

The European Strategy – summary and updates



- Will focus on the key points from the September European Strategy Council session (short) and work after
 - Strategy Status
 - Strategy Update
 - ApPEC workplan document
 - CERN – The European Commission



The European Strategy

| | Strategy Point | Comments |
|-----------------------|--|--|
| General issues | Council will update the Strategy | |
| Scientific activities | LHC completion and SLHC R&D Accelerator R&D Linear Collider Neutrino Physics Links to Astroparticle Physics Flavour Physics Links to Nuclear Physics Theory | Reviewed these points one by one, summarizing the status and towards next steps. In general the Strategy has been very closely followed since 2006. |
| Organisational issues | Strategy follow up and set up strategy secretariat Engagement with other regions EU relationship Non member states relation to Strategy definition | Strategy update 2012 news Specific agenda point |
| Complementary Issues | Communication Network Technology Network and Transfer Industry Relation | Report Report |



The European Strategy

| | Strategy Point | Comments |
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| General issues | Council will update the Strategy | |
| Scientific activities | LHC and SLHC R&D, Accelerator R&D, Linear Collider, Neutrino Physics, Links to Astroparticle Physics, Flavour Physics, Links to Nuclear Physics, Theory | Workplan with ApPEC |
| Organisational issues | Strategy follow up and set up strategy secretariat Engagement with other regions EU relationship Non member states relation to Strategy definition | Strategy update 2012 Enlargement Working Group: Opening of CERN, Global Project Paper. Report from FALC in Council CERN-EC annual meeting Define in REMIT for 2012 update |
| Complementary Issues | Communication Network Technology Network and Transfer Industry Relation | Report from Comm. Netw. Report from TNet No systematic studies of “problematic” contracts during LHC construction |



Main points

Strategy Update:

- Prepare the remit for the 2012 Strategy update and appointments to the Preparation and Strategy Groups.
- Define the international participation in the 2012 Strategy update.
- Initiate the Strategy update process.

Scientific:

- Continue to keep focus on physics results from the LHC and in the neutrino sector as guidance in preparation of the Strategy update.
- Consider how the CLIC programme and other investments for future projects can be maintained given the foreseen reductions in the CERN MTP.

Information and coordination:

- Consider the coordination of national programmes and the Strategy update.
- Continue to develop contacts with the EC and the ESFRI process to make sure that the 2012 update process is taken fully into account.

Issues related to the Strategy points:

- The Strategy Secretariat and associated bodies to address the points that are least developed, namely contacts with NuPECC and the points concerning Theory and Industry Relations.
- Increase Strategy-related activities in Directors' meetings and continue the important activities in ECFA relating to the Strategy implementation and follow-up.
- Address detailed points as outlined in chapters 2-5 above, including following up the workplans with the EC and ApPEC.

The Council is invited **to take note and comment on the 2010 Strategy status report**, make **suggestions for format and content improvement** in the future, and **approve the Strategy follow-up points in chapter 6** as priorities for the coming year



Strategy Update bodies

- At intervals of “at most every 5 years” the Council, in its European Strategy Session, shall update the medium and long-term European Strategy for Particle Physics (“the Strategy Update”). For this purpose, it shall set up an ad-hoc Working Group, the European Strategy Group (“ESG”), just like it has done for the Strategy that was adopted in Lisbon in July 2006.
- The ESG shall be assisted in the execution of its task by a Preparatory Group

European Strategy Group and Preparatory Group composition



- The composition of the ESG group, as well as of the Preparatory Group, is described in two documents CERN/2732/Rev and CERN/2779 adopted by the Council in 2007-8.
 - ESG: Delegates from the CERN Member States, the Director-General of CERN, the Directors of the major European laboratories, and the members of the Strategy Secretariat. The ESG will be chaired by the Scientific Secretary
 - All the Observer States and the Associate States should be invited to attend (Open) meetings of the ESG as Observers, like at the Zeuthen meeting (CERN/2732/Rev section 6)
 - Developments and considerations since these documents were written:
 - EU and ApPEC representatives attend the Strategy Sessions of Council, with the right to take the floor
 - FALC, ESFRI and NuPECC to be invited as observers to Open meetings of the ESG justified by developments since 2007 (FALC and NuPECC were observers also in 2006).
 - Preparatory Group: Four representatives nominated by the SPC and four by ECFA, as well as the four members of the Strategy Secretariat.
 - Changes to discuss: One representative from Asia and one from Americas, alternatively (better?) a wide consultancy with partners outside Europe as part of the procedure



REMIT Document (main points)

The remit of the ESG shall be to establish a Draft Strategy Document (“DSD”), which would constitute the proposal for the Strategy Update, for approval by the Council.

- The DSD shall include a review of the implementation of the 2006 Strategy, as well as of the structures and procedures currently in place with regard to the Strategy.
- It shall outline priorities following a thematic approach, with special emphasis on future large infrastructures/projects, including preparatory steps for a next project at CERN after LHC in a global context, and consider time scales and resources. It shall also consider CERN’s future participation in experiments outside the Geneva Laboratory as part of the Strategy implementation.
- The Strategy Update proposed in the DSD shall in particular aim at:
 - enhancing the visibility of existing European particle physics programmes;
 - increasing collaboration among Europe's particle physics laboratories, institutes and universities;
 - promoting a coordinated European participation in global projects and in regional projects outside Europe;
 - encouraging knowledge transfer to other disciplines, industry, and society.
- The DSD shall comprise a series of ordered and concise statements of 1-2 pages each, followed by more detailed presentations that shall not exceed 25 pages.



