

“FCC-PED / ECCOI”

Claire Adam, LOG Meeting, 20/03/2026



Eur. Phys. J. C (2025) 85:1468
<https://doi.org/10.1140/epjc/s10052-025-15077-x>

Review

Future Circular Collider Feasibility Study Report

Volume 1 Physics, Experiments, Detectors

Eur. Phys. J. Spec. Top. (2025) 234:5713–6197
<https://doi.org/10.1140/epjs/s11734-025-01967-4>

THE EUROPEAN
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Review

Future Circular Collider Feasibility Study Report

Volume 2 Accelerators, technical infrastructure and safety

Eur. Phys. J. Spec. Top. (2025) 234:5113–5383
<https://doi.org/10.1140/epjs/s11734-025-01958-5>

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Review

Future Circular Collider Feasibility Study Report

Volume 3 Civil Engineering, Implementation and Sustainability

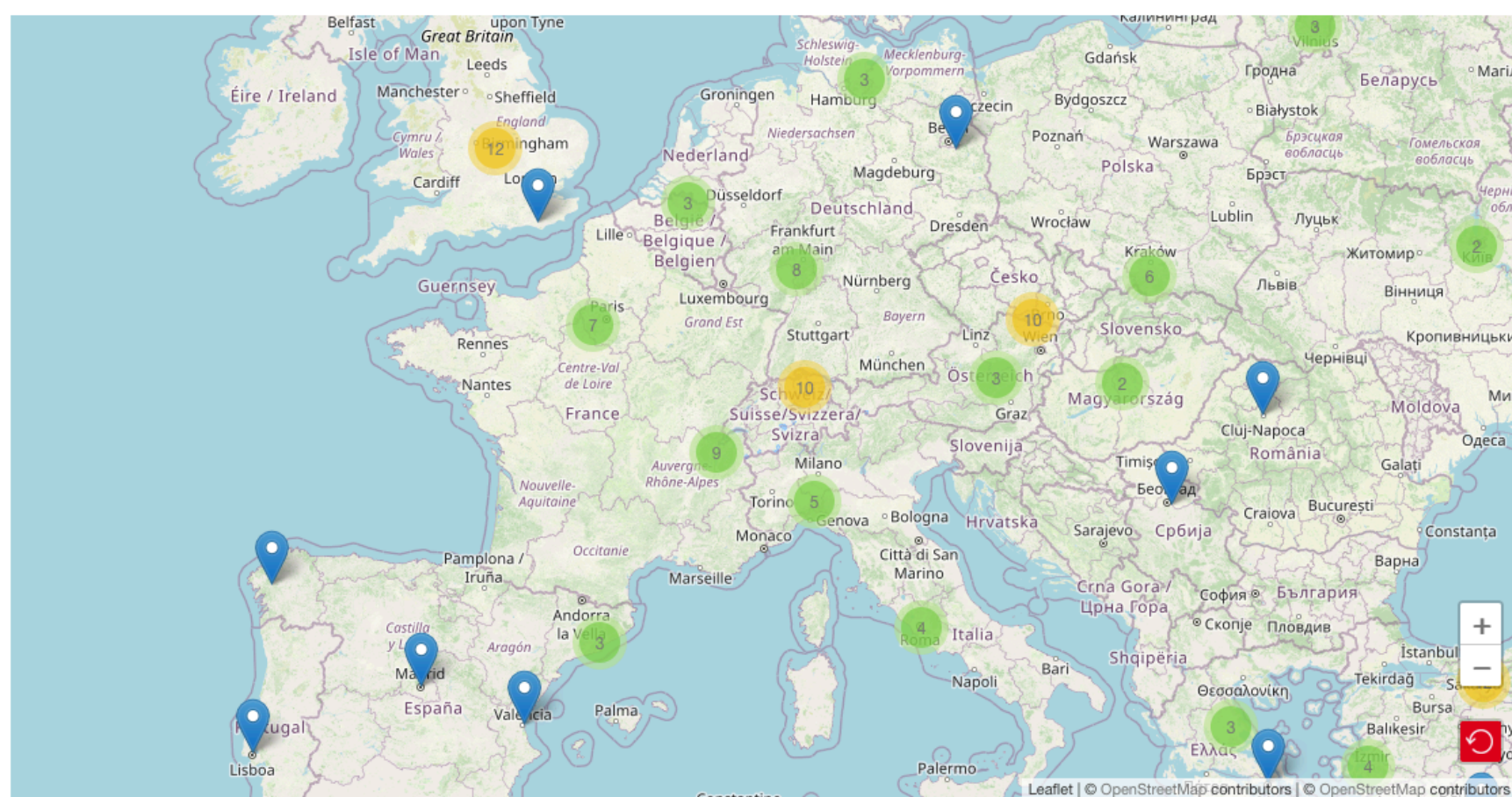
<https://link.springer.com/collections/hfffbfabch>



