



Coordination Committee

WP1 Status

Michael Benedikt

Karlsruhe Institute of Technology

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Outline

- Status of the FCC collaboration
- CDR timeline and progress
- Events in 2019
- Milestones and deliverables until the end of the project
- Next steps

Co-funded by the



FCC collaboration

EC H2020



25 companies



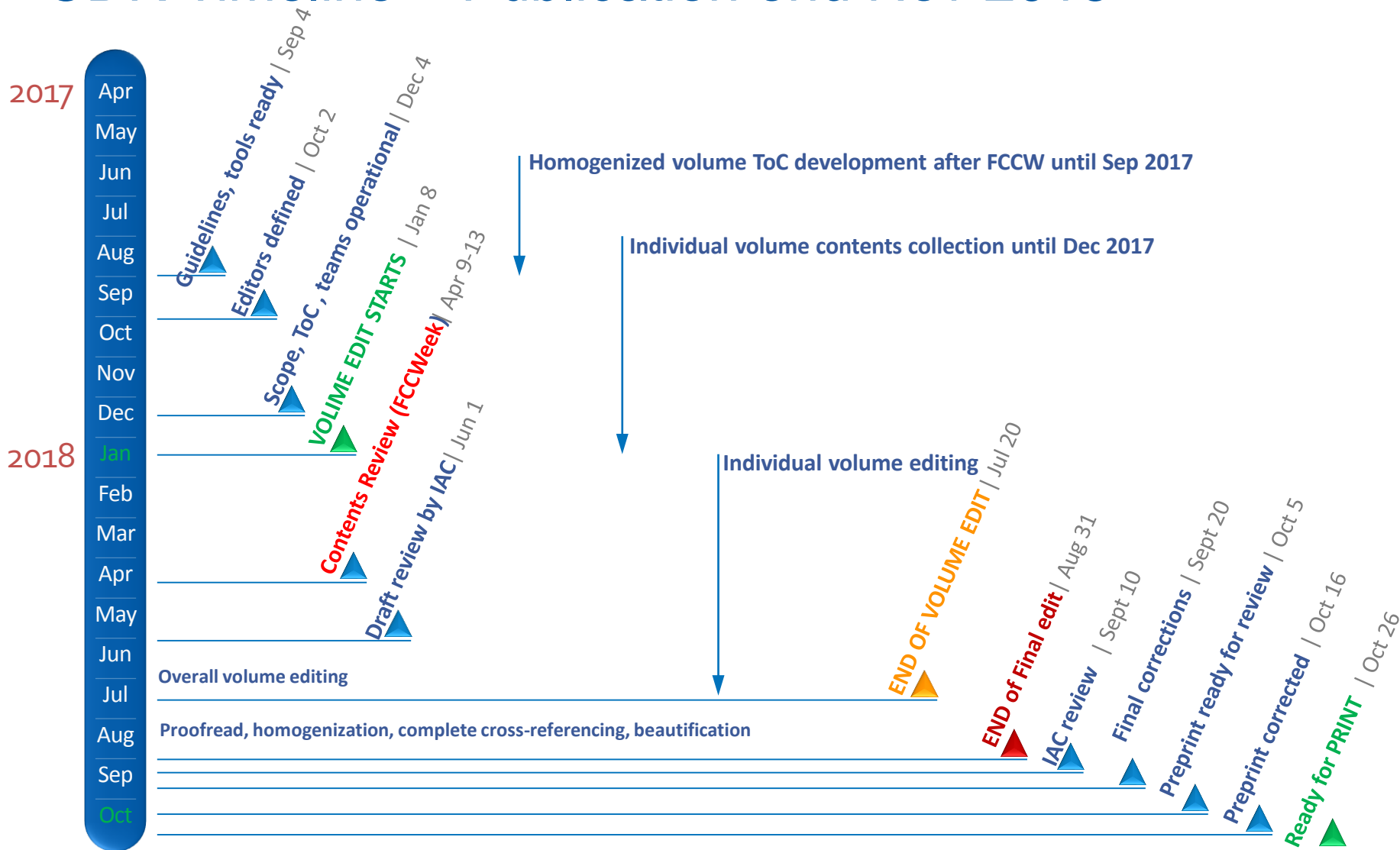
34 countries



133 institutes



CDR Timeline – Publication end Nov 2018



CDR progress

- **The volumes have been renumbered:**
 - Physics: Vol 1
 - FCC-ee: Vol 2
 - FCC-hh: Vol 3
 - HE-LHC: Vol 4
- **Planning for finalisation:**
 - Vol 2 FCC-ee: frozen by Sunday 7 October
 - Vol 3 FCC-hh: frozen by Sunday 14 October
 - Vol 1 Physics: frozen by Sunday 21 October
 - Vol 4 HE LHC: frozen by Sunday 21 October

CDR progress

- **All 4 CDRs must be ready for printing end November to be distributed from December 10 (Council week)**
- **Author list for CDR:**
 - 30 October invitation to sign up as CDR authors
 - Registration will finish on 10 November
 - Possibly we will put a link to the inspire institution database for selection of affiliation
- **10-page documents:**
 - One document per machine option: FCC-ee, FCC-hh and HE-LHC
 - One document on staged implementation, FCC-ee followed by FCC-hh. This should show the robustness of the overall approach and also the flexibility to adapt.
 - In total 4 of the 10-page documents are planned at this stage.
 - Deadline Sunday 11 November 2018.

FCC/EuroCirCol events in 2019/20

- Paris CDR presentation event on 29 January 2019 cancelled
- **Replaced by FCC Week 2020 in Paris, kick-off meeting for continuation after EPPSU 2020**
- Industry and outreach event in Liverpool Friday 22 March 2019:
Symposium: Particle Colliders - Accelerators of Innovation
- FCC Week 2019 in Brussels 24-28 June:
- **closing event for EuroCirCol Design Study (M1.13)**

Milestones & deliverables until the end of the project

WP1 (Responsible CERN)

