



National Pathology Imaging Co-operative

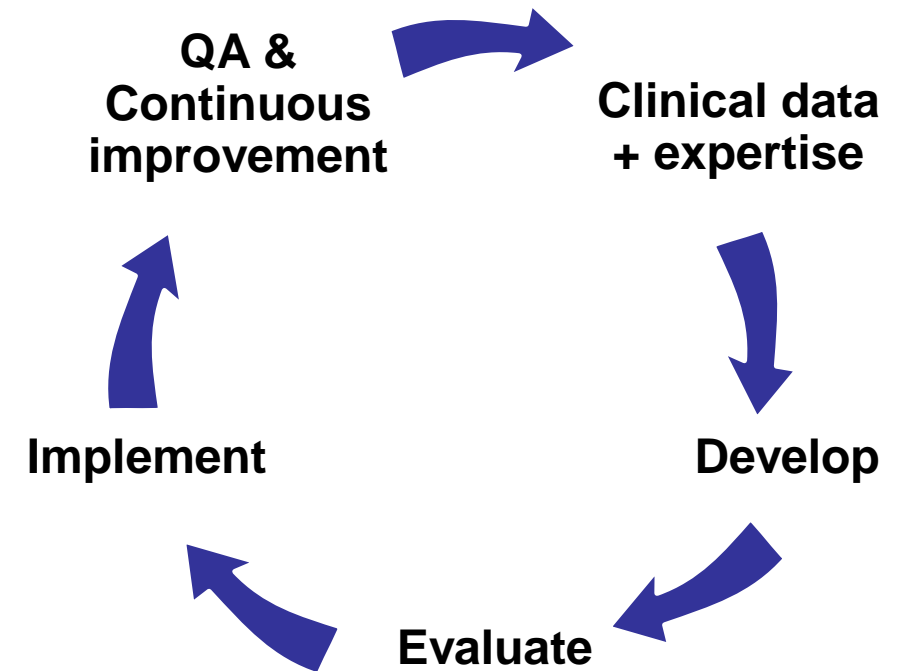
Prof David Bettle
17th March 2022

National Pathology Imaging Co-operative: Summary

- One of 5 UKRI Centres of Excellence in digital imaging and AI
- 2019-2023
- £33.0m public funding, £11.4m industry funding
- Build a national digital pathology system as a *platform for the NHS*
- World leading scale
- > 30 hospitals to start, 3 Petabytes image data per year

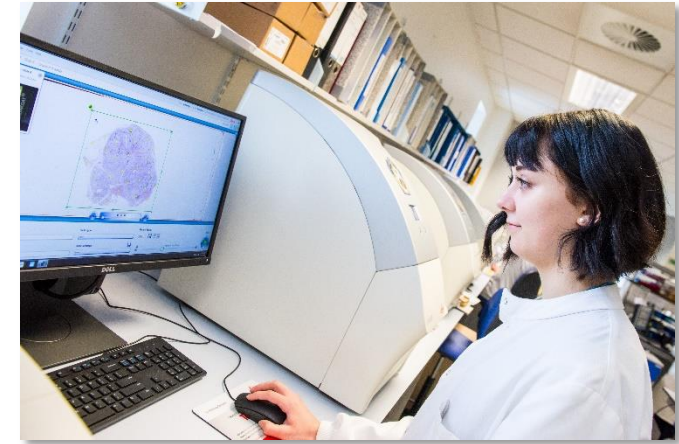


1. Drive clinical use of digital pathology
2. Place for AI development and evaluation over the whole AI lifecycle
3. Support further research and innovation



Supporting the entire AI lifecycle

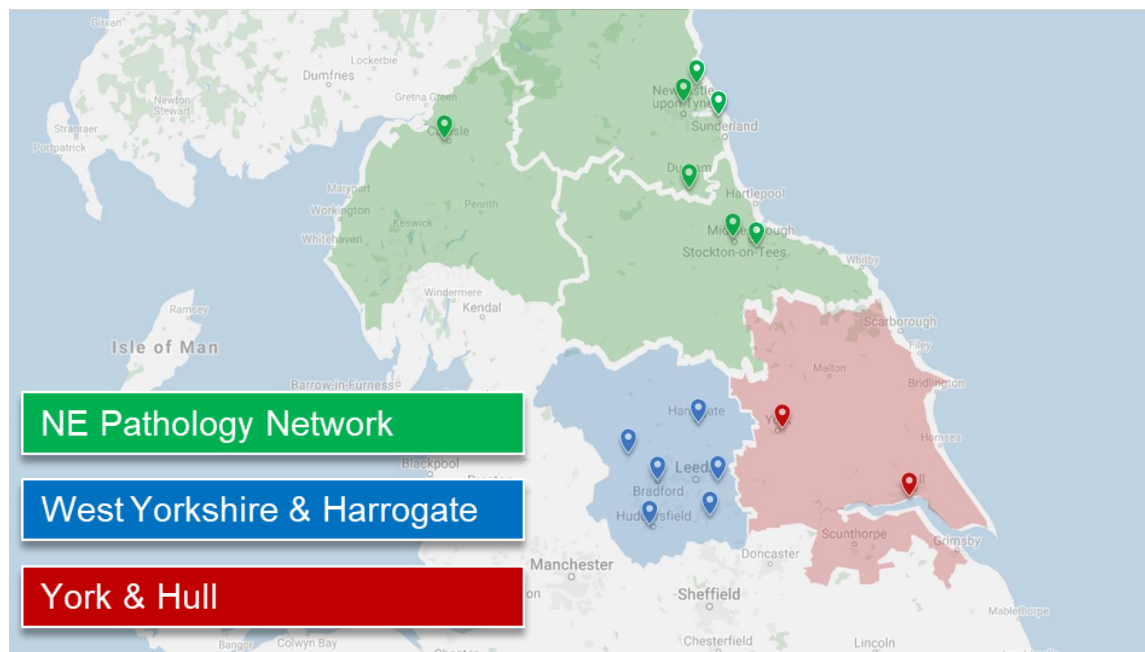
A National Digital Pathology Knowledge and Training Centre



