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