H3ABioNet

Pan African Bioinformatics Network for H3Africa

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

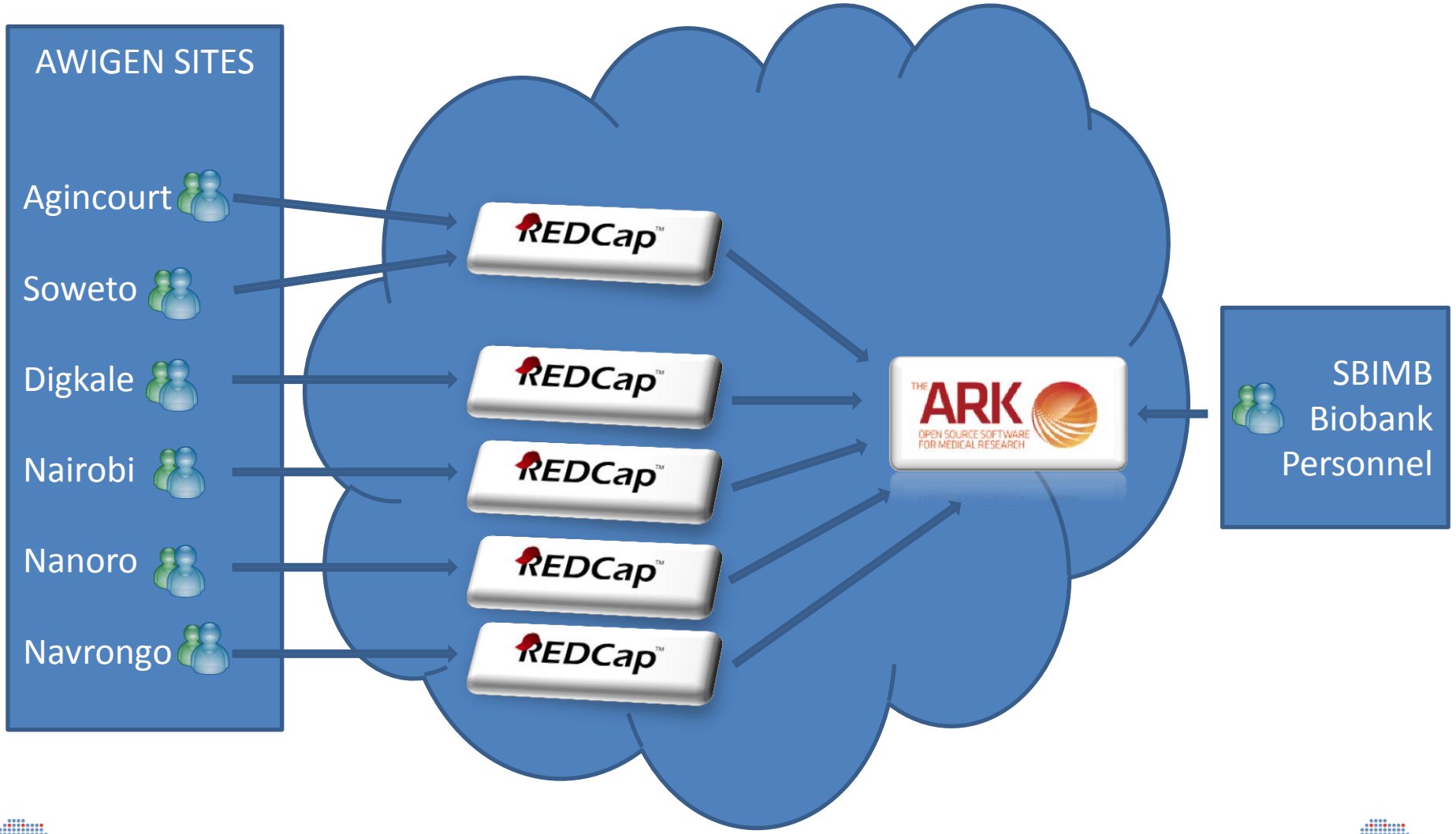
- established within the Centre for Genetic Origins of Health and Disease at The University of Western Australia (UWA)
- in late 2009
- to develop an open-source platform
- to support Australian and international biomedical researchers

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



The Ark Informatics

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

Acknowledgements

- Prof. Michele Ramsay (SBIMB, Wits)
- Prof. Scott Hazelhurst (SBIMB, Wits)
- Travis Endersby(UWA)
- Thilina Tranaweera (UWA)