Clinical Data Storage
Freedom Mukomana (SBIMB, Wits)
How it all started

• Idea to form a Biobank

• Attended Biobank Seminars and visited other biobanks

• Prototypes
Factors

• Costs
  – Initial Costs
  – On-going Support

• Skills Available
Why The Ark Informatics

• Minimal Costs

• Functions available
The Ark Informatics

- established within the Centre for Genetic Origins of Health and Disease at The University of Western Australia (UWA)
- in late 2009
- to develop an open-source platform
- to support Australian and international biomedical researchers
The Ark Informatics

Administration
- Administrator guide
- Manage users

Study management
- Create a new study
- Update study details

Study components
- Subject uploader (new subjects)
- Subject uploader (updating subjects)
- Subject custom field uploader (new subjects)
- Subject custom field uploader (updating subjects)

Reports

Subject management
- Search existing subjects
- Add new subject
- Study specific demographic data

Contact
- File attachments
- Consent
- Correspondence
- Clinical data
- Biocollections/biospecimens
- Biospecimen search
- Pedigree

Phenotype management
- Data dictionary definition
- Data dictionary upload
- Dataset definition
- Phenotype data uploader

Laboratory Information Management System (LIMS)
- Inventory
- Collection custom fields
- Biospecimen custom fields
- Barcode labels
- Biospecimen upload

Work tracking
- Researcher management
- Billable item types
- Work requests
- Billable items
Redcap-Ark (LIMS) Integration

AWIGEN SITES
- Agincourt
- Soweto
- Digkale
- Nairobi
- Nanoro
- Navrongo

SBIMB Biobank Personnel

H3Africa Data management workshop – 12th May 2016, Senegal
Laboratory Information Management System (LIMS)

Inventory (Freezers)
Collection custom fields
Biospecimen custom fields
Barcode labels
Biospecimen upload
Useful Link

Source code & A pre-built Virtualbox OVA is available

https://github.com/The-Ark-Informatics

Documentation

http://sphinx.org.au/the-ark
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