Development and Implementation of an e-Information Strategy for an academic library

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e-Information Strategy & e-Research Enablement
Library Services
University of Pretoria
Introduction

• **Variables** that influence the role of academic libraries

• **Why** an e-Information strategy

• Phases of development
  – e-Information strategy **business plan**
  – e-Information strategy: 2006-2007
  – Integration with the library’s and university’s strategic plan
  – The library’s strategic plan 2007-2010
  – The Library’s e-Information Strategy 2008- & examples of the e-Strategy’s **successes**
Variables that influence the role of academic libraries

- Impact of the Web and Search engines
- Global library digitisation projects e.g. Google, European Union
- Impact of e-Research
- Needs of Net Generation students
- Possibilities created by Web / Library 2.0 to develop a modern academic library
Impact of the Web and Search engines

- Traditional purpose of academic libraries is to provide access to trustworthy, authoritative knowledge
- Information-seeking and behaviour are changing drastically > Web / Net
- In Dec 2004 Google started to digitize 4 big libraries’ holdings (“tipping point”)
- **With everything on the Net – what is left for academic libraries?**
- **Possibilities**: providing learning spaces; creating metadata; virtual reference; info literacy; managing licenses; digitizing, digital repositories …

(http://www.educause.edu/apps/er/erm06/erm0610.asp)
<table>
<thead>
<tr>
<th>benefit</th>
<th>years to mainstream adoption</th>
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<td></td>
<td>less than 2 years</td>
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<tr>
<td>transformational</td>
<td>Internet2/Next Generation Internet</td>
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<td>high</td>
<td>802.11x on Campus Course Management Systems</td>
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<td>moderate</td>
<td>E-Portfolios Podcasting Learning Content</td>
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<td>low</td>
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As of June 2006
Impact of e-Research

• “…to describe large-scale, distributed, collaborative science enabled by the Internet and related technologies”

• “a collection of distributed computing resources (data repositories, specialized scientific equipment, computing power, knowledge services) that appears to users as one virtual system”

http://www.educause.edu/apps/er/erm05/erm0563.asp
Enable e-Research
A New Science / Research Paradigm

• **Thousand years ago**: Experimental Science  
  - description of natural phenomena
• **Last few hundred years**: Theoretical Science  
  - Newton’s Laws, Maxwell’s Equations …
• **Last few decades**: Computational Science  
  - simulation of complex phenomena
• **Today**:  
  e-Science or Data-centric Science  
  - unify theory, experiment, and simulation  
  - using data exploration and data mining  
  - Data captured by instruments  
  - Data generated by simulations  
  - Data generated by sensor networks  
  - Scientist analyzes databases/files

\[ \left( \frac{a}{a} \right)^2 = \frac{4\pi G \rho}{3} - K \frac{c^2}{a^2} \]

© 2006 Tony Hey
The Living Cell – A Grand Challenge

For the Physical Sciences

Decoding the human genome
Proteomics
Computation and information processes
Immunological responses
Cell structure issues
And many more …

The Genomic Data Explosion

Measured Genomic Sequence is growing three times faster than Moore’s Law

© 2006 Hans Hoffmann
Role of university libraries in e-Research

- In the South African context the implication of e-research for information support has been investigated at a high level.
- The result is the **SARIS** (SA research information service) report ([http://www.sajim.co.za](http://www.sajim.co.za)).
- The proposed **e-Research support service** is important to university libraries, as they can implement many of the initiatives.
**eResearch Support Service for SA**

### Future eResearch activities
- **Research Portal** (incl global searching)
- **Data Transfer and Sharing** (processes and protocols, 3As, helpdesk)
- **Open Access** (Standards, common software, institutional repositories)
- **The eResearch Librarian** (Training and re-orientation)
- **Digital Curation Services** (Standards, software, marketing & training services)
- **Portable & access constraints**

### Immediately
- **SASLI**
- **National Research and Education Network**
- **Centre for High Performance Computing**

### Governance & Management
- **eResearch Board**

### eResearch Development & Innovation
- **Function**
- **Activities**
  - Innovative services move to Service Delivery
- **eResearch Service Delivery**
  - Usually sub-contracted to competent agents in the system
  - Lead Users Forum
Information needs of Net Gen students

- Technology has led to more modernisation than transformation of the library, resulting in some major disconnects between many of today’s academic libraries and Net Gen students.
- The most common disconnect between many of today’s academic libraries and Net Gen students is students’ dependence on Google or similar search engines for discovery of information resources rather than consultation of library Web pages, catalogs, and databases as the main source of access.

