

# SPC (mid-term) Report to Council

18-June-2010

E. Fernandez

## **SPC Terms of Reference**

CERN/SPC/313/Rev.6

CERN/2812

20 November 2008

- (a) to make recommendations to the Council on the priorities of research programmes and the allocation of research effort both within the Laboratories of the Organization and extramurally;
- (b) to examine annually the medium-term plan which defines the objectives and activities of the Organization for the following five budget years, and to make recommendations to the Council in that regard;
- (c) to assess annually the achievements of the Organization with regard to the annual goals set for the previous year;
- (d) to advise the Council from the point of view of scientific policy on the management and staffing of the Organization, including the programmes concerning the fellows and associated members of the personnel as well as senior staff appointments by the Council;
- (e) to advise the Council on any other matters which affect the scientific activities of the Organization.

## Members as from January 2010

### Members

R. Aleksan	France
J. Aysto	Finland
A. Bondar	Russia
B. P. Braun-Munzinger	Germany
M. Diemoz	Italy
R.K. Ellis	USA/UK
E. Fernandez (Chair)	Spain
D. Fournier	France
M. Harrison	USA/UK
D. Hartill	USA
H. Murayama	USA/Japan
C. Spiering	Germany
G. 't Hooft	Netherlands
K. Tokushuku	Japan
D. Wark	UK/USA
F. Zwirner	Italy

### Ex-Officio Members

P.A. Butler	Chairman INTC
C. Vallee	Chairman SPSC
T. Wyatt	Chairman LHCC
T. Nakada	Chairman ECFA
<b>Also Present</b>	
R. Heuer	Director-General
M. Spiro	President of Council
M. Steinacher	FC Chairman

The committee meets 4 times/year (Mon. & Tues. Council Weeks)  
+ 1 special meeting in May (devoted to MTP)

- Standing items in agenda (taken from March 2010):
  1. Adoption of the Agenda
  2. Approval of the Draft Minutes of the Two-Hundred-and-Sixty-Third Meeting
  3. Matters Arising
  4. Chairman's Report
  5. Briefing by the President of Council
  6. Member State Matters (Director-General – Oral)
  7. Non-Member State Matters (Director-General – Oral)

- Standing items in agenda (cont.):

8. LHC Matters:

- Status report on the LHC Machine  
(S. Myers – Oral)
- Status report on LHC Experiments and Computing  
(S. Bertolucci – Oral)

9. Report by the Chairman of the CMAAC

- Items from March 2010 agenda:
  - Reports on the fixed-target programme by the Chairmen of the SPSC (C. Vallee – Oral ) and the INTC (P. Butler – Oral)
  - Report on the outcome of the Chamonix workshop
  - Annual Progress Report for 2009
  - First Discussion on Medium term Plan
  - Status report on the Scientific and Geographical Enlargement of CERN (R. Petronzio – Oral)
  - European Strategy Issues  
Discussion of the timing of the update of the European Strategy for Particle Physics  
(S. Stapnes – Oral)

## INTC Report

n\_TOF in 2001-2004:

7 experiments

80 participants

ISOLDE:

100 experiments

580 participants

## SPSC Report

Fixed Target experiments

AD

CLOUD

CAST

≈ 20 experiments, 1000 participants

- Items from March 2010 agenda:
  - Reports on the fixed-target programme by the Chairmen of the SPSC (C. Vallee – Oral ) and the INTC (P. Butler – Oral)
  - Report on the outcome of the Chamonix workshop
  - Annual Progress Report for 2009
  - First Discussion on Medium term Plan
  - Status report on the Scientific and Geographical Enlargement of CERN (R. Petronzio – Oral)
  - European Strategy Issues  
Discussion of the timing of the update of the European Strategy for Particle Physics  
(S. Stapnes – Oral)

## **Chamonix Workshop**

(Accelerator Division Meeting in January)

After this year's meeting:

Run for 2 years at 3.5 TeV/Beam

SPL and PS2 cannot be ready until  $\approx 2020$

Large Consolidation Program needed

Present intensity limitation: SPS

- Items from March 2010 agenda:
  - Reports on the fixed-target programme by the Chairmen of the SPSC (C. Vallee – Oral ) and the INTC (P. Butler – Oral)
  - Report on the outcome of the Chamonix workshop
  - Annual Progress Report for 2009
  - First Discussion on Medium term Plan
  - Status report on the Scientific and Geographical Enlargement of CERN (R. Petronzio – Oral)
  - European Strategy Issues  
Discussion of the timing of the update of the European Strategy for Particle Physics  
(S. Stapnes – Oral)

- Items from March 2010 agenda (cont.):
  - Report to Council by the SPC Panel on Future Neutrino Facilities  
(A. Zalewska – Oral )  
  
