

**Chapeau
Amendment 1**

**More
EAGER
Awards?**

**Chapeau
Amendment 2**





Not Sufficient



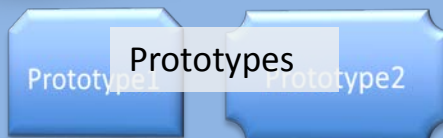
Spring 2015



Community Meeting



Spring 2014



Community Meeting



Late 2012-2013

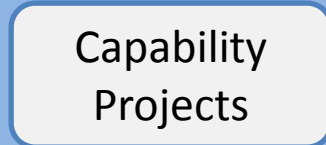


Charrette 2
Roadmaps & Design

Jun. 2012

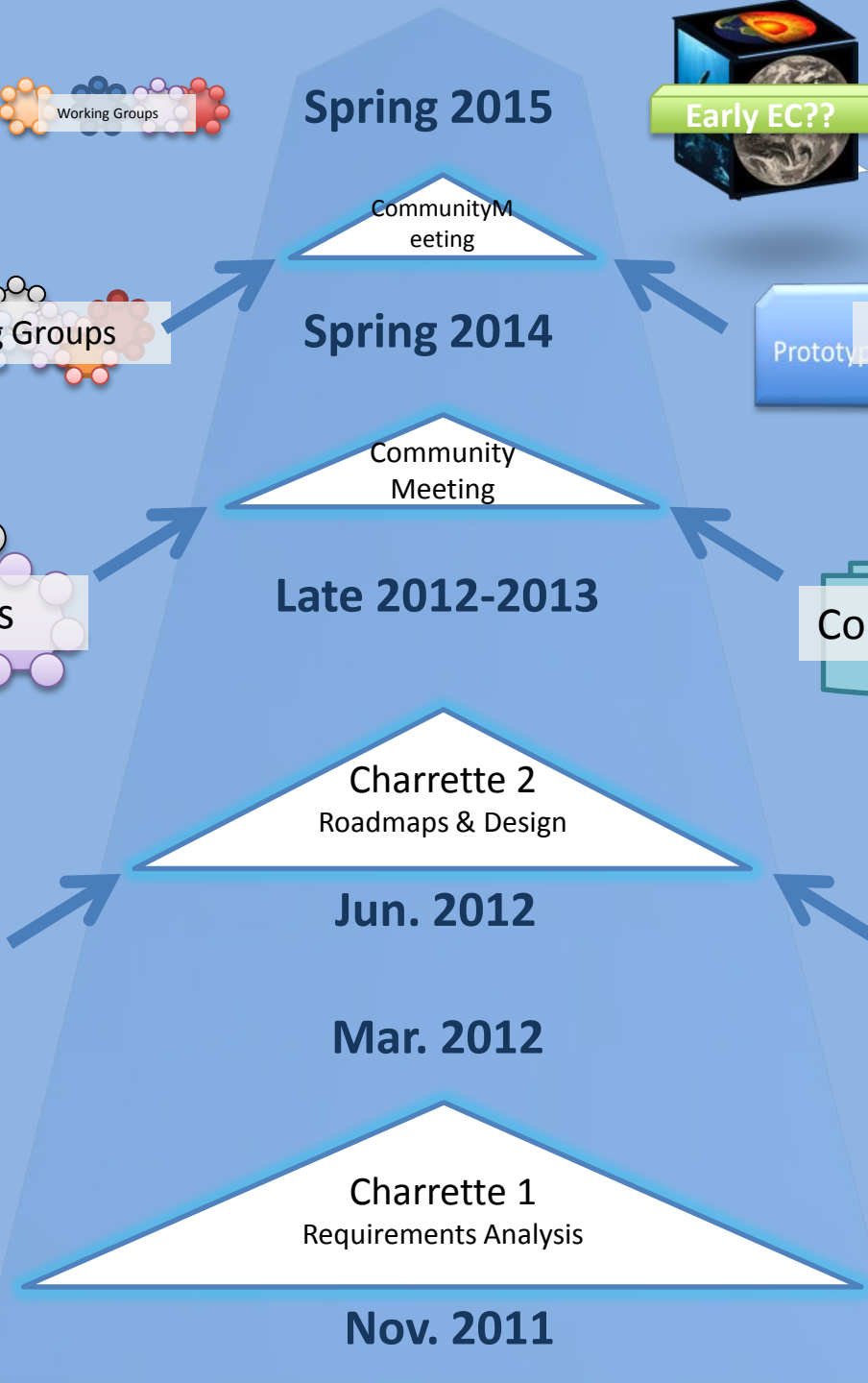


Mar. 2012



Charrette 1
Requirements Analysis

Nov. 2011



Early Results from Survey

357 responses

By Campaign

- 55 EarthCube community
- 302 Communities associated with facility or service

By Discipline:

