

LHCb Upgrade II Tracking Workshop

Evian-les-Bains, 6-7 March 2024

A huge thank you to Cindy! And to all participants for doing studies, making plots, presenting. You make LHCb-U2 happen!

Organising Committee:

Carla Marin Benito Jianchun Wang Kazu Akiba Cesar Luiz da Silva Mark Whitehead Lucia Grillo

For the U2PG:

Paula Collins Marcel Merk Matthew Needham



LHCb Secretariat

The LHCb secretariat team is composed of :

Nathalie Grub Cindy Denis Kevin Viel Shirin Davarpanah











How to contact us

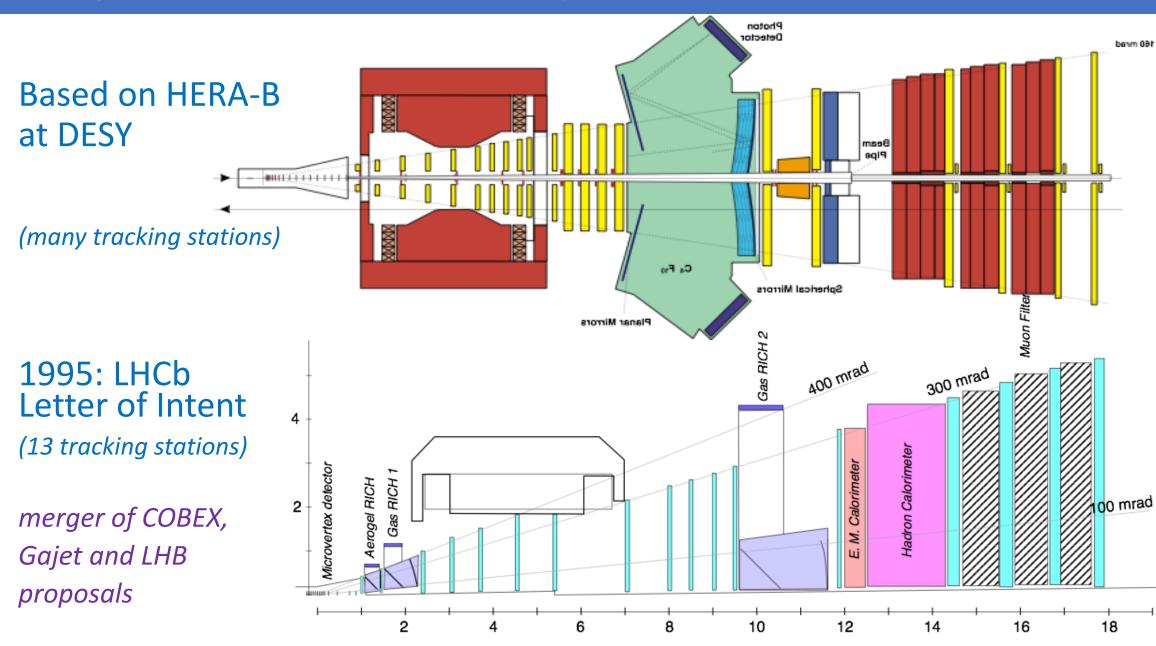
➤ Via email at : lhcb.secretariat@cern.ch

