

HSF Inputs for the European Strategy Update

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European Strategy for Particle Physics

- The [European Strategy for Particle Physics](#) sets out the priorities for high energy physics in Europe
- Updates to that strategy happen ~5 years
 - Mandated by and reports to the CERN Council
 - Very similar to the Snowmass process in the US
- Third strategy update is now underway, chaired by Karl Jakobs
 - Approved in June 2024
 - Will submit its report to council January 2026
- There is an ample period of consultation with the community
 - Documents can be submitted until 31 March 2025
 - There will be an open symposium 23-27 June 2025

Full timeline

Timeline for the update of the European Strategy for Particle Physics



HSF Strategy Inputs

- We have a strong track record of submitting inputs to these strategic deliberations
 - Original [HSF Community White Paper](#), published end of 2017, covered almost all areas of the field and set out a 10 year roadmap
 - An [executive summary](#) of that was submitted to the last European Strategy Update process at the end of 2028
 - For the LHCC HL-LHC review in 2020 we submitted two papers on
 - [Common Tools and Community Software](#)
 - [Monte Carlo generators challenges and strategy towards HL-LHC](#)
 - For the US Snowmass process both those papers were also submitted
- We can see that these submissions did have a real impact by raising the profile of software and its importance

EPPSU #3

- Key date for us is the submission of documents from the community, viz. 31 March 2025
- Seven years after the CWP it's time to do an update
 - How did we do in the last years?
 - What are the foreseeable challenges in the next decade
 - Emphasising prospects for common work and software
- Our initial thoughts are to cover the areas of the most computational intensity
 - Event generation
 - Detector simulation
 - Reconstruction and software triggers
 - Data analysis
- And also to give input on the critical issues of training and careers

How to Proceed?

- Do we agree these are the main areas to cover?
- Delegate chapters to the relevant activity area coordinators
- Rely on other existing inputs and things which are being prepared
 - Note particularly the JENA Computing Initiative is working on documents that should be in public draft by early 2025 (privately can be circulated earlier)
 - Anything else in the pipeline?
- Key question
 - **How to get meaningful community engagement?**
 - We need to be thinking now about activity focus meetings for each of the chapters
 - Reach out to contacts who would like to contribute to the preparation of this material
- The timeline to end of March next year is *very short*, so we need to get started now

Proposed Timeline

- Now -> beginning of January: activity meetings to get the community feedback on the topic you mentioned
- January : writing of chapter drafts
- Feb 1-15: assembling of chapters, first paper draft
- Feb 15 - March 1 : draft circulation and finalization
- March: community endorsement (something like what we did for the CWP, asking for people to sign it)