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Facilities Council

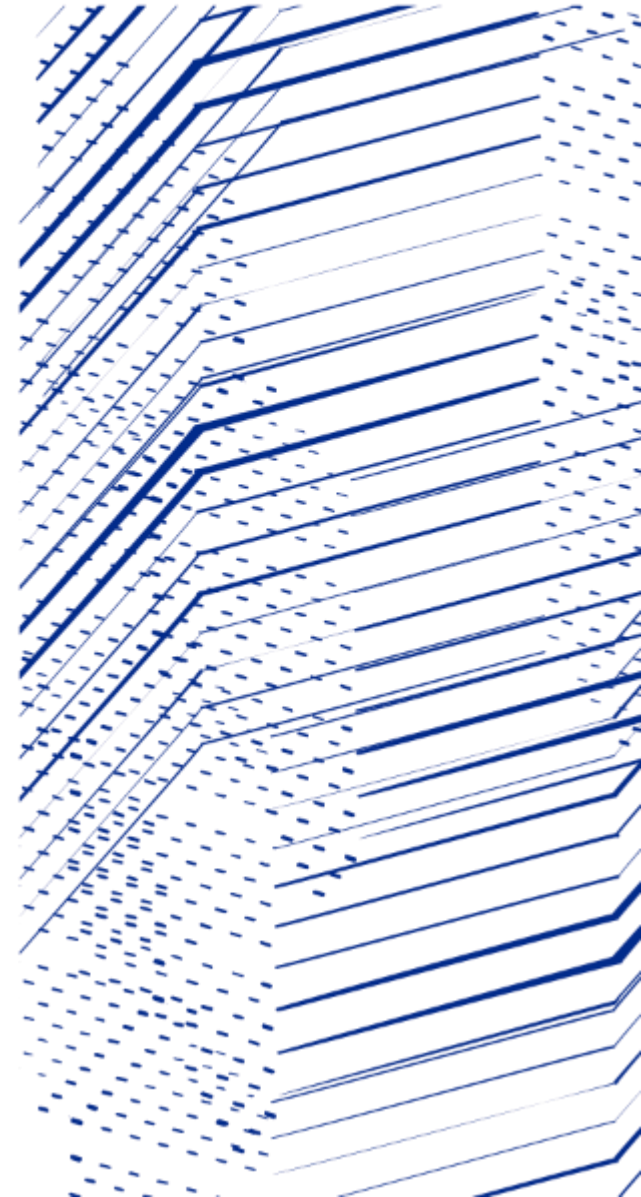
# CERN : FCC Week Industry Day.

London  
June 2023

Richard Farrow  
UK Head of CERN Industrial Liaison.



Science and  
Technology  
Facilities Council



# UK ILO Office

- UKRI, STFC and International Facilities.
- CERN ILO Team
- CERN FCC Meeting : Routes to success.
- Q&A