> Via phone at: +41.22.767.92.78

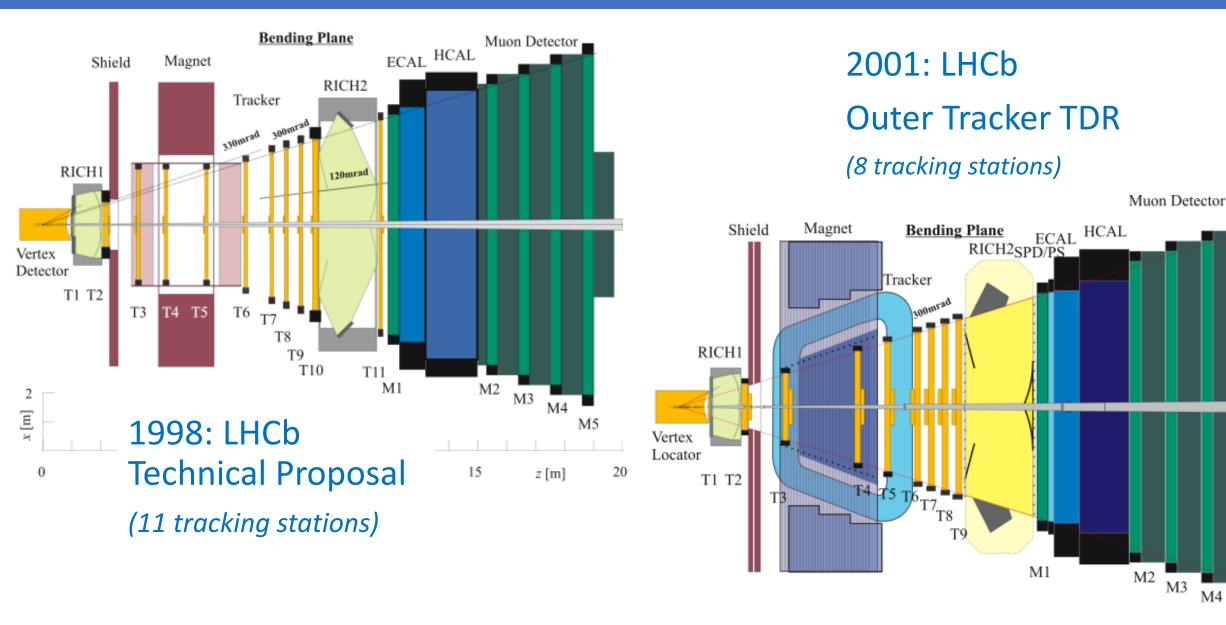
➤ Do not hesitate to pass by the secretariat directly ②! We are located in the building 2, on the 1st floor in the office 24

What services do we provide

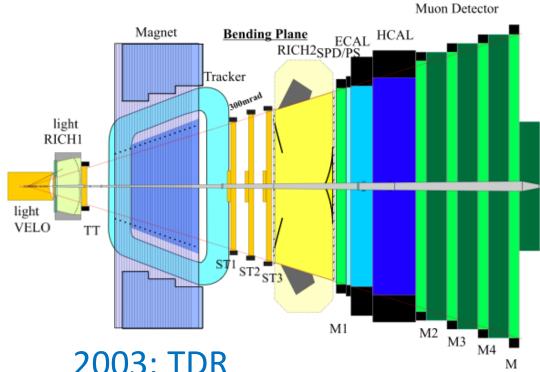
- Administrative formalities (Invitation letters, attestations, Users contracts,...)
- Registration and membership management (Registrations, modifications & closures, CERN computing accounts...)
- LHCb visits at Pit 8 (Schedule, official guides information...)
- Events and meetings (Room bookings, Indico agendas, logistics...)
- Travels (For travels paid by CERN)
- Documentation (Management of CDS documentation, weekly news...)
- E-groups management (creation, modification...)
- Infrastructure (Space management, Economat and other orders...)
- Logistics (Key requests, mobility, CERN Housing services...)
- Accesses (Access requests, visitor cards...)
- Do not hesitate to consult our dedicated webpage: https://lhcb.web.cern.ch/lhcb_page/collaboration/Useful_Information/Default.html



