

For draft session and to stimulate discussion

Potential objectives and tasks

Preliminar: List of available facilities

Objective 1: Detector Laboratory

World-wide distributed network of laboratory to support community, entry point to technology.
Dissemination of methodology and instrumentation.
Valorize the laboratory at national level.

Objective 2: Test Beam

Extending to DRD1 & improve RD51 activities @ CERN/SPS (facilitating access & common instrumentation)
Evaluate other possibilities (in-kind contribution from local support group required) to satisfy beam requirements, CERN shutdown, geographical location

Objective 3: Irradiation Facility

Evaluate possibilities (in-kind contribution from local support group required) .. GIF++ is natural selection (with groups expressing intention to support the community).
For the identified options, evaluate needs and required upgrades

Objective 4: Specialized Laboratory

Valorize local realities for global purposes (Valorize the laboratory at national level).
Identify possibilities (with in-kind contribution from local support)

Objective 5: Instrumentation and software sharing

Dissemination of tools and instrumentation
Offer the possibility to the groups to share their developments.

Contacts

**FIRST STEP: IDENTIFY PEOPLE
(AND FACILITIES)**

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Potential objectives and tasks

Preliminar: List of available facilities (DRD1 and beyond)

Objective 1: Detector Laboratory

- **Task 1.1:** Create a network of laboratories that can accept groups to perform detector characterization studies.
- **Task 1.2:** Establish characterizations techniques, setup and methods, supporting the development and dissemination of appropriate instrumentation.
- **Task 1.3:** Support laboratory handbook (e.g. GASEOUS DETECTORS HANDBOOK, F. Sauli, <http://fabio.home.cern.ch/fabio/handbook.html>)
- **Task 1.4:** Large Area Cosmic Stand

Objective 2: Test Beam

- **Task 2.1:** Common test beam at the CERN/SPS
- **Task 2.2:** Tracking and Timing Telescopes based on different gaseous detector technologies
- **Task 2.3:** Common DAQ(s) and software

Objective 3: Irradiation Facility

- **Task 3.1:** integrate existing current DRD1 facilities within tools that facilitate finding the most suitable for availability, time, particle, dose, detector requirement
- **Task 3.2:** develop common and easily maintainable electronics, gas systems and software
- **Task 3.3:** beam and cosmic triggers
- **Task 3.4:** are current facilities “strong” and “large” enough? Otherwise foresee interventions

Objective 4: Specialized Laboratory

- **Task 4.1:** Outgassing laboratory and database (renewal, consolidation and maintenance)
- **Task 4.2:** Aging laboratory
- **Task 4.3:** Gas Analyzers

Objective 5: Instrumentation and software sharing

- **Task 5.1:** Gas supply and monitoring units
- **Task 5.2:** Laboratory Instrumentation (amplifiers, floating pico-ammeters, P/T/H monitoring units,...) and HW/FW/SW repository
- **Task 5.33:** laboratory and test beam analysis software repository, documentation, TWIKI ...

**Some concrete examples of task.
Not final.. To be modified/extended
depending on the community
response.**