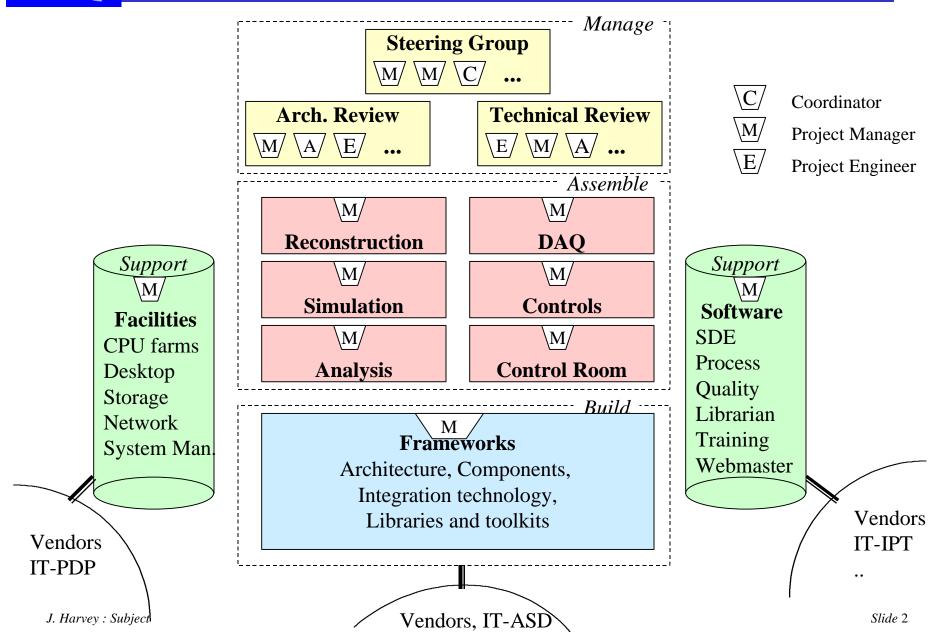
Project Planning and Tracking

J.Harvey

Kick LHCb Computing Project Organisation



Hees Project Baseline

O Define Work Breakdown Structure (WBS)

- Scope and details of all tasks to be done
- I dentify manpower available define roles
- O Estimate costs to produce a budget profile
- Schedule tasks by assigning manpower
- Set milestones at project and sub-project levels
- O Deliverables resource-loaded project plans

Kick Project Plans – MSProject Template

			1	1	[2003	2004		20	
ID	WBS	0	Task Name	Start	Finish	Actual Start	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1 Qtr 2 Qtr 3 Qtr 4	Qtr 1	Qtr 2	
1	0		Detector fabrication	Wed 31/12/03	Thu 26/5/05	NA	l			/♥	
2	0		Electronics Barracks ready	Wed 31/12/03	Wed 31/12/03	NA	•	31/12			
3	1.2		Map magnet	Thu 26/5/05	Thu 26/5/05	NA					
4	0		VELO install	Mon 26/1/04	Thu 1/4/04	NA					
5	1.4		VELO initial checkout	Fri 2/4/04	Fri 2/4/04	NA		2/4			
6	0	1	Detector commissioning	Mon 26/4/04	Fri 13/8/04	NA					
7	0		VELO readout install & test	Mon 26/4/04	Tue 1/6/04	NA		_			
8	0		VELO system-level test	Wed 2/6/04	Fri 13/8/04	NA					
9	0	1	Cosmic ray run	Tue 14/9/04	Mon 13/12/04	NA					
10	0	🎫 🍥	Comp. Avail for Detector Commis.	Tue 14/9/04	Mon 13/12/04	NA					
11	0	🎫 🍥	LHCb assembly complete	Mon 3/1/05	Mon 3/1/05	NA			→ 3/ ²		
12	0	💷 🌭	Detector ready to move on beam-line	Mon 28/3/05	Mon 28/3/05	NA			•	28/3	
13	0		Cosmic ray run on beam-line	Wed 1/6/05	Tue 28/6/05	NA					
14	0	1	Detector ready for colliding beams	Tue 28/6/05	Tue 28/6/05	NA					
15	1		Online Infrastructure	Mon 3/3/03	Thu 12/1/06	Mon 3/3/03					
16	1.1		Interactive Stations	Fri 1/8/03	Fri 14/1/05	Fri 1/8/03	│				
17	1.1		Initial complement	Fri 1/8/03	Mon 15/9/03	NA		$\frac{1}{2}$			
18	1.1		Final complement	Fri 16/1/04	Fri 14/1/05	Fri 16/1/04					
19	1.2		Event Filter Farm	Fri 30/1/04	Thu 31/3/05	Fri 30/1/04					
20	1.2	</th <th>Build EFF prototype</th> <th>Fri 30/1/04</th> <th>Fri 30/1/04</th> <th>Fri 30/1/04</th> <th></th> <th>♦ 30/1</th> <th></th> <th></th>	Build EFF prototype	Fri 30/1/04	Fri 30/1/04	Fri 30/1/04		♦ 30/1			

Kick Project Performance

- Compare work performed against work scheduled
- Ocompare actual cost against the budgeted cost

OProduce status reports at regular intervals

- Narrative from project leader describing status of technical work, accomplishments, problems and corrective action
- I dentify completed milestones, slippage and fraction of work planned and completed
- I dentify critical path items for each project

Frequency ? – quarterly?

➤ Reports to be logged centrally

Kick Practical Details

- PL defines WBS for project and sub projects using MSProject template
- Set <2-3 milestones for each working interval of project
 - > Defined during periodic workshops (~4 mths)
 - interdependent with milestones for other projects
- PL makes status report for each working interval

Every 4 months i.e. ~3 times per year

O Planning monitored by Steering Group

Kick Steering Group

○ Steering Group comprising project leaders :

- ≻GAUDI Pere
- ➢ BRUNEL Marco
- ➤ Simulation Florence
- ➤ Facilities Frank
- ≻ Controls Clara
- ► DAQ Beat
- ≻ Chair John
- ► I T Liaison Tony
- LHCb Management I oana
- O Meets monthly to discuss all aspects of planning
- O Minutes on LHCb web

Heriodic Reviews

Provide a critical perspective and means to validate work.

○ Can be of at least 3 types:

►Internal to collaboration

Informal and frequent e.g. workshops (software weeks)

→ Update documentation, review priorities

➤External to collaboration

→Formal and infrequent

Summarise findings in a report

→Setup advisory panel?

➤Review bodies

→On demand e.g. LHCC