(http://www.educause.edu/apps/er/erm05/erm0523.asp)
Possibilities created by Web / Library 2.0 to develop a modern academic library

Web 2.0

From Wikipedia, the free encyclopedia

Web 2.0, a phrase coined by O'Reilly Media in 2004,[1] refers to a perceived or proposed second generation of Internet-based services—such as social networking sites, wikis, communication tools, and folksonomies—that emphasize online collaboration and sharing among users. O'Reilly Media, in collaboration with MediaLive International, used the phrase as a title for a series of conferences, and since 2004 some members of certain technical and marketing communities have adopted and loosely adapted the phrase. Others, notably Tim Berners-Lee, see the term as a needlessly and poorly-defined buzzword.

Contents [hide]
1 Introduction
2 Characteristics of Web 2.0
3 Technology overview
4 Innovations associated with "Web 2.0"
   4.1 Web-based communities
LIBRARY 2.0 MEME MAP

1. User-centricity
2. Technology-savvy environment
3. Reaching of the patrons long tail
4. Content for more than one device
5. Component-based software, not monolithic ILS
6. Constant change
7. Use of Web 2.0 apps and services
8. Open standards

Library:
- Enable (e) Research
- Integration with (e) learning environment
- Library that LETS
- The library invites participation

STAFF:
- Creation of an Emerging Technology Committee

OPAC:
- Federated search
- RSS for cataloging records & search results
- Records tagging
- User reviews

THE PHYSICAL LIBRARY:
- Loud spaces for collaboration & conversation
- Mobile devices for users

THE LIBRARY is human:
- The library is everywhere
- Patron 2.0 = from content consumer to content creator
- The library uses flexible, best-of-breed systems

Social computing apps to meet users' needs when, where and how they need it

The library has no barriers

Library is a framework for integrating change into all levels of library operations

Why an e-Information Strategy?

- Can be seen as a high-level Innovation Strategy for any organisation
- Integrate e-Information applications within a broad framework
- Help to focus the organisation
- Keep the organisation on the cutting edge of new developments
- Establish a framework for capacity e.g. staff, IT to implement the strategy
- Actually just another term (a.k.a.) for a focussed corporate Knowledge Management strategy
Phases of development

Business plan 2004
Integration with library & university's plans
Library strategic plan 2007-
e-Strategy 2008-
E-Information strategy business plan

- A **business plan** for the Library’s e-Information strategy was formulated for the period June 2004-December 2005

- **Content:**
  - Introduction
  - Strategic context
  - Vision & mission of the Library; strategic objectives of this strategy
  - Information products & services
  - Marketing
  - Staff issues
  - Resources needed
  - Recommendations & implementation
Phases of development

- Business plan 2004
- Integration with library & university's plans
- Library strategic plan 2007-
- e-Strategy 2008-
The Library’s e-information strategy 2006-2007

The aim of this strategy is the creation of an integrated seamless e-Service for the University of Pretoria.

Objectives

- To support education innovation and research excellence at UP;
- To deliver optimal e-information portal services (work flow) to our clients, and
- To take part in and make a contribution to international and national e-information phenomena, e.g. open access, digital preservation, e-Science, content management.

Key sub strategies in order to meet these objectives

- The creation of an e-information environment for our clients;
- Development of an e-information plan as part of UP’s e-strategy;
- Development of learning/e-learning & research/e-research support strategies;
- The adjustment of the Library’s structure, business processes, skills and facilities to support the e-information strategy.

Integration with the library’s strategic plan

- The content of the e-Strategy was integrated in the Library’s strategic plan 2005-2010:
<table>
<thead>
<tr>
<th>Vision</th>
<th>We strive to be leaders in providing world-class solutions to information and knowledge challenges for achieving academic excellence.</th>
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<tbody>
<tr>
<td>Mission</td>
<td>The AIS leads and facilitates</td>
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<td></td>
<td>• Information and knowledge management</td>
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<td>• Information literacy</td>
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<td>• Designing and establishment of e-information services</td>
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<td>• Establishment of a gateway to global information</td>
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<td>• Effective scholarly communication</td>
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<tr>
<td>Values</td>
<td>• We generate positive energy for academic business success</td>
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<td></td>
<td>• Professional behaviour, ethics and values are our hallmark</td>
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</table>
### Library strategic plan: 2006-2010 (extra funding)

