



Status of EuCARD

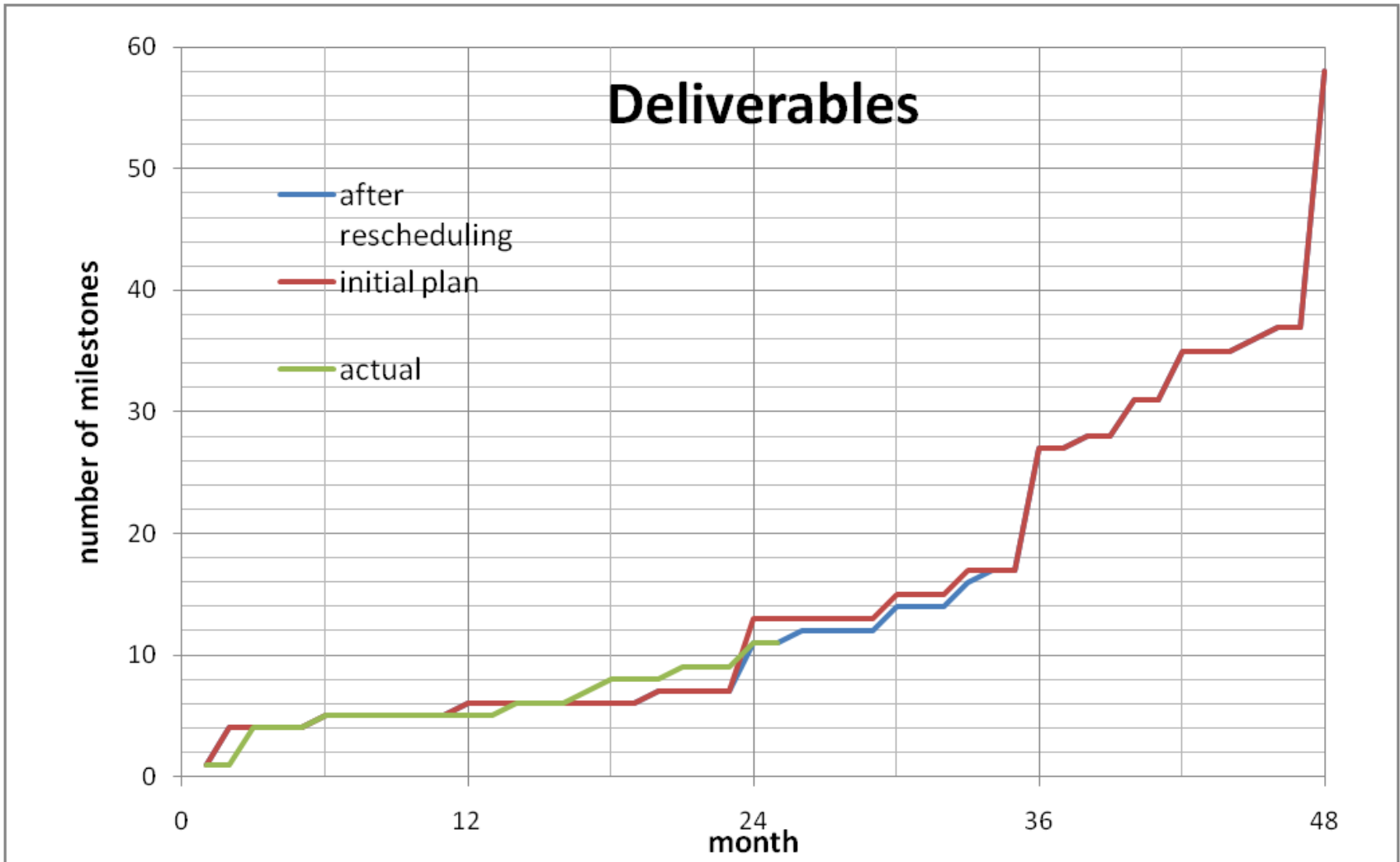
(Management Report)

