PathLAKE
Pathology image data Lakes for Analytics, Knowledge and Education
Partners in computational pathology excellence
AI for Pathology

- Pathology matters
- Recruitment
- Advances in care
- Earlier diagnosis
- Complexity increasing
- Ageing population
- 19th century based technology

“services that diagnose diseases earlier and more efficiently”
Pathology Workload

Total Cases

Total Slides
PathLAKE: Goals & objectives

- Digitalise diagnostic pathology
- Build a data lake containing the “real world” NHS data
- Establish the ethical framework to access this resource
- Develop a world class centre in AI for digital pathology
- Work with industry, SMEs, NHS digital, regulators, and academic partners to develop algorithms of real value to the NHS and patients
- Share the learning and benefits with the world
- Deliver a sustainable business model for PathLAKE

“develop improved and new products and services”
The Design Paradigm

NHS On-Premise Data Sources
- Philips SDK, DeID
- Site Data Pond
- PathIS

Middleware
- kyto
- Glencoe Software
- NVIDIA

Use Cases
- HDR UK
- Genomics England
- ISCF Centres
- PathLAKE Data Lake & the Analytics Engine

Perspectum Diagnostics
- Oxford Cancer Biomarkers
- Sonrai

PathLAKE Data Lake & the Analytics Engine

Site Data Pond
Education and Training

Training
- Reporting on Digital Pathology (DP)
- EQA and DP guidelines
- Readout of AI algorithms
- Annual workshops

Education
- Masterclasses on machine learning, medical imaging and Computational Pathology (CP)
- Network of data scientists in CP
- Challenge contests