

Administrative

- EIC@IP6 Far-Forward Conveners
 - Alex Jentsch (<u>ajentsch@bnl.gov</u>)
 - John Arrington (jarrington@lbl.gov)
- Weekly meetings unless there are not updates on a particular week, or for a holiday (i.e. May 31st – Memorial Day).
 - Meetings will be on Mondays @ 1:30pm EDT.
 - Slides will be stored on the Indico (https://indico.bnl.gov/category/370/)
- If you have a topic you'd like to make a presentation on, simply email us and we will put you on the schedule for the next meeting.
- If you haven't already, please join the mailing list: https://lists.bnl.gov/mailman/listinfo/eic-ip6-det-fwd-l

General Goal

- Produce a solid proposal!
 - Also lay the groundwork for studies that will naturally be beneficial to the TDR and CD-2 process.
- This effort must be much more focused than the Yellow Report. Choices need to be made that we can defend on the basis of performance, cost, and integration.
- We have *very* limited space in the proposal, and limited time to run simulations.
 - We need to coordinate simulation work, and decide on just a few (2-3) relevant performance plots to include.
- The FF region is a bit of a unicorn most central detector aspects have little impact on design, aside from DAQ.

Specific Goals

Choose technology for the far-forward detector subsystems.

- No more than two options.
- Must be able to provide information on costing and integration.

• Estimate services, supports, and active materials.

- What support structures are needed to hold the detectors?
- Cabling, readout, cooling, etc.

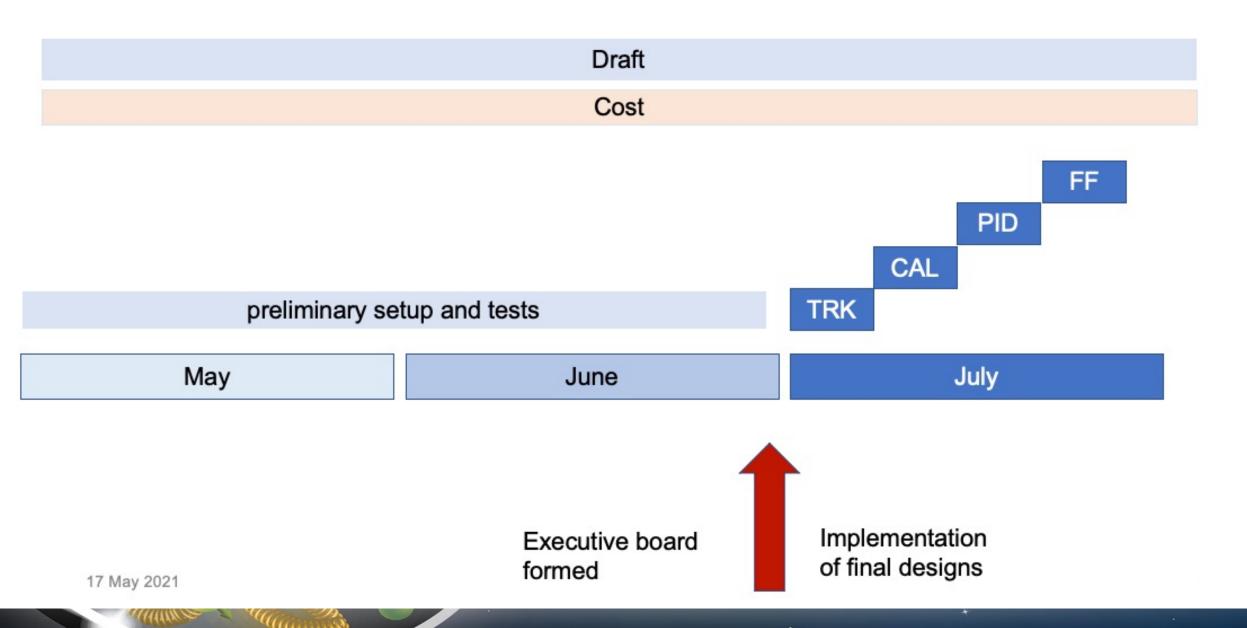
• Integrate into global simulation model and demonstrate that the subsystems interact well.

- The software team will help with this but essentially, make sure your work can be included in the global simulation.
- Currently used frameworks will continue to be used (e.g. Fun4All, EicRoot, etc.).
- Key studies from the YR will be identified to demonstrate performance of fully-integrated system.

Provide reasonable estimates of cost.

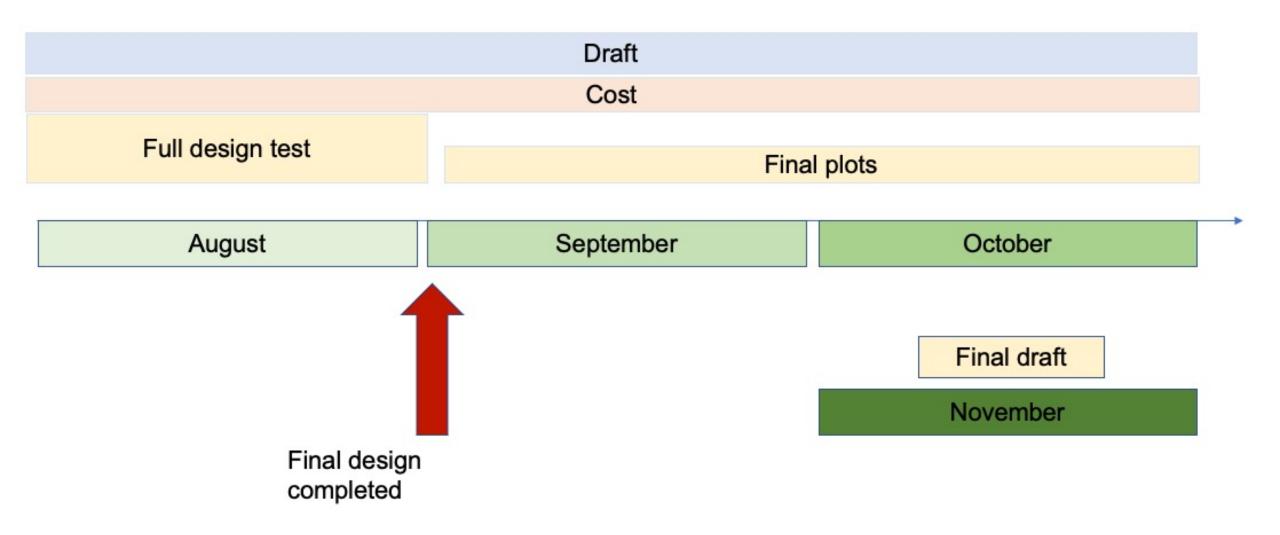
This will greatly benefit from people who have past experience building subsystems.

Timeline



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17 May 2021

Takeaways

- The timeline is aggressive, and we have limited resources.
 - Need to be strategic with simulations, and realistic with estimates.
- You do not need to run simulations to contribute!
 - If you have experience building or maintaining a subsystem from a past or present effort, consider making a presentation about a topic that could be useful.
 - Cooling, readout, timing, lessons learned, what went wrong and is useful to consider for the next generation of experiments, etc.
- Lots of work has been done in the YR era let's build on this foundation and the shared experience of the group!
- Questions?