DRD1-WG6: Detector Production Proposal

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Mandate and objectives

- Mandate
 - Production aspects of gaseous detectors covering all essential construction elements
 - Development of production techniques and innovative solutions
 - Transfer to industry
- **Objectives**
 - I: Development and maintenance of common production facilities and equipment
 - 2: Quality control and large volume productions
 - 3: Collaboration with industrial partners
 - 4: Establish and support a forum for sharing experiences, knowledge, and best practices



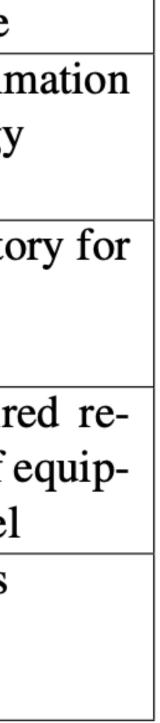
Task 1

Production facilities and equipment

•	Propagate the RD51 model to	
	other technologies	Refe
		Task
•	Need for a large-RPC production facility	
		Task
	Electrode base material	
	Silkscreen printing	
	Gluing tooling	Task
	QC tests	
	Mechanical tools for assembling	Task
		1451
•	Wire Chambers \rightarrow need to	

 Wire Chambers → need to maintain the equipment in working order

ference	Description	Deliverable Nature
k 6.1.1	Production Needs: detector type	Report with estin
	and size, production volumes and quality	for each technology
k 6.1.2	Production Capabilities: detector type and size, production volumes and production quality	Report with invento each technology
k 6.1.3	Needs and Capability Matching (costs)	Report with require sources in terms of e ment and personnel
k 6.1.4	Identify Resource Pooling strate- gies for the creation or the upgrade of production facilities	Resource Requests



Task2 QC and production

Reference	Description	Deliverable Nature
Task 6.2.1	QA/QC protocols for each tech-	Report
	nology	
Task 6.2.2	Inventory of missing but required	Report
	instrumentation for QA/QC	

Task3

Collaboration with industrial partners

- Production volume exceeds the capacity of the facility
- Cost reductions
- Availability for potential commercial applications

Reference	Description	Deliverable Nature
Task 6.3.1	Technology transfer checklist	Report
Task 6.3.2	Technology transfer database	Database
	(project, industrial partner)	

- Important aspects for technology transfer:
 - Identification of the market (market surveys)
 - Matching of the production level with the capacity of the industrial
 - Interest of the industrial for new methods and to address niche markets
 - Clarification of intellectual property licensing

Task4

Collaborative forum (+ DATABASE of existing and available material)

Reference	Description	Deliverable Nature
Task 6.4.1	Establishment and support of a forum for	Online Forum
	sharing experiences, knowledge, and best	
	practices on gaseous detectors	