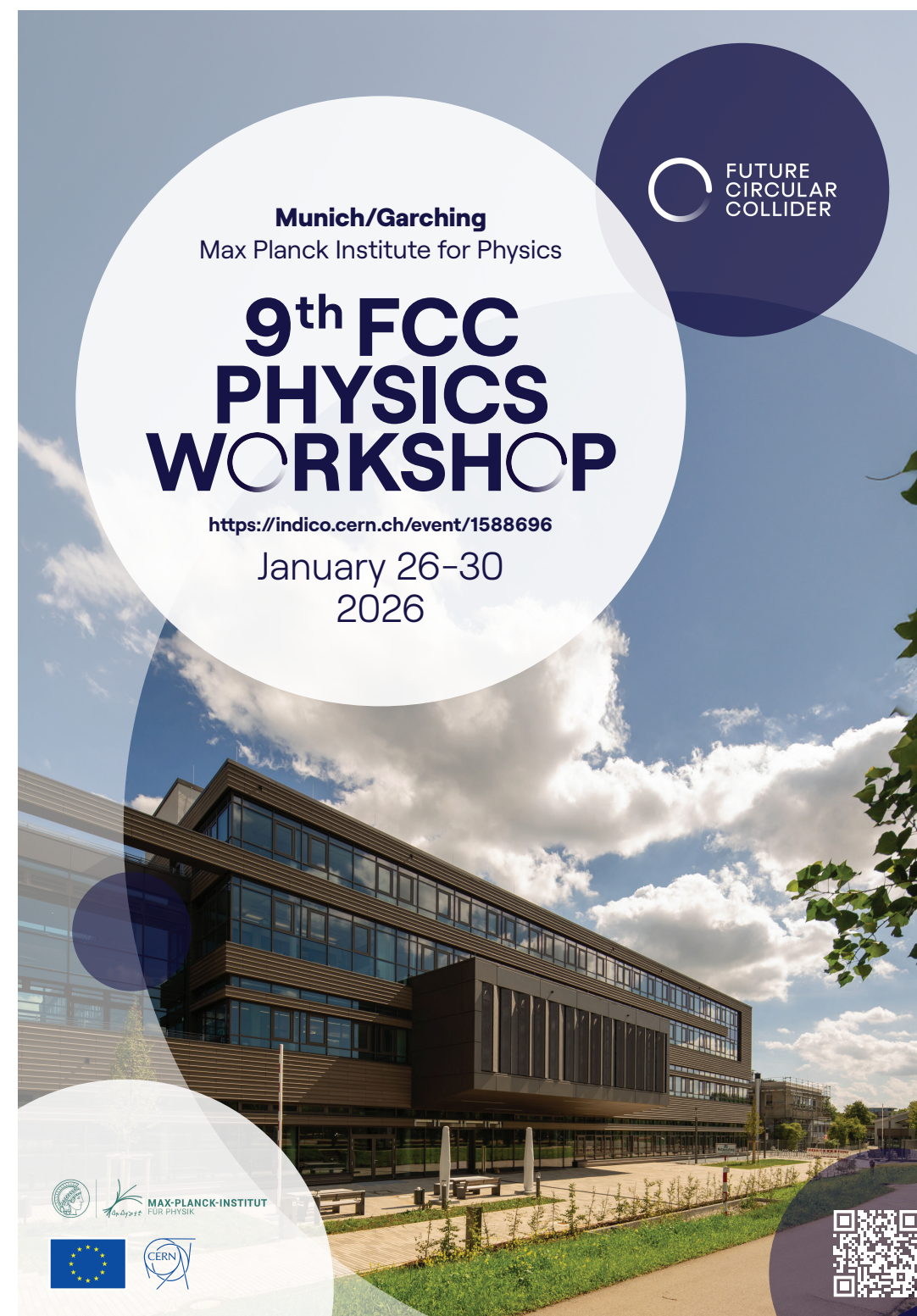
<https://fcc.web.cern.ch/collaboration>

Collaboration

Participating Institutes



- Within the Collaboration, 2 groups: Accelerator & PED
- PED @CERN (EP): 25 FTE now, 40 by end of 2026. Headquarters in building 42
- PED worldwide: users. ~ 1700 persons (not full time)



From 2025 ...

To 2026 ...

Up to 2033!


