

# Why are we here: the CERN Council Strategy Process

v Town Meeting  
CERN  
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# European Strategy for Particle Physics

## **The European Strategy for Particle Physics**

At appropriate intervals, at most every 5 years, the European Strategy Session of Council will re-enact the process aimed at updating the medium and long-term European Strategy for Particle Physics, by setting up a Working Group, the European Strategy Group (ESG), similar to the Strategy Group in 2005/2006. The ESG will be a Working Group of Council which will cease to exist each time Council has adopted the new medium and long-term Strategy. The remit of the ESG will be to establish a proposal for the European Strategy Session of Council to update the medium and long-term European Strategy for Particle Physics.

Council, September 2007

For the purposes of the Strategy Update, the ESG will be assisted by an ad hoc Preparatory Group.

<http://europeanstrategygroup.web.cern.ch/EuropeanStrategyGroup/>

# European Strategy for Particle Physics

## **The European Strategy Group (ESG)**

The remit of the ESG is to establish a proposal for an Update of the medium and long-term European Strategy for Particle Physics, for approval by the Council. It is proposed that the proposal will take the following elements into account:

The Update of the European Strategy for Particle Physics 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.

<http://europeanstrategygroup.web.cern.ch/EuropeanStrategyGroup/>

# European Strategy for Particle Physics

The proposal 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.

The proposal 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 possible future participation by CERN in experiments outside the Geneva Laboratory as part of the Strategy implementation.

The proposal shall comprise a series of ordered and concise statements of 1-2 lines each, or 1-2 pages in total followed by more detailed presentations that shall not exceed 25 pages.

<http://europeanstrategygroup.web.cern.ch/EuropeanStrategyGroup/>

# European Strategy – 2006 Version



[http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy\\_Brochure.pdf/](http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy_Brochure.pdf/)

# European Strategy – 2006 Version

## *Three neutrinos that made our world*

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Don't make light of them. These ghostly particles can pass through planets as if they were not there but somehow the neutrinos know how to throw their weight around. Tiny particles that began as notional units of subatomic profit and loss are now credited with a role in shaping the Universe.

2 pages on neutrino physics –  
one of which is a title page....

[http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy\\_Brochure.pdf/](http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy_Brochure.pdf/)

# European Strategy – 2006 Version

## *General issues*

1. European particle physics is founded on strong national institutes, universities and laboratories and the CERN Organization; *Europe should maintain and strengthen its central position in particle physics.*
2. Increased globalization, concentration and scale of particle physics make a well coordinated strategy in Europe paramount; *this strategy will be defined and updated by CERN Council as outlined below.*

[http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy\\_Brochure.pdf/](http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy_Brochure.pdf/)

# European Strategy – 2006 Version

4. In order to be in the position to push the energy and luminosity frontier even further it is vital to strengthen the advanced accelerator R&D programme; *a coordinated programme should be intensified, to develop the CLIC technology and high performance magnets for future accelerators, and to play a significant role in the study and development of a high-intensity neutrino facility.*

6. Studies of the scientific case for future neutrino facilities and the R&D into associated technologies are required to be in a position to define the optimal neutrino programme based on the information available in around 2012; *Council will play an active role in promoting a coordinated European participation in a global neutrino programme.*

[http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy\\_Brochure.pdf/](http://council-strategygroup.web.cern.ch/council-strategygroup/Strategy_Brochure.pdf/)



# European Strategy – 2012 Update

- Council has begun the process of updating the strategy with the appointment of a new CERN Council Strategy Group and a new Preparatory Group.
- The Preparatory Group is already working.
- Submissions from the community have been solicited.
- There will be an Open Symposium in Krakow from Sept. 10-12 (“Orsay Meeting”)
- The ESG will then meet in Erice from Jan. 21-25 (the “Zeuten Meeting”).
- Proposed strategy then goes to CERN Council.

# European Strategy – Submissions

## **The European Strategy Preparatory Group (ESPG) Call for Submissions**

As part of the [Update of the European Strategy for Particle Physics](#), the European Strategy Preparatory Group welcomes submissions on issues related to the strategy from individual physicists, from groups of scientists representing a community (an experiment, a topic of theoretical research, etc.) as well as from Institutions and Organizations (funding agencies, ministries, etc). These contributions will be discussed at the meetings of the Preparatory Group and during the Open Symposium, and made available to the Strategy Group for drafting the Update of the Strategy.

In addition, everyone is encouraged to attend the Open Symposium, to be held on 10-12 September 2012 at Cracow, where ample time within each session will be dedicated for discussion and input from the floor.

All input submitted to this form will be brought to the attention of the ESPG. Each input should be self-contained (no external links except in the references), and be **up to 15 pages in length.**

<http://europeanstrategygroup.web.cern.ch/europeanstrategygroup/espg/submissions.html/>

## European Strategy – Does the community want to make a joint submission?

- Individual submissions from experiments, proposed projects, labs, individuals all welcome.
- Does the community as a whole have a coherent view?
- Do not assume that there is consensus even on such a basic question as to whether measuring neutrino mixing is important enough to warrant a high priority for future investment!

- Some information that might be submitted by the community as a whole:
  - What priority should further neutrino physics experiments have?
  - What is the size/capability/activities of the European community?
  - Has the strategy outlined in the last CERN Strategy been successful?
  - What should be the European participation in international projects (outside Europe)?
  - Should CERN host a new experiment (or experiments), and if so, which experiment(s)?
  - Is it necessary to plan on new, related experiments like NA61?
  - What other experiments should be done in Europe but not at CERN? (A shopping list is unlikely to be helpful...)
  - What else should be done to support the community?

# European Strategy – Deadlines

## Submissions deadlines

Open for Submissions on scientific issues 1 February 2012

**Submissions closed** for the Open Symposium **31 July 2012**

*All submissions will be made available to the speakers and the session-chairs of the Open Symposium.*

Open Symposium (at Cracow) 10-12 September 2012

**Submissions closed** for being included in the Briefing Book to the Strategy Group **15 October 2012**

<http://europeanstrategygroup.web.cern.ch/europeanstrategygroup/espg/submissions.html/>

European Strategy – Does the community want to  
make a joint submission?

It is up to you!.....