



Management Report

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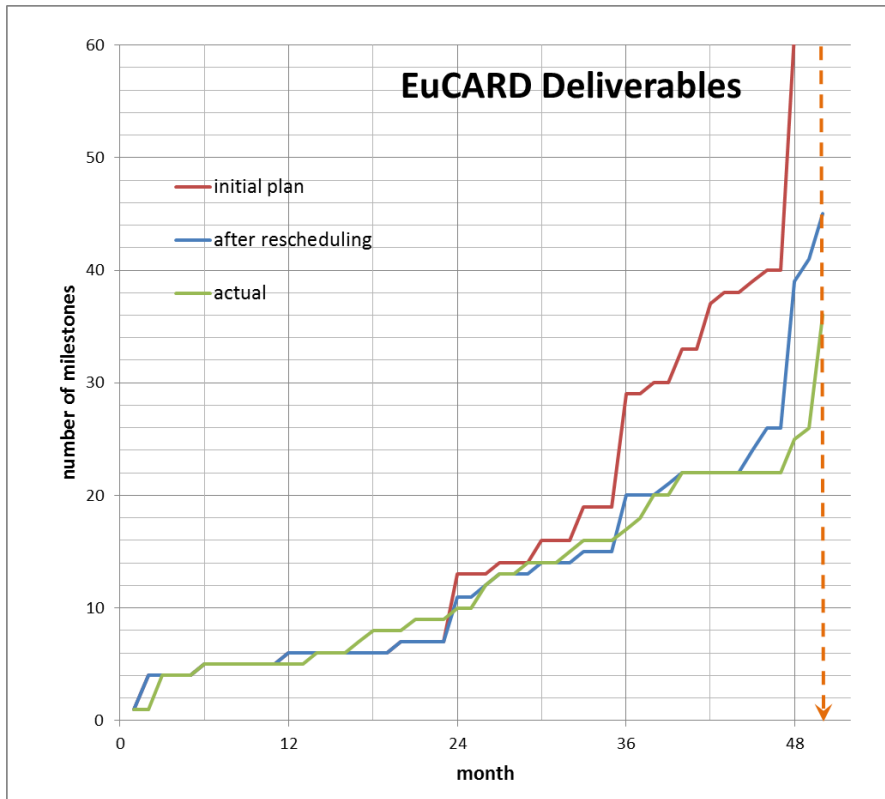
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Outline

- 1. Monitoring of the consistency of results with work plan and corrective actions**
- 2. Organization of project life: GB & SC information and meetings, annual meetings, workshops/conferences**
- 3. Internal and periodic reporting; communication with the European Commission; outreach**
- 4. Administrative follow-up, support to partners**
- 5. Use of resources and financial aspects**

1-Monitoring of the consistency of results with work plan and corrective actions

NA's and JRA's



Total due	60
Reports/actions nominally end July (MGT, NA's coordination)	13
JRA delayed end of July	3
Due scientific deliverables now	44
Received	35 (+2)
Late or not communicated	9 (-2)

10/6/2013

D3.1.2	Final NEU2012 guidelines for an accelerator neutrino experiments programme
D7.2.1	Certification of the radiation resistance of coil insulation material
D7.3.1	Dipole model test with one superconducting coil; results analyzed (<u>a</u> , <u>b</u> , <u>c</u> , <u>d</u>)
D9.3.1	CLIC Quadrupole Module final report
D9.3.2	Final Focus Test Stand final report
D9.4.1	ATF2 tests and CLIC IR study
D9.4.2	Laser Wire and Beam Position Monitor tests
D9.5.2	Electro optical monitor final report
D10.3.3	LHC and CLIC LLRF final reports
D10.4.4	New thin film techniques for SC cavities and photo cathodes
D10.4.2	RF measurements on thin film deposited QRW prototype
D10.4.3	Cold test results for the test cavities w/out the deposited lead photo cathode
D10.5.1	HOM electronics and code to probe beam centring on 3.9 GHz
D10.5.2	Report on HOM experimental methods and code
D10.7.2	Results for GaAs photocathodes
D10.8.1	Test and operation of the couplers preparation procedure

