
PLAN FOR THE PREPARATION OF AN INTEGRATED ACTIVITY FOR HIGH INTENSITY – HIGH ENERGY PROTON BEAMS IN FP7

- Reminder
- News

Reminder (ESGARD – 5/12/2006)

- IA content
 - 2 Networks
 - 2 Transnational Access
 - 6 Joint Research Activities

Total cost: 44.6 MEuros

No change since last December

Last news concerning EU instruments

- **CNI for the LHC upgrade:**

- has been submitted in May,
- contains technical work packages on NbTi magnets and injectors (SPL/Linac4) [4.8 MEuros (1.6 MEuros from Brussels)].
- the content of the proton IA will take into account Brussels's decision on this CNI.


- **Neutrino DS:**

- has been submitted in May,
- modest CERN participation (~10 m.y)

- **IA on high intensity/ high energy proton beams:**

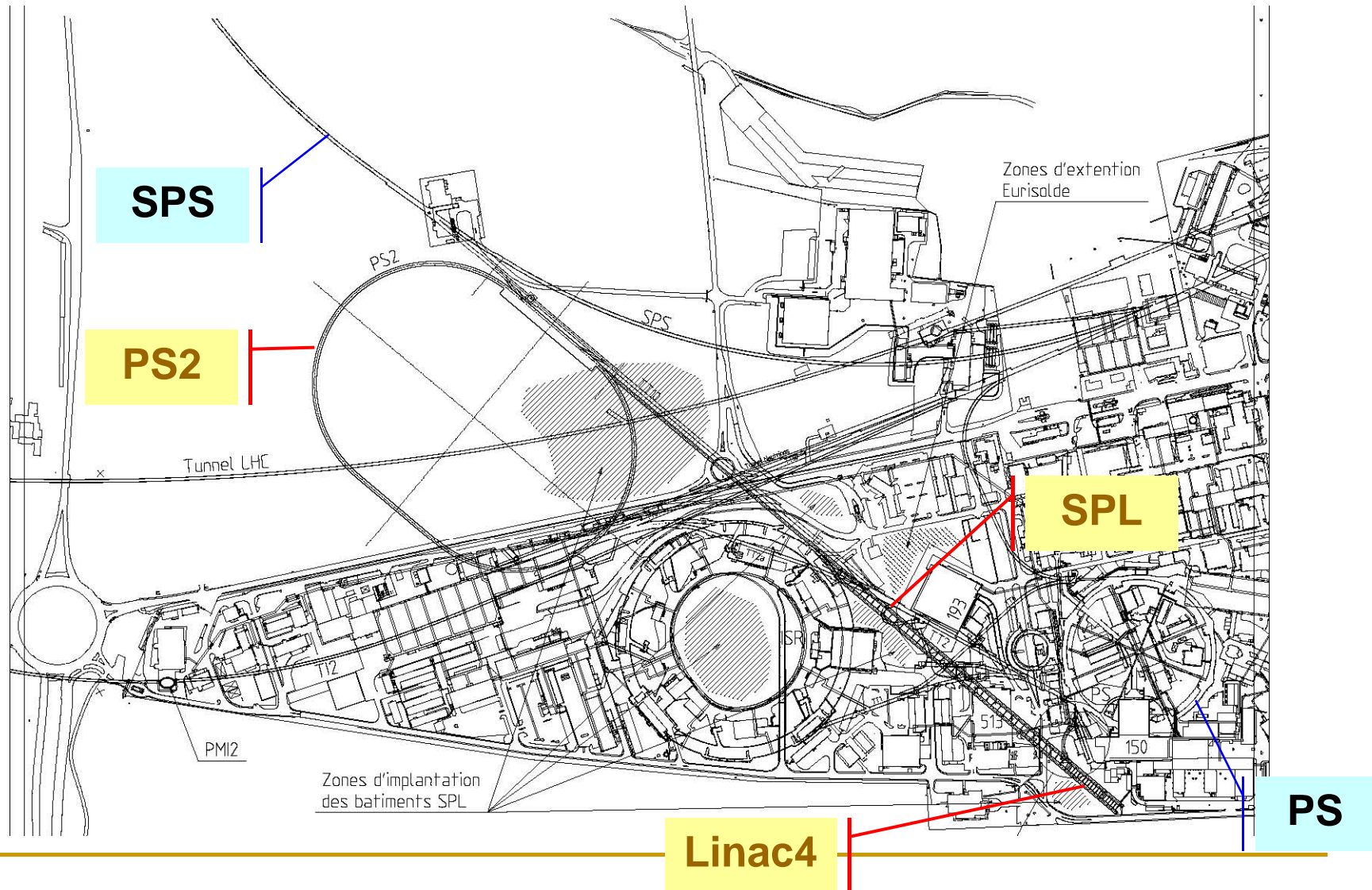
- WG1 will start working during the Summer, to prepare for the meeting at CERN in September 10-11,
- Coordinator unchanged for the time-being,
- Objective: plan for an EU's contribution reduced to 10 MEuros

Other news: “White Paper” actions

- **Project leaders have been nominated by R. Aymar:**
 - L. Evans to overlook everything concerning the LHC upgrade (LHC itself + injectors) [~ PAF]
 - Linac4: M. Vretenar
 - SPL: R. Garoby
 - PS2: M. Benedikt
 - SC magnets: to be clarified (L. Rossi ?)
- **Injectors’ site is decided.** 
- **PAF Study teams will refine the CERN goals in the future proposals:**
 - LHC itself (no chairman yet): L. Evans ?
 - SPS upgrade: E. Shaposhnikova
 - PS2 (decision soon on the interest of sc magnets) : M. Benedikt
 - SPL (after some iterations, the SPL is endorsed by the SPC review committee and the SPC itself): R. Garoby
 - Neutrinos: M. Meddahi

SPARE SLIDES

Layout of the new injectors



Networks

Name	Type	Description	New Cost (Meuro)	Duration (years)	Priority	Comment
EURO-LUMI	Network	LHC Luminosity upgrade	1	4-5 ?	1	~ HHH
EURO-DRIVER for neutrinos	Network	Proton Driver for a future neutrino facility	0.6	4	2	~ Part of BENE

No longer competing for DS in 2007

Superconducting magnets

Name	Type	Description	New Cost (Meuro)	Duration (years)	Priority	Comment
HFM	JRA	High Field Magnets for LHC upgrades	12	4-5	1	Contains LUMAG
HTS_SL	JRA	HT superconducting link	1	4-5	1	
FAM	JRA	Fast Cycling Superconducting Magnets for Synchrotrons	8	4-5	2	Goals to be reviewed
CryoMagNet	TA	Characterization of conductors for superconducting magnets	1	4-5	1	

Collimators & targets

Name	Type	Description	New Cost (Meuro)	Duration (years)	Priority	Comment
ColMat	JRA	Collimators and Materials for High Power Accelerators	9 ?	5	1	
HiRadMat	TA	Test of materials in extreme irradiation	1 ?	5	1	Test facility for ColMat

Superconducting proton linac

Name	Type	Description	New Cost (Meuro)	Duration (years)	Priority	Comment
SLPD	JRA	Superconducting linac-based Proton Driver	7	4	2	H- ion source development moved to H-ISAPS
H-ISAPS	JRA	H- Ion Sources and Associated Plasma Studies	4	5	2	LISAPS limited to H-