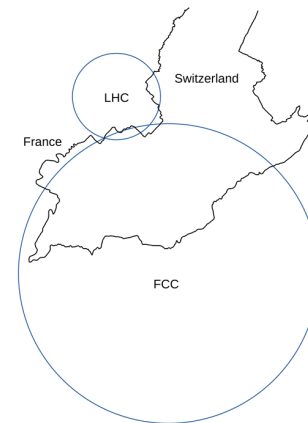




NEWS

Manuela Boscolo

3rd FCC@LNF meeting

Divisione Acceleratori, Frascati, 15 September 2023

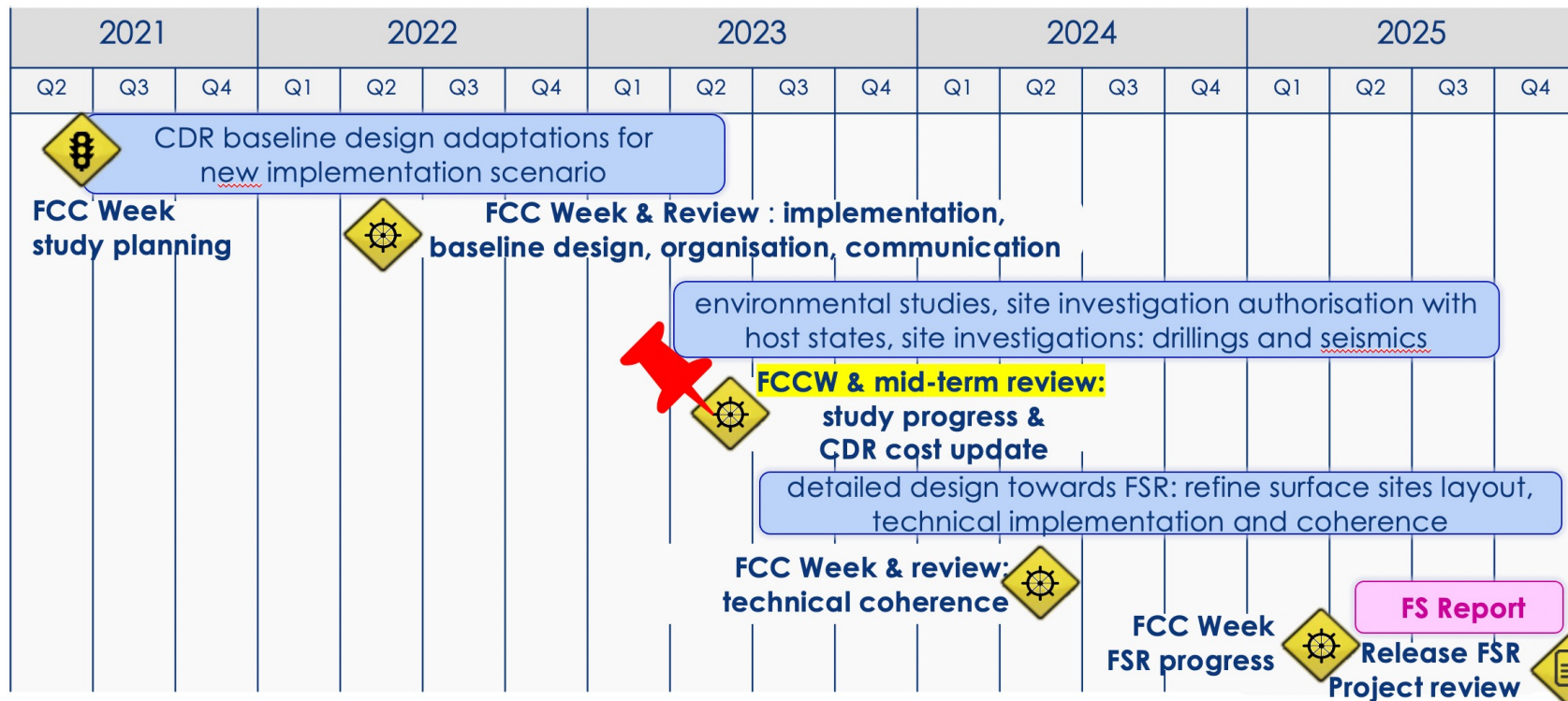


Work supported by the European Commission under the HORIZON 2020 project FCCIS, grant agreement 951754

