

UK Biobank Imaging Enhancement

Steve Garratt

Senior Project Manager

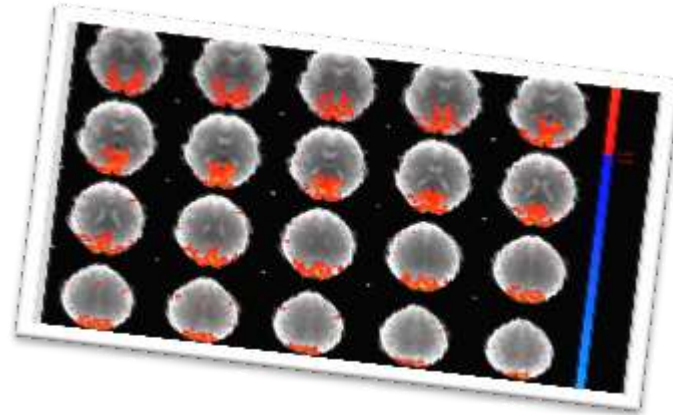
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UK Biobank Imaging Project

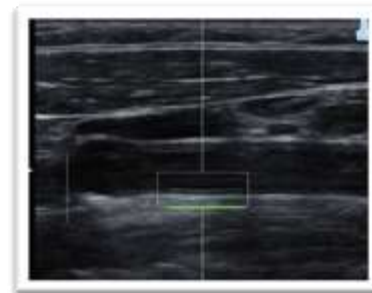
- Will take around seven years to complete
- Operating 3 imaging centres
 - Co-ordinating centre, Stockport
 - Then one in Reading, the other Newcastle
- Around £40 million in funding now granted
- A total of 100,000 participants

Imaging Modalities

- MRI
 - Brain (3T)
 - Cardiac (1.5T)
 - Abdomen (1.5T)



- Dual-Echo X-Ray Absorptiometry (iDXA)



- Carotid Ultrasound



Imaging Working Group

- *Chair*: Prof. Paul Matthews, Imperial College
- *Abdomen*: Professor Jimmy Bell and Dr. Tony Goldstone,
MRC Clinical Sciences Centre, Imperial College London
- *Brain*: Prof. Steve Smith and Prof. Karla Miller,
Centre for Functional MRI of the Brain, University of Oxford
- *Cardiac*: Dr. Steffen Petersen and Prof. Stefan Neubauer,
Barts and the London and OCMR, University of Oxford
- *Carotid*: Dr. Paul Leeson,
Cardiovascular Clinical Research Facility, University of Oxford
- *DEXA*: Dr. Nick Harvey,
MRC Lifecourse Epidemiology Unit, University of Southampton

Scientific Value

- Integrated with detailed non-imaging data
- Investigation of associations
- Meaningful risk assessments can be made
 - Measures made before disease

Phase 1

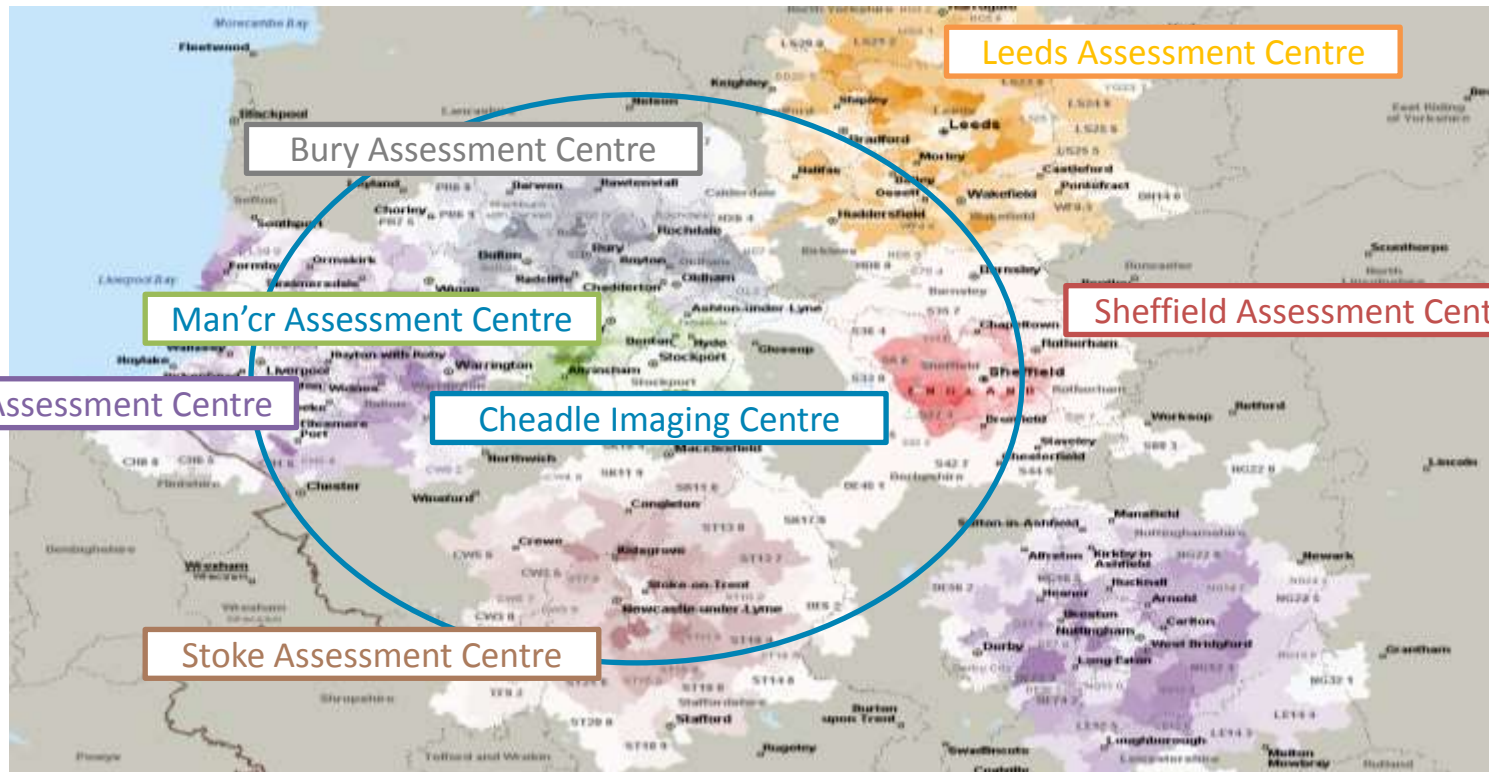
- Over 7,000 participants from the North West
- Duration of 18 months, completed end of last year
- Coordinating Centre, South Manchester
- Initial funding of £9.5 million from the MRC