**UK Research  
and Innovation**

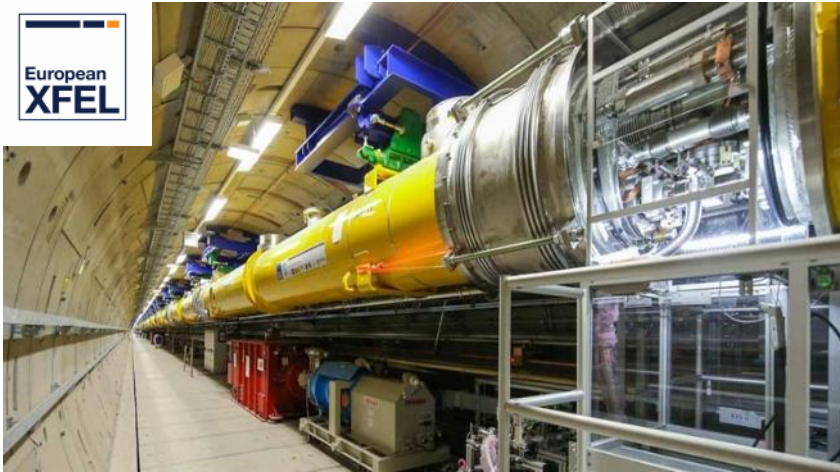


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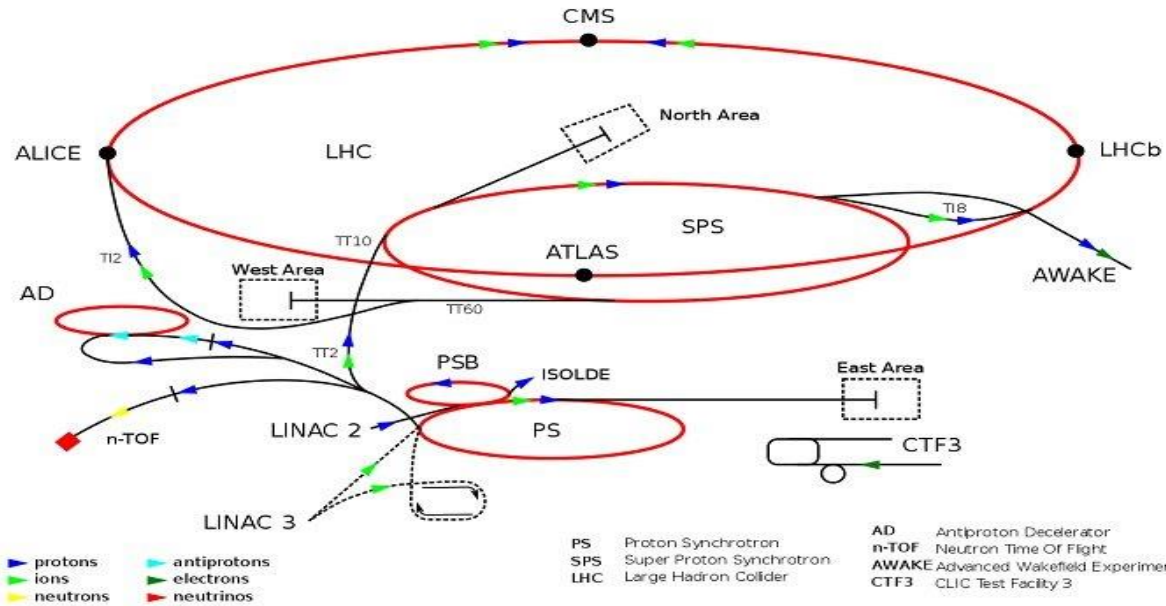


