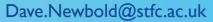
Laboratory Directors Group, July 2023

- My thanks to the Local Organising Committee
 - Particularly: Fabio, Alessandra, Doug
 - Many twists and turns in the organisation of this meeting...
- Thanks to those who committed to attending from outside Europe
- Purpose of the Open LDG Meeting
 - Take a closer look at the work and facilities in Frascati
 - Bring together informally leadership of labs inside and outside Europe
 - Expose the work of LDG to a wider audience
 - Discuss some strategic and timely topics
 - Note: no LDG 'formal business' or decisions here, not minuted
- Agenda
 - Presentations by selected laboratories (more tomorrow)
 - Sustainability
 - Strategy processes for HEP
 - Update on FCC and detector R&D



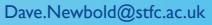


European Laboratory Directors Group

Remit conferred by CERN Council

- Facilitate informal dialogue among the Directors of the LNLs and CERN
- Provide direct input to the European Strategy for Particle Physics
- Liaise with the European Commission and national funding agencies, research institutes and universities, ensuring that LNLs speak with a single voice
- Maximise the regional and national benefits of investment in fundamental research and in CERN
- Keep abreast of the activities ... being undertaken in laboratories outside CERN's Member States, and of other coordinating groups in particle physics and related fields, and foster dialogue with them
- Draw up and maintain a prioritised accelerator R&D roadmap towards future large-scale facilities for particle physics
- Coordinate the accelerator R&D activities on the roadmap, with the aim of strengthening cooperation and ensuring effective use of complementary capabilities
- The next few years will be a challenge and opportunity for LDG
 - Both in its 'structural' role and as the discussion forum between national labs







Current Membership

- Laboratory representatives
 - S. Bentvelsen (NIKHEF)
 - F. Bossi (LNF)
 - J. Clarke (DL)
 - N. Colino (CIEMAT)
 - F. Gianotti (CERN)
 - B. Heinemann (DESY)
 - D. Newbold (RAL)
 - E. Previtali (LNGS)
 - F. Sabatie (IRFU)
 - M. Seidel (PSI)
 - A. Stocchi (IJCLab)

- Standing observers
 - K. Jakobs (ECFA Chair)
 - M. Lamont (CERN Directorate)
 - J. Mnich (CERN Directorate)
 - H. Montgomery (SPC Chair)
- Secretary
 - E. Tsemelis (CERN)
- Extended LDG members
 - G. Bisoffi (RF) + P. Macintosh
 - W. Leemans (LPA) + R. Patahill
 - S. Stapnes (Muons) + D. Schulte
 - J. D'Hondt (ERL) + M. Klein

