

WBS Update and Upcoming tasks

David Warner, Ettore Segreto and
Leon Mualem

10/24/17

WBS Status

- We have received WBS updates from all the working groups-- Thank you!
- Leon and I are working to integrate them into the draft unified WBS today
 - New WBS draft must be sent to TB by the end of today (Tuesday, 10/24/17)
- A new draft of the WBS will be posted **Wednesday AM 10/25**. We will need to have initial interests/aspirational responsibilities appended to it by **FRIDAY 10/27!!!**
- WBS format was modified at the request of project management
 - Integration and photo sensor groups already modified to fit new structure

High-Level Structure

- L0 (now):
 - SP
 - DP
- L0 (future):
 - SP1
 - DP1
 - SP2
 - DP2
- L1:
 - APA
 - SP-ELE
 - SP-PDS
 - CRP
 - DP-ELE
 - DP-PDS
 - HVS
 - DAQ
 - SC/CI
 - TC

PD Consortium
WBS lines start
With 1.3

High-Level Structure

- L2:
 - Management (includes milestones & review dates)
 - Physics & Simulations
 - Design, Engineering, and R&D (includes subsystem test facilities & QA)
 - Production Setup (includes tooling)
 - Production (includes component production, assembly, testing, & QC)
 - Integration (contributions to activities at global integration facility)
 - Installation (contributions to activities at SURF)
- SO: FD1 SP Photosensor Management would be 1.3.1

Mid-Level Structure

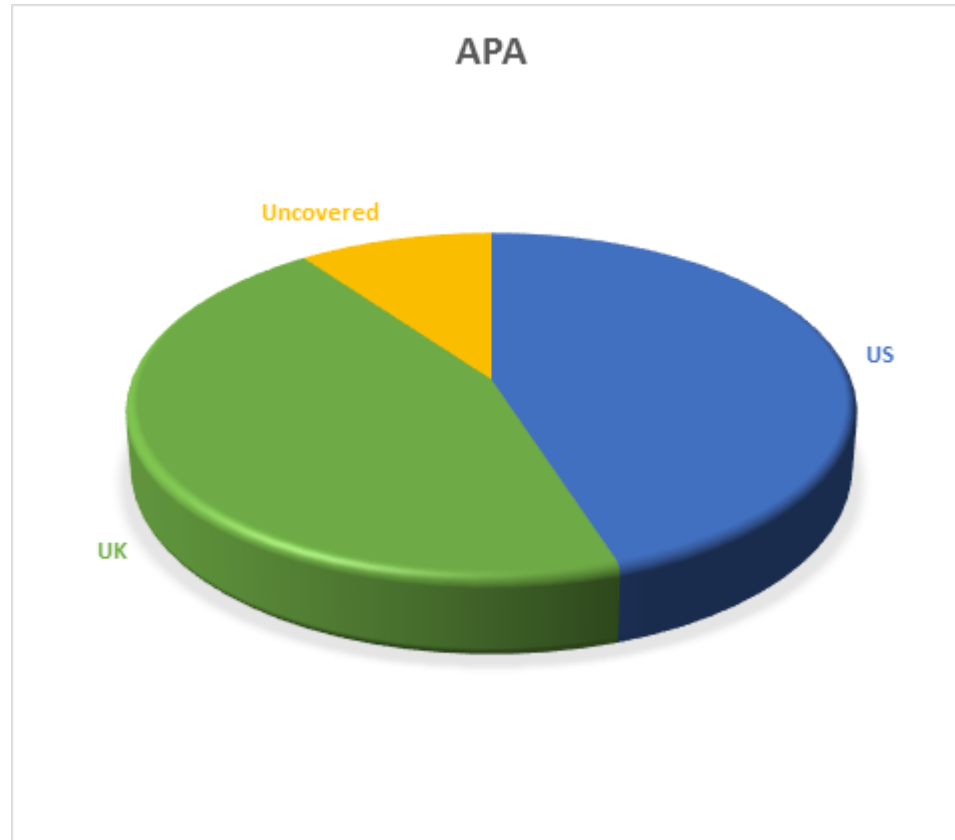
- L3: Working group divisions
 - .1 Light Collector WG
 - .2 Photo Sensor WG
 - .3 Electronics/Cable/Calibration WG
 - .4 Integration WG
 - .5 Software and Physics WG
- WBS Entries also color-coded for clarity (?)
- WBS 1.3.1.1 = FD1, Photon Detector, Project Management, Light Collector