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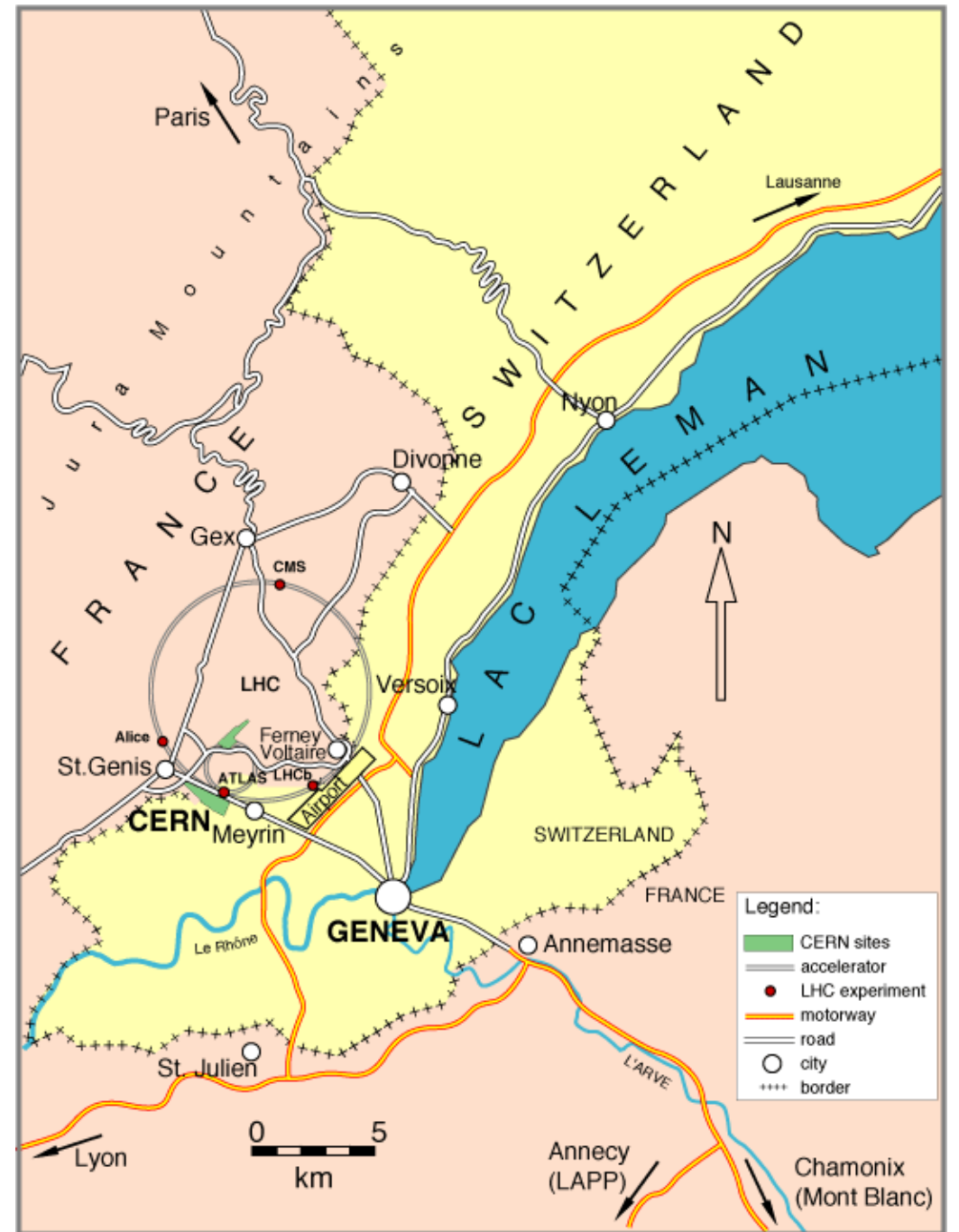




# CERN GENEVE



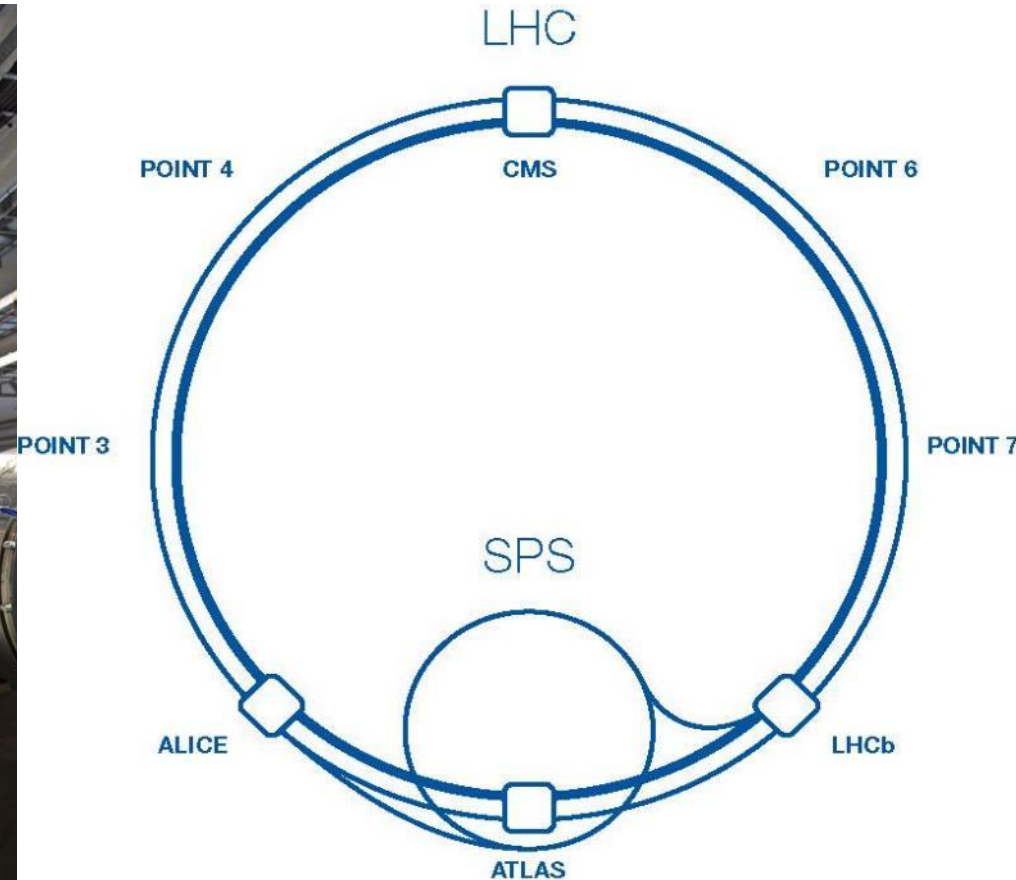
AD Antiproton Decelerator  
 n-TOF Neutron Time Of Flight  
 AWAKE Advanced Wakefield Experiment  
 CTF3 CLIC Test Facility 3