1 – TA access units delivered

	HiRadMat	MICE
Contract	50	3384
Achieved (up to end of July)	75.5	>6000
# requests for access	16	12
# requests accepted	9	12
# users supported	10	40
# publications	30	>18
# of different institutes	4	6

In both cases, the initial access unit definition revealed unpractical and was changed based on experience

1 - Publications

Publications and presentations (30/5/2013)

	M12	M24	M36	M49	Per FTE (4years)
Conf. papers	40	135	179	231	4.8
Presentations	...	60	63	70	1.4
Journal publications	19	38	49	63	1.3
Notes, reports, other	...	36	53	60	1.2
Academic	2	4	5	7	
Books	8	18	
TOTAL	77	273	357	449	9.3

1 – “Corrective” actions

1. Major action was the full reshuffling of a 40 partner project following the budget reduction by 33%:
 - Suppression of several research topics (and of some partners)
 - Significant reorganization of tasks and sometimes collaborations
 - EU funding at 30% of official budget but at 25% in reality, to safeguard ambitious deliverables.
2. **WP4:** one unofficial network organized (EuroNNAC) on novel acceleration principles, now official in EuCARD2.
3. **WP5:** major impact of the LHC accident at commissioning. Irradiation beam line only late by 2 years thanks to an exceptional mobilisation and dedication of the CERN groups involved.

2 – Corrective actions

4. WP7: Nb₃Sn HFM reveals significantly more complex than anticipated. Work regularly monitored by international review committee and well rated. Deliverable reduced in ambition, yet today still too ambitious.

5. WP9:

FF test stand: stabilization goal achieved without interferometer. Corresponding funding redirected to active stabilization of the IP proposed by same partner.

+ rescheduling of 7 deliverables (over 60), and of 13 milestones (over > 100)

3- Organization of project life: GB & SC information and meetings, annual meetings, workshops/conferences

Governing Board

1	1/4/2009	CERN		Key discussion on respective roles and strategies: HEP, NP, SL, EU, EuCARD, CERN lab, CERN Council, national labs and governments,...
2	14/4/2010	RAL, UK	22	Proposal of a platform for accelerator science, for a better involvement of EU universities and sustainability: taken over by TIARA-PP
3	11/5/2011	CNRS, FR	26	<ul style="list-style-type: none"> • Interim reports from 6 months to one year • EuCARD newsletter extended to EUROnu, HiLumi-LHC and TIARA
4	25/4/2012	WUT, PL	19	Discussion on involvement of industry
5	10/6/2013	CERN		conclusions

Chairperson: Tord Ekelof, Uppsala, for the whole duration

Steering Committee

#	date	place	attendance
1	3/4/2009	CERN	15
2	30/6/2009	CERN + audio	19
3	4&5/11/2009	INFN, Frascati	18
4	19/1/2010	CERN + audio	17
5	12/10/2010	Malta	17
6	17/1/2011	CERN + audio	15
7	1&2/12/2011	GSI	12
8	6/3/2012	CERN + audio	12
9	6&7/12/2012	Uppsala+audio	14
10	7/3/2013	CERN + audio	13

+ GB meetings with SC members. *All F2F SC meetings were combined with visits of labs, high-tech industry or workshop*

Annual meetings

2009	CERN	110	With FP6 CARE
2010	Rutherford Laboratory, UK	115	
2011	Centre National de la Recherche Scientifique, France	123	
2012	Politechnika Warszawska, Poland	88	
2013	CERN	150	With FP7 EuCARD2

i.e. ~2 registrants/FTE

Goals:

- disseminate information on **progress** of activities,
- **cross specialty borders** (2 days of plenary sessions),
- offer an opportunity for presenting **highlights** of research,
- Invited **external speakers**, link to other **projects outside** EuCARD
- Talks on and **visit of host laboratory** facilities,
- create **personal links** thru a pleasant social dinner/event

Challenge: the large number of accelerator conferences makes the scheduling of recurrent project events sometimes difficult.

