



TIARA

Kick-off meeting

WP 3

23-24 February 2011

Partner institutes WP3



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Objectives



WP3 Objective

The overall goal of this Work Package is to integrate and optimize the European infrastructures for accelerator R&D.

The main objectives are to provide a survey of the existing accelerator R&D infrastructures and facilities, to identify synergies between existing infrastructures and to provide a costing model for their operation for comparison, to identify discrepancies between the existing infrastructures and future needs for accelerator R&D and to ensure that the needs of a broad user community of accelerator R&D infrastructures are adequately taken into account in the construction and operation of the TIARA distributed infrastructure.

WP3.1 will generate a web-based database of existing, currently developed and planned accelerator infrastructures .

WP3.2 will evaluate the needs of the user community, in close interaction with WP4. It will compare the outcome of WP3.1 with the current and future needs for Accelerator R&D

Objectives



WP3.3 will analyse the different possible options for sharing R&D infrastructures and developing joint R&D Infrastructures with the industry. It will analyse access modes for industry to existing infrastructures in Europe and other regions

WP3.4 will define a technology roadmap for the development of future accelerator components in industry

WP3.5 will propose appropriate structures that can ensure the sustainability of the process described in WP3.2 and propose a common costing method for the operation, upgrade and construction of individual large infrastructures.

WP3.6 will address all issues related to access of the accelerator R&D infrastructures. It will define the general access policy and modalities for accessing R&D infrastructures of TIARA.

WP3.7 will investigate possible models for linking between them different levels of infrastructures and establish technical criteria and evaluation procedures for joining the TIARA distributed infrastructure and propose their implementation in TIARA

Planning, 24 months



Milestone/ deliverable	Description	Date
Milestone MS 8	Nomination of WPC for each ARA	Jan 2011
<i>Milestone MS 13 *</i>	<i>Formation of study group for identification of Key issues</i>	<i>Jan 2011</i>
<i>Deliverable D 4.1 *</i>	<i>Report on key ARA and key R&D issues</i>	<i>May 2011</i>
Milestone MS 9	Interim Infrastructure Survey report	August 2011
Deliverable D 3.1	Infrastructure Survey Report	December 2011
Deliverable D 3.2	Infrastructure Web-based Database	April 2012
Milestone MS 10	Presentation of the IWD to the TIARA collaborators	May 2012
Milestone MS 11	Interim Infrastructure Need and Resource comparison	August 2012
Milestone MS 12	Presentation of structure proposals for joining TIARA	September 2012
Deliverable D 3.3	Infrastructure Need and resource comparison	December 2012
Deliverable D 3.4	Infrastructure Access report	December 2012

** Action item from WP 4, work in close interaction with WP 3*

Progress so far



-Combined WP3/WP4 meeting held on 25 January 2011, to discuss the scope of work, including the drafting of a list of key R&D issues

- WP3 kick-off , Discussed the organization of the Infrastructure Survey (who does what, templates, questionnaires, list of infrastructures, etc..), taking into account the sub-tasks in WP3.1:

Survey of existing and planned accelerator R&D infrastructures

- user communities
- capacities
- operation costs, comparison of costing models
- establish liaison with industry

Progress so far



The following approach agreed:

- 1. Establish list of European accelerator infrastructures (institutes, universities, projects, collaborations, companies, etc..).**

<u>Institutes</u>	<u>Universities</u>	<u>Projects</u>	<u>Collaborations</u>	<u>Industries</u>
CERN	HELSINKI	BERLIN PRO	MICE	IBA
GSI	VALENCIA	MEDAUSTRON	ILC	SIEMENS
DESY	MADRID	CLIC	CLIC	RI
SACLAY	BILBAO	ILC	CTF 3	DANFYSIK
INFN	EINDHOVEN	SLHC	TTC	OXFORD INSTR
PSI	DUNDEE	FAIR	EUCARD	THALES
ESRF	ZWIERK	XFEL		
COCKROFT	WARSAW	PETRA		
DARESBUY	KRAKOW	FLASH UPGRADE		
RUTHERFORD	FRANKFURT	SPIRAL 2		
DIAMOND	DARMSTADT	IFMIF		
SOLEIL	DORTMUND	MYRRAH		
BESSY/HZB	MAINZ	SWISSFEL		
KIT	BONN	SPARKS		
JUELICH	HAMBURG	FERMI		
CIEMAT	ORSAY	GANTRY 2		
CELLS	GANIL	PROTON HC UPGR		
MAXLAB	LEGNARO	EURISOL		
ELETTRA	LAUSANNE	SLS		
KVI	UPPSALA	ESRF UPGRADE		
AARHUS	LUND	HIE ISOLDE		
FZD	UCL	ISIS UPGRADE		
JOHN ADAMS	STRATHCLYDE	EMMA		
FOM	JYVÄSKYLÄ	MAX 4		
	BELGIUM?	ALICE		
		ELBE		
		ZFEL		
		ALPHA X		
		FELIX		
		FRASCATI SUPER B		



Non-exhaustive list!!

Progress so far and planned actions



The following approach agreed:

1. Establish list of European accelerator infrastructures (institutes, universities, projects, collaborations, companies, etc..).
2. **Prepare a complete set of questions and templates for the survey, enabling consolidation of coherent information.**

Questions/information of interest



- Short introduction
- Already existing or planned?
- Unique features?
- Present situation/future changes/expected lifetime?
- Accelerator infrastructure/component test infrastructure?
- Exploitation level? Max capacity?
- Shared facility/infrastructure?
- Main user community. Open for external users?
- Contact details
- If available:
 - Operation costs/budget?
 - Investment cost?
 - Costing model?
 - Number of FTEs?

Progress so far and planned actions



The following approach agreed:

1. Establish list of European accelerator infrastructures (institutes, universities, projects, collaborations, companies, etc..).
2. Prepare a complete set of questions and templates for the survey, enabling consolidation of coherent information.
3. **Divide the list of infrastructures in geographical areas. Representatives of the institutes in the WP3 to take responsibility for their respective area.**
4. **Survey to start in mid-March**