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Outline

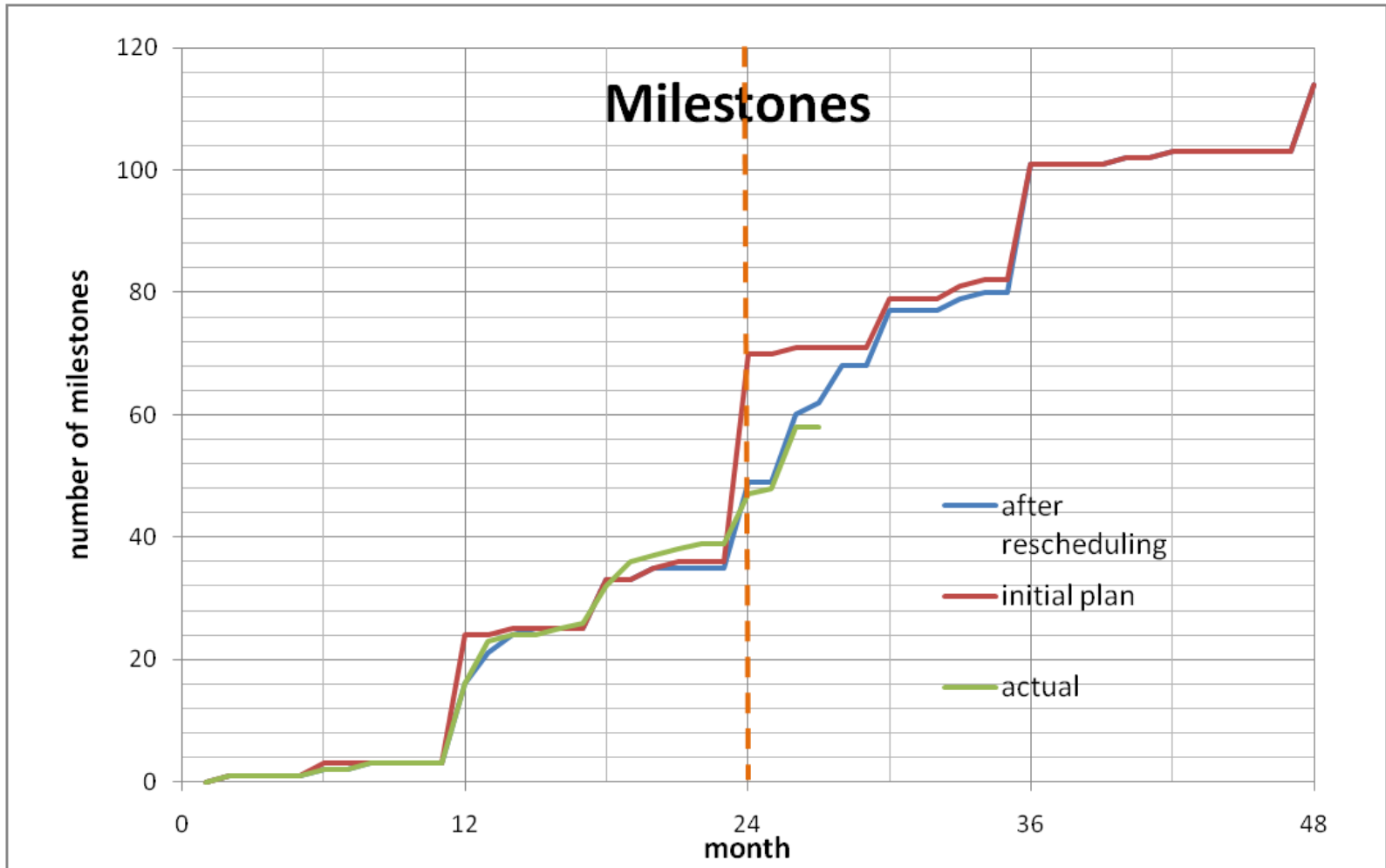
- 1. Progress towards objectives**
- 2. Human resources**
- 3. Use of the resources**
- 4. Changes in EuCARD**
- 5. Activities of management bodies**
- 6. Distribution of the EC funding**
- 7. Plans for next year**

