

## Steering Group meeting #1

### Introduction

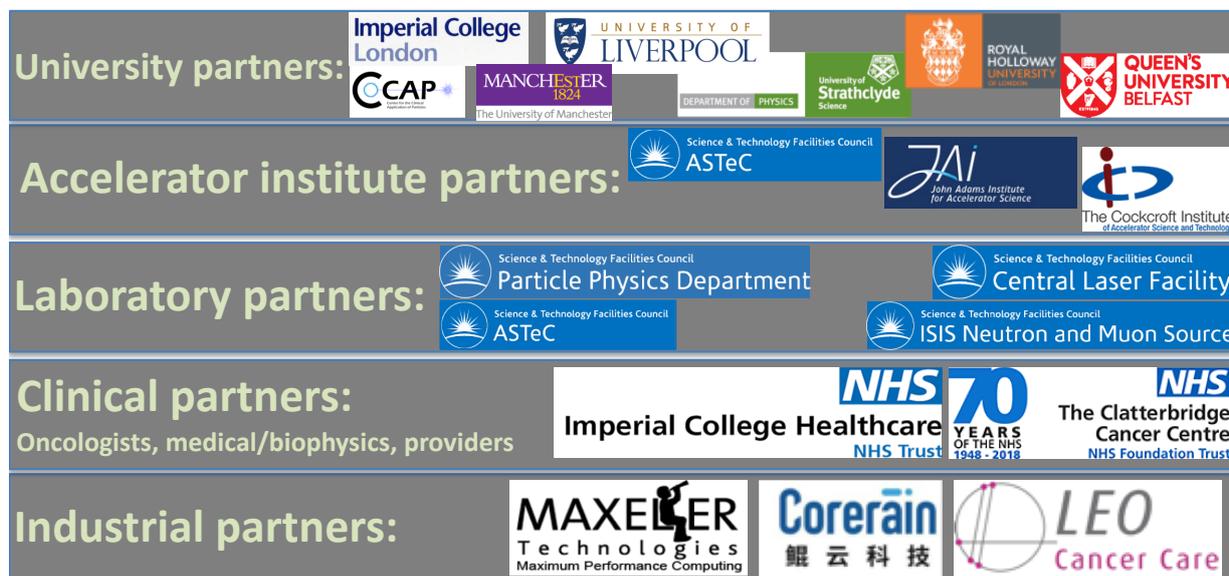
#### STFC Opportunities 2019 award and LhARA pre-CDR

##### STFC Opportunities 2019 award:

Provides funding to:

1. Deliver an outline CDR for the ‘Laser-hybrid Accelerator for Radiobiological Applications’, LhARA;
  - Require to deliver the pre-CDR by April 2020.
2. Establish a test-bed for advanced technologies for radiobiology and clinical radiotherapy at the Clatterbridge Cancer Centre (CCC):
  - Some issues have arisen with the development of the beam line at the Clatterbridge Cancer Centre. J. Parsons beginning to consider other options.
3. Create a broad, multi-disciplinary UK coalition, working within the IBC to place the UK in pole position to contribute to and to benefit from this exciting new biomedical science-and-innovation initiative:
  - Return to discussion of the development of this initiative under agenda item 4.

Consortium:



Not closed; discussion under agenda item 4.

##### LhARA pre-CDR:

6-month project to deliver pre-CDR that must contain:

- Motivation:
  - The need for a systematic programme of radiobiology and the properties that make LhARA unique;
  - The case for technological developments to drive a step-change in capability for the clinical application of particle beams.

- Baseline specification for the complete facility;
- Timeline and first-cut cost estimate; and
- R&D plan.

**Clear articulation of the R&D plan is critical for the development of the programme beyond April 2020.**

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## **Key dates and Steering Group meetings**

### **Key dates (outline schedule):**

- **29 Nov 2019:** First issue of the baseline. This will include lists from the various systems of what needs to be updated on the existing floor layout, WBS, interfaces document and the parameter table.
- **31 Dec 2019:** First end-to-end tracking simulation.
- **31 Jan 2020:** Design of the facility will be frozen.
  - First view of the costs.
  - R&D programme needed to realise LhARA and be able to write a technical design report will be defined.
- **28 Feb 2020:** Complete the write-up of the pre-CDR.
- **Mar 2020:** External review of pre-CDR in advance of publication.
  - Need to make a list of possible reviewers. Included in discussion of agenda item 3.

### **Steering Group meetings:**

- (28 Nov 2019 10:00 GMT)
  - 17 Dec 2019 10:00 GMT
  - 31 Jan 2020 10:00 GMT
  - 28 Feb 2020 10:00 GMT
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## **Goals for this meeting of the LhARA Steering Group**

### **Goals for this meeting:**

- Review status of development of the pre-CDR;
  - Identify a list of possible reviewers for March 2020; and
  - Discuss the development of the initiative and the LhARA
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