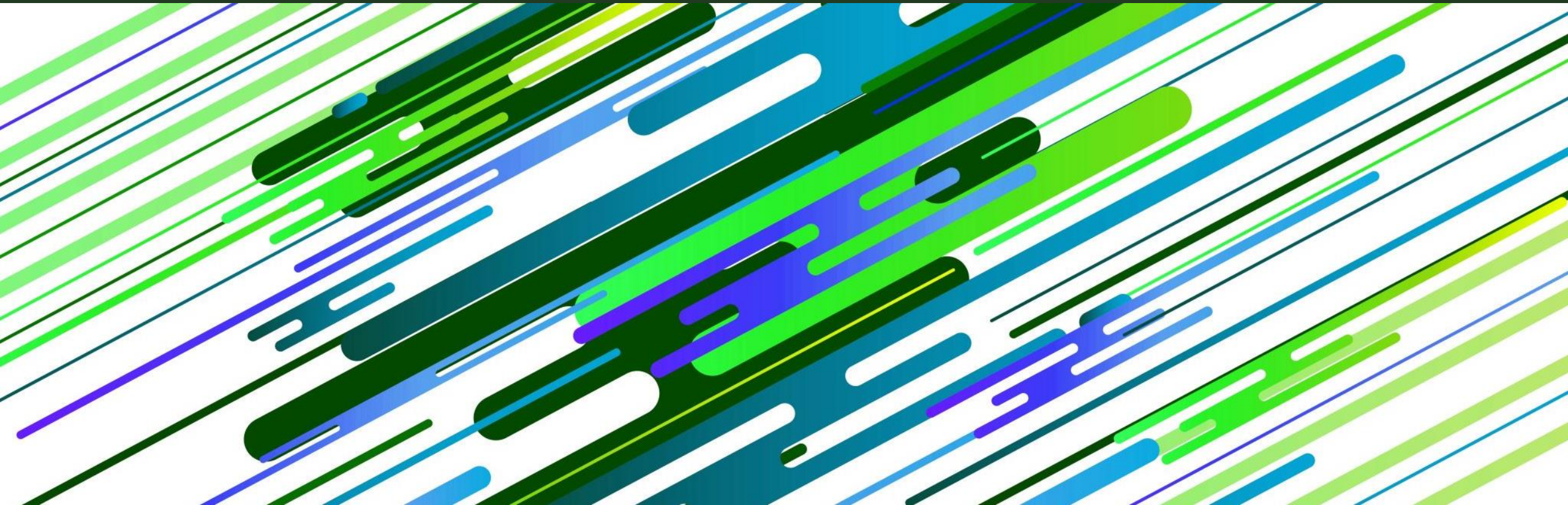

Summary

G. Lehmann Miotto



Charge Questions



1. Are the requirements documented? Are they reasonable?



2. Is the scope understood? Is there a team in place? Which institutions are interested?



3. Is there a reasonable plan for R&D and prototyping?



4. Is the design concept reasonable and feasible? Have appropriate mechanical and electrical calculations been performed?

Is the scope understood? Is there a team in place? Which institutions are interested?

- The scope of DAQ and SC for VD is understood
 - Interface documents need to be revised/completed with all VD consortia (PDS, CALCI in particular)
 - The 3D configuration produces more data than HD, but at manageable level
- A team is in place but not complete
 - The DAQ team can carry out the development, support, installation & commissioning programme, with careful planning
 - The SC team is insufficient; SC for coldbox and ProtoDUNE-II relies on expertise at CERN
- DAQ Institutions: Canada, CERN, Netherlands, UK, US

Is the design concept reasonable and feasible? Have appropriate mechanical and electrical calculations been performed?

- We believe that the design concepts for DAQ and SC are reasonable
 - More work is needed for the layout of the timing system, but the relevant experts are actively working on this
- The feasibility is linked to the pledged resources becoming available timely
 - SC is not covered sufficiently from an effort point of view
 - DAQ is covered but may be stretched on the M&S
 - Staging scenarios are possible and will not put the VD at risk
- Mechanical and electrical requirements have been discussed and agreed upon with the technical coordination and I&I
 - Room, racks, power & cooling for DAQ/SC underground is sufficient ; power & cooling for DAQ/SC on surface is scarce , but sufficient
 - The DAQ is electrically decoupled from the VD, in order to avoid any noise injection
 - The SC equipment is partially on detector ground; any connection to equipment on building ground is electrically decoupled