<table>
<thead>
<tr>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
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<tbody>
<tr>
<td><strong>UP STRATEGIC OBJECTIVES</strong></td>
<td><strong>The Academic Enterprise</strong></td>
<td><strong>Marketing &amp; Communication</strong></td>
<td><strong>Transformation</strong></td>
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<td><strong>LIBRARY STRATEGIC INITIATIVES</strong></td>
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<td><strong>eInformation Strategy</strong></td>
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<td><strong>Learning &amp; eLearning Support</strong></td>
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<td><strong>Research &amp; eResearch Support</strong></td>
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<td><strong>Organisational redesign to create eService</strong></td>
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<tr>
<td><strong>Restructuring Library IT Architecture to integrate with UP Systems redesign</strong></td>
<td><strong>Learning Centre Phase 2</strong></td>
<td><strong>Enhance InfoLiteracy &amp; Life-long Learning Skills</strong></td>
<td><strong>Federated Search Engine</strong></td>
<td><strong>Develop Research Support Strategy</strong></td>
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<td><strong>Implement Research Support Strategy</strong></td>
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<td><strong>Develop new Research Support Role for Information Specialists</strong></td>
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Integration with the university’s strategic plan

• “ensuring that the University’s library and information services can give academics access to the information they need”

• “E-research and the Library
  – digitisation of rare sources
  – archiving research data
  – development of Virtual Research Environments (VREs)
  – an institution-wide academic digital repository”
Phases of development

- Business plan 2004
- Integration with library & university's plans
- e-Strategy 2008-
- Library strategic plan 2007-
Integration with the library’s new strategic plan
The Library Services is responsible for the management of academic information and knowledge, and for leading the University in information and knowledge innovation.
# Vision, Mission, Values

## Vision

We strive to be a world-class modern academic research library enabling the University of Pretoria to become an internationally recognised research university.

## Mission

The vision will be achieved by:

- Developing a well balanced and relevant information collection
- Providing access to information in all formats nationally and internationally
- Taking responsibility for information literacy
- Enabling research and e-research
- Contributing to learning and teaching excellence
- Exploiting new technologies and continuously developing facilities for the advancement of learning and research
- Contributing to community development

## Values

We value:

- Positive energy for success
- Professional and ethical behaviour
- Diversity as an asset
<table>
<thead>
<tr>
<th>LIBRARY STRATEGIC AREAS</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
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<tbody>
<tr>
<td>Information Collection</td>
<td>Redefine the information collection to meet the challenges of the new information environment</td>
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<td>Information Literacy</td>
<td>Enhance information literacy for academic success and lifelong learning by using an integrated approach</td>
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<tr>
<td>Enable research &amp; eResearch</td>
<td>Impact positively on research and e-research</td>
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<tr>
<td>Learning &amp; teaching excellence</td>
<td>Strengthen the role of the AIS in the facilitation of learning and teaching</td>
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<tr>
<td>Community development</td>
<td>Contributing to community development</td>
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<tr>
<td>Technology exploitation</td>
<td>Develop a Library 2.0 service model</td>
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<tr>
<td>Sustainability</td>
<td>Ensuring the sustainability of the AIS: Human resources, Financial issues, Quality assurance, Physical facilities, Marketing, Risk management</td>
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**UP STRATEGIC THRUSTS**

- **Academic excellence**
- **People centered institution**
- **Excellence in core functions**
- **Excellence in support functions**
- **Local impact**
- **Transformation**
- **Interfaces**
- **Sustainability**
Achievements of the previous e-Information strategic process

• Creation of the **e-Service unit** as that part of the Library primarily responsible for the implementation of the e-Information strategy
• Creation of several Library **e-Steering committees**
• Development and implementation of UP digital research **repository**, UPSPACE (https://www.up.ac.za/dspace/)
• Google Scholar and Scholar SFX as **global search engine** of the library’s electronic sources. (http://0-scholar.google.com.innopac.up.ac.za/). Also bought the commercial SFX link resolver in 2007
• Created a **digitisation** centre and established several UP digitisation projects. We are the first library in South Africa to buy the Digibook 10000RGB scanner. We also obtained scanners for microfiche / microfilm, slides and audio. (http://www.ais.up.ac.za/aisintranet/aisnewsjan1/)
• Development and implementation of the **Open Scholarship** strategy (thesis, dissertations, journal articles)
• Start of **e-Books collection** project
• Development of the **skills** of library staff (conferences, workshops, courses etc)
• **Marketing** of the Library’s e-Strategy, e-Products & e-Services: UP, RSA, Africa & internationally
• **UP executive** supports this strategy
Phases of development