Dave.Newbold@stfc.ac.uk

P. Vedrine (HFM)

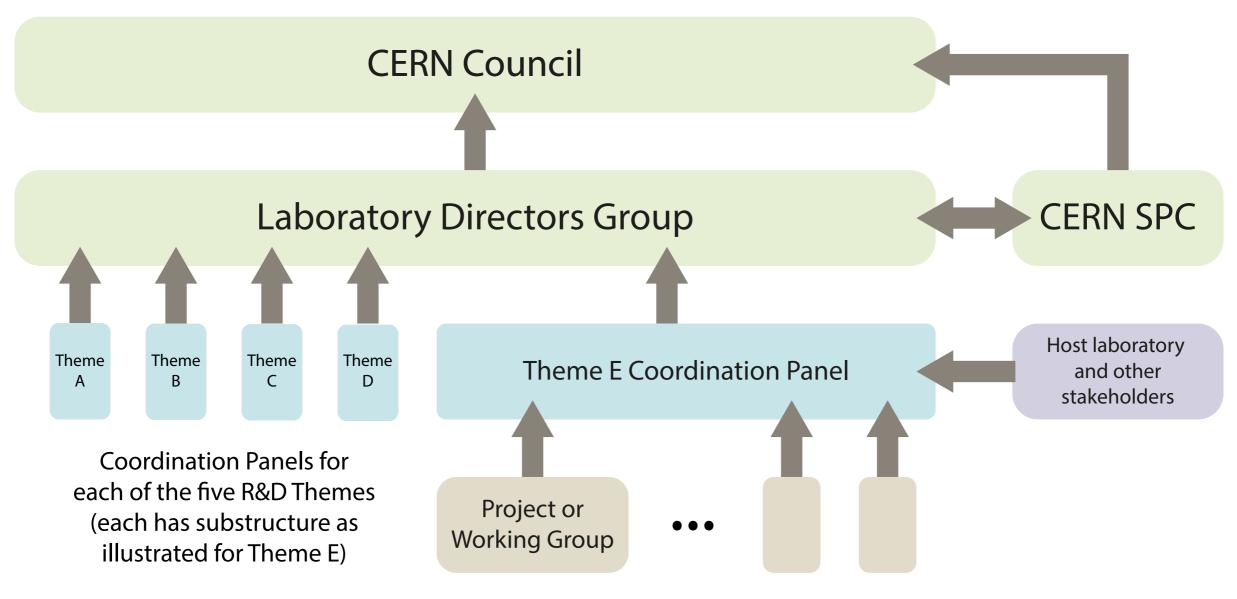


Working Model

- Monthly hybrid meetings
 - Alternate between general meeting and focussed discussion of accelerator R&D roadmap ('Extended LDG')
 - December in-person meeting focussed on annual review of roadmap
 - One in-person Open Meeting / Forum per year
- Interactions
 - LDG reports formally to CERN Council as required, with a regular quarterly update to CERN SPC
 - Proposed that LDG chair sits ex officio on SPC
 - LDG chair is ex officio member of RECFA, ECFA chair attends LDG
 - LDG members attend and present at plenary ECFA meetings
- Oversight of roadmap
 - R&D is organised de facto by five coordination panels
 - LDG provides oversight, review, and the reporting line upwards



R&D Coordination Structure



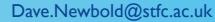
Multiple projects within each R&D Theme



Dave.Newbold@stfc.ac.uk

Global Forum

- This event originally advertised as two-day Global Forum
- Motivation
 - Key decision points and challenges coming up HEP that will affect us all
 For the broadest definition of 'HEP', and similarly in other relevant science areas
 - Strategy processes under way in all parts of the world
 - New requirements and pressures on labs from funding agencies and external conditions
 - Scale of funding (and therefore delivery challenge) becoming very large
 - No formal connection between similarly labs inside and outside Europe
 - In some cases, even informal connections put under strain by changes during COVID era
- These are common challenges, motivating a common response
- What happened?
 - Difficult to get engagement by labs around the world starting from zero
 - No current forum where lab directors meet collectively (seems a significant gap)
 - Lack of familiarity with the work / role of LDG
 - Exceptionally busy time of year
 - Question: should we try again? And if so, where and how?





Common Concerns

- Addressing environmental sustainability
 - This has the potential to affect all future investment decisions
 - In the worst case, an existential consideration for HEP
- Planning long-term big science vs medium-term applications
 - Technical developments often produce benefits outside Big Science first
 - The 'reverse path' into HEP (e.g. from light sources) does not always work
- Maximising the regional benefits of global investments
 - How can labs secure (and demonstrate) a role in centralised projects?
 - How can this be reconciled with expectations of funding agencies?
- Coordinating response to national / international strategy
 - How do we find a voice in scientific strategy processes without 'advocacy'?
 - Do the interests of labs always align with the global scientific interest?
- Sustaining public interest and support for major laboratories
 - Showing that our role goes far beyond 'hosting large national infrastructures'





Accelerator R&D Workshop

- Roadmap is now 'taking off'
 - After a difficult definition and setup phase during COVID, the benefits are now being seen
 - New funding streams becoming available, new coordinated activities set up
- Purpose
 - To report to the wider HEP community the progress in R&D to date
 - To receive feedback and comment, ensuring that the roadmap stays on course for delivery of results before the next European Strategy Update
- Content
 - Introductions on strategy and future facilities
 - Presentations by global science projects current in construction
 - Reviews of work in each of the five R&D areas
- Not just a 'business as usual' reporting meeting
 - Significant announcements to make, topics to discuss and decisions to be prepared for