# Accelerators and Infrastructure

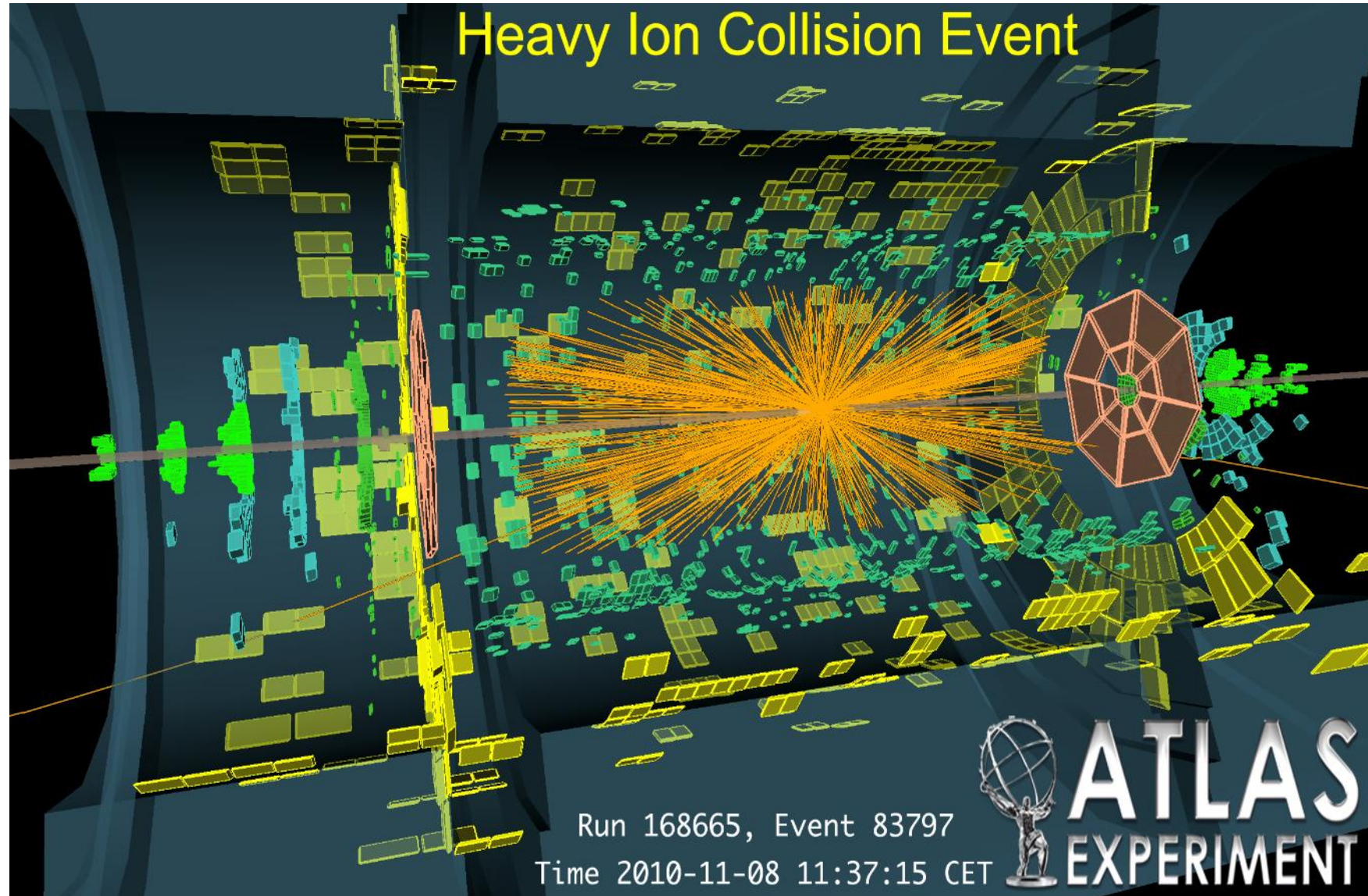
- LHC 27km.
- 9593 magnets.
- Magnets at -271C.
- 2 proton beams at 99.999999% SOL.
- Collision at 14TeV.
- 80Kg TNT.
- 600M collisions  $s^{-1}$
- Cost ~£3.5Bn