1a - Progress towards deliverables



05/05/2011

1b- Progress towards milestones



05/05/2011

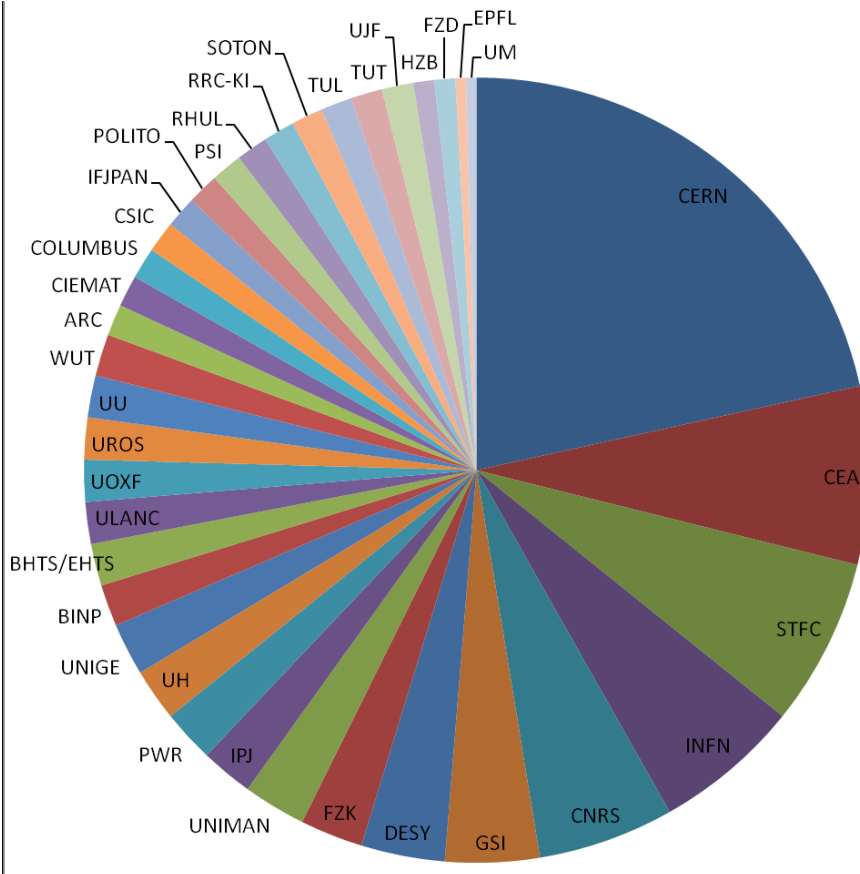
1c - Publications

- Publications and presentations (27/4/2011)**

	M12	M24
Conf. papers	40	135
Presentations	...	60
Journal publications	19	38
Notes, reports, other	...	36
Academic	2	4
TOTAL	77	273