- Business plan 2004
- Integration with library & university's plans
- e-Strategy 2008-
- Library strategic plan 2007-
University of Pretoria Library’s e-Information Strategy 2008-2010

e-Environment for Scholarship

- e-Research
- e-Learning
- Library web
- e-Resources
- Repositories
- Open Scholarship
- Web / Library 2
- Digitisation
e-Environment for Scholarship

- e-Research
- e-Learning
- Library web
- e-Resources
- Repositories
- Open Scholarship
- Web / Library 2
- Digitisation
Digital data curation
- Implement digital curation of research data at UP in collaboration with Vice-rector: Research
- Involved with national initiatives

e-Research environment
- Develop & implement SA Malaria virtual research environment (VRE) in collaboration with Sera
- Investigate VRE’s for UP

Digital Scholarship advocacy
- African Digital Scholarship & Curation Conference 12-14 May 2009 (UP & UB are co-chairs)
  http://www.library.up.ac.za/digitalscholarship.htm
Data curation

Research Data Life Cycle

- Data acquisition
- Data ingest
- Metadata
- Annotation
- Provenance
- Data storage
- Data cleansing
- Data mining
- Curation
- Preservation
The Distributed Data Curation Center (D2C2), managed by the Purdue University Libraries, investigates and pursues innovative solutions for curation issues of organizing, facilitating access to, archiving for and preserving research data and data sets in complex environments. Current D2C2 outcomes include interaction with the DIR which serves as a platform for investigation of data curation issues and development of applications to determine controlled access for data and to help solve data archiving and preservation problems that arise in several research domains, such as agriculture and energy.
Digital Curation @ UP

Establishment of an Institutional (UP) Policy for the Preservation and Retention of Research Data dated 2007-08-23:

“Data that is in digital form or which can be converted into digital format will be stored and curated on the digital repositories created by the University library”

This proposal will have a huge impact on the Library as we do not have adequate resources
Open access and the Humanities

- In the **humanities** open access should similarly refer not only to publications but also to testimonies of cultural heritage, to historical works of art, literature, and science, to image, film and sound collections, to statistical data, etc.” (http://bechet.exp.sis.pitt.edu/lis2670/NSF-JISC-report.pdf).
Virtual Research Environment (VRE) for Malaria research in SA
A SERA (UP/CSIR) initiative

Malaria VRE components

- Web/wiki/blog: search engines, databases; researchers & topics; funders, portals, communication, projects
- Identification of research area
- Literature review & indexing
- Internal shared database of indexed articles
- Dissemination & artifacts
- Identification of collaborators
- Proposal writing
- Real time communication
- Project management
- Training / mentoring etc
- Identification of funding sources
- Scientific workflow

E-learning system for researchers

(Collaborative) Electronic Lab book

Integrated data management system

Servers with data files

Sophisticated instruments that generate digital information and data

Mathematical modelling tools; numerical algorithm tools; simulation software; in silico experiments

Access to research networks & super computers: access to labs with in silico screening +

(Free) Data analysis software

Skype, smart board, video conferences

Document management system

Generic software e.g. MS / Open Office
VRE for the Humanities

- Building a virtual research environment for the Humanities (BVREH). An initial survey carried out by the BVREH team between June 2005 and September 2006 defined the range of services that a Virtual Environment should offer - from information about researchers and their interests and about conferences, lectures and seminars, to integrated communication and collaboration tools to support advanced research. The "Digital Pen and Paper Technologies" project is showing a lot of promise (http://bvreh.humanities.ox.ac.uk/).

- The VRE for the Study of Documents and Manuscripts project naturally follows from the outcomes of BVREH project. In this project a broad-based understanding of user-driven needs has been established, and it was shown how tools and resources for studying texts and document might be implemented in a service-based environment and some annotation and mark-up tools have also been tested. The project team will now proceed to construct an integrated environment in which the data (documents), tools and scholarly instrumenta will be available to the scholar as a complete and coherent resource (http://www.jisc.ac.uk/media/documents/programmes/vre2/vre18sdmvreprojectplan.pdf; http://www.jisc.ac.uk/whatwedo/programmes/programme_vre/vre_bvreh.aspx; http://bvreh.humanities.ox.ac.uk/VRE-SDM).
WHAT IS HUBZERO?

HUBzero allows you to create dynamic web sites that connect a community in scientific research and educational activities. HUBzero sites combine powerful Web 2.0 concepts with a middleware that provides instant access to interactive simulation tools. These tools are not just Java applets, but real research codes that can access TeraGrid, the Open Science Grid, and other national Grid computing resources for extra cycles.