Workshops and conferences

Although this is typically a WP activity, in order to create a **project “style” and team spirit** (experience of CARE), the project assistant organized or participated to the organization of several events of the EuCARD networks:

Oct 2009	EuroLumi	41	Topical workshop on anti electron-clouds coatings
Dec 2009	EuroLumi	30?	Topical meeting on proton-driven plasma wakefield acceleration
Nov 2010	EuroLumi	60	Topical workshop on high-energy LHC
Nov 2011	EuroNNAC	90	Founding workshop
Aug 2011	υEu2012	190	Conference NuFACT 2012
Oct 2012	υEu2012	50	NBI2012

and of related events: ESGARD, FP7 ICAN, FP7 TIARA-PP, FP7 CESSAMag, on a best effort basis.

4 – Internal and periodic reporting; communication with the EC; outreach

Periodic reporting: M18, M36, M48

Interim reporting: M6, M12, M24 [~~M30, M42~~]

Same format: ~1 to 2 pages per task + management and financial information requested by EC, i.e. > 100 pages each.

Interim reporting every 6 months was too much of an effort for questionable added value: changed to 1 year periodicity at M24. The mandatory EC reporting at M18 is not in line with “natural” reporting periodicities.

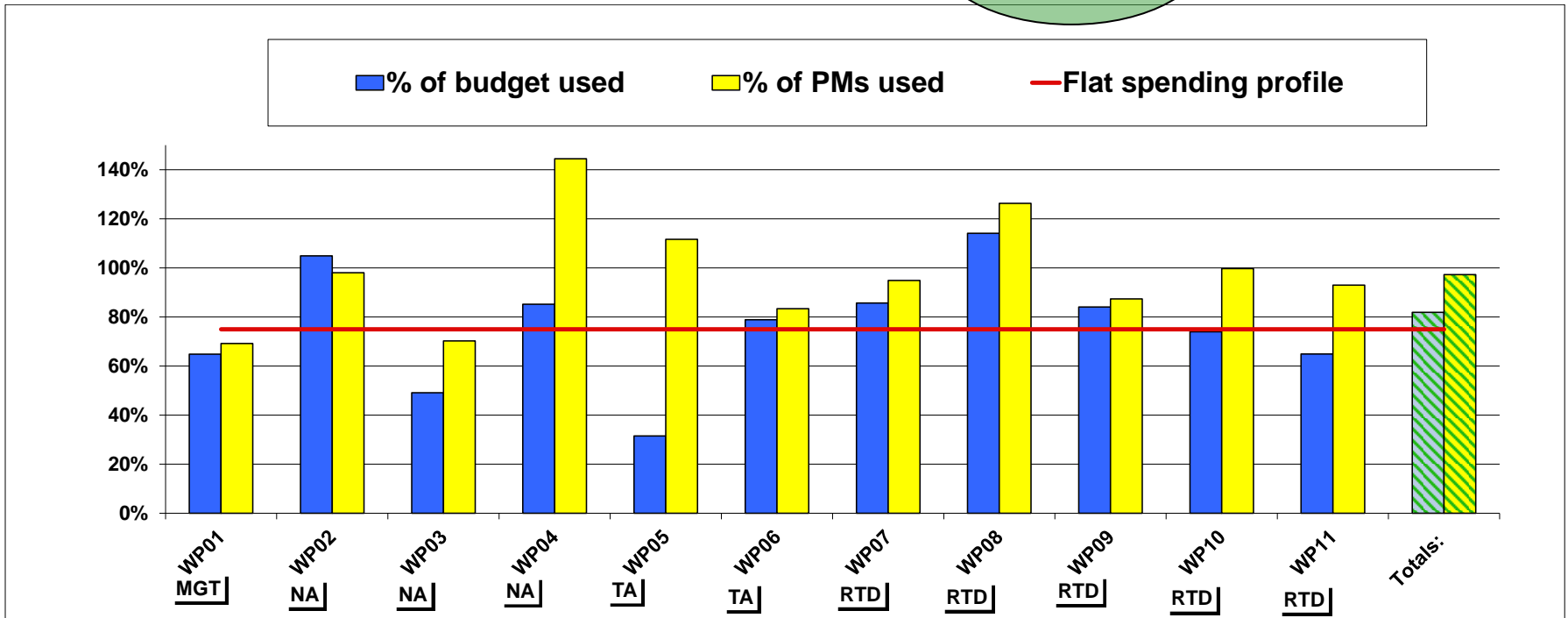
Excellent assessment by EC in mid-term review (oral) on all aspects of project.

