



FP7-Planning of calls and indicative budget

Total operational budget 1665 M€

Integrating activities

e-Infrastructures
EuroNu

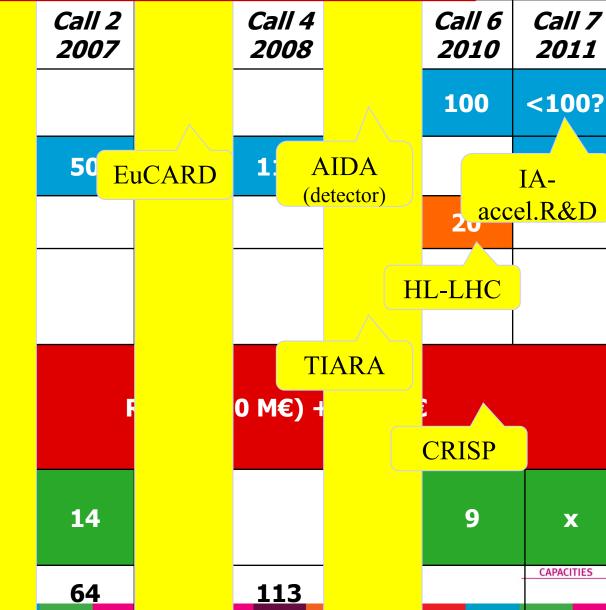
Design studies

Construction –
Support to the
Preparator SLHC

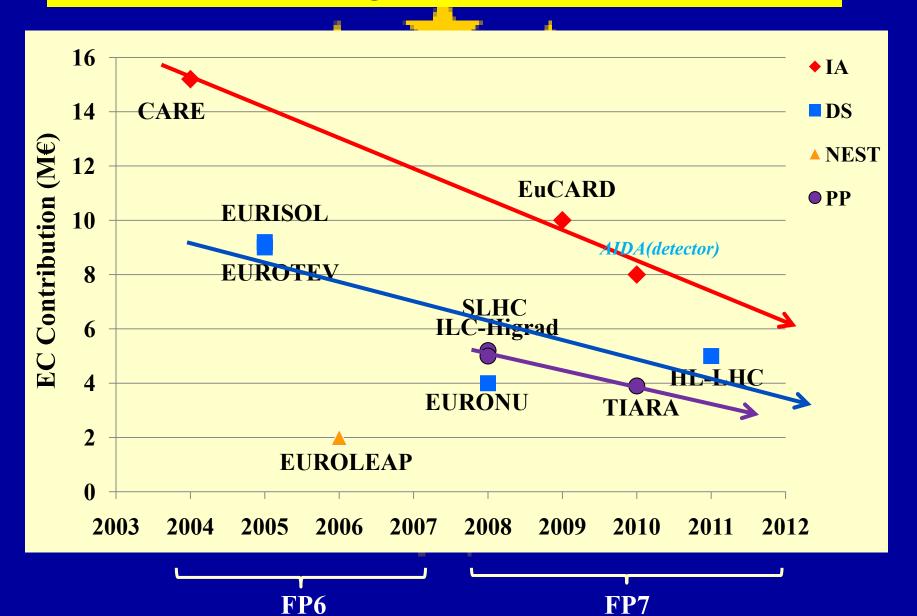
Construction HiGrad Support to the Implementation Phase

Policy Development and Programme Implementation

Total per call (M€)



10 EC financed projects (FP6+FP7) pioneered by CARE amount to total budget of 197 M€ (60 M€ from EC)



Next FP7 call in 2011

DATE	Type of Call	Comments
Call: July 2011 Deadline : end Nov. 2011	IA	Targeted call for accelerator R&D

Comments: No DS foreseen

Situation for CNI not clear



- Anticipated duration: 4 Years
- Requested EC Contribution: 10M€
- Activities should cover several field (PP, NP, Light & neutron sources...)
- They should complement activities addressed in TIARA
- Give somewhat higher emphasis to NA, opening new areas

Schedule for the « EuCARD2 » IA preparation

When	Who	What	
30/09/2010	EuCARD PC	Collect proposals of R&D themes from EuCARD members	
15/11/2010	R.A. + EuCARD SC	Discuss these and finalize	
14/01/2011	ESGARD	Select themes for NA's, TA's and JRA's. Produce version - 1 of EuCARD2 to be used as guidelines	
31/1/2011	R.A. + JP. Koutchouk	Identify theme coordinators & get agreement and send mandate and term of reference to theme coordinators	
29/4/2011	JP. Koutchouk	Collect proposals of theme coordinators and produce version 0 of EuCARD2	
10/5/2011	ESGARD	First review of the "EuCARD2" activities. Discuss and amend version 0	
14/7/2011	JP. Koutchouk	Collect version 1 of theme coordinators and produce version 1 of EuCARD2	
end/7/2011	ESGARD	Comments on version 1 and nomination of General Coordinator	