Team italiano FCC Acceleratore: RD_FCC WP Acceleratore

- *Regione di Interazione e Machine-Detector Interface* **LNF, Pisa, Perugia** (FCCIS, AidaInnova)
- Collimation studies **CERN doctoral student & Sapienza /LNF**
- *Cavita' SRF* **LNL** (iFAST)
- *Damping Ring e+ e linee trasferimento vicine al DR* **LNF** (CHART)
- Effetti collettivi **INFN-Roma1, LNF** (FCCIS)
- Sorgente ibrida di positroni a cristalli **INFN-Ferrara** (PRIN)
- Ottimizzazione beamline linea di cattura e+ **INFN-Milano**
- Diagnostica per il controllo della corrente bunch-by-bunch via Compton scattering **INFN-Milano**
- Interesse sui magneti SC di FCC-ee **INFN-Genova**
- Magneti ad alto campo FCC-hh [progetto separato dal feasibility study FCC] **INFN-Genova, INFN-Mi**

Feasibility Study Timeline and main activities/milestones



Mid-term review

- **Contributi al documento finale dell'acceleratore e del detector**

- M. Boscolo, editor MDI section
- M. Migliorati co-editor Collective effects section
- input per la Injection section

Note interne e articoli di supporto al documento finale

- M. Boscolo, F. Palla, et.al., Mechanical model for the FCC-ee MDI, EPJ Techn Instrum 10, 16 (2023) <https://doi.org/10.1140/epiti/s40485-023-00103-7>

August 20th, 2023

The FCC-ee interaction region, design and integration of the machine elements and detectors, machine induced backgrounds and key performance indicators.

Manuela Boscolo^{1*}, Fabrizio Palla^{2*}, Andrey Abramov³,
Martin Aleksa³, Kevin D. J. Andre³, Filippo Bosi²,
Giacomo Broggi³, Brieuc Francois³, Andrea Ciarna¹,
Manuel Dionisio Da Rocha Rolo⁴, Francesco Franesini¹,
Andrea Gaddi³, Armin Ilg⁵, Stefano Lauciani¹, Dirk Mergelkhul³,
Alexander Novokhatski⁷, Emmanuel Perez³,
Leonard Reichenbach⁶, Andre Sailer³, Leonard Watrelot³

¹Laboratori Nazionali di Frascati - LNF, INFN, Italy.

²Sezione di Pisa, INFN, Italy.

³CERN, Switzerland.

⁴Sezione di Torino, INFN, Italy.

⁵University of Zurich, Switzerland.

⁶University of Bonn, Germany.

⁷SLAC, USA.

*Corresponding authors: Manuela.Boscolo@cern.ch and Fabrizio.Palla@cern.ch

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Nota FCC su CDS

<https://cernbox.cern.ch/s/FQEHOkF9kTeBsBh>



Mid-term review deliverables (approved by the Council):
CERN/SPC/1183/Rev.2

Documentation submitted to review committees

**Review by Scientific Advisory Committee (SAC) and Cost Review Panel (CRP):
16-17 October 2023**

→ Reports available to SPC and FC end October

Special meetings of the SPC and FC: 20-22 November

→ Reports to Council by 31 December

Special Council meeting: 2 February 2024

Since previous FCC@LNF meeting on 23 May

- **FCC WEEK, 5-9 June, London**

CSN1, Milano Bicocca, 14 luglio 2023

- **Attività RD_FCC WP Acceleratore**, M.Boscolo
- **IR mock-up project for the FCC-ee Interaction Region**, M. Boscolo, CSN1, 14/07/2023
- **SRF R&D for FCC-ee**, C. Pira (LNL)

Next Events 2023

- Dec. 23 : RD_FCC collaboration meeting
- 13-15 Nov.: Annual FCCIS WP2 (collider design) workshop Roma, Angelicum
- **16-17 Nov.: MDI topical workshop on IR mockup at Frascati**