4 - Communication with the EC and other bodies

- **EuCARD** represented by project coordinator and often administrative manager in a number of EC events (ECRI conferences, workshops on innovation,...)
- **EuCARD** (and CERN) consulted for surveys on plans for H2020.
- **EuCARD** reports to CERN Council meetings (SPC), to ESGARD meetings.
- Links developed with other accelerator EC projects, with USLARP, with laser/plasma community, with medical applications community,...
- **Brochure by CERN & EuCARD on spin-off of accelerator research + HEP, suggested by EC.**

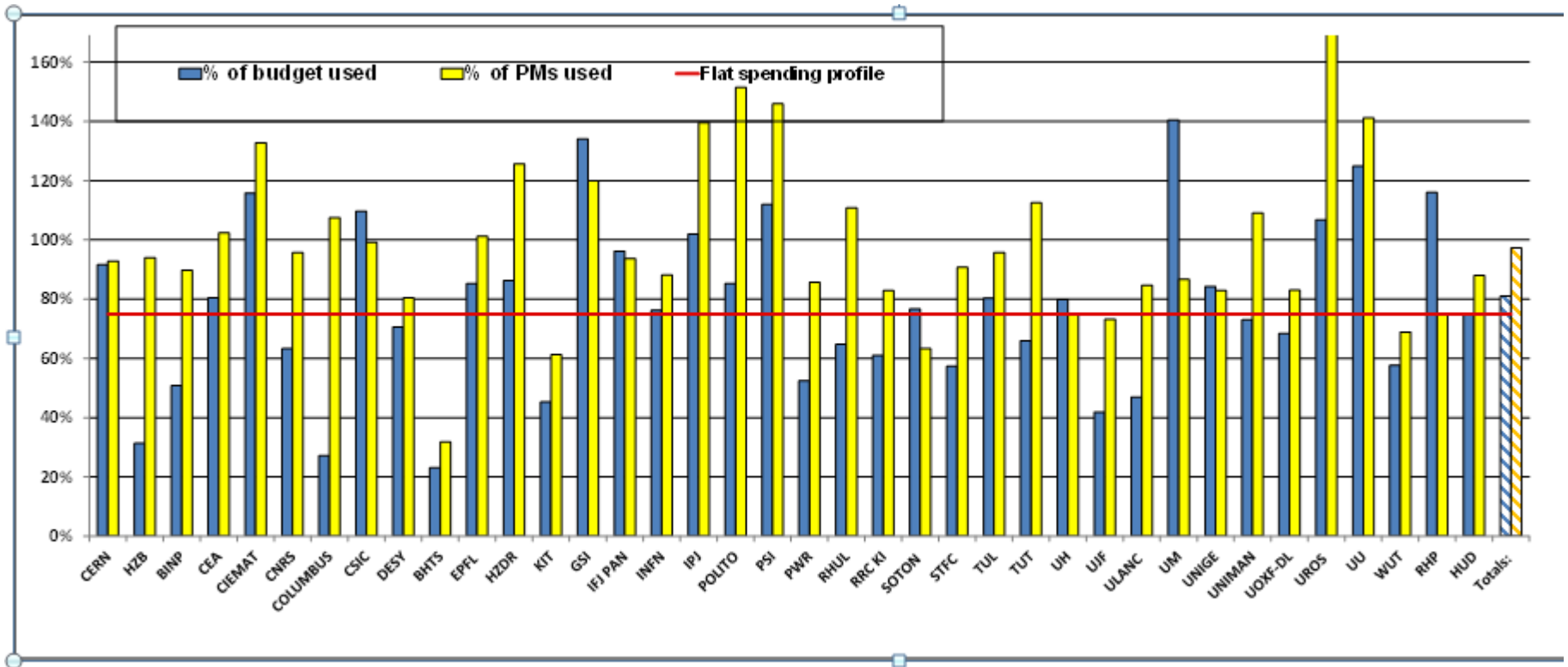
5- Administration, use of resources, financial aspects