# Key Experiments (ATLAS / CMS / LHCb)

- 92 million channels.
- 1 Pbyte s<sup>-1</sup>
- Data (1000 HDD s<sup>-1</sup>).
- 7000 tonnes.
- 3000km cable.





# CERN Procurement

- 31 member states. Access to CERN and contracts.
- 400M CHF per year (£350m)
- Canteen services to cryogenic systems.
- Supplies and Services.
- 3 types of procurement. Uncontrolled / Price Enquiries / MS-IT.
- Formal documented process. Use CERN paperwork.
- Adjudication method is Lowest Cost (LCCB). Moving to BVM.
- Great pressure to engage UK companies.
- UK presently winning ~5% of contracts. Poorly Balanced.



# UK CERN Industrial Liaison Team



Richard Farrow  
Head of CERN Industrial  
Liaison  
[richard.farrow@stfc.ukri.org](mailto:richard.farrow@stfc.ukri.org)  
Mob : +44 (0) 7596 888677



Hugh Alabaster  
Assistant ILO  
[Hugh.alabaster@stfc.ukri.org](mailto:Hugh.alabaster@stfc.ukri.org)  
Mob : +44 (0) 7508511298

Alan Silverman  
Assistant ILO (Geneva)  
[Alan.Silverman.@cern.ch](mailto:Alan.Silverman.@cern.ch)



Julie Gilbert  
Programme Coordinator  
[tenderopportunities@stfc.ukri.org](mailto:tenderopportunities@stfc.ukri.org)



# How the ILO Team can help.....

- CERN works directly with UK suppliers. We are here to help.
- STFC runs the UK ILO Office.
- We can help you..
  - Register on CERNs Supplier Database.
  - Understand more about CERN's requirements.
  - Advise on completion of paperwork and CERN processes.
  - Connect you to CERN staff where needed.
  - Connect you to CERN events. FCC / Thematic Meetings etc.
  - Ask questions on your behalf.
  - Highlight appropriate contracts and development opportunities.
  - Raise your profile at CERN.



# FCC and future opportunities.

What do we see as the benefits of today's industry meeting?

- Understand FCC (and perhaps other CERN long term projects)
- Long term preparation contracts for FCC. *Design studies.*
- Development of your network of tech contacts at CERN (and others).
- Development of your network of tech contacts within STFC (PPD) and UK Universities.
- Understand the technology directions at CERN (not just for FCC)
- Collaborative technology development. Create or identify contract developments with CERN / STFC and UK Universities.
- Connect with the ILO Team and possible STFC funding routes to future technology creation.

# Please get in touch!

# Thank you.

Questions?