HUBzero was created by researchers at Purdue University in conjunction with the NSF-sponsored Network for Computational Nanotechnology. The technology was originally developed to support nanoHUB.org, a national resource for nanotechnology simulation. It has since been extended to create science gateways for other scientific domains.

View a demo of nanoHUB

Learn more about the underlying infrastructure

HUB Watch

Here is that list of hubs being built with the HUBzero software:

- cceHUB.org
Cyberinfrastructure for nanoHUB.org and Beyond

Michael McLennan
Software Architect
Network for Computational Nanotechnology
Purdue University

DARPA Workshop on N/MEMS Design Automation
San Diego, CA, December 6-7, 2007
Lab Notebook

Are you interested in setting up a lab notebook for yourself, your IGEM team or even your lab? (to see the new OpenWetWare Lab Notebook in action, take a look here).

Features

- Dynamic calendar
  - Create or view project entry dates with a simple click.
- Local search
  - Easily find content located only within your project.
- Improved navigation
  - Easily jump back and forth between entries
- Customizable entry pages
  - Give your notebook pages a personal touch.

Set up your own lab notebook

Further instructions regarding notebook setup can be found here. If you need any help please contact us.
British Library for Research
A one stop solution for carrying out research studies in planned & phased manner and networking with fellow community members

Plan The Research
Search the literature, plan the study, and apply for funding.

Network
Connect with fellow researchers for sharing ideas, resources etc.

Experiment
Use online tools to achieve faster results.

Publish
Disseminate research outputs.

Existing RIC Members

Username: 
Password: 
Remember me
Login

Forgot your username or password?
Trouble signing-in?

New to RIC? Register
Welcome to ResearchGATE

ResearchGATE is a new free of charge Science 2.0 platform, designed for the need of researchers. With this new platform we want to change the world of science by providing a global and powerful scientific web-based environment, in which scientists can interact, exchange knowledge and collaborate with researchers of different fields. Sign up and be part of the first scientific network.

- present yourself and your research projects
- enrol, expand, and broaden your science network globally
- exchange know-how and expertise
- initiate collaboration
- discuss your research limitation and get positive feedback
- Use our innovative tools and work environments for online collaboration

Sign up

View our Global Advisory Network
myExperiment makes it really easy to find, use and share scientific workflows and other files, and to build communities.
The Taverna workbench is a free software tool for designing and executing workflows, created by the myGrid project, and funded through OMI-I-UK. Taverna allows users to integrate many different software tools, including web services, such as those provided by the National Center for Biotechnology Information, The European Bioinformatics Institute, the DNA Databank of Japan (DDBJ), SoapLab, BioMOBY and EMBOSS.

The Taverna Workbench provides a desktop authoring environment and enactment engine for scientific workflows expressed in Scuf (Simple Conceptual Unified Flow language). The Taverna enactment engine is also available separately, and other Scuf enactors are available including Moteur. The myExperiment social web site supports finding and sharing of workflows and has special support for Scuf workflows. The Taverna workbench, myExperiment and associated components are developed and maintained by the myGrid team, in collaboration with the open source community.
Welcome to the home page of PROJECT35!

Project 35 is a Java-based open source software project that takes an XML schema and renders it as forms for data modelling and data entry. We have tried our best to test the software, and the downloaded comes with a comprehensive set of learning materials. Project 35 is general in its approach and this means that it can handle a wide variety of data models from a wide variety of projects and disciplines. The software can be used in scientific or medical domains or can be used to help catalogue things like comic books. We have designed the tutorials so they include screen shots of data entry forms that are relevant to various domains. We took this approach to remind end-users that the software can be applied to multiple fields.

Project 35 also supports internationalisation by allowing different languages to be supported and provides configuration options to accommodate those users who may need larger fonts or different coloured text and backgrounds in order to see effectively. We also have a version specifically designed for Tablet PCs. It is also possible to link fields to ontology terms and to create alerts for fields.

If you have experience with our software, you may want to skip ahead to the section most relevant to you. However, if you are new, then we suggest you start with the 'Who We Are' section and then just follow the main navigation bar at the top of the page from left to right. Each section will have a lot of information but we have tried to organise it so there isn't too much jumping around. We have deliberately kept this documentation simple in terms of its look and feel - don't expect any kind of animation! We have done this to try and ensure our information can be viewed by as many people as possible, some of whom may not have the means to support such fancy presentations. The documentation is available both online and as part of the download.