Per Work Package for M1-M36



5- Administration, use of resources, financial aspects

Per beneficiary for M1-M36



Financial aspects: No real issue, “just” work; some transfers of funds between partners to optimize the use of resources.

Summary of Contractual changes

- implemented via 3 Amendments to the Grant Agreement
- one partner left the consortium (AIT) and was replaced by RHP Technology
- one new partner joined the consortium (University of Huddersfield)
- several associate partners joined EuCARD
- some modifications and adjustments to the work programme were needed over the 4 years

Amendment 3

- **Project duration extended until 31 July 2013**
 - JRAs may continue activities during the extension period, if needed, **but shall not claim costs incurred after 31 April 2013**
 - NAs may continue activities and claim costs incurred after 31 April 2013
 - TAs may continue with access **granted in advance** and user support during the extension period
- Participants in the Final Project meeting can claim their travel costs either to EUCARD or EUCARD2 **but not to both projects.**
- All deliverables (except for the P3 and the Final Project Reports) are due in M52 (July 2013) at the latest.

Conclusions in EC terminology

EuCARD will have achieved most of its objectives and technical goals with exceptions mostly related to R&D tasks requiring more time mostly < 10%, but one deliverable late by 33% (half due to force majeure):

WP	activity	Assessment of results
1 MGT	Management	Positive assessment in mid-term review
2 NA	Communication, dissemination & outreach	Beyond objectives
3 NA	Neutrino facilities	Objectives achieved
4 NA	Accelerator networks	Existing NA beyond objectives; new NA created
5 TA	HiRadmat	Objectives achieved in spite of major external issue
6 TA	MICE	Beyond objectives

Continued...

WP	activity	Assessment of results
7 JRA	High field magnets	Complexity of one major objective (a first for EU technology) underestimated, but learning curve excellent and agreement between partners to reach the initial goal.
8 JRA	Collimation and materials	Objectives achieved and beyond
9 JRA	Normal conducting linacs	Objectives mostly achieved; final objectives planned with mild delays.
10 JRA	Superconducting RF	Information not fully available; many objectives expected to finalized, some late.
11 JRA	Novel concepts	Objectives achieved (on time!)

Conclusions

Political goals: Sustainable Collaborations: EuCARD capitalized on the FP6 CARE results, and added the new dimension of a large participation of EU universities and specialized institutes and three companies (in two tasks). This has been facilitated by CERN, as coordinator and European laboratory, waiving the cost of management and of some of its core activities.

Options continued in EuCARD2.

Excellent relations and cooperation with EC. Will be consolidated by a high quality reporting by all partners and project management.

EuCARD actively participated in ESGARD to the definition of EuCARD2 to consolidate the collaborations, and adapt its programme to evolving goals.

Thanks

- To all institutes and members of EuCARD
- To the Steering Committee members
- To Tord Ekelof and the Governing Board members
- To CERN, for funding the EuCARD management,
- To the university of Uppsala and CERN for the final support to PC
- To all institutes who hosted EuCARD events always friendly.
- To the CERN EU Project Office and Financial Control for outstanding support
- To Vittorio Remondino for producing the VBA“Eucard Dashboard”
- To my assistant for facing the highly varying work load generated by the project.
- *And thanks and apologies to all those I may have forgotten in this quite challenging EuCARD'13 preparation...*