



Tsukuba, Japan October 19 – 21, 2009

Deliverables and Objectives:

For the Tsukuba meeting, we will focus on continuing the active development of the draft IESP roadmap and we will be breaking into working groups for that purpose.

Deliverables:

- Continue development of a coordinated software roadmap by working with the draft framework created on the basis of the first two workshops
- Discuss and validate the highest level stakeholder requirements for a common exascale software stack (X-stack)
- Evaluate the listing and categorization of X-stack components and technology areas in the draft roadmap with particular attention to missing or superfluous elements
- Continue the creation of a thorough assessment of needs, issues and strategies for each element of the X-stack identified in the revised draft of the roadmap framework
- Create a strategy for catalyzing, coordinating, and sustaining the effort of the international open source software community to create that environment as quickly as possible

Objectives:

- Provide a framework for organizing the software research community
- Encourage and facilitate collaboration in education and training
- Engage and coordinate vendor community in crosscutting efforts
- Develop a common, high quality computational environment for peta/exascale systems

The Roadmap

Successful roadmapping generally involves planning, identifying needs, establishing process requirements and/or recommendations, and conducting periodic assessments of the roadmap itself. The roadmap should:

- Specify ways to re-invigorate the computational science software community throughout the international community.
- Include the status of computational science software activities across industry, government, and academia.

- Be created and maintained via an open process that involves broad input from industry, academia and government.
- Identify quantitative and measurable milestones and timelines.
- Be evaluated and revised as needed at prescribed intervals.
- Roadmap should specify opportunities for cross-fertilization of various agency activities, successes and challenges
- Agency strategies for computational science should be shaped in response to the roadmap
- Strategic plans should recognize and address roadmap priorities and funding requirements.