

Implementing the ECFA Detector R&D Roadmap: A new RD Collaboration for Liquid Detectors

TF#2: Liquid Detectors Group

ECFA Detector R&D Roadmap

Organization to structure the consultation with the community





Liquid Detectors DRDTs*



Important to meet several physics goals

Desirable to enhance physics reach

R&D needs being met

ECFA Implementation strategy

• ECFA presented an implementation strategy: link



Assuming the new DRDs need to come into existence by the start of 2024, the Detector R&D Roadmap Task Forces will
need to start organising open meetings to establish the scope and scale of the communities wishing to participate in
the corresponding new DRD activities from Autumn of this year.
(Where the broad R&D topic area has one or more DRDTs already covered by existing CERN RDs or other international

collaborations these need to be fully involved from the very beginning and may be best placed to help bring much of the relevant community together around the proposed programmes.)

- Through 2023, mechanisms will need to be agreed with funding agencies, in parallel to the below, for country specific DRD collaboration funding requests for Strategic R&D and for developing the associated MoUs.
- By Spring 2023, the DRDC mandate would need to be formally defined and agreed with CERN management; Core DRDC membership appointed; and EDP mandate plus membership updated to reflect additional roles.
- To allow sufficient time for reviewing and iteration, DRD proposals will need to be submitted by early Summer 2023.
- Formal approval should be given by the CERN Research Board in Autumn 2023.
- New structures operational and new R&D programmes underway from beginning 2024.
- Through 2024, collection of MoU signatures will need to take place, with defined areas of interest per institute.
- Ramp up of new strategic funding and R&D activities 2024-2026 in parallel to completion of current deliverables.

Implementing a new Liquid Detector RD collaboration

- With the community's inputs, we identified the DRDTs in the Roadmap
- We need to decide how to organize the different themes into efficient "working groups" to propose for the new RD collaboration
- All DRDTs may not have the same engagement and the same amount of funding
- We ask for community input for expressions of interest to determine the "working groups" and funding needs of the new collaboration: <u>link</u>

Next steps

- Input survey deadline: 15 November 2022
- Implementation Task Force forms "working group" teams based on input survey
- Workshop on structure for the RD collaboration: December 2022 (TBC)
- Proposal drafting by teams: January to June 2023
- Final RD proposal presented to CERN: July 2023
- We need people to be involved in this! Please contact Jocelyn Monroe (email) and Roxanne Guenette (email) if you want to participate