WBS	Description	WBS Dictionary
1	Single Phase 10KT 1	
1.3	Single-Phase Photon Detector System	
1.3.1	Project Management (Milestones, Reviews)	
1.3.1.1	Light collector WG Project Management	
1.3.1.1.1	Final light collector Technology Review	Review of primary and alternate PD designs
1.3.1.1.2	Light collector Technology Final Selection	Milestone for selection
1.3.1.1.3	Light collector pre-production review	Pre-production review of light collector
1.3.1.1.4	Light collector production QC setup complete	Milestone
1.3.1.1.5	Light collector production start	Milestone
1.3.1.1.6	Light collector first article delivered	Milestone
1.3.1.1.7	Light collector final article delivered	Milestone
1.3.1.2	Photo Sensor WG Project Management	
1.3.1.2.1	Photo sensor pre-production review	Pre-production review of Photo Sensors
1.3.1.2.2	Photo sensor production start	Milestone
1.3.1.2.3	Photo Sensor production QC setup complete	Milestone
1.3.1.2.4	Photo sensor first article delivered	Milestone
1.3.1.2.5	Photo sensor final article delivered	Milestone
1.3.1.3	Electronics/Cables/Calibration WG Project Management	
1.3.1.3.1	Electronics/cables pre-production review	Pre-production review of Electronics/cables
1.3.1.3.2	Electronics /cables QC test station complete	Milestone
1.3.1.3.3	Electronics/cables production start	Milestone
1.3.1.3.4	Electronics/cables first article delivered	Milestone
1.3.1.3.5	Electronics/cables final article delivered	Milestone
1.3.1.3.6	Calibration/monitoring pre-production review	Pre-production review of Calibration system
1.3.1.3.7	Calibration/monitoring QC test station complete	Milestone
1.3.1.3.8	Calibration/monitoring production start	Milestone
1.3.1.3.9	Calibration/monitoring first article delivered	Milestone
1.3.1.3.10	Calibration/monitoring final article delivered	Milestone
1.3.1.4	Integration WG Project Management	
1.3.1.5	Software and Physics WG Project Management	
1.3.2	Physics and Simulations	

Institutional Interests

- Once the WBS draft is finalized, the consortia will be asked to attach institutional interests to specific WBS items where appropriate
 - It's understood that not every WBS element will have an attached institutional interest at this point in time
 - Need to have these in place by **Friday, October 27**
 - At the RRB, we will show pie charts that attempt to summarize institutional interests within each consortia (example on next slide)
 - The information contained within the pie charts will be qualitative rather than quantitative, and we will plan to discuss these with each consortia leadership team

Example Pie Chart



Other Activities

- We still need required consortia R&D activities in 2018/2019 for producing TDRs
- We will need to coordinate and prioritize these activities within the consortium and present a coordinated plan to management along with our funding request.
- Each consortia should be preparing a schedule of activities in 2018/2019-- By Monday 10/30

Post-RRB

- The next major milestone for the consortia will be completing the Technical Proposal by April, 2018
- Technical proposal will include
 - Written description of proposed subsystems and any alternatives under consideration
 - Updated WBS and associated list of institutional interests
 - Initial subsystem cost estimates
 - Initial draft of schedule for construction activities
- Will need to start planning in early November for how to accomplish this in the six months available