Current State of Biobanking

• Biobanking worldwide is fragmented

• Small biobanks grown from research programs

• Poorly resourced, costly, diffuse assets and infrastructure
Solving the Problem - Unity

- Centralisation of infrastructure
- Remove barriers for researchers
- Integrate the philosophy of biobanking
NSW Health Statewide Biobank

- Statewide Service
- Pathology Integrated
- Agnostic
- Large Scale
NSW Health Statewide Biobank

• Greenfields Build

• No existing LIMS

• External Stakeholders
  – Clinical Trials
  – Private Industry
  – Public Health / MRIs
Aspirational Biobank Infrastructure

- PALGA in Netherlands
- UK BioCentre
- Pan-European Biobanking and Biomolecular Resources Research Infrastructure

NSW Government Health Statewide Biobank
Services based Infrastructure

• Blood & Tissue collection
• Blood & Tissue processing
• Storage @ RT / LN2 / -80
• Live cell isolation
• DNA/RNA Extraction
On Boarding Process

- Application Form
  or
- Access Form
- Quotes
- Agreements + MTAs
- Service provision with ethics
More than just infrastructure!

• Removing barriers for research

• Integrating the Biobanking philosophy
Consent Toolkit

- Being updated to include MBS/PBS data
- Federal Government negotiation
- Access will still need to be approved
Consent Toolkit Education

• Multimedia education
  – Videos
  – Pamphlets

• Three target groups
  – Patients
  – Researchers
  – Consenting staff
Certification Program

- New voluntary certification program sharing education and best practice guidance
- Sign up at: [http://nsw.biobanking.org/](http://nsw.biobanking.org/)
Certification Program

• National Deployment

• Cost for Non-NSW banks

• Updated content
  – ISO
  – Best Practice Guidelines
Biobanking LIMS

- Specialised biobanking software
- Highly Modular
- Web based
- GLP Compliant
- Licensable
Module Model

- NSWHSB
  - Biobank A
    - Study 1
  - Biobank B
    - Study 1
  - Biobank C
    - Study 1
    - Study 2
LabVantage Licensing

- User License based model
- Hosted on eHealth network
- Accessible outside of NSW Health
- Storing sample meta data only
Tissue Specimen Locator

• Marketing issue
  – Enable research

• Integrate with BLIMS

• Data protection and exchange
Workflow Project

• Research Project

• Embedding Biobanking into Pathology

• Targeting anatomical pathology labs
Workflow Project

• Assessing and reviewing resource requirements

• Attempting to change culture in target labs

“What if we don’t change at all ... and something magical just happens?”
E-newsletter

• For all the latest biobank news, sign up for our e-newsletter today

• Issued every 6-8 weeks

• Join the list by emailing NSWPATH-Biobanking@health.nsw.gov.au or speak to one of here today
Questions

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