- 245: geo
- 22: cyber
- 61: both
- 29: other

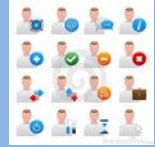
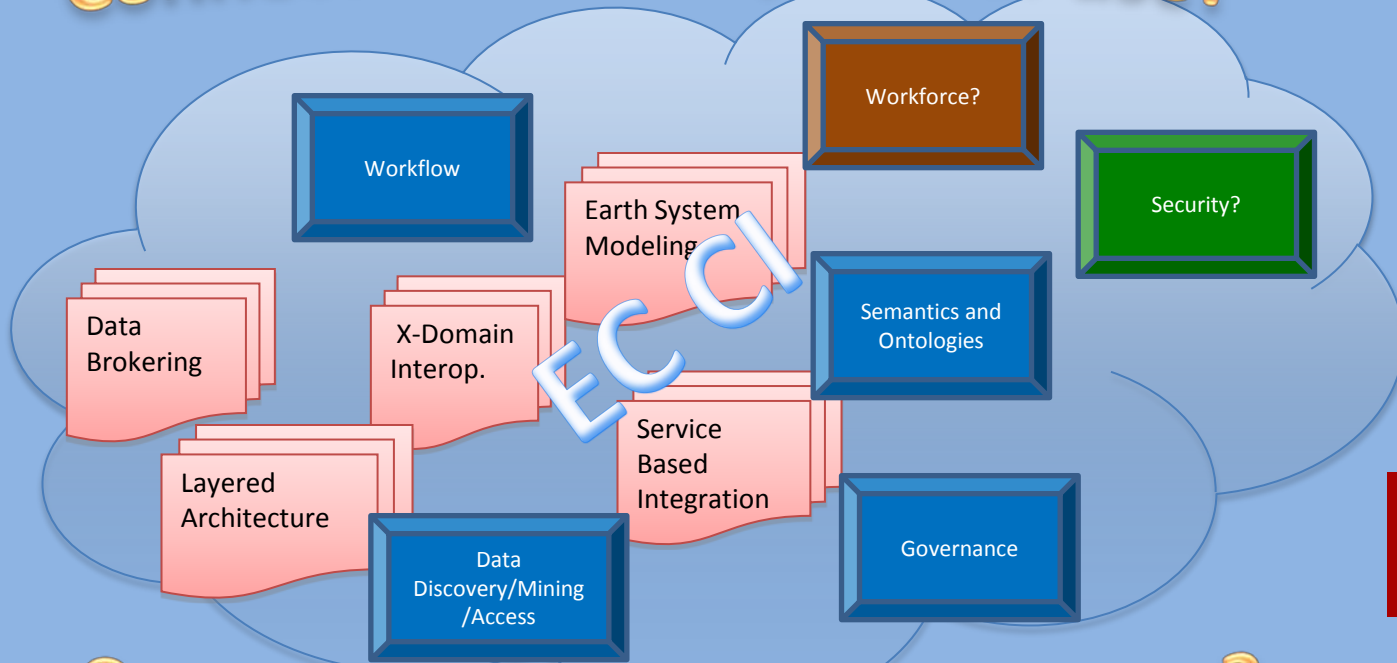
Sample Questions

- This is the first I have heard of EarthCube. 183 (51.3%)
- I am aware of EarthCube but I have no direct experience --- 93
- I have visited EarthCube's web site but I am not currently participating --- 41
- I have participated in EarthCube discussions, but I am not part of any EarthCube communities --- 20
- I am actively involved with one or more EarthCube communities --- 18
- I am assuming leadership roles within one or more EarthCube communities --- 2