FCC Organisation at CERN

The FCC team did an outstanding job with the Feasibility Study

- However, the scale and scope of the next stage as we work towards a Technical Design will require a change in structure to **fully embed FCC activities** within CERN's sectors

FCC Organisation 2026-2030

- Planning for the new FCC structure is almost complete
- We will establish a new **compact FCC Project Office** to coordinate the FCC-ee activities
- I have appointed Michael Benedikt as the Project Leader, now reporting directly to the D-G
- The delivery of the FCC activities within CERN will be embedded in CERN's sectors in a **traditional "CERN matrixed" project structure**, where for example
 - The collider design work is embedded within ATS
 - All aspects of the FCC communications campaign will move to Stakeholder Relations
 - Similarly, host state interactions on FCC will take place within Stakeholder Relations
 - Civil engineering and sustainability is embedded within Site Operation
- **With the overall project being defined and coordinated through the FCC Project Office**

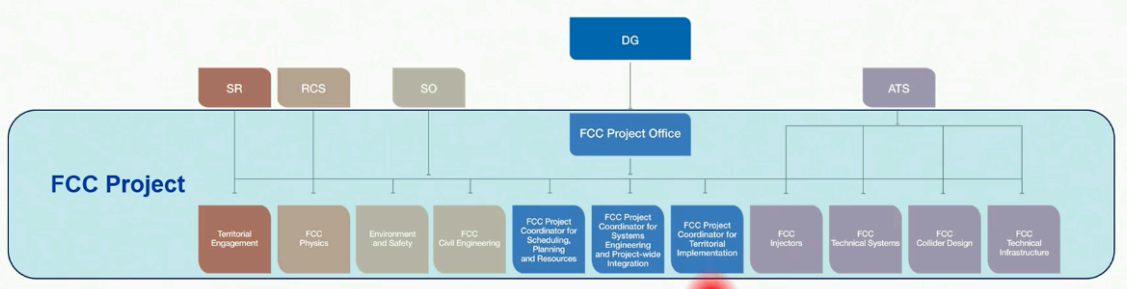


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The mandate of the Physics Experiments and Detector (PED) pillar is, with growing participation from the international community, to establish the foundations for the FCC-ee experimental programme through:

- Continuation of the development of **detectors R&D and Conceptual Design** in view of the international HEP community building and delivering the corresponding reports (CDRs) by 2033.
- Consolidation of **machine-detector interface optimisation**, background mitigation strategies and center-of-mass energy calibration as well as the common **computing architecture model and software/analysis framework** needed to confirm the experimental uncertainties and expected precision on electroweak variables measurements.
- Forstoring and **organisation of the theory community effort** towards identifying and addressing the corresponding theory challenges.
- Assessment and improvements of the **physics case**, including in a staged implementation scenario.

How this might look in practice (to be confirmed)



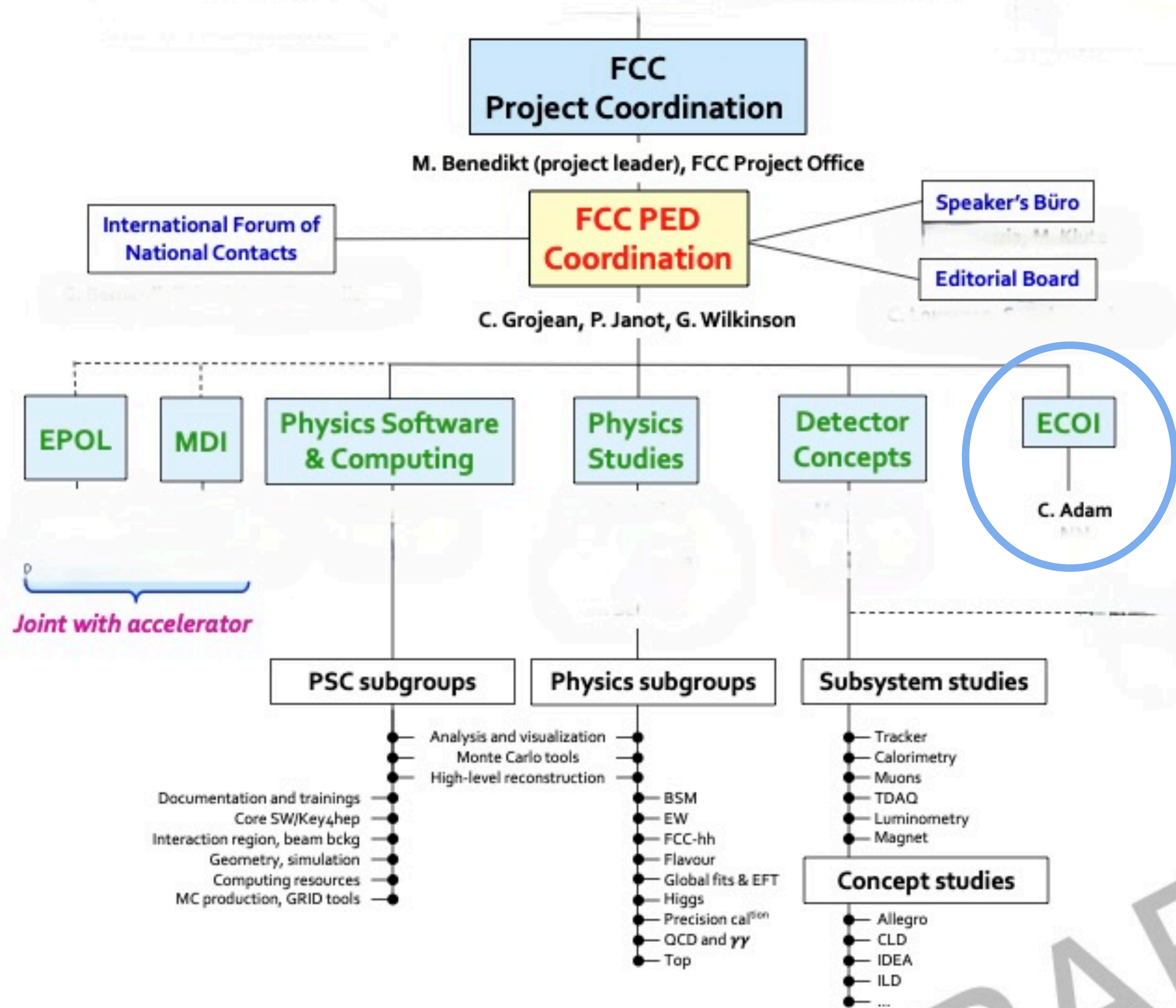
This change is a significant step that I believe is essential for the next phase in progressing FCC as CERN's next flagship project

