



NPIC

National Pathology Imaging Co-operative

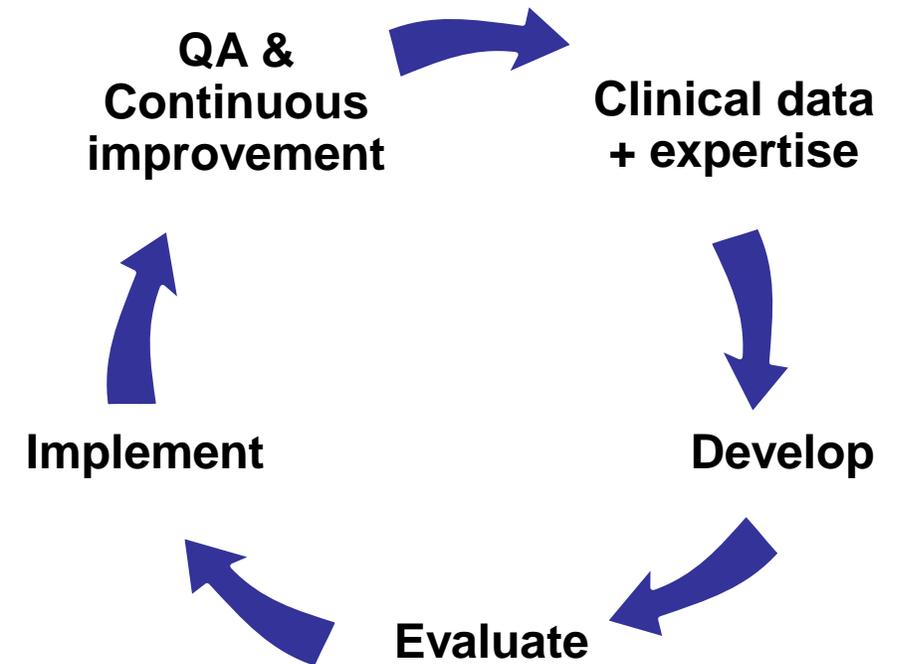
Prof David Brette
17th March 2022

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

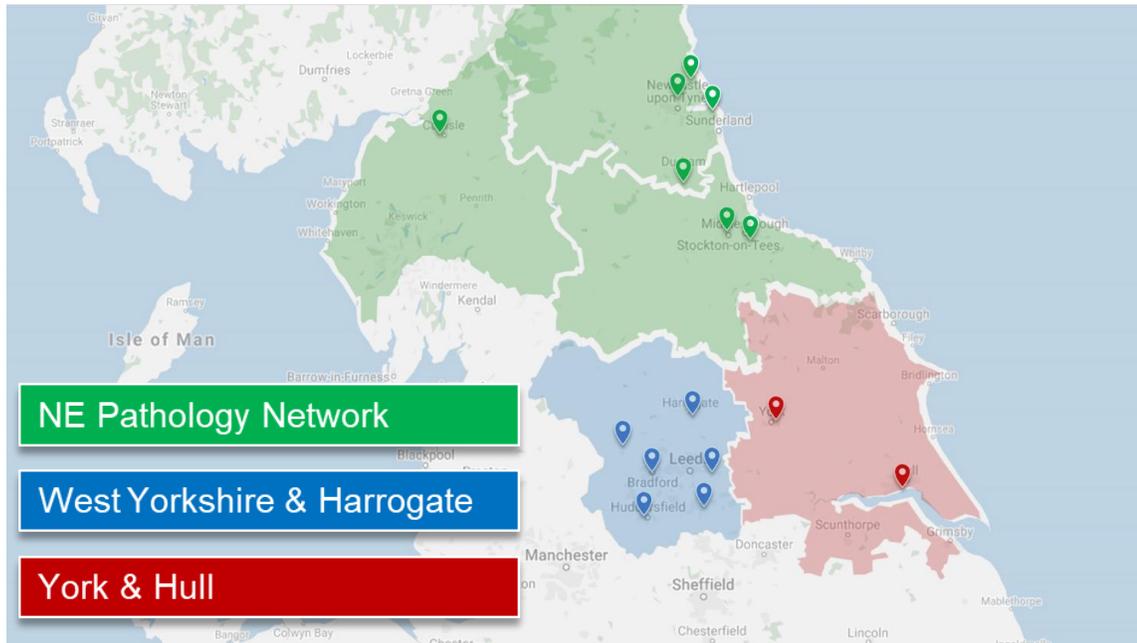
A National Digital Pathology Knowledge and Training Centre