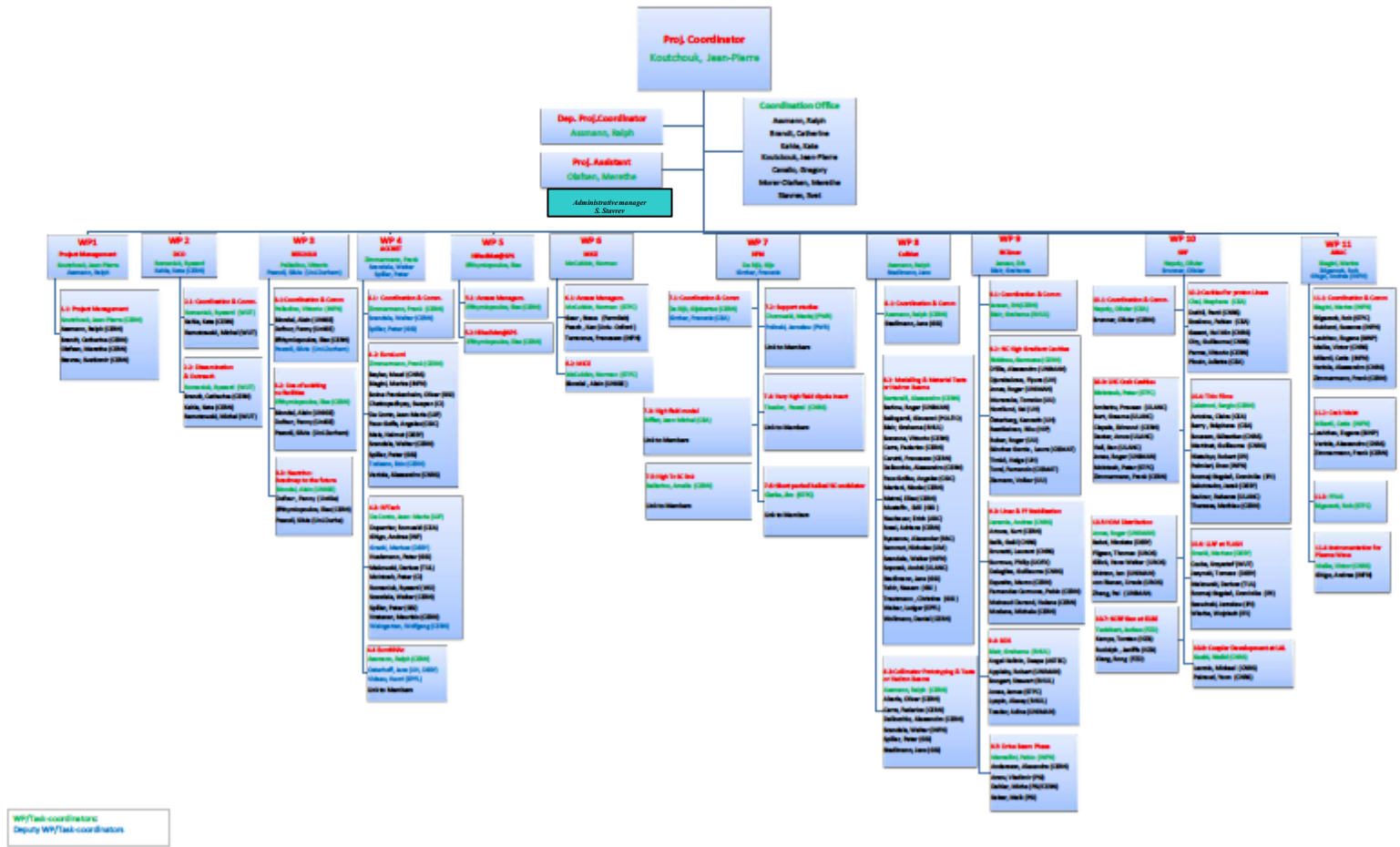
2a- Human resources

Total effort: ~ 50 FTE's spread over ~235 persons (stable)