- There is a lot to do, but I am confident the PO team and colleagues across CERN can deliver
- We will also need to continue to develop international partnerships
- Again I would like to thank colleagues for their patience during this transitional period

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REORGANIZED



Education
 Communication
 Out-reach
 In-reach

Same as LHC experiments

Major difference:

- *fully open material (e.g meetings)*
- *permanent flow of new colleagues who need to figure out contacts, what's going on, etc*
- *Language elements are not frozen yet*

DRAFT

Deliverables

<https://fcc-ped-clone.web.cern.ch/>

- *March Council*: collect basic information on a (Drupal) web, setup weekly meetings and a core e-group, present project @LOG
- *June collaboration meeting*: wordpress version + formal presentation to the collaboration + wide invitation to all.
- *Over summer*: implement first news plan (portraits) + “elevator pitches” & backgrounders
- *In fall*: recorded lectures (c.f ATLAS), more written content, an Aleph Master Class (tbc)
- *In time for the 2027 Open Days*: build an army of enthusiastic and trained volunteers :-)

NO SOCIAL MEDIA !

The screenshot shows the website for the Future Circular Collider (FCC) project. At the top, there is a navigation bar with the CERN logo and the text "CERN Accelerating science". The main navigation menu includes "HOME", "ABOUT FCC PED", "ORGANISATION", "INTERNATIONAL", "RESOURCES", and "ARCHIVE". Below the navigation bar, there is a search bar and a "CONTACT/JOIN US" link. The main banner features a scenic mountain landscape with a blue circular path overlaid on it. The banner text reads "FCC Physics, Experiments, Detectors" and "Charting the Path Towards FCC-ee Approval". Below the banner, there are three columns of content:

- FCC Project Highlights**:
 - **Towards a Future Flagship Collider at CERN** CERN Colloquium on the European Strategy for Particle Physics, by Prof. Karl Jakobs <https://indico.cern.ch/event/1650119/>
 - **European Strategy update reaches key milestone.** Read the [CERN press release](#)
 - **The FCC integrated programme: a physics manifesto.** [PED Contribution to the European Strategy for Particle Physics Update 2025-2026](#)
- Welcome !**

The [adventure](#) started in 2011. It led, at the 2020 update of the European Strategy for Particle Physics, to a compelling scientific case for a new electron-positron collider operating as a Higgs factory, followed by further exploration using a proton-proton collider at the highest achievable energy. The successful completion of the FCC Feasibility Study, in spring 2025, was acknowledged by the particle physics community as a major achievement, leading to a clear message:

The electron-positron Future Circular Collider (FCC-ee) is recommended as the preferred option for the next flagship collider at CERN.

Many questions from the scientific community at large, and the CERN Council in particular, still have to be answered in view of the project approval. Many tools and detailed studies are being developed to prepare the call for detector expressions of interest that will follow the project approval.
- Next PED events**
 - **All FCC-PED Meetings:** <https://indico.cern.ch/category/5251/>
 - **FCC workshops:** <https://indico.cern.ch/category/5225/>
 - **FCC talks at conferences:** <https://fcc-ee-conference.web.cern.ch/>
- Latest PED Publications**
 - [Opportunities at FCC-ee for](#)

