Digital Scholarship & the role of the university library

University of Botswana and Digital Scholarship conference

12-13 December 2007, Gaborone, Botswana

Dr Heila Pienaar, Deputy Director:
e-Information Strategy & e-Research Enablement
Library Services

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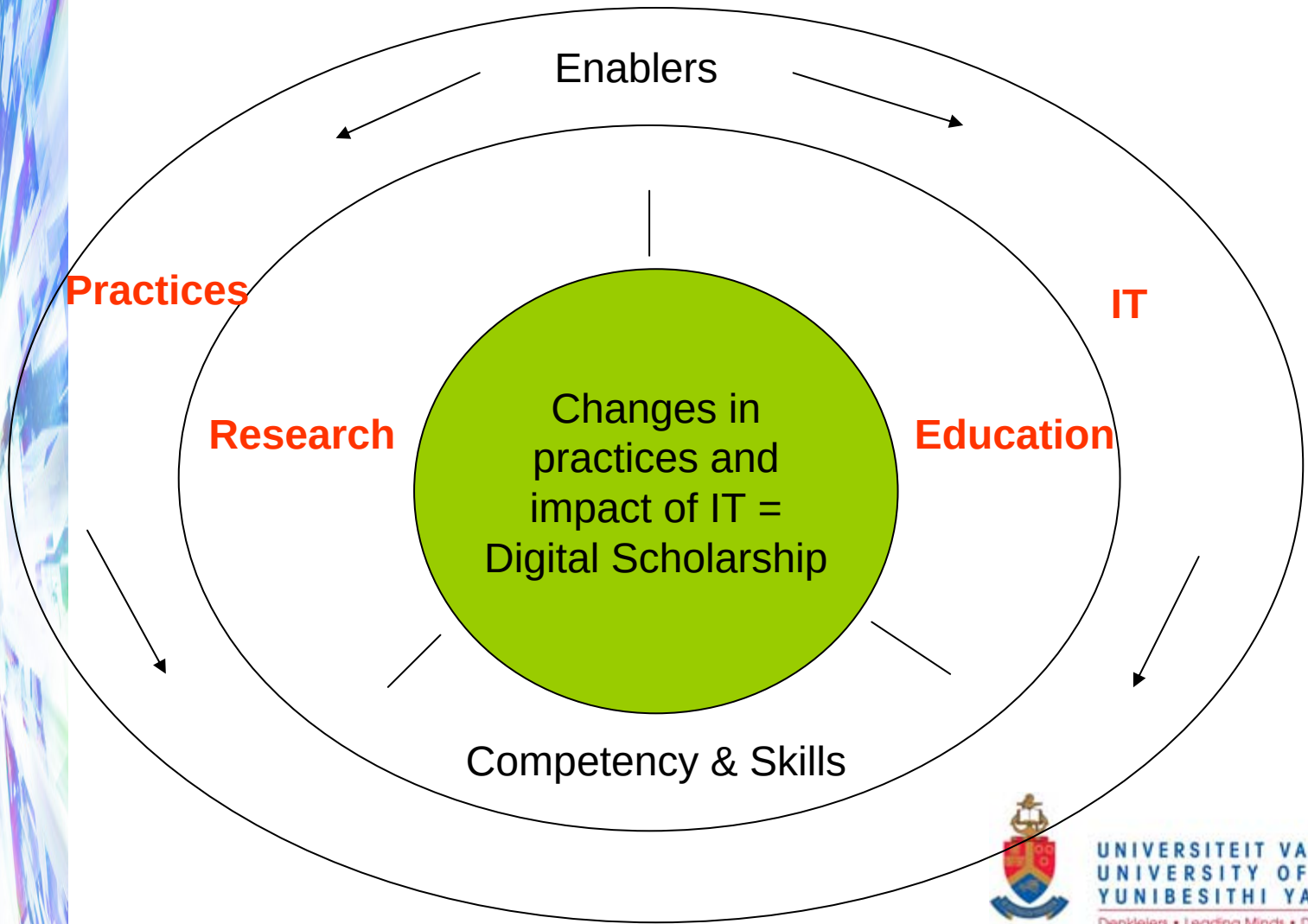
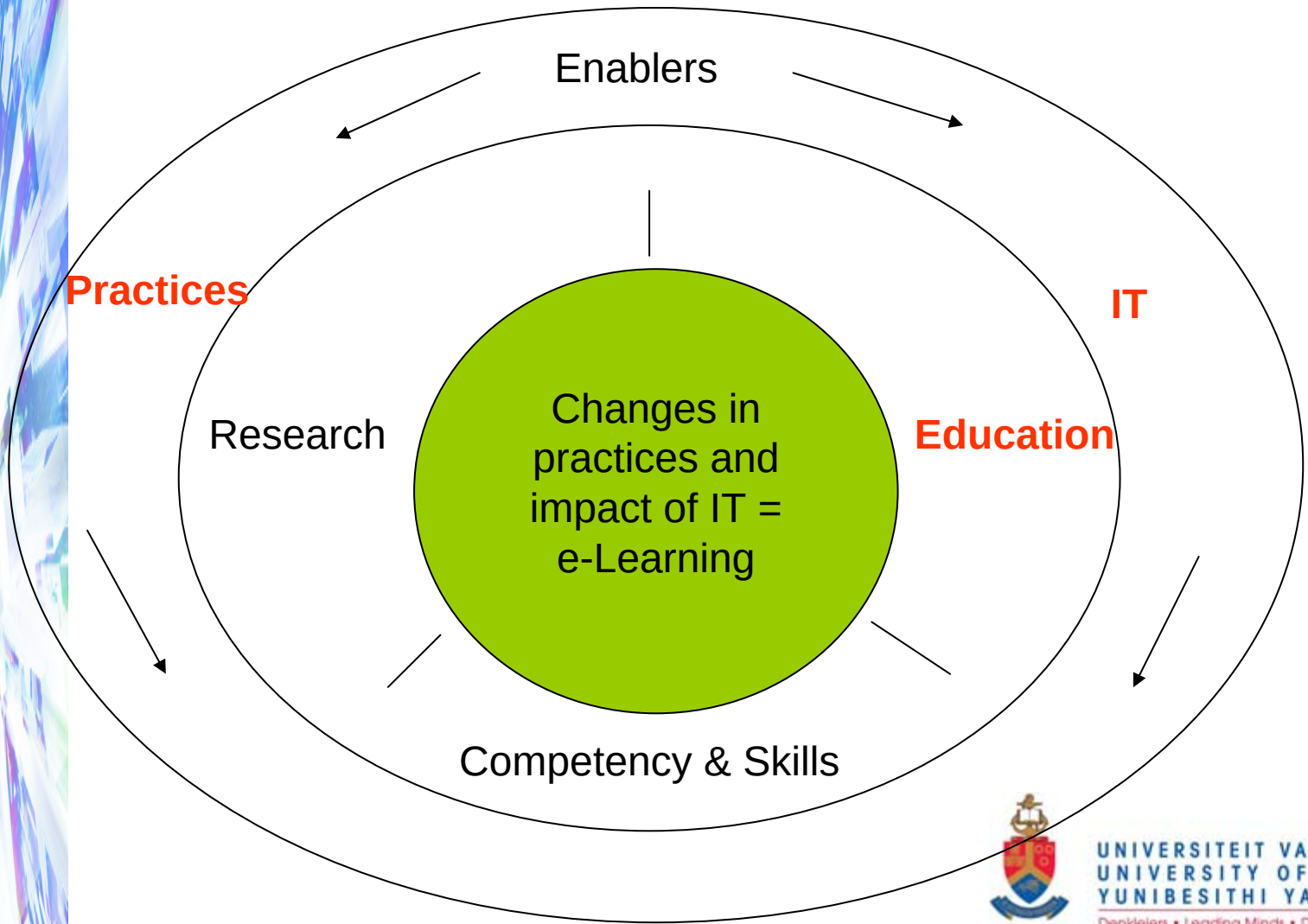
Content

