

EarthCube Roadmaps Overview

In March 2012, the National Science Foundation (NSF) formed and funded several EarthCube [Community Groups and Concept Award Teams](#) by merging previously-submitted EarthCube Expressions of Interest under common themes. The goal of the Community Groups ([Data](#), [Governance](#), [Semantics & Ontologies](#), [Workflow](#)) was to gather EarthCube user requirements through broad engagement of the geosciences and IT communities, while the Concept Teams ([Brokering](#), [Earth System Model](#), [Layered Architecture](#), [Cross-Domain Interoperability](#), [Web Services](#), [Open Hydrospheric Modeling Framework \(OHMF\)](#), and [Dark Geo Data](#)) evaluated and prototyped innovative key technologies.

Each of the [EarthCube Community Groups](#) and [EarthCube Concept Teams](#) was tasked with writing a roadmap regarding how to move their area of EarthCube forward. These [roadmaps](#) were the culmination of six months of research, community outreach, and deliberations in virtual and physical meetings, and they identify initial EarthCube stakeholders and cyberinfrastructure components, in addition to key issues regarding how to advance EarthCube.

The roadmaps also served to collectively provide NSF and other interested parties with a cross spectrum of ideas and concepts from the Earth, computer, information science and other stakeholder communities regarding key elements needed to build EarthCube. The Community Groups and Concept Teams presented their roadmaps to NSF and the EarthCube community at the [June 2012 EarthCube charrette](#) (community event).

Following the June '12 charrette, each group updated and modified its roadmap. The roadmaps presented here are current as of September 2012. The groups are now in the process of analyzing their roadmaps for gaps and overlaps, with the goal to forge a path forward for EarthCube.