**EarthCube Scenarios:**

**(Helping NSF and Cyber/Computer Scientists Understand How You Do Your Science)**

**Introduction:** NSF is in the process of collecting from geoscience end-user communities, and making public on the EarthCube website (<http://earthcube.ning.com/>), information and building requirements for what EarthCube will need to be and do. We are asking you to provide us with “scenarios” that will help us understand the things that are important to you and that you feel will transform the way you do science, perhaps allowing you to work on problems that are presently not possible to attack because of issues related to knowledge or data management. Part of the goal of EarthCube is to radically advance your ability to model, find, access, or otherwise process the vast wealth of geo and environmental data that is now available, or will become available in the future. Scenarios can either be science- or cyberinfrastructure-based, depending on the science/cyber development you want to do and what your needs are.

Please help us understand your needs more fully and construct those you feel it is important for us to consider and that you feel are critical for advancing science. Send all entries to Genevieve Pearthree (genevieve.pearthree@azgs.az.gov), who is presently managing the EarthCube website, and who has kindly agreed to collect and collate the entries for us and make them publicly available on the EarthCube website. Below are critical components of any Scenario that you would like to submit and the order in which we would like to have the information presented so scenarios are easy to compare and contrast.

1. Point of Contact (POC) for the scenario, institutional/group affiliation, and POC contact information (i.e., email, phone, URL, etc.).
2. Brief title.
3. 2-3 sentences on the Scenario goal.
4. 2-3 sentences on why the Scenario is useful to your science and/or the broader geoscience community.
5. Bulleted list of data, observations, tools, utilities, models, etc. required to accomplish the work, with a note indicating those that are not currently available or that are not accessible to you and why.
6. Bulleted list of the expected results/deliverables (i.e., conclusions, models, studies, data products, conclusions, etc.)
7. Graphic illustrating project workflow, a model of what you are studying, or some other visualization that might help us understand your Scenario or its products (optional).