- 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

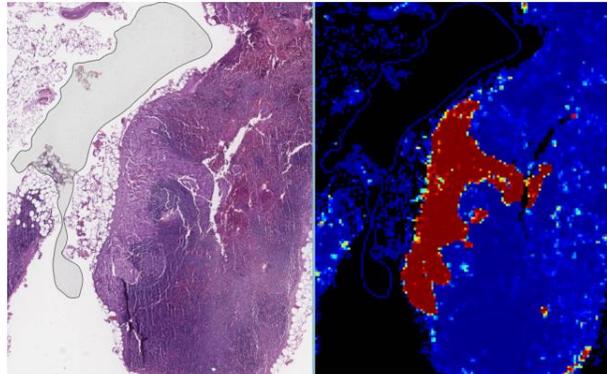
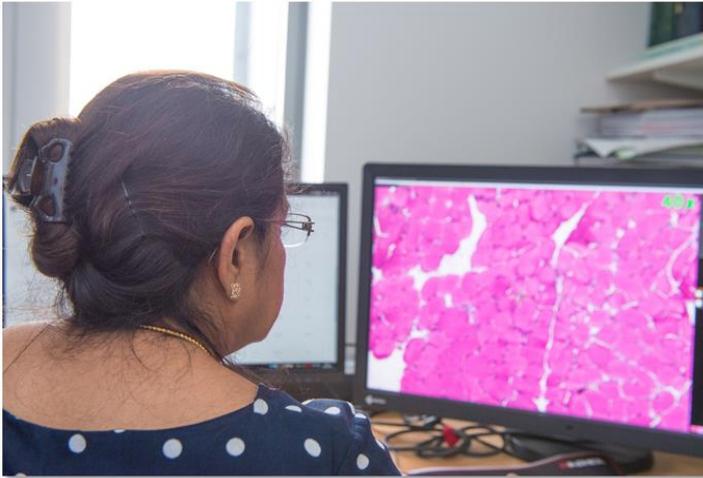
Scaling Up Full Deployment in 3 NHSI Pathology networks

- 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)

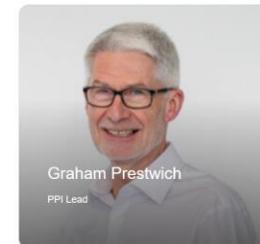
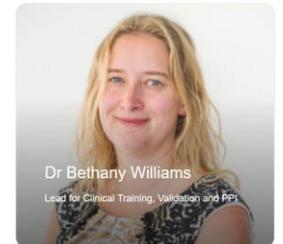
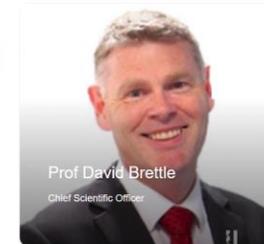
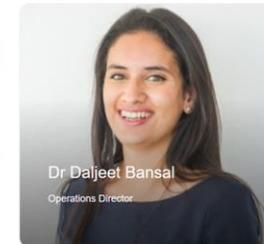
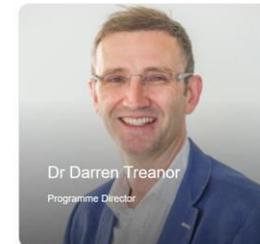
Digital pathology & AI

- 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



National Pathology Imaging Co-operative, NPIC (Project no. 104687) is supported by a £50m investment from the Data to Early Diagnosis and Precision Medicine challenge, managed and delivered by UK Research and Innovation (UKRI).

leedsth-tr.npic@nhs.net