ID	Title	Due date
D1.4	Plan for use and dissemination of foreground, technical gap analysis	01 NOV 18
M1.11	Cost baseline	01 APR 19
M1.12	Industry and outreach event (Liverpool)	01 APR 19
D1.5	Preliminary Conceptual Design Report	01 MAY 19
	Periodic report 3	01 JUN 19
M1.13	EuroCirCol closing event (FCC Week 2019, Brussels)	01 JUN 19
D1.6	Final report	01 AUG 19

Milestones & deliverables until the end of the project

WP2 (Responsible CEA)

ID	Title	Due date
M2.5	Consolidated arc design baseline	01 NOV 18
D2.5	Preliminary arc design including optimized and integrated lattice deck	01 FEB 19
D2.6	Preliminary collimation system design concept and performance estimate	01 MAR 19
M2.6	Report on recommended follow-up R&D	01 MAY 19

WP3 (Responsible CERN)

ID	Title	Due date
M3.6	Consolidated EIR design baseline	01 NOV 18
D3.3	Preliminary EIR design including optimized lattice deck	01 FEB 19
M3.5	Report on recommended follow-up R&D	01 MAY 19

Milestones & deliverables until the end of the project

WP4 (Responsible ALBA)

ID	Title	Due date
M4.5	Preliminary cryogenic-beam-vacuum system design	01 MAR 19
M4.6	Report on recommended follow-up R&D	01 MAY 19

WP5 (Responsible CERN)

ID	Title	Due date
D5.4	Manufacturing folder for reference design dipole short model	01 APR 19
M5.4	High-field accelerator dipole conceptual design report	01 APR 19
M5.5	Report on recommended follow-up R&D	01 MAY 19

Further plans

- Proposal to request prolongation of EuroCirCol by 6 months until autumn 2019.
 - Coverage of FCC week / EuroCirCol closing event in June 2019,
 - Possibly keep certain activities at lower pace during first part of strategy update process.
- Preparation of another H2020 application for DS:
 - Focus on preparation of implementation of infrastructure.
 - Corresponding design optimization for both FCC-ee and FCC-hh.
 - Cost-benefit analysis, public engagement, host-state related aspects.
 - Call deadline Nov 2019, potential starting date June 2020, just after EPPSU.