

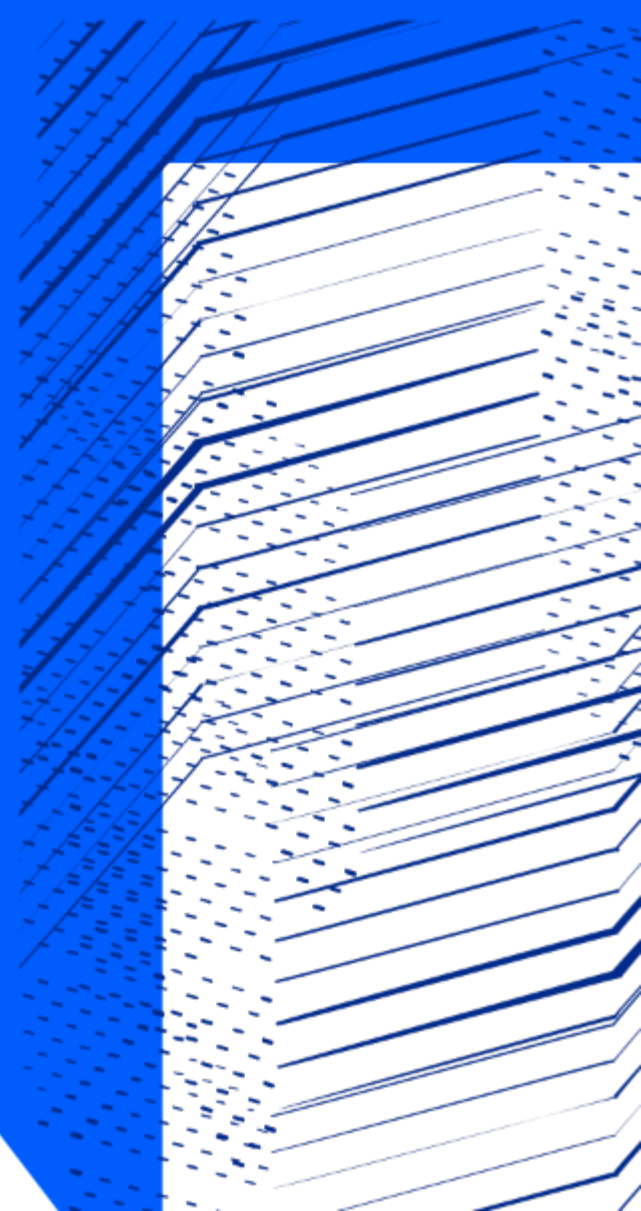


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# Next Steps

Mark Thomson  
STFC Executive Chair

28 July 2020



# Two key questions...

What scientifically do we want to do?

What are the UK R&D priorities?

The Particle Physics Advisory Panel (PPAP) will update their roadmap to take account of the European Strategy update and to include UK priorities.

- Discussions will take place in the autumn.
- Community Meeting on 28<sup>th</sup> Sept to gather community views and feed into roadmap update
- Further information on how to input will be sent after this meeting.
- Queries can be sent to [ppap@stfc.ukri.org](mailto:ppap@stfc.ukri.org)