- Changes in practices and impact of IT = Digital Scholarship (DS)
  - e-Learning
  - e-Research
- How the university library can enable Digital Scholarship:
  - e-Research
  - e-Learning
  - e-Resources
  - Open Scholarship
  - Digitisation
  - Web / Library 2
  - Repositories
  - Library Web

Changes in practices and impact of IT = Digital Scholarship (DS)



Changes in practices and impact of IT = e-Learning



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Example of changes in education practices: Behaviourism & Constructivism

- **Behaviourism**:
- Operates on overt behaviour
- The goal is behavioural change, performance
- Well-defined domains
- Recipients are students
- World view is objective, universal reality – to be imparted to learner

- **Constructivism**:
- Operates on performance of authentic tasks
- The goal is meaning interpreted from experience
- Domain: ill-defined, real-word situations
- Recipients are learners
- World view is personal, subjective interpretation of reality; social negotiation of meaning in a collaborative environment.

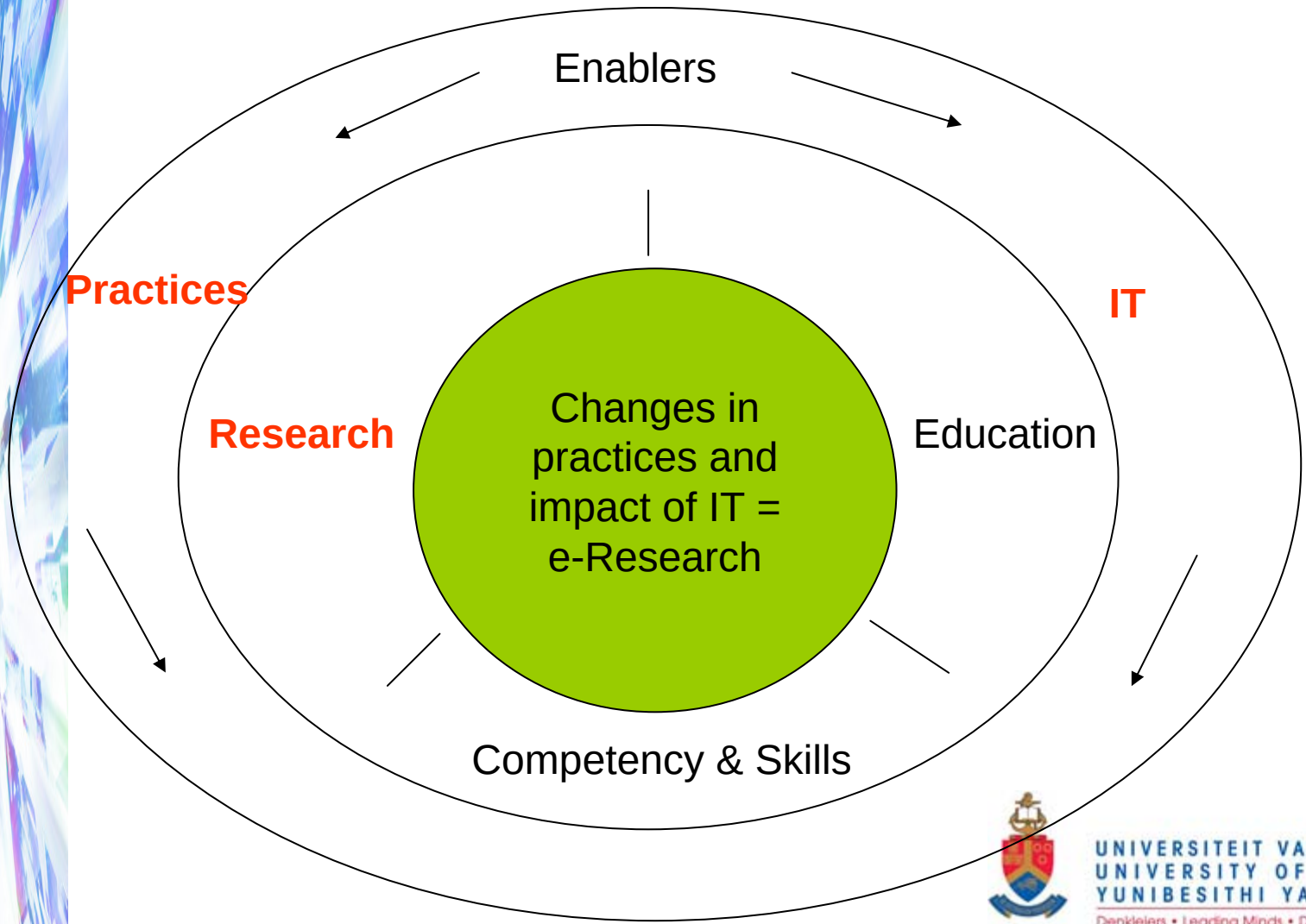
http://upetd.up.ac.za/thesis/available/etd-02212003-180121/unrestricted/04chapter4.pdf

