

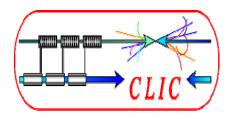


Summary of Cost & Schedule Working Group

Hans Braun, John Carwardine, Katy Foraz, Peter Garbincius, Tetsuo Shidara, Sylvain Weisz

CLIC/ILC Collaboration: 08/02/08

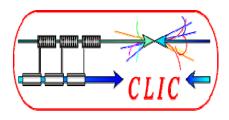
Cost/Schedule Working Group



Highlights



- First time the groups had got together
- Discussions were very positive and constructive.
- Strong interest in continuing discussions and find ways to work together.
- Some specific items have been identified that we can work on together.

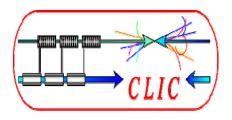


Discussion topics



- 10:15-10:20 Reminder of ILC Confidentiality Protocol
- 10:20-10:55 ILC Presentation
 - RDR Estimate instructions, format, basis, status, evolution into TDR est.
 examples: Klystrons & Modulators, Beam Delivery System, Schedules
 - ILC Project Management Plans
 - Discussion of needs and desires
- 10:55-11:30 CLIC Presentation on status and discussion of needs & desires
- 11:30-11:45 Integrating parametric studies
- 11:45-12:15 Common CLIC-ILC Cost & Schedule Activities
 - Goals what we need to work on
 - Plan on how to work together
 - What can we expect to deliver over what timescale?

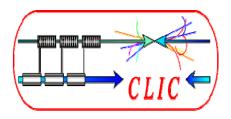
Note: we could not arrange a joint parallel session with Civil Engineering & Conventional Facilities (maybe this can be done by webex...)



Discussions



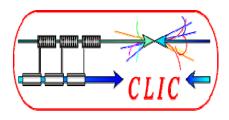
- Both groups have focused on estimating costs from the bottom up.
- More work to be done on integrated system cost optimization, eg
 - Space utilization, other civil requirements.
 - Cooling water delta-T
 - Magnet design guidelines and families.
- Discussion on how best to combine cost risks from individual elements to a global cost risk.
- How does the business model impact cost...?
 - ILC: assumes inherently based on in-kind contributions.
 - CLIC: assumes centralised funding model



Tools



- Both groups have so far used Excel as primary costing tool.
- Both groups are looking for tools for integrating cost estimate data and to do parametric analyses, eg
 - Raw material costs, inflation rates, effort costs, etc
 - Changes in scope or requirements.
 - Consensus that Project Management cost/scheduling tools are not inherently the right tools for managing and analysing the cost estimates.
- ILC is planning to migrate to enterprise project management tools during ED phase (Primavera)



Next steps...



- Establish a certain functionality for cost data analysis, eg parametric studies, risk assessment
 - Aim to develop and share tools together
 - Start small, migrate towards enterprise tools.
- See benefit in comparing costs for certain items, eg
 - Modulator costs.
 - (confidentiality means we will need management approval)
- Compare high level methodologies & assumptions
 - Understand each others' methodology.
 - Understand how to compare cost estimates in a straight forward way.
 - Avoid unnecessary duplications of effort.