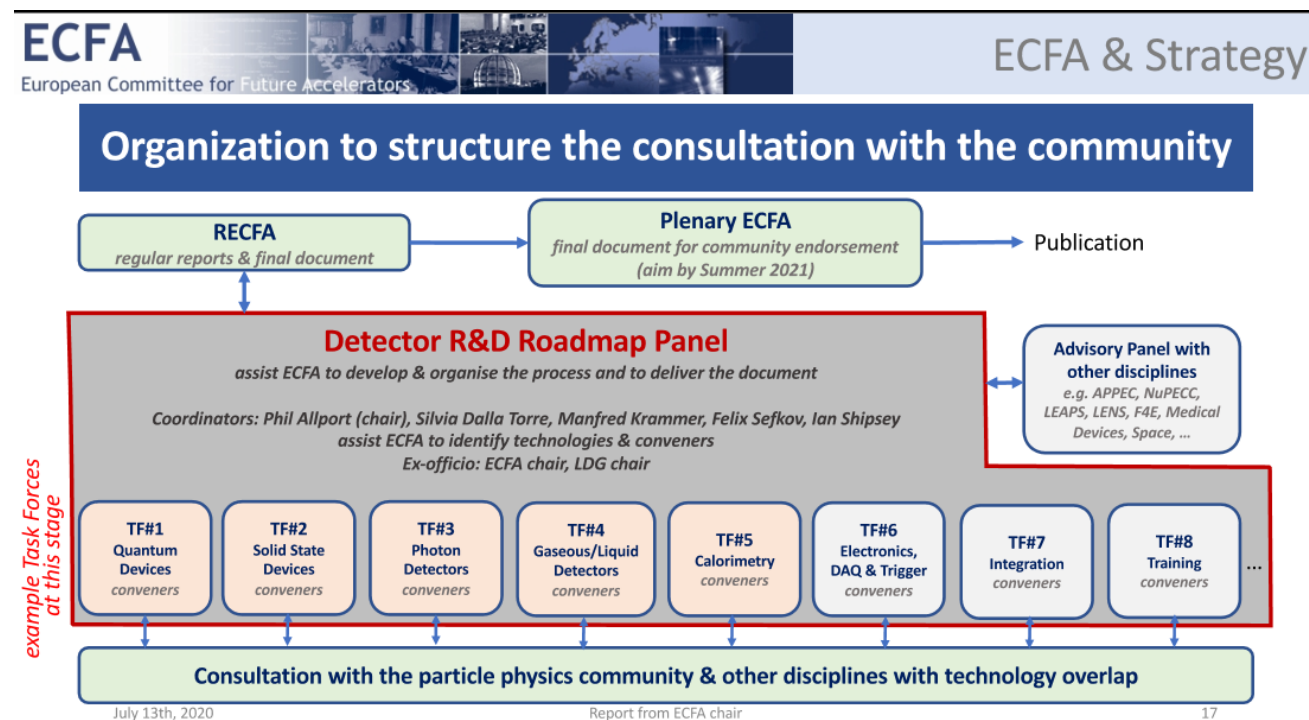
European roadmaps being developed by ECFA (detector R&D - Phil Allport) and Laboratory Directors Group (accelerator R&D - Dave Newbold)

- Further information to come on how you can get involved.

# Detector R&D Roadmap

Deliberation document “The community should define a global detector R&D roadmap that should be used to support proposals at the European and national level

- Work being coordinated by ECFA
- ECFA Detector R&D panel chaired by Phil Allport
- Aiming for publication by Summer 2021
- Plenary ECFA presentations at <https://indico.cern.ch/event/933318>



# Accelerator R&D Roadmap

## Strategy update identified a number core themes for accelerator R&D:

- High-field magnets, high-temperature superconductors
- Plasma wakefield acceleration (and other high-gradient techniques)
- Bright muon beams
- Energy recovery linacs

## Accelerator R&D Roadmap, to be put in place over next six months, will:

- Define the implementation of R&D (and will not revisit strategy)
- Provide a structure for practical cross-European (and international) work
- Tie into the detector R&D roadmap coherently
- Explicitly seek to make links with work outside HEP
- Specific concrete deliverables, including demonstrators
- Inform the next Strategy via better understanding of possibilities and costs

# Accelerator R&D Roadmap

## Why bother?

- Avoid wasteful overlap of activities / expertise
- Maximise use of existing facilities / funding / expertise
- Provide pre-agreed structure for EU and NG funding bids
  - NOT bids to FAs – they are already ‘in the loop’ at Council level

## How will this be done?

- Clearly cannot steer national agenda ‘from above’ – we will have to prioritise nationally
- Process of agreement, consensus, building cooperation
- Expert panels to be set up from ~September to discuss and plan each work area

## Decisions / discussions for UK

- Do we support this approach? What are our priorities? Who will represent us?
- How does this tie into (ongoing) STFC strategy discussions?



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# Questions?