- Hands on workshops and training for pathologists & biomedical scientists
- Centre for industry NHS collaboration including an incubator for start-ups
- Multiple scanner platform for research and AI

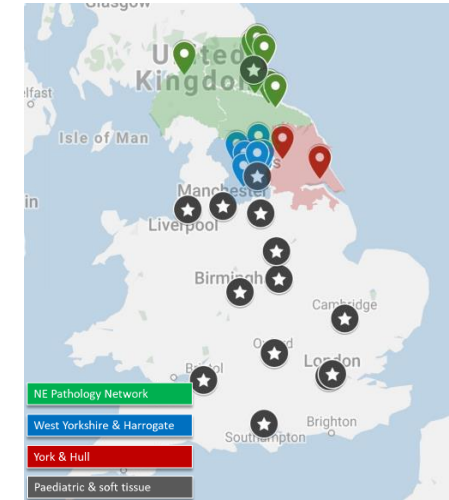
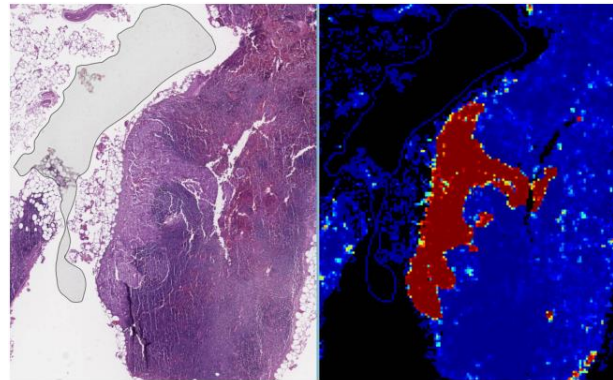
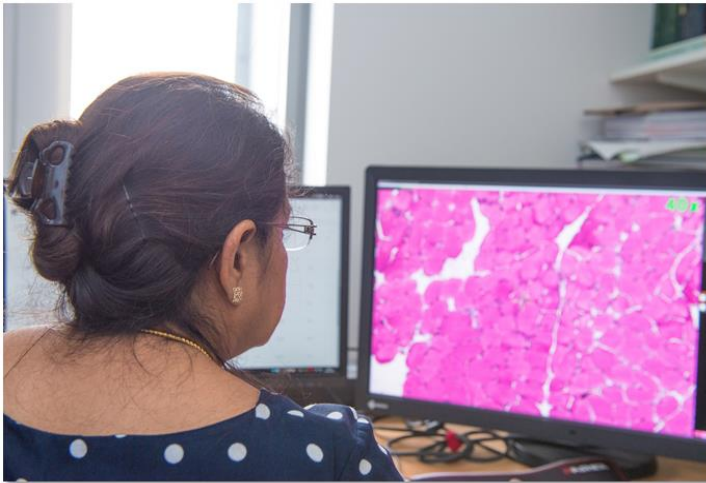
Scaling Up Full Deployment in 3 NHSI Pathology networks

- Full digitisation of 3 NHSI pathology networks in North
- Share knowledge, procedures and QA processes from Leeds deployment



15 NHS Trusts
238 pathologists
6 million people
48 scanners
1 vendor neutral archive
2.4 million images per year

A platform for many applications...



Clinical diagnosis

- Full digitisation of NHS hospitals
- 3 regional networks in North
- 2 national networks for rare tumours (to start)

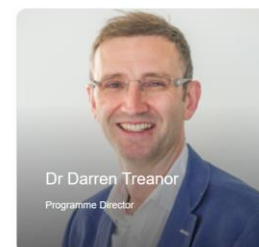
Digital pathology & AI

- Gather data for AI development
- Evaluate AI across multiple hospitals

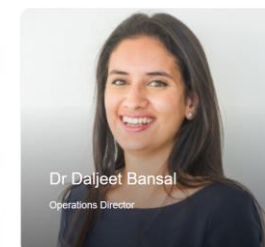
National research & innovation

- Pathology-Genome correlation in and 2x GeCIPs (Sarcoma and Paediatrics) to start
- Support national clinical trials
- Support diagnostics innovation

Acknowledgements



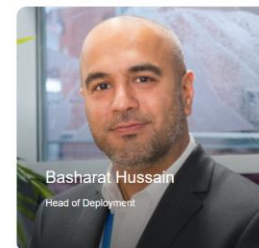
Dr Darren Treanor
Programme Director



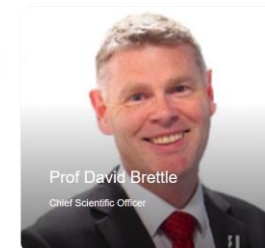
Dr Daljeet Bansal
Operations Director



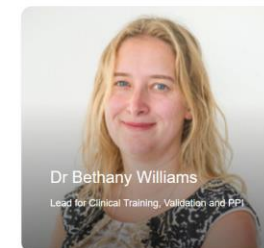
Chris Herbert
Director of Operations R&I



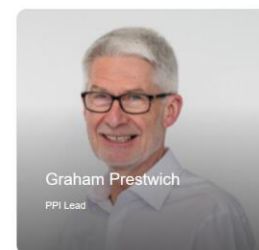
Basharat Hussain
Head of Deployment



Prof David Brettie
Chief Scientific Officer



Dr Bethany Williams
Lead for Clinical Training, Validation and PPI



Graham Prestwich
PPI Lead



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