Number of persons involved per participant

EuCARD contacts



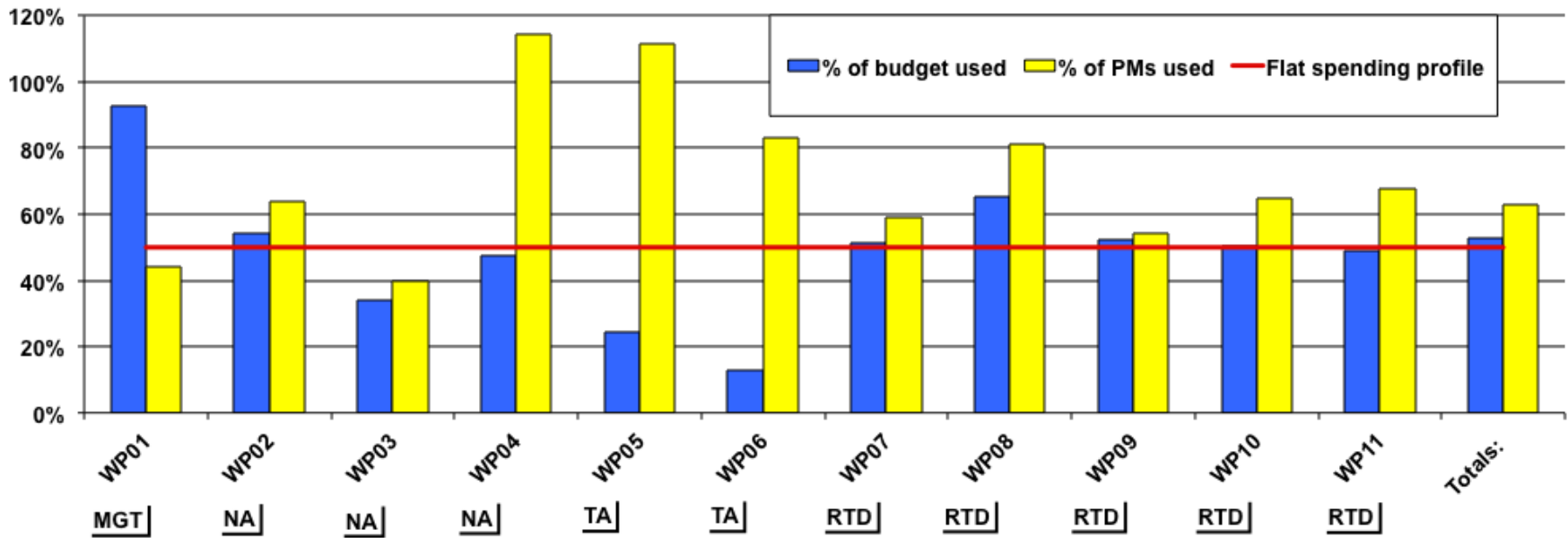
2b - On-going PHD's

Country	Number of ongoing PhD's
Austria - CERN	1
Finland	2
Germany	9
Italy	3
Malta-CERN	2
<i>Mexico-CERN</i>	2
<i>Norway</i>	1
Poland	12
<i>Romania</i>	1
Sweden	1
Switzerland	4
UK	5
TOTAL	41

WP	Number of ongoing PhD's
3: Neu2012	1
4: AccNet	9
5: HiRadMat@CERN	1
6: MICE@STFC	3
7: HFM	2
8: ColMat	9
9: NCLinac	7
10: SRF	8
11: ANAC	1