21/2/1995



M5

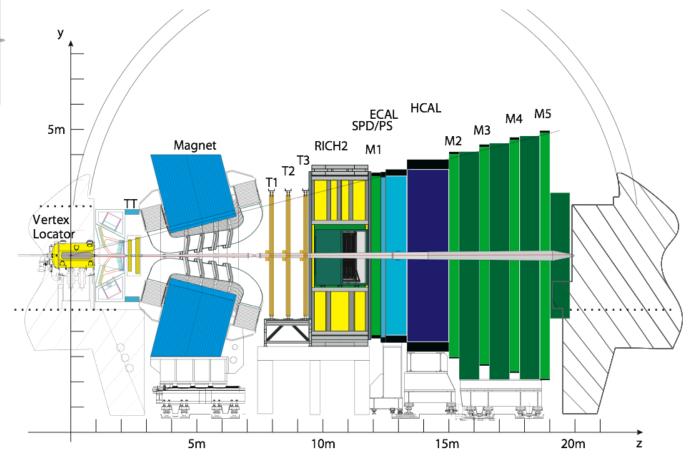


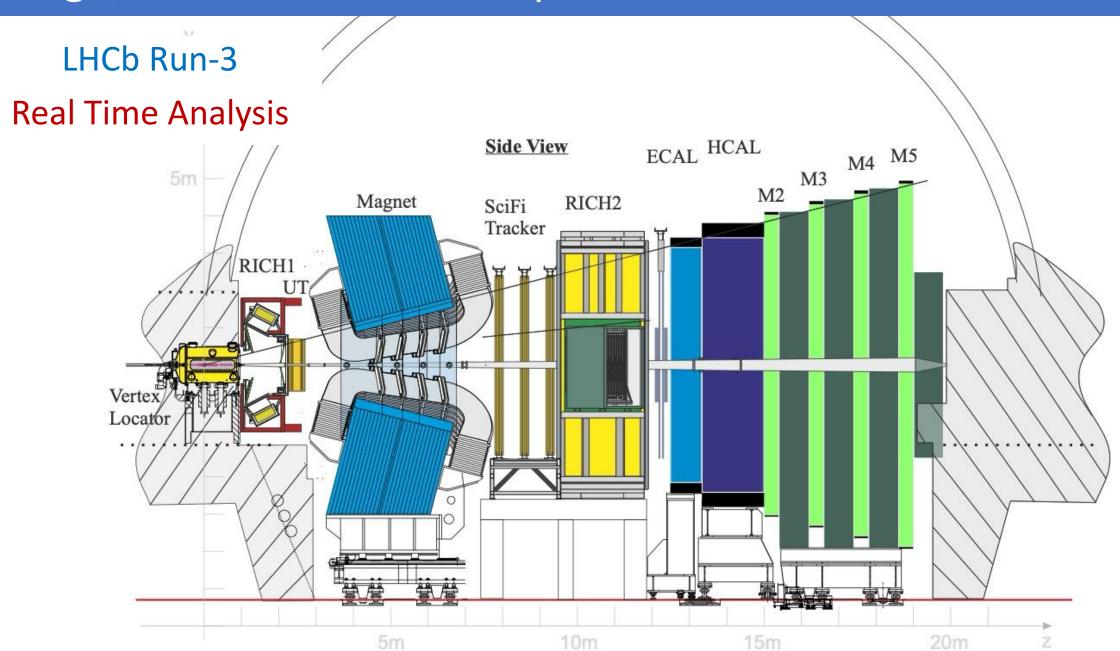
2003: TDR

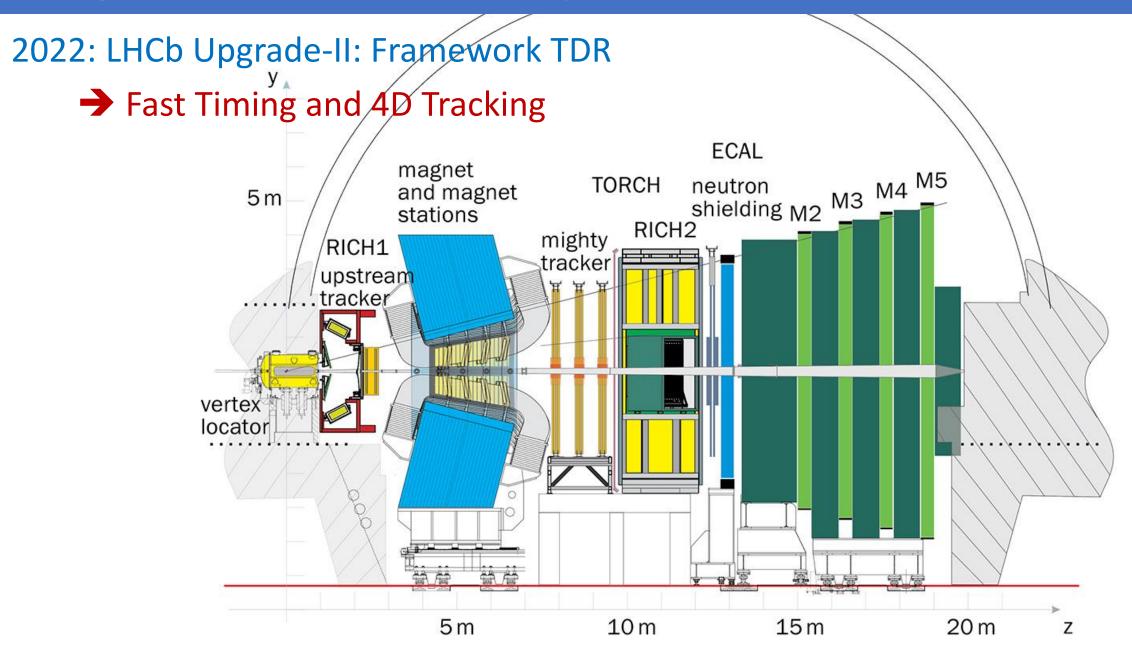
Re-optimized LHCb

(4 tracking stations)

LHCb Run-1 and Run-2 Spectacular Physics results!

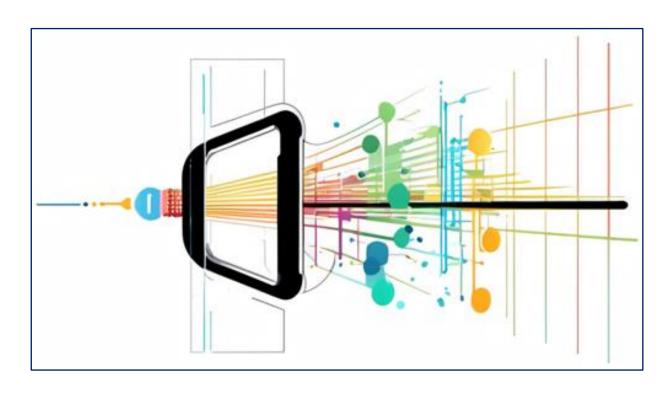






2024: "Descoping Options" on request of LHCC

- Options: 100%, 85%, 70% of FTDR baseline cost
- Optimising:
 - Luminosity
 - Acceptance
 - Material thickness
 - Electromagnetic (X₀)
 - Hadronic (λ_I)
 - Real Time Analysis
 - Heterogeneous computing
 - Cost
- Preliminary results for April
- Full results for September LHCC



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Today's First Session:

- Two "general" talks:
 - Physics for tracking
 - UII baseline layouts
- General Discussion
- "Constraints" talks:
 - Physics, Radiation, Beam parameters, magnetic field, acceptance

First Session today

14:00	Welcome coffee	