Cloud of CI EarthCube Activities



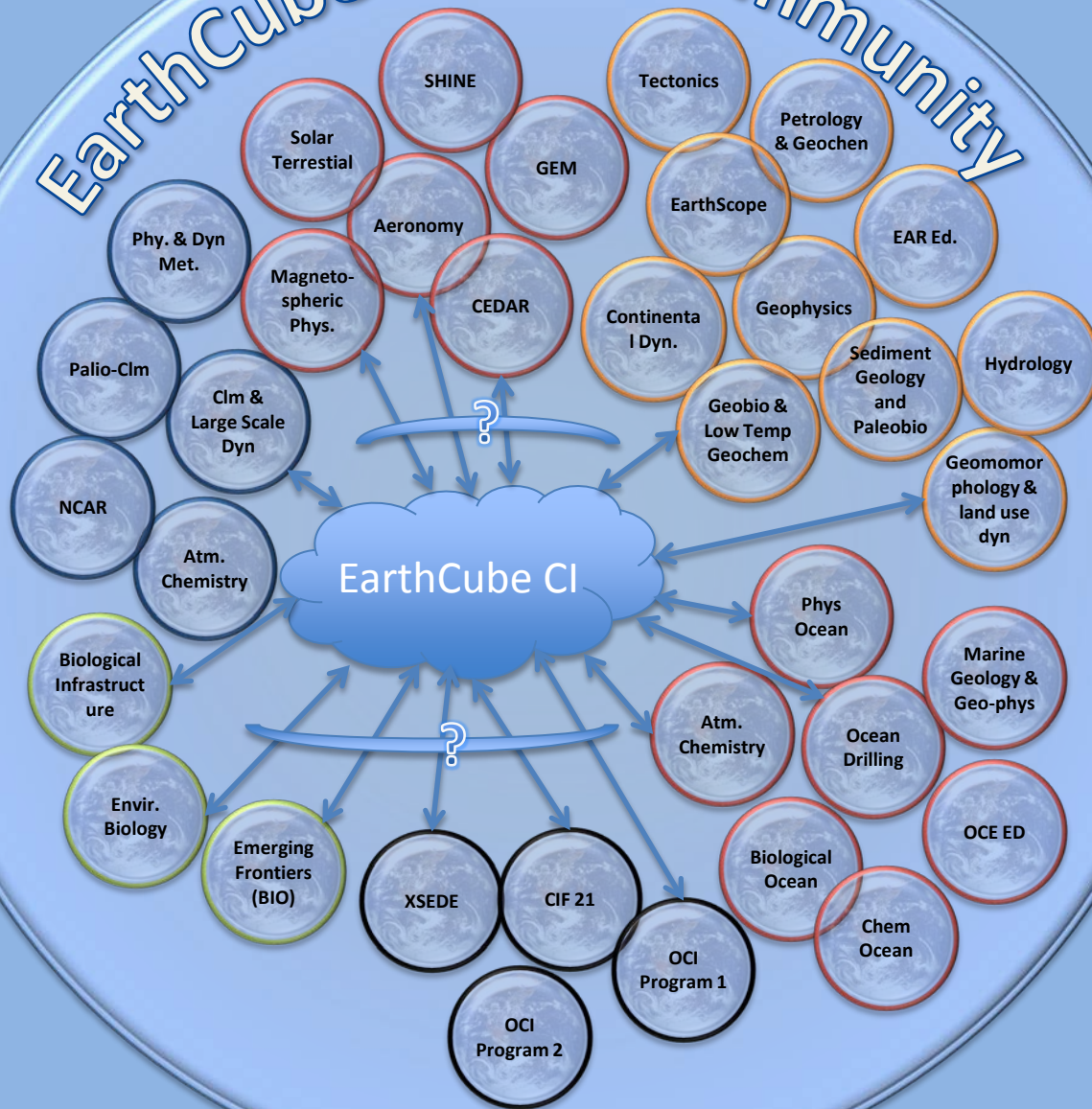
Connection to end point of use?



Connection to end point of use?



EarthCube Target Community



EarthCube Lose Ends

(What Keeps Up At Night)

- What portfolio of activities are the necessary to engage the scientific community in the development/use of EarthCube?
- How can we effectively engage our sister agencies and international partners in the dialog?
- How can NSF be a more effective facilitator of collaborative dialogs among the geosciences?
- How do you change the community culture?

Questions and/or Comments