We are assuming that this is the first page you have come to in the web pages that come with the software download. If you want to get back here, then just click on the Project 35 logo at the top. Good luck!

Keywords: "Project 35", "open source", XML, "data modelling", "data entry", ontology, Java, "Tablet PC", Garwood.

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Digital Scholarship advocacy

http://www.library.up.ac.za/digitalscholarship.htm

12-14 May 2009 CSIR Conference Centre, Pretoria, South Africa

African Digital Scholarship & Curation 2009

Identification of opportunities, strategies and practical examples for new forms of research and scholarship and for the management of the digital content of these activities by academics, researchers, scientists, information professionals and IT experts

Call for Speakers

The organising committee invites proposals for presentations at African Digital Scholarship & Curation 2009, to be held at the CSIR Conference Centre, Pretoria, South Africa 12-14 May). We welcome dynamic speakers from Africa and all other countries willing to share their knowledge and experience about information content, tools, techniques, processes and management.

This conference is a follow-up of two conferences that were held independently in 2007 / 2008, i.e. the University of Botswana Digital Scholarship Conference in December 2007 and the 1st African Digital Curation Conference (http://standata.nrf.ac.za/nadicc/programme.html) in February 2008.

The widespread availability of digital content creates opportunities for new forms of research and scholarship that are qualitatively different from traditional ways of using academic publications and research data. To support these novel forms of research and scholarship, such content must be captured, managed, and preserved in ways that are significantly different from conventional methods. New forms of research and scholarship can be seen in the following
e-Learning
(Ina Smith)

- Develop e-Skills of Library staff
  - Design 60 minutes workshops to support e-Information strategy
  - Make these workshops available for other people at cost?

- UP e-Learning
  - Seamless integration of library information with clickUP

- Library e-Learning
  - Develop & implement e-Learning modes & modules (e.g. information literacy)
Integration of web resource pages with the different modules of the e-Learning system.
Teaching e-Skills to UP librarians:
60 minutes workshops

<table>
<thead>
<tr>
<th>Date</th>
<th>Theme</th>
<th>Facilitator</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 Jan.</td>
<td>Online Gaming</td>
<td>Bettie de Kock</td>
</tr>
<tr>
<td>30 Jan.</td>
<td>Turnitin</td>
<td>Dolf Jordaan/ Lynette Nagel</td>
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<tr>
<td>31 Jan.</td>
<td>Library 2 (Facebook, Blogger, Flickr, YouTube)</td>
<td>Christelle Steyn &amp; Ina Smith</td>
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<tr>
<td>6 Feb.</td>
<td>ClickUp</td>
<td>Christelle Steyn ( &amp; Hettie Groenewald)</td>
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<tr>
<td>11 Feb.</td>
<td>Library 2 (Facebook, Blogger, Flickr, YouTube)</td>
<td>Christelle Steyn &amp; Ina Smith</td>
</tr>
<tr>
<td>20 Feb.</td>
<td>RefWorks I Main Campus</td>
<td>Antoinette Lourens</td>
</tr>
<tr>
<td>27 Feb.</td>
<td>RefWorks I Health Sciences</td>
<td>Antoinette Lourens</td>
</tr>
<tr>
<td>5 March</td>
<td>UPSpace for Collection Managers &amp; Collection Administrators</td>
<td>Ina Smith</td>
</tr>
<tr>
<td>11 March</td>
<td>RefWorks I Vet Sciences</td>
<td>Antoinette Lourens</td>
</tr>
<tr>
<td>12 March</td>
<td>Google Talk &amp; Instant Messaging</td>
<td>Christelle Steyn &amp; Janice de Wee</td>
</tr>
<tr>
<td>13 March</td>
<td>RefWorks I Vet Sciences</td>
<td>Antoinette Lourens</td>
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<tr>
<td>17 March</td>
<td>YouTube Vet Sciences</td>
<td>Christelle Steyn</td>
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<tr>
<td>18 March</td>
<td>Scopus Vet Sciences</td>
<td>Antoinette Lourens</td>
</tr>
<tr>
<td>19 March</td>
<td>Google Page Creator</td>
<td>Christelle Steyn &amp; Janice de Wee</td>
</tr>
</tbody>
</table>
Interactive game to enhance information literacy of students
(Bettie de Kock)
Interactive game to enhance information literacy of students at the Medical Library, UP
e-Environment for Scholarship