Examples of impact of IT on education

- **Earliest applications involve the enhancement of traditional courses**
- The most dramatic impacts on university education are **yet to come** – when learning experiences are re-conceptualised to capture the power of IT:
  - Interactive, collaborative learning in a media-rich environment
  - Web communities (living-learning paradigm)
  - Consultant and coach rather than teacher – ”faculty may come to interact with undergraduates in ways that resemble how they interact with their doctoral students today”
  - Students may co-create learning environments

(http://books.nap.edu/books/030908640X/html/index.html)

Changes in practices and impact of IT = e-Research



Example of changes in research practices: Mode 1 & Mode 2 knowledge production

- **Mode 1 is**:
- Discipline based
- Carries a distinction between pure (or fundamental) and applied
- Normally produced by individuals
- Produced in universities or traditional research centres
- Subject to quality control by peer review
- Is inherently local or localised

- **Mode 2 is**:
- Trans-disciplinary
- Produced in the context of application
- Heterogeneous in terms of the skills and experience brought to it
- Produced in diverse sites
- Characterised by the production in teams
- Subject to social accountability and reflexivity
- Subject to the quality control of market acceptability as well as peer review
- Global or non-localised.

http://www.aare.edu.au/01pap/hea01582.htm

Examples of impact of IT on research

- IT is changing the nature of research
- Previously unsolvable problems can be tackled: custom-designing new organic modules; analyzing the complex dynamics of the global climate etc
- A fourth modality of research has been created: simulation of natural phenomena (in silico research)
- New types of research organizations, such as "collaboratories" (far-flung networks of researchers and laboratories)
- Humanities, social sciences and the arts: some of the most powerful IT applications
  - Virtual reality simulations of remote sites are developed by archeologists
  - Analyzing of massive data sets (social scientists)
  - Multi-media: creation of new art forms

Case study: Integrative Biology (in silico cancer & heart research) - Virtual Research Environment (IB VRE)

- The IB research consortium is a globally-distributed, inter-disciplinary team engaged in constructing computer models in order to further understand heart disease & cancer
- VRE project aims to provide a single, integrated environment supporting the entire research **process** from experimental and simulated data generation, acquisition, analysis and curation, through access to experimental resources, to project management, administration, and learning and teaching support tools (http://www.jisc.ac.uk/index.cfm?name=ibvre&src=alpha)

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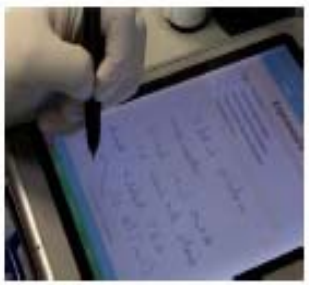
Matchmaking