	Hotel Hilton Evian les Bains, Evian-Les-Bains	14:00 - 14:30
	Welcome	Marcel Merk
	Hotel Hilton Evian les Bains, Evian-Les-Bains	14:30 - 14:40
	Upgrade II Tracking for Physics	Fred Blanc et al.
	Hotel Hilton Evian les Bains, Evian-Les-Bains	14:40 - 15:00
15:00	UII baseline layouts	Renato Quagliani 🥝
	Hotel Hilton Evian les Bains, Evian-Les-Bains	15:00 - 15:20
	General Discussion	
	Hotel Hilton Evian les Bains, Evian-Les-Bains	15:20 - 15:40
	Physics channels for scoping document and beyond and beam parameters	Matteo Palutan et al.
16:00	Hotel Hilton Evian les Bains, Evian-Les-Bains	15:40 - 16:10
	FLUKA simulations for UII environment	Matthias Karacson 🥝
	Hotel Hilton Evian les Bains, Evian-Les-Bains	16:10 - 16:30
	UII Magnetic field changes and constraints	Marie Bachmayer
	Hotel Hilton Evian les Bains, Evian-Les-Bains	16:30 - 16:50
	Ull eta acceptance studies	Mary Richardson-Slipper
7:00	Hotel Hilton Evian les Bains, Evian-Les-Bains	16:50 - 17:10
	Coffee Break	