CERN/SPC/940 CERN/2894  
6-page executive summary + 28-page report
  - Overview of Activities in the Astroparticle Physics field  
(Ch. Spiering – Oral)

- May 2010 meeting

Standing items plus:

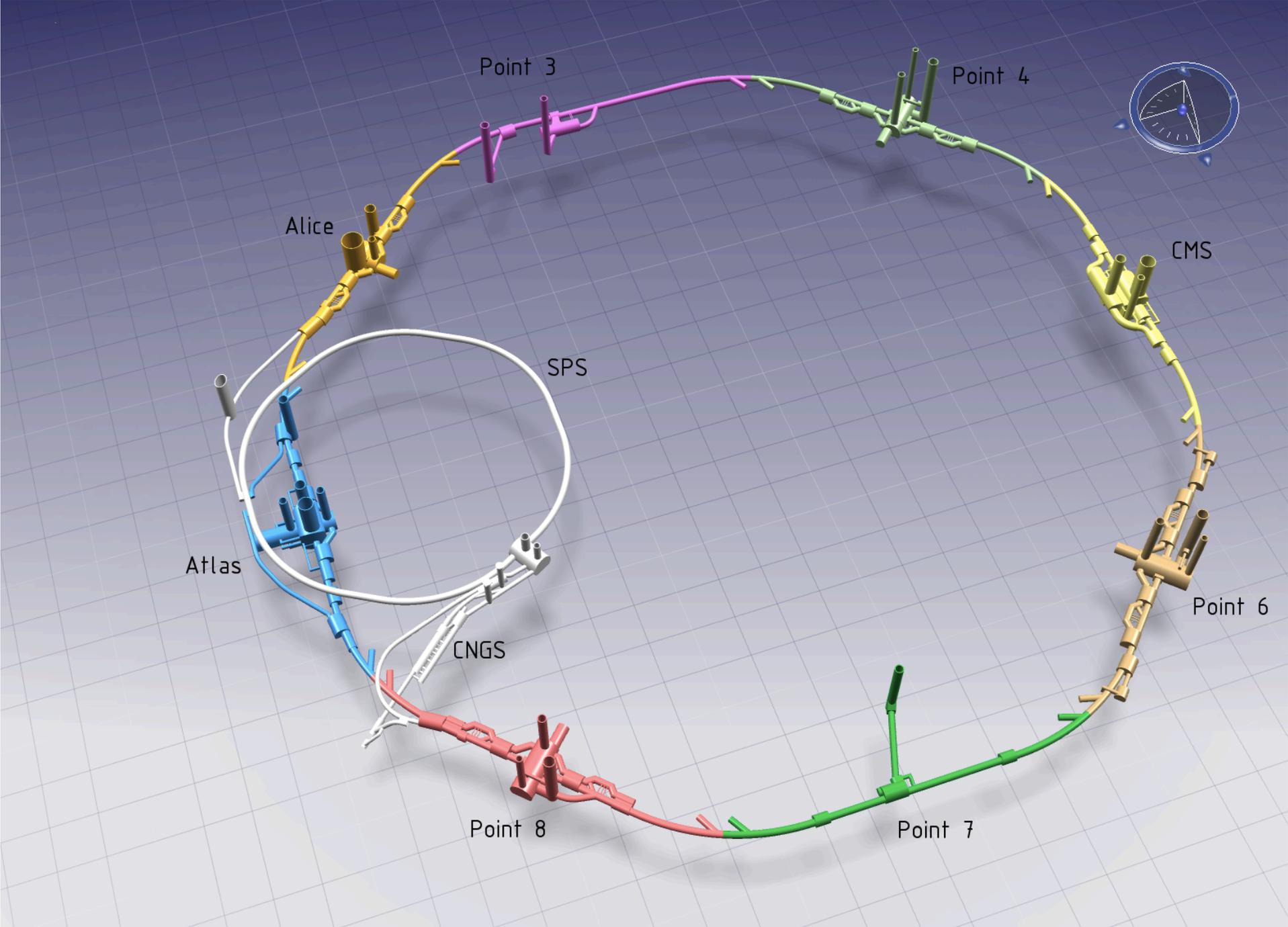
- a) Strategy of the Medium-Term Plan for 2011-2015. Changes with respect to previous MTP
- b) The Scientific Activities of CERN and Budget Estimates for the Years 2011-2015 (Director-General - Oral)