Collaborative/communication

Event Management

Resource discovery

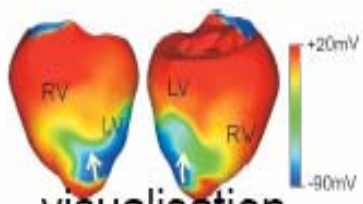
Lab book



Dissemination

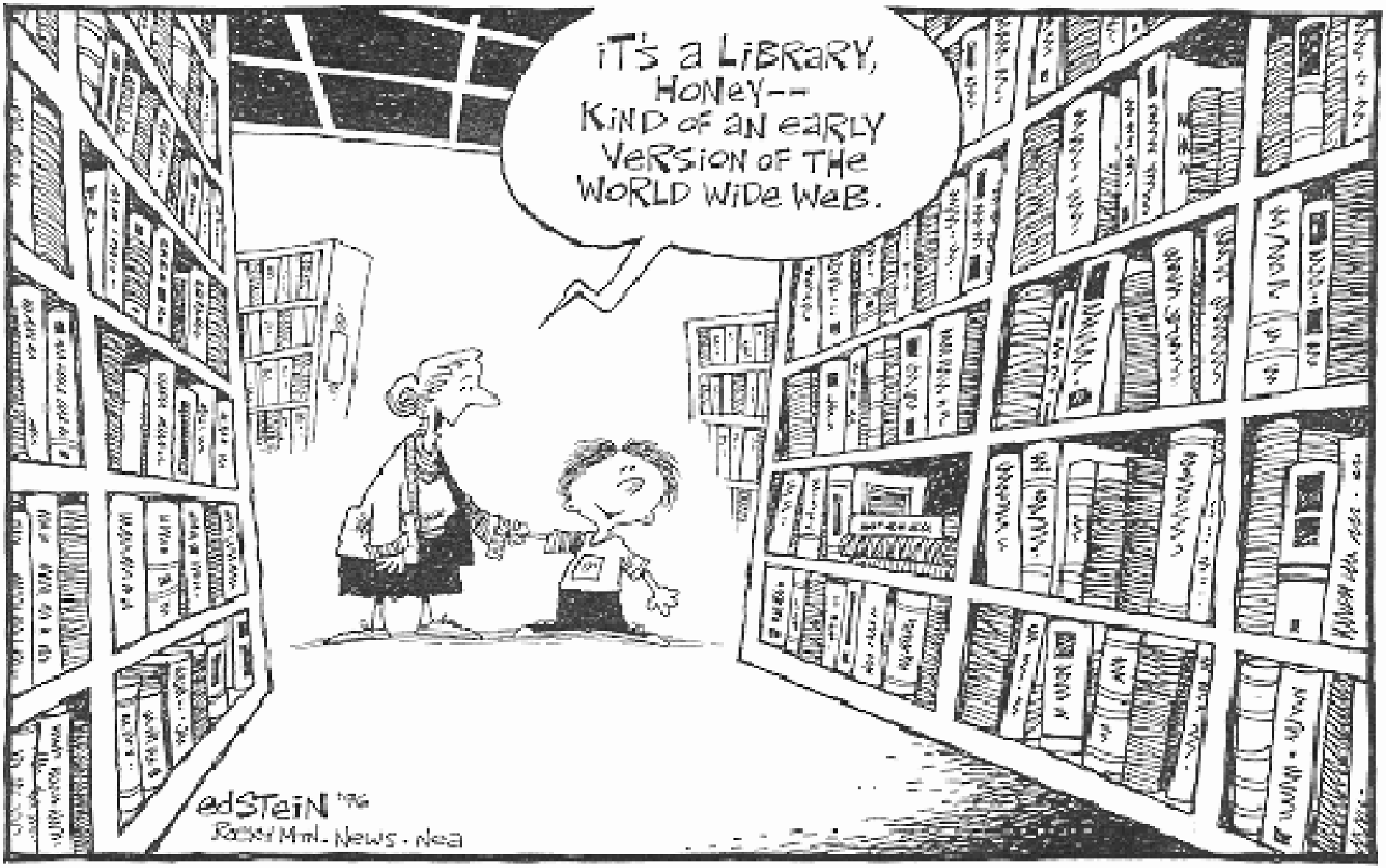
Getting Funding

In-silico experiments



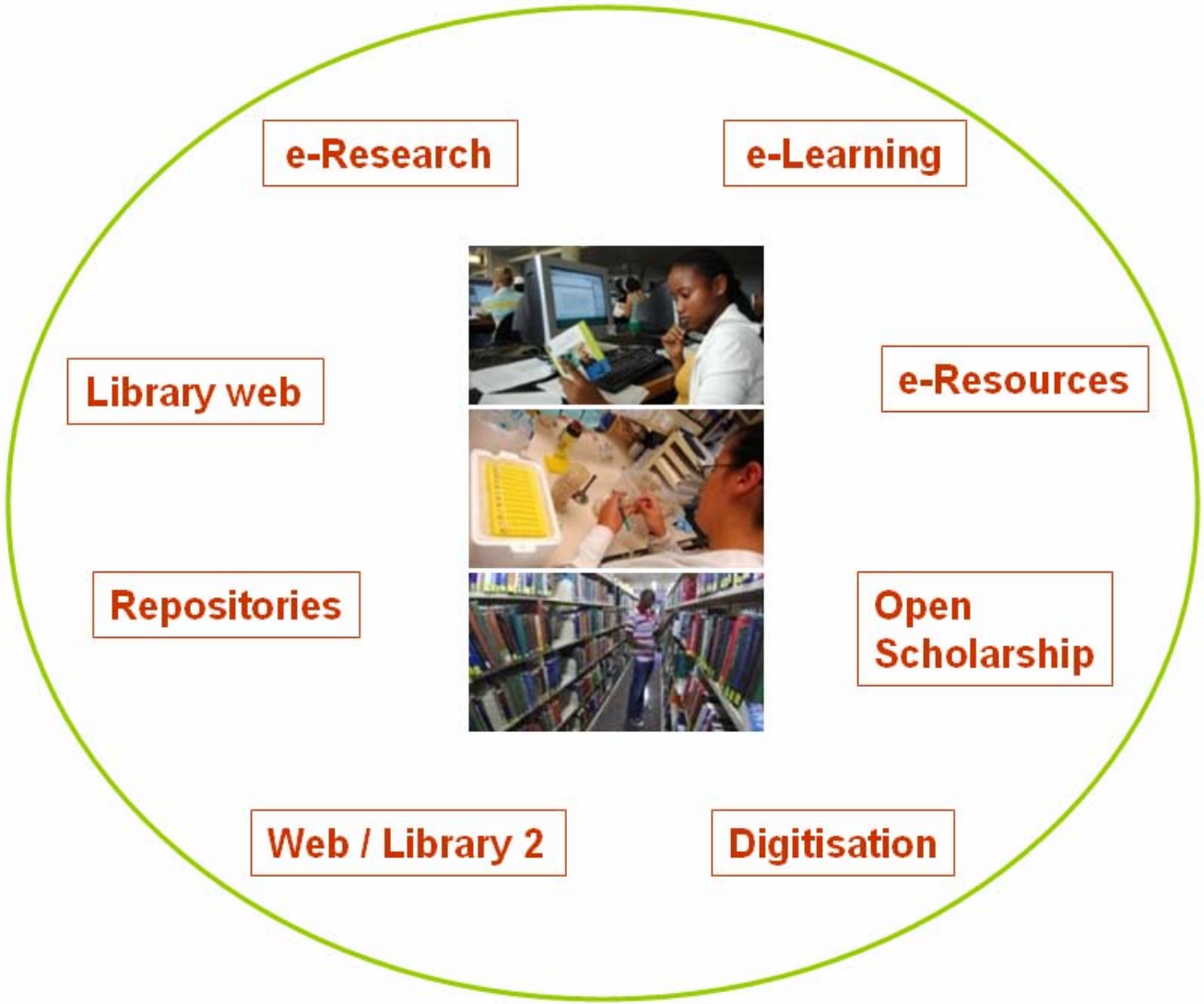
visualisation

How the university library can enable Digital Scholarship



University of Pretoria Library's e-Information Strategy

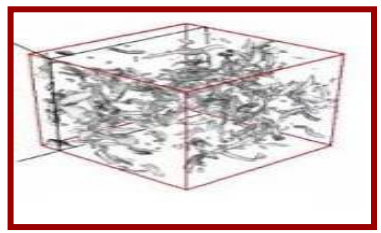
e-Environment for Scholarship

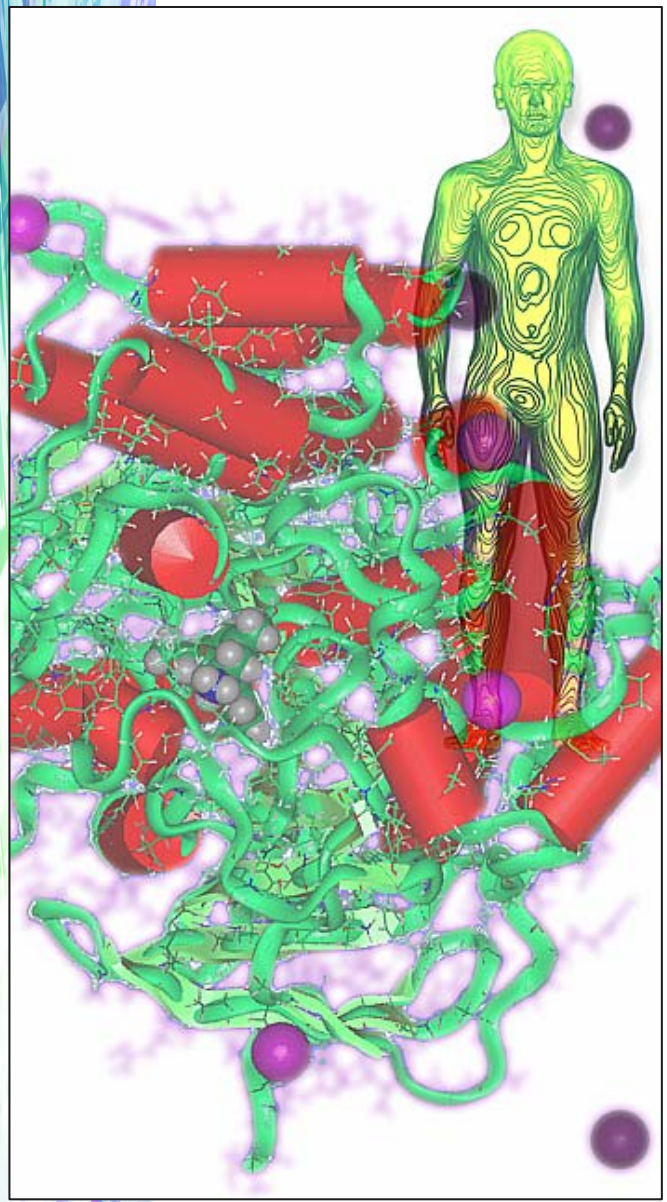