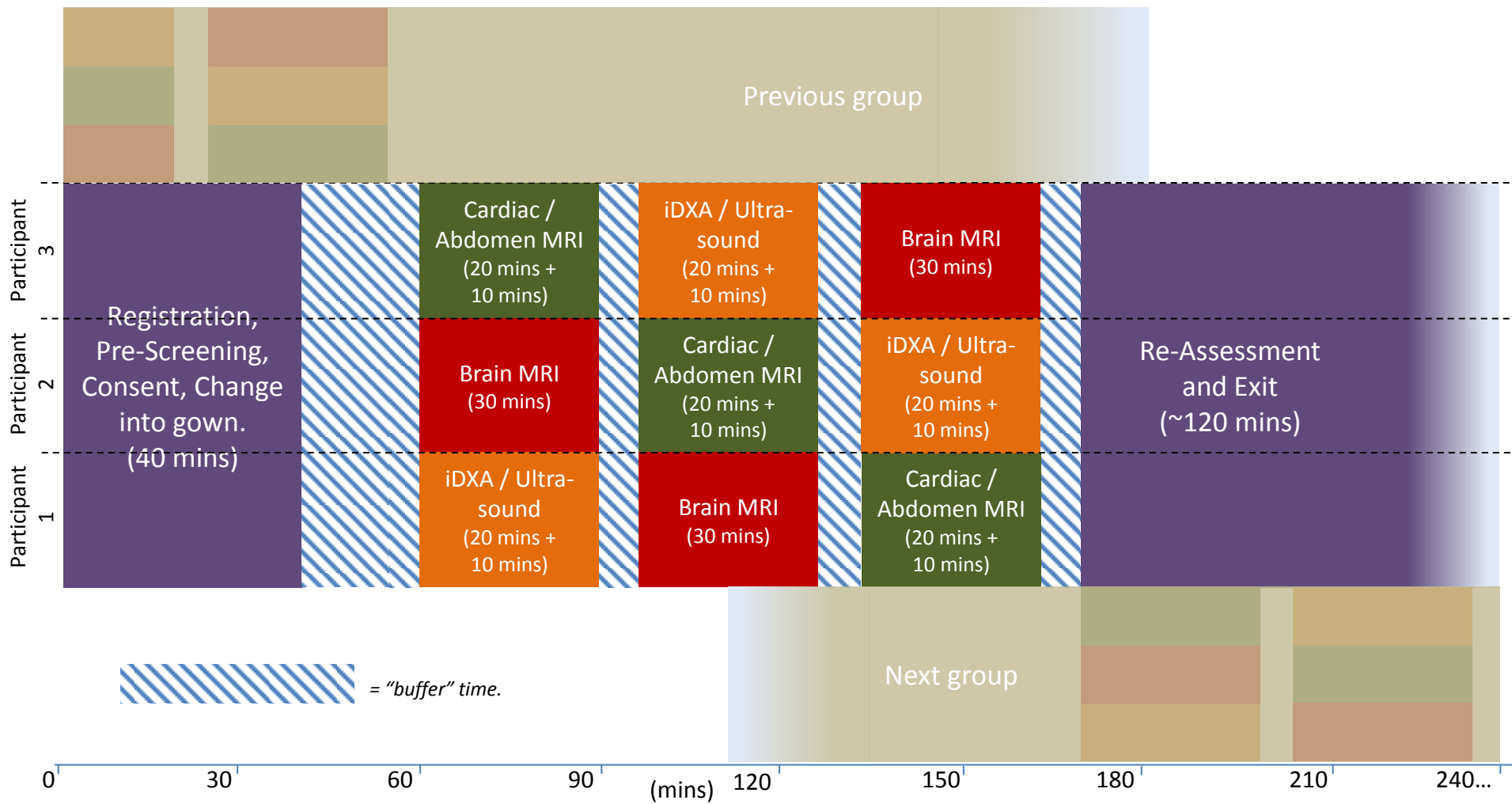
- The first phase of the study alone is the largest imaging study of its kind in the world

Centre Construction



Participant Recruitment





Current Status

- Funding for 100,000 was officially announced in April
- 9,530 participants imaged
- Imaging equipment for new sites procured
- Plans well progressed for new sites
- Currently recruiting for staff
- Some new dementia tests being developed
- Looking at feasibility for some other enhancements

Funding bodies:

Supported by:

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DiABETES UK
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