Ref.: Minutes of SPC Meeting, CERN/SPC/946/

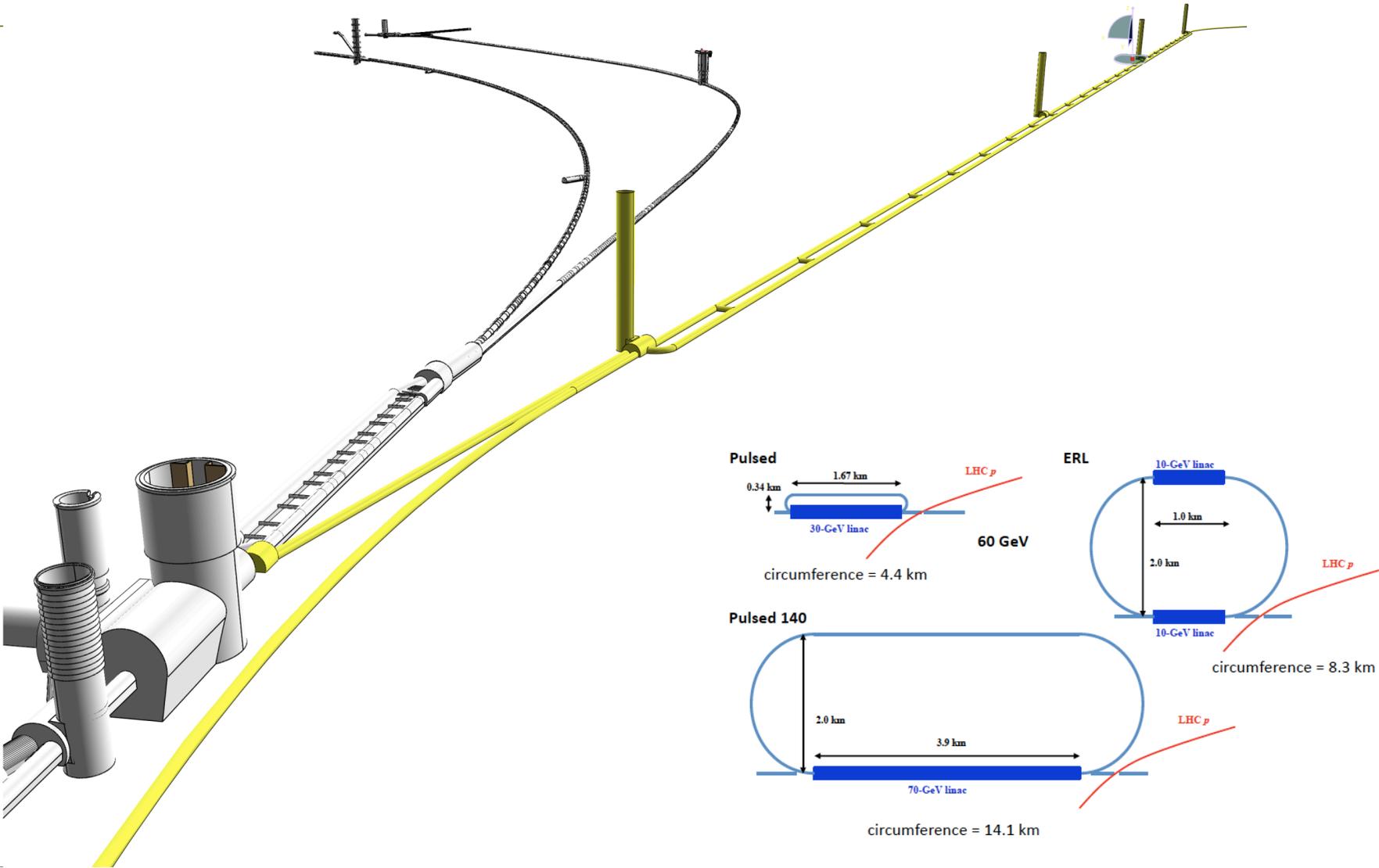
- Items from June 2010 agenda:
  - Report on MTP  
(D. General– Oral )
  - Annual Report  
(S. Lettow – Oral)
  - Report on Implementation of the Additional Budget for new Activities incorporated in the 2008-2011 Medium Term Plan.

- Items from June 2010 agenda (cont.):
  - Presentation of the LHeC  
(M. Klein – Oral )
  - Presentation of HIE-ISOLDE  
Physics (Y. Blumenfeld – Oral)  
Machine (Y. Kadi – Oral)