Timeline for Strategy Update

- Start in March 2011 Council week with outline of the process:
 - Composition of Strategy Group and Prep. Group
 - RemitTwo separate papers needed
- June 2011 Council: A complete name list for the Strategy Group and Prep. Group for approval
- July 2011 EPS: “Kick off” meeting, review status, raise (some) main questions (half a day), discussion
- From July 2011: Be prepared for and encourage/collect input from community, international interactions and consultancy – for Briefing Books or equivalent
- Sept 2011 Council: Final implementation plans discussed
- October 2011 (3-6.10): ICFA seminar at CERN, “global” perspective on roadmap(s)

- An “Orsay like” meeting ~March-April 2012 (~2-3 days) – wait for winter conferences
- A “Zeuthen like” meeting ~May-June 2012 (~a full week)
- Approval in ~September 2012 Council session in Brussels, arranged with the help of the EC



A CERN-ApPEC workplan

The areas of cooperation included are divided into two broad categories:

- *General Policy Issues*, which address overall implementation aspects and future orientations of the two main operational activities of the two Sides:
 - Cross-representation and consultancy, beyond what exists already
 - Discussion of ApPEC's role in the forthcoming Strategy Upgrade (and CERN's role in the ApPEC roadmap update) and ApPEC's involvement in the CERN Scientific Enlargement discussions over the coming 2 years (will become part of the Strategy update)
 - Discussion of future more formal links between CERN and ApPEC (also linked to the Strategy Update)

- *Thematic Cooperation Areas*, where concrete cooperation activities can be identified and implemented over the 2-year duration of the workplan. Possibilities are:
 - Common CERN-ApPEC theory programme and common outreach activities.
 - Common issues related to Open Access, IT tools, Administrative tools
 - Common R&D calls and more generally CERN participation in ASPERA where CERN is a partner. [This point needed a clarification after the September meeting.](#)
 - Use of testbeams and other facilities relevant for projects of common interest.
 - CERN support to possible future projects in the area of astroparticle physics.

Format: Short text with a description and objectives, a description of how the workplan is approved, monitored and kept updated.

[Revised version taking into account the comments made in Council in September sent to the ApPEC Steering Committee, which will meet 10.1.2011.](#)



FP7 projects in 2009-11

- Two key projects submitted in December 2009:
 - AIDA (Integrating Activity addressing the topic: Infrastructures for Detector R&D)
 - TIARA (Invited preparatory phase project from the European Strategy: Infrastructures for Accelerator R&D)Both successful (65-80% of budgets approved), will start early 2011 (TIARA Jan 1, AIDA Feb 1).

- New calls in July 2010 – submitted end Nov 2010
 - Most relevant for us: Design Studies (bottom up, not targeted) and Integrating Activities:
 - Design study for High Luminosity – LHC
 - Also an interesting Integrating Activity project for high energy cosmic rays, multi-messenger approach for astroparticle physics (HEAP-MM)
 - New type of projects: "Implementation of common solutions for a cluster of ESFRI infrastructures in the field of "Physics and Analytical Facilities". Synergies in the development of key critical components common to the ESFRI Infrastructures in the field of Physics and Analytical Facilities. Some specific activities related to accelerator or detector components are identified with relevance for particle physics. IT infrastructures and Relations with Industry are other areas where co-operation will be implemented. This project (CRISP) has been submitted.

- Expected for 2011: Integrating Activity topic related to accelerator R&D will be very important



CERN-EC annual meeting

- Took place Monday 6.9 – it is a part of the CERN-EC MoU and the workplan between CERN and the EC
- Met with three Directors-Generals of the EC
- DG Research (Robert-Jan Smits), DG Education and Culture (Jan Trzuszczński), DG Information Society (Robert Madelin), as well as with the Commissioner for Science, Research and Innovation (Máire Geoghegan-Quinn).
- Some key topics discussed:
 - Current and future FP7 projects in “our” area (covering RI, E-Infra, Open Access, Knowledge transfer), Marie Curie networks and their importance, Future workshops in specific areas, as a follow up of Physics for Health but also other possibilities
 - Simplification of 3rd party rules
 - FP7 evaluation and the input provided by CERN, the next framework programme
 - Role and focus on basic research in future EU programme
 - Joint programming in the area of Accelerator R&D in the future.
 - The Strategy Update in Brussels in 2012
 - EC’s role in the Strategy Update process
 - General topics as:
 - Global projects and challenges connected to them
 - Implementation of ESFRI projects and role of the EIROForum organizations
 - Energy research and the ITER situation



Summary

- Positive status of the 2006 Strategy Implementation – we are following the Strategy very well (indicating that it was well constructed and quite realistic even though we need to add a year or two to some of the foreseen schedules at that time)
- Preparation of the 2012 Strategy Update continues
- Contacts with ApPEC is being pursued with a draft workplan
- Very useful and important annual meeting (linked to the CERN/EC MoU) with the European Commission in September