- e-Research
- e-Learning
- e-Resources
- Open Scholarship
- Web / Library 2
- Digitisation
- Library web
- Repositories
Digitisation
(Ria Groenewald)

- Create physical space for the digitisation centre
- Identify and train an understudy for the digitisation expert
- Investigate digitisation workflow
- Develop system of priorities and co-ordination
- Implement Media24 arrangement
- Implement software and platform for digitised books
- Development of digital preservation strategy
Examples
- Scan directly to archival server
- Copy from AS
- Deskew/cleaning/derivating/filter
- Safe webready
- Final QC + Storage
- Unique URI created for object
- Send to submitters via email, external hard drive, DVD/CD/Flashdrive, internal server
- Metadata Editor
- Reviewer
e-Environment for Scholarship

- e-Research
- e-Learning
- Library web
- e-Resources
- Repositories
- Open Scholarship
- Web / Library 2
- Digitisation
Open Scholarship
(Monica Hammes)

• To develop and implement a strategy in order to change UP to an Open Scholarship institution
• Integrate list of accredited journals with list of journals that support open access
Open Scholarship

• Libraries Can Provide Enhanced Access to OA Works
• Libraries Can Be Digital Publishers of OA Works
• Libraries Can Build Specialized OA Systems
• Libraries Can Digitize OA Versions of Out-of-Copyright Works
• Libraries Can Preserve OA Materials
• Libraries Can Subsidize Author Fees

“The identification of desirable OA materials is more challenging than the identification of conventional electronic materials because there are a large number of potential suppliers, not a limited number of commercial vendors, and these suppliers typically have no special relationship to the library.”
e-Environment for Scholarship

- e-Research
- e-Learning
- Library web
- e-Resources
- Open Scholarship
- Repositories
- Web / Library 2
- Digitisation
Repositories
(Ina Smith)

• Investigate the possibility that UPSpace can handle the preservation of research data
• Develop guidelines for a trusted repository
• Investigate the migration of the UPeTD collection to the DSpace platform and to integrate it with UPSpace in collaboration with the Open Scholarship team
https://www.up.ac.za/dspace
Examples UPSpace Content
**Institutional Repository Workshop**

1 - 3 October 2008, University of Pretoria

**University of Pretoria, Lynnwood Road, Pretoria, Gauteng, South Africa**

*Venue: Orange Lab, Informatorium Building 57 (Campus Map - Directions to Univ. of PTA)*

This is a wheelchair-friendly venue

**Detailed Program**

Program in PDF - [Detailed Program](#)

### Day 1: Wednesday 1 October 2008

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>07:30 - 08:30</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>08:30 - 08:45</td>
<td><strong>Welcome</strong></td>
<td></td>
</tr>
<tr>
<td>08:45 - 09:30</td>
<td><strong>Formulating an e-Strategy for your institution/library</strong></td>
<td>Hella Pienaar</td>
</tr>
<tr>
<td>09:30 - 10:00</td>
<td><strong>Introduction &amp; current state of Institutional Repositories</strong></td>
<td>Ina Smith</td>
</tr>
<tr>
<td>10:00 - 11:00</td>
<td><strong>Planning your institutional repository</strong></td>
<td>Hella Pienaar &amp; Ina Smith</td>
</tr>
<tr>
<td>11:00 - 11:30</td>
<td><strong>Refreshments</strong></td>
<td></td>
</tr>
<tr>
<td>11:30 - 12:00</td>
<td><strong>Planning your institutional repository (cont.)</strong></td>
<td>Hella Pienaar &amp; Ina Smith</td>
</tr>
</tbody>
</table>
Library web
(Monica Hammes / Christelle Steyn)

• Change look & feel of web as soon as UP web situation is stable
• Investigate functionality of web in view of UP implementation of Oracle / PeopleSoft e.g. the content management system and the portal software
Library web

The biggest web site at UP
Welcome to the postgraduate research support web!

Through this web we would like to address the specific research needs of our postgraduates and researchers at the University of Pretoria. We would like to strengthen the research capacity at the University of Pretoria by:

- Bringing "global" information to researchers
- Stimulating and supporting the publication and dissemination of UP research findings
- Providing information and communication skills training for researchers

What's new?

- NRF Facts and Figures 2007
- ENGAGE in Research
Welcome to the lecturer support web at the library!