# LHeC Electron-Proton Collider



# LHeC Electron-Proton Collider

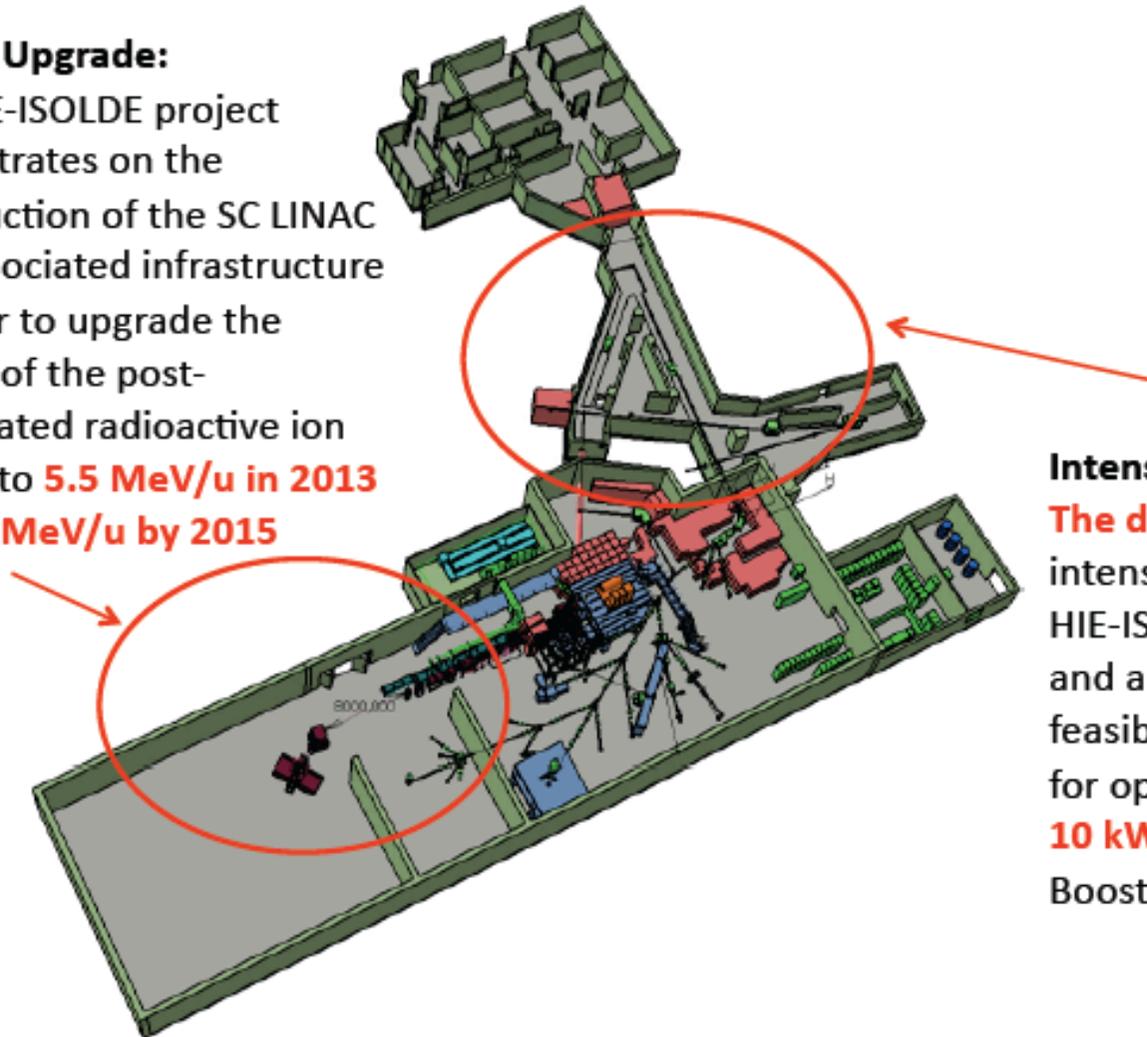


# Scope of HIE-ISOLDE



## Energy Upgrade:

The HIE-ISOLDE project concentrates on the construction of the SC LINAC and associated infrastructure in order to upgrade the energy of the post-accelerated radioactive ion beams to **5.5 MeV/u in 2013** and **10 MeV/u by 2015**



## Intensity Upgrade:

The **design study** for the intensity upgrade, also part of HIE-ISOLDE, **starts in 2011**, and addresses the technical feasibility and cost estimate for operating the facility at **10 kW** once LINAC4 and PS Booster are online.

- Items from June 2010 agenda (cont.):
  - Presentation of the LHC Physics Centre at CERN (LPCC)  
(M. Mangano – Oral )
  - Status report of the Working Group on Scientific and Geographical Enlargement of CERN  
(F. Pauss – Oral)
  - Preparation of the September European Strategy Session  
(S. Stapnes – Oral)

## Areas of interest and examples of current initiatives:

- **Physics.** E.g.
  - workshops
  - working groups
  - LHC physics days
- **Support.** E.g.:
  - software/computing
  - theory contacts
- **Inreach/education/networking.** Eg:
  - LHC reports
  - student initiatives
  - LPCC web page

- Items from June 2010 agenda (cont.):
  - Presentation of the LHC Physics Centre at CERN (LPCC)  
(M. Mangano – Oral )
  - Status report of the Working Group on Scientific and Geographical Enlargement of CERN  
(F. Pauss – Oral)
  - Preparation of the September European Strategy Session  
(S. Stapnes – Oral)