

Governance (1)

- Developing a governance, management and organizational structure for IESP
- Exploring ways for funding agencies to coordinate their support of IESP-related R&D so that they complement each other
- Exploring how laboratories, universities and vendors can work together on coordinated HPC software
- Creating a plan for working closely with HW vendors and applications teams to co-design future architectures

Governance (2)

- Why bother? Business case
- Lifetime – scope – is it a project or a program?
 - Might be a project that evolves? IESP is a facet.
 - End time strategy
- Will there really be a big jump? What is the big difference? Number of threads exceed personal capacity to deal with complexity.
 - Business case/justification, extension of commercial efforts
 - Cost of not doing the software
 - Problem definition and process (R&D or development?)

Governance (3)

- Governance for a large investment
- Loose, joint, coordinated, legal framework
- Alignment or misalignment of interests
 - Commitments and benefits
- Business case to be defined for each funding agency
 - Use of the systems by applications scientists
 - Technology development
 - Workforce development

Governance (4)

- Coordinated calls for proposals
- G8 HORCS is an experiment to be tracked
 - Researchers getting the funding at the same time
 - Will not produce specific deliverables/software
- Delivery of resultant software critical
- Investments in grids – resultant software are not interoperable
- Clear, concise and well-defined roadmap
- International Linear Collider is non-legal entity

Governance (5)

- Generate a roadmap, split it up and fund it separately
- Common roadmap, competing funding – result not productive
 - Now in an uncoordinated environment
- Risk mitigation strategy for the entire international community
- Co-design is necessary this time, etc.

Initial Thoughts on Governance (1)

- International software roadmap group funded by government funding agencies
 - Periodic (semi-annual/annual) updates
 - Contingency planning
 - Clear definition and identification of open source components
 - Open source development project
- Deliverables funded by agency
- International coordination/monitoring team funded by gov't funding agencies
 - Keep up to date on the status of the software efforts
 - Provide non-binding information to the funding agencies and to the software roadmap group
- Software roadmap group keeps up with the international coordination team

Initial Thoughts on Governance (2)

- Vendor interactions for co-design?
 - Software/hardware
 - TBD
- Testing resources (cases and platforms) need to be identified and organized
 - TBD
- Need funding agencies to have effective coordination
 - Separately funded efforts that are coordinated
 - Demonstrable commitments to the project