The library offers a client-focused service to lecturers of the University of Pretoria. Please contact your information specialist with regard to any inquiries you may have.
New library web site under construction
e-Environment for Scholarship

- e-Research
- e-Learning
- Library web
- e-Resources
- Repositories
- Open Scholarship
- Web / Library 2
- Digitisation
Web / Library 2
(Heila Pienaar)

• Develop a Web / Library 2 strategy & implementation plan
• Enhance the clients’ e-Environment with Library 2 services and products (“go where the users are”) / Invite clients to participate in library content / Increase engagement of library staff on social sites
• “Increasing staff engagement on social sites should be included in every library’s strategic plan”; “By inviting participation, the connection between the user and the library, changes. And so do the perceptions.” OCLC Report. 2007. Sharing, Privacy and Trust in Our Networked World. http://www.oclc.org/reports/sharing/default.htm
Implementation design

• Step 1: Workshop with 15-20 library colleagues 15 Jan

• Step 2: Training sessions on Facebook, Flickr, YouTube & Blogger for library staff 31 January

• Step 3: Survey of library applications end March

• Step 4: Second training session August?

• Step 5: Demo session September / October

• Step 6: Evaluation of impact on academics & students October
Blogger: UPSpace metadata training

Facebook: Information specialists available in the student environment

YouTube channel for UP Library
http://www.youtube.com/watch?v=Sy0f-qHSHM4
Business Facebook for UP Library

http://www.facebook.com/pages/Pretoria-South-Africa/UP-Library-Services/34563526704
Second Life experiment
Second Life Library

Digital Collections
Municipal
touch for web dialog

MauvePinkady
Some Online
Digital Collections
e-Environment for Scholarship

- e-Research
- e-Learning
- e-Resources
- Library web
- Repositories
- Web / Library 2
- Digitisation
- Open Scholarship
e-Resources, global search engine & catalogue
(Soekie Swanepoel)

• Develop a strategy to make these resources part of the clients’ e-environment

• Integrate these resources into interactive interfaces
Open catalogues

…a product of the people: letting them create and curate its catalog, contribute to its content, participate in its governance, and have full, free access to its data. In an era where library data and Internet databases are being run by money-seeking companies behind closed doors, it’s more important than ever to be open.
Proponents of AI techniques say that one day people will be able to search for the plot of a novel, or list all the politicians who said something negative about the environment in the last five years, or find out where to buy an umbrella just spotted on the street. Techniques in AI such as natural language, object recognition and statistical machine learning will begin to stoke the imagination of Web searchers once again.

Governance
Library Structure

Matrix (project / process) teams

e-Information strategy

Clients & the environment

Subject librarians

Support Units

Operations

E-Services

Special Units

UNIVERSITEIT UNIVERSEIT UNIVESITY
Governance

• **Deputy-director**: e-Information Strategy & e-Research Enablement is responsible for the development & implementation of the strategy

• **e-Service unit** is responsible for the research, development, implementation & maintenance of e-products & services that support the strategy

• **e-Steering committees (matrix teams)** are responsible for co-ordination and development of their respective areas
e-Steering committees

- Library e-Service steering committee: Heila Pienaar
- e-Research steering committee: Heila Pienaar
- e-Learning steering committee: Ina Smith
- Digitisation steering committee: Ria Groenewald
- Open Scholarship steering committee: Monica Hammes
- Repositories steering committee: Ina Smith
- Library web steering committee: Monica Hammes
- Web / Library 2 steering committee: Heila Pienaar
- e-Resources steering committee: Soekie Swanepoel
Roles & responsibilities of steering committees

• Chairs are responsible for the establishment of their steering committees
• Steering committees are responsible for their own strategic & implementation plans
• Steering committees to co-ordinate with one another
• Steering committees to discuss progress etc with the e-Service steering committee on a regular basis
• Steering committees are responsible for good communication and interfaces between line and project perspectives
Marketing

- This strategy is responsible for its own marketing
- Chairs of the different areas must coordinate marketing efforts
- In collaboration with the Deputy Director: Specialist Services
AIS eProducts Marketing Event
AI eProdukte Bemarkingsfunksie

Tree of Knowledge
Badlab ("Kremetart") Tree

14 - 31 August 2006

Marketing Event of Library e-Products

More about the "Tree of Knowledge"
About the AIS eProducts Marketing Event
- eProducts to be introduced during this event
- Photo Album of this event on UPSpace
A tree is born ...
Invitation to attend the event

Inquiries
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magda.engelbrecht@up.ac.za
Tel.: +27 12 420 2805 (o.n.)
Studente besig om plakkate aanmekaar te sit ..?
The UPSpace stand attracted a lot of attention.
In conclusion: we are moving in the right direction ...
Bibliography