Towards an archiving and preservation vision
for the University of the Witwatersrand

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Archiving and preservation

- Historical papers
- Library collections
- History Workshop
- Video and audio collections
  - e.g. Wits TV
- Donations of significant collections from industry
- History of human evolution
- Institutional papers and documents
Wits
- Archiving
- email
- eLearning
- Web & portal
- Enterprise document management
- Hosting services
- Tutu project
- Other

Opportunity

Synergy

National
- Private sector donation
- National archive initiatives
- Provincial and local project initiatives
- National research data archive

Need
Institutional changes
Can we build synergy via the platform?
Private cloud infrastructure

Simplified view

- Hosted services
- Wits portals
- Email
- eLearning
- Digital archive

Compute cloud

- Robotic tape library
- Hierarchical storage
- Spinning disks
- Flash memory
Private cloud infrastructure

- Hosted services
- email
- Wits portals
- eLearning
- Digital archive
  - Application
  - Application
  - Data grid
  - Object store
- Middleware
- Virtualization
- Operating System
- Compute cloud
  - Robotic tape library
  - Hierarchical storage
  - Spinning disks
  - Flash memory

Hardware layer

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Private cloud infrastructure

- Hosted services
- Digital archive
- eLearning
- Wits portals
- email

Virtualization
- Zimbra
- Chisimba
- Fedora
- iRODS
- DSPACE

OS: Open Solaris

Hardware layer
- Compute cloud
- Robotic tape library
- Hierarchical storage
  - Spinning disks
  - Flash memory
Private cloud infrastructure

- Hosted services
- Digital archive
  - Chisimba
  - DSPACE
  - iRODS
  - Fedora
- Virtualization
  - OS: Open Solaris
- Wits portals
- eLearning
- Zimbra
- Glassfish
- Remote site
- Remote site
- Remote site
- Remote site
- Compute cloud
  - Hierarchical storage
  - Spinning disks
  - Flash memory
- Robotic tape library
- Public cloud

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Private cloud infrastructure

- Hosted services
- Digital archive
- Virtualization
- Chisimba
- Fedora
- DSPACE
- iRODS
- eLearning
- OS: Open Solaris
- Glassfish
- Zimbra
- Compute cloud
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- Spinning disks
- Flash memory
- Robotic tape library

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African Virtual Open Initiatives and Resources

A PROJECT ABOUT

Human Development

Capacity Building

Creating opportunities for people through the formation of transnational alliances both within Africa and out
CHISIMBA IS A CHICHEWA (MALAWI) WORD FOR THE FRAMEWORK USED TO BUILD A TRADITIONAL AFRICAN HOUSE
MODULAR DESIGN

Module
- Data access
- Logic
- Templates

Module
- Data access
- Logic
- Templates

Module
- Data access
- Logic
- Templates

Controller

Model

Object

Engine

View

Helper modules
- e.g. htmlTable
- htmlForms
- layer
- getIcon, etc

Database
The stack

Cross platform

RESTful API
Ajax
Mashable
XMPP
Mobile phone
Online package management

Version 4 will be fully distributed
Assimilation
hive://chisimba.borg
The stack

- Fedora
- PEAR
- PHP
- Chisimba
- MySQL
- GNU/Linux
- Javascript
- extJS
- prototype
- CURL
- FFmpeg
- gstreamer
- Open Office
- Java
- Python
- RED5
- Flash
- Open fire
- Jabber
- SWF tools

- Cross platform
- RESTful API
- Ajax
- Mashable
- XMPP
- Mobile phone
- Online package management
- Version 4 will be fully distributed
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Creating **semantic** and **socially connected**

archives
repositories
museums
herbaria
Semantic and social archive

- Fedora commons
- Fedora commons SWORD API
- Chisimba

University of the Western Cape
University of the Witwatersrand
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Thank You

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