e-Research

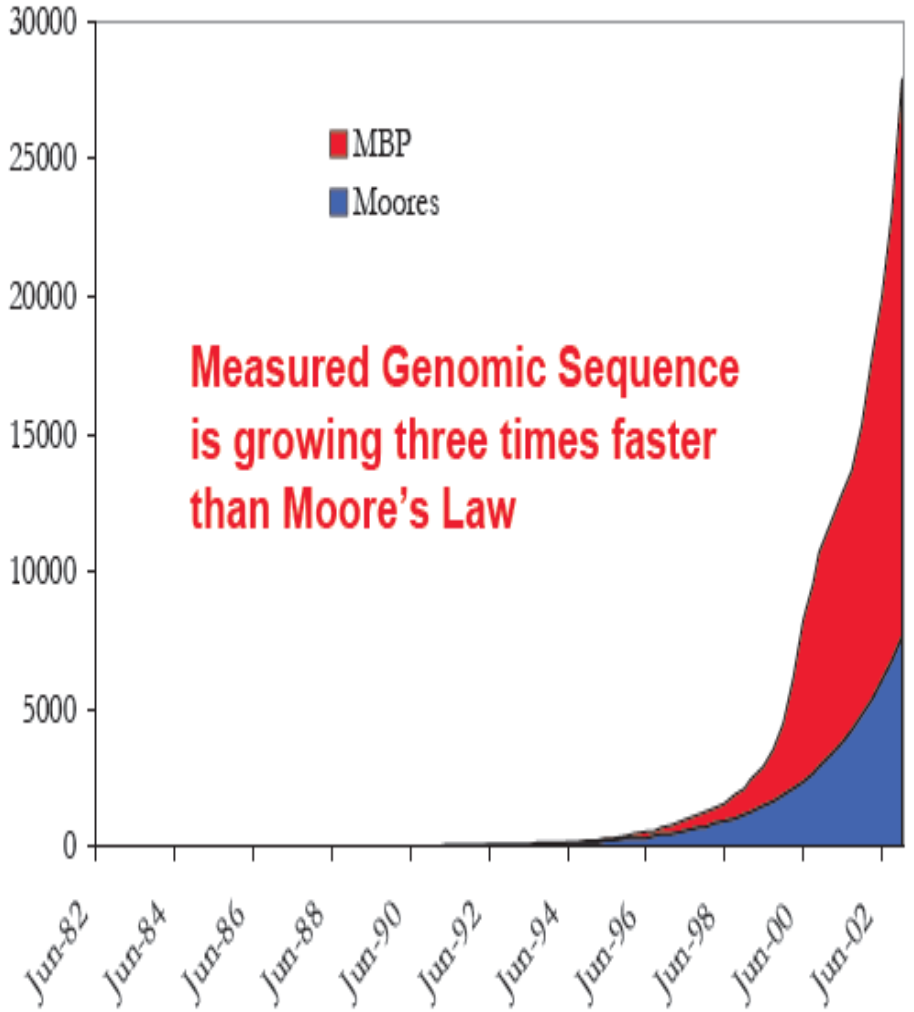
- **Thousand years ago**:
  Experimental Science
  - description of natural phenomena
- **Last few hundred years**:
  Theoretical Science
  - Newton's Laws, Maxwell's Equations …
- **Last few decades:**
  Computational Science
  - simulation of complex phenomena
- **Today**:
  e-Science or Data-centric 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

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





The Genomic Data Explosion



Courtesy:
Graham Cameron

Data curation

http://stardata.nrf.ac.za/nadicc/

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 …

The Distributed Data Curation Center

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. *more. . .*

D2C2
Distributed Data Curation Center

Funding Opportunites (NSF)

Protein Data Bank Management
(NSF 08-507) November 7, 2007

The goal of this solicitation is to ensure the continuing, highest possible quality of management for the central, U.S. