

First GD/ Convener Meeting

April 28, 2022

Indico: <https://indico.bnl.gov/event/15540/>

Attending: Elke, Jin, Richard, Silvia, Thomas

Agenda

- Charge/Scope/Goal
- Kick-off Meeting
 - ▶ Scope, goals
 - ▶ Date/Time
- Regular Meetings
 - ▶ Form (open, close, both?)
 - ▶ Date/Time
 - ▶ People needed to attend
- Tomorrow's Meeting
 - ▶ Short presentation (who, what to say?)
- Other

Charge

We would like to start by expressing our gratitude to all of you for agreeing to co-convene the Global/Integration joint working group in the interim phase between now and the formation of a Detector 1 collaboration. Your work is a great service to the EIC community and will be instrumental to the success of the EIC physics program.

The purpose of this email is to communicate the global charge to your working group and solicit your input on developing the charge elements that are specific to your working group. A document with the global charge to the detector and physics working groups, as well as the WG structure and conveners is attached to this email.

Your working group is fundamentally quite different from the joint detector and physics working groups that have been recently formed, in that we are asking your working group to take a broad view of the EIC project detector as it evolves to a technical design. The global charge to your WG is as follows:

- Work with the project and the joint working group to develop a detailed, integrated technical design of the project detector. This includes the integration of various detector systems, the necessary supports and services, and the requirements imposed by the ability to service the detector between EIC running periods.
- Work with the detector and physics working groups, as well as project management, to ensure that the integrated project detector remains capable of the full science program outlined in the EIC Whitepaper and NAS report. Where compromises need to be made in the integration of the project detector, ensure that the proper simulations studies are completed to ensure they do not unduly compromise the EIC science program.

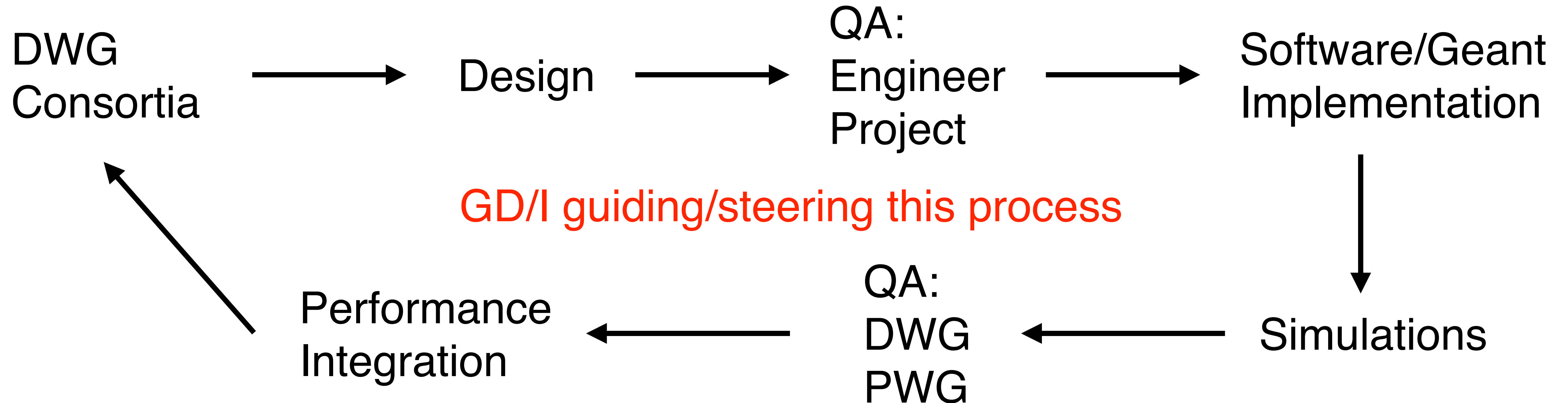
We encourage you to meet and begin planning an initial kick-off meeting. As we have communicated to all WG conveners, please keep in mind the goal of creating a constructive, accommodating and welcoming environment. This includes being mindful of collaborators' different time zones.

A new Indico category has been created specifically for Detector-1 WG meetings at: <https://indico.bnl.gov/category/402/>

We will be working with the EIC Project to make sure that all of you have the necessary permissions to access the relevant sub-categories to create meetings, etc. In addition, a new set of Detector-1 mailing lists have being created on lists.bnl.gov. The "Eic-projdet-globalint-l" has been created for your use, with all four of you as administrators. Please feel free to contact all of us as questions arise. We will be working to schedule meetings with all WG co-conveners as our colleagues resume their work jointly towards the realization of Detector-1. Again, we thank you in advance for all of your hard work.

Scope/Goal

- Guide the global design and integration of IP6 detector
 - ▶ Work with DWG, PWG, Consortia, Project, Engineers, Software
 - ▶ be polite but also frank & critical - we have only one shot to get it right (2nd detector unclear) - science needs to be the guide



Persons that possibly should be present at all times: Project (Elke), Software Reps.
N.B.: we need to be present in every DWG meeting (divide up up?)

Kick-Off Meeting

- Early or late (wait for DWG to get going or early start)?
 - ▶ *Wait for all kick-off meetings to be done*
- So far at kick-offs: talks from ECCE and ATHENA
 - ▶ I would love to understand the design thoughts behind ECCE better and I am sure ECCE also would like to understand ours. A frank talk about the compromises and ups and downs would be most helpful IMHO.
- When?
 - ▶ Crazy situation: Cannot fully accommodate West/East Coast, Europe, Asia
 - Typically largest audience with late morning meetings
- *Conclusion for now: wait until WG set their meeting times. Target 2nd week of May..... for kick off*

Regular Meetings

- Open versus close
 - ▶ IMHO we will need both
 - ▶ Focus on topic: invite explicitly corresponding conveners
- Date and Time?

Tomorrow's Det1 Meeting

- Who presents?
 - ▶ TU
- What do we say?

From Silvia

A proposal of points to be addressed today (2/2)

List of most urgent matter we would like to attack and prioritization

- Understanding with the help of the Computing and Software & Simulation Production and QA WGs the initial strategy for simulation frames to give indications to the DWGs
- Understanding the characteristics of the BaBar magnet magnetic field
 - For tracking
 - For PID performance
 - For PID photosensors
- Understanding support, service routing, capability to be assembled and to allow for maintenance intervention of the ECCE scheme (help from Project staff needed!)
- How to follow the analysis ongoing in the DWGs?

Others

- Software - now is not the time to discuss frameworks - need fast transition
 - ▶ apple to apple comparisons
 - ▶ no dual efforts
 - ▶ fast integration
- Background studies coordination
 - ▶ methods, normalization, simulations
 - ▶ input from machine, detector, electronics
 - ▶ WG? Task Force. GD/I will coordinate?
- Polarimeter