



A Vision from CERN



The HiLumi LHC Design Study (a sub-system of HL-LHC) is cofunded by the European Commission within the Framework Programme 7 Capacities Specific Programme, Grant Agreement 284404



Lucio Rossi
CERN

Round table on EC programs
Eucard/Eucard2 workshop 2013



(constructive!) critics

- There is little connection between the assessment of the proposals and the EU strategy of HEP (Esgard, CERN Council)
 - Change in assessment for similar programs (HFMagnets)
 - FP6-CARE : NED ↓↓
 - FP7-Eucard : WP7 ↑↑
 - FP7-Eucard2 : WP10 ↓↑
 - Referees have their own interest, ideas and community (which is normal). EC officers should be empowered to correct/mitigate - if the case – their assessment
 - It is better for Design Study and PP applications

Critics (Cont.)

- Assessment that programs are too much centered to CERN is simply not the point: CERN is the center of networking in EU !!!!
- For the **CERN-core programs**, CERN waive all request for technical work (only cost as coordinators)!
 - HiLumi LHC: CERN has received 13% of cost vsd. 50% for all other ERA participants
 - Eucard2-WP10: see next slides

How is possible to hear that the magnet program is only of CERN interest?

Beneficiary	Total costs (direct +indirect)	Total EC requested funding	Funding by EC in % of direct cost only	Funding by EC in % of total cost
CERN	2,093,971	159,977	12	8
CEA	566,433	241,231	58	43
INPG	258,214	93,603	58	36
INFN	429,592	155,727	58	36
KIT	285,024	106,850	58	37
SOTON	174,121	66,271	58	38
UNIGE	262,195	95,046	58	36
UT	303,328	109,956	58	36
BHTS	682,126	219,114	58	32
TUT	79,603	28,856	58	36
DTI	139,368	53,758	58	39
TOTAL:	5,273,975	1,330,389	40	25

The same could be said for collimators

Cont.

- The funding for CERN should not go on the verge of insignificance.
- How to report the real funding we put on the program? Or this would make EU contribution even more insignificant?

Further observations

- The legal/IP part **for our programs** is uselessly heavy and impedes to associate non-EU, especially US labs.
 - In Hilumi Fermilab was NOT considered as Research Entity, its running company was treated by Bruxelles as an escamotage...
 - **Japan (KEK) is a remarkable good exception!!**
- Strong support to networking, Collaboration Meetings, Coordination activities... overlaps with conference, topical workshop and project CMs
 - Mitigation: code sharing...
- Four years is short for long term program (DOE CDP 1998 till now). A revisable 10 y program would be much better...
 - Mitigation: we bridge successive programs (CARE-Eucard-Eucard2 with strong links with SLHC-PP, HiLumiLHC DS, etc..

Good remarks!

- The call triggers new ideas and association.
 - In HiLumi the collaboration on LHC has been very much enlarged... much more than LHC.
- A call is like a train: let's get on board, create excitement and gives always a fresh air
- **MSs** and **DLVs**: the concept is quite good, I think we need to use it better.
 - Discipline R&D (R&D syndrome: «tomorrow»...)
 - **It valorize that we make things and progress...**
 - Suggestion: have an Assessment 1 year after the end of program to understand the real progress and influence of each program.

Good (Cont.)

- Since CERN is home to large and expensive facilities:
 - We have extensive and unique infrastructures
 - We are in a better position than universities and small research centers to «apply» or making a reality of new ideas and new concepts that come from us **or may come for collaborating Institutes**
 - Thanks to the workshop facilities we are able to engineer and prototype devices. We can also test them in real conditions
 - One of our main goals is to stimulate the inventiveness of our supporting partners and channel development to ensure the collaboration is a «win-win» game.
- The EU program value goes beyond the amount of money distributed;
Collaboration is INVALUABLE for us, and never «insignificant» despite not adequate financing
 - **However a support from EU at higher level than today to research centers with long term programs and strong link to Industry (like CERN and other Accel. Labs) would be appreciated and beneficial for EU**