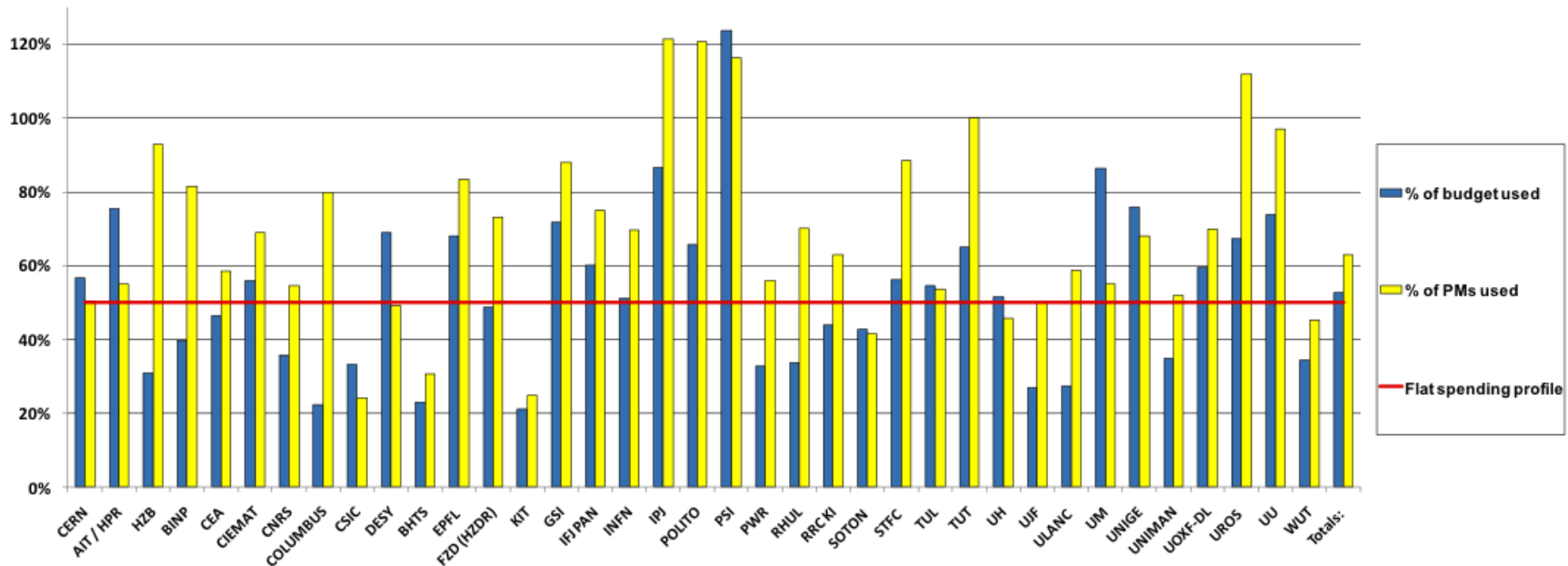
3a - Use of resources

Use of resources by Work Package



3b – Use of resources

Use of resources by participant



On average, the total budget is used at a 53% level after 2 years, while the majority of Institutes is providing more manpower on their own budgets.

4 - Changes in EuCARD

4a – Changes to the scientific program

Task 9.3: Linac & FF stabilization:

It had been anticipated to measure the stability of the final focus alignment in ATF2 with an interferometric system “Monalisa”. The precision goal was actually reached with inertial sensors. After discussion, the remaining EC funding will remain with the task and partner, with the goal of providing a new deliverable in coherence with the task studies:

Design of a feedback system for ATF2 IP, with a view to demonstrating nanometer beam stability by 2013. Collaboration of UOXF with Korean and Japanese partners.

4b – Changes to the organization

3	Neutrino network	V. Palladino/U. Napoli, S. Pascoli/U. Durham	3%
4	Accelerator sciences networks	F. Zimmermann/CERN, W. Scandale/CNRS-LAL, P. Spiller/GSI	6%
5	Access to HiRadMat@SPS	I.Efthymiopoulos/CERN	0.5%
6	Access to MICE	N. McCubbin/STFC-RAL	2%

Task 11.3 (Upgrade of the EMMA FFAG Ring): the CNRS contribution relied on one expert who left. The remaining EC funding will be transferred to a new partner.

10	SC RF technologies	O. Napolj/CEA , O. Brunner/CERN	24%
11	Novel concepts	M. Biagini/INFN, R. Edgecock/STFC-RAL	9%

4c - Contractual changes

- two partners changed their legal status or names (AIT replaced by RHP-Technology GmbH & Co, FZD changing its name to HZDR)
- The University of Music and Performing Arts Graz (KUG) has informally joined as Associate Institute.
- Amendment no.2 to the Grant Agreement is under preparation (change of one legal status, one possible new partner).