Schedule for the « EuCARD2 » IA preparation

First review of the proposed activities at the ESGARD meeting on May 10th, 2011

- 15:45 Status on the preparation of the project to be submitted at the 2011 Integrating Activities call
 - 15:45: NA EuroLumi2 (F. Zimmermann)
 - 16:00: NA LowERing (S.Guiducci/Y. Papaphilippou)
 - 16:15: NA EuroNNAc2 (R. Assmann)
 - 16:30: NA EnEfficient (M. Seidel)
 - 16:45: NA AccApplic (R. Edgecock)
 - 17:00: JRA MagCol (L. Bottura/L. Rossi)
 - 17:20: JRA RF (P. McIntosh)
 - 17:40: JRA ANAC2 (R. Assmann)
 - 18:00: Discussion (all)

Preparation of the « EuCARD2 » proposal

#	type	title	topic	Thematic	EC
				coordinators	[M€]
1	MGT	Management		ESGARD (general	.7
2	NA	Communication		coodinator tbd soon)	.15
3	NA	« PAF »	Pushing Accelerators' Frontiers	F. Zimmermann*	.4
4	NA	« Low-ε-Ring »	Low-emittance electron rings	S. Guiducci/ Y. Papaphilippou*	.4
5	NA	« EuroNNAC »	European Network for Novel Accelerators	R. Assmann*	.4
6	NA	« SEET »	Sustainable & Energy Efficient Technologies	Mike Seidel/PSI*	.4
7	NA	AccApplic »	Applications of accelerators towards industry and healthcare	R. Edgecock*	.4
8	TA	Open access facilities	MICE, HiradMat, MagNet,?	t.b.d. later	1.0
9	JRA	« HadTech »	Hadron Machines Technologies	L. Rossi*	2.5
10	JRA	« RFtech »	SC and NC RF technologies	P. McIntosh/STFC* + W-D Mueller/DESY and S. Chel/CEA as advisors	2.5
11	JRA	«ANAC»	Assessment of Advanced Concepts	R. Assmann*	1.15
					10.0

* ESGARD contact person

Preparation of the « EuCARD2 » proposal (cont'd)

« Low-ε-Ring »: Low-

emittance electron rings

« SEET »: Sustainable &

« EuroNNAC »: European

« AccApplic »: Applications of

accelerators towards industry

Network for Novel

Accelerators

and healthcare

Energy Efficient Technologies

Five main Networks	<u>.</u>	
Title/Activity type	Comments	

Becoming a critical need for many application within and

Very broad spectrum of applications, Vital issue for some

planned infrastructures, need for information exchange

Focussed toward plasma electron acceleration with the

community: Coordinate and integrate the activities of the

European accelerator communities in the development of

accelerators for applications in industry, healthcare,

on experience, potential measures, new concepts ...

objective of developping a working plasma-based

Possibly lacking coordinated attention from our

accelerator. Growing community requiring further

outside PP: synchrotron light sources, storage rings,

damping rings, lepton colliders...

energy production and security.

Great interest at many accelerator labs

« PAF »: Pushing Accelerators Luminosity, energy, Beam power, polarization frontiers

structuring

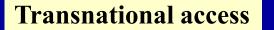
Frontiers

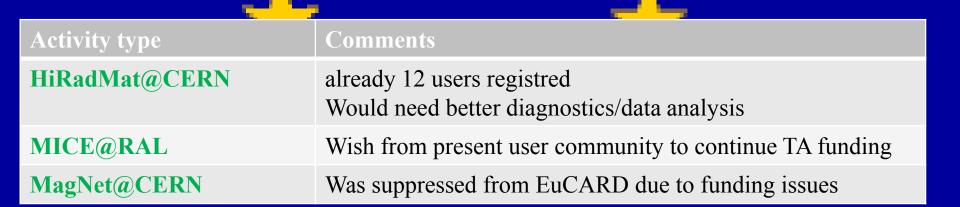
Preparation of the « EuCARD2 » proposal (cont'd)

Three Research activities

Activity type	Comments
« HadTech » : Hadron Machines Technologies	Many possible topics: HFM 20T, Collimation, hadron sources, Wiggler/undulators? Difficult to carry all these activities. Need to prioritize
« RFtech »: SC and NC RF technologies	 4 main subtopics are investigated High Gradient Normal Conducting RF Thin-film Technology LLRF Control and Synchronization SRF Tuner Developments
«ANAC»: Assessment of Advanced Concepts	 3 main subtopics are investigated Ultra-Fast Accelerator Science Drivers for Medical and Industrial Applications Laser-Driven Plasma Acceleration Detailed tasks are under studies

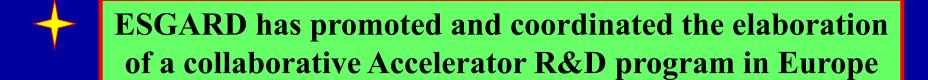
Preparation of the « EuCARD2 » proposal (cont'd)





List not exhaustive, Infrastructures for plasma acceleration are also investigated

Conclusion



We continue this work using FP7 calls by preparing the next Integrating Activity following CARE/EuCARD.

This new project together with EuCARD are important inputs to TIARA for enhancing and structuring further Accelerator R&D and ensuring its sustainability

Accelerator science is a powerful mean toward scientific, technical and industrial breakthroughs...