5- Activities of management bodies

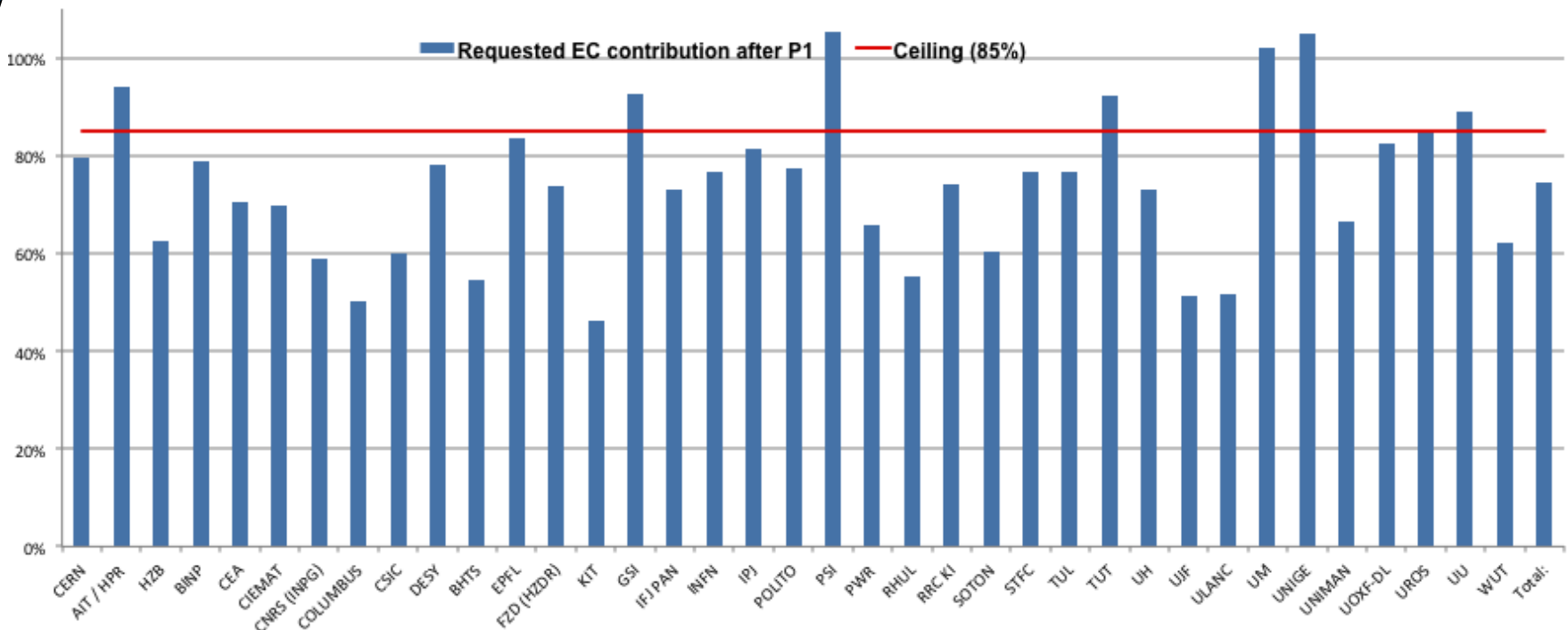
- **Coordination office:** Meets once a month.
- **Governing Board:** met 15/4/2010;
- **Steering Committee (= programme com. of annual meetings)**

15-4-2010	RAL	F2F	Joint GB-SC meeting.
12 & 13-10-2010	Malta	F2F	scientific reports of WP activities, preparation of the new NA on laser/plasma acceleration, organization for periodic EC reporting, annual meeting in Paris, preparation of EuCARD2 (R. Aleksan invited).
17-1-2011	CERN	audio	Preparation of EuCARD2011 in Paris, organization of Mid-term review.

5- Activities of management bodies: some results

- **First periodic report to EC**
- Organization of the second Annual Meeting
- Organization of workshops in support to networks (WP3 and 4)
- **Administrative follow up of contract**
- Follow-up of scientific progress and mitigations
- Contributions to more sustainable structures for accelerator R&D: laser and plasma network, support to FP7 HiLumi LHC, to TIARA-PP, to ESGARD for « EuCARD2 ».

6- Distribution of the funding



- P1 Financial Report – approved
- Paperwork by the EC not yet completed
- Payment to Consortium expected by end of May 2011
- Funding received by any partner during the project – limited to 85% of the max. EC contribution. Budget allocation changes (if any) to be decided by the GB at the last meeting in 2013.

7- Plans for year 2011/2012

1. *Mid-term review in June 2011*
2. *Second exercise of periodic EC reporting in spring 2012: active collaboration and help expected from partners.*
3. *Continue the studies for a possible medical (and industrial) accelerator network, in liaison with the preparation of EuCARD2.*
4. *Contributions to the preparation of EuCARD2.*
5. *Support to TIARA-PP*

Conclusions

The EuCARD project has smoothly progressed in this second year. At month 26, the average delay in reaching milestones is about 2 months, without serious issues appearing so far.

In fact, most Institutes provide more manpower effort than contractual, giving confidence for the future.

A new network on laser/plasma acceleration is born, after preparation with the corresponding communities. A number of challenges are to be faced to allow a transition from laser/plasma “acceleration” to “accelerators”.

In collaboration, and as part of ESGARD activities, the continuation of EuCARD is under study. New networks are anticipated, such as applications of accelerators to industry and medicine, energy efficient systems,... with possible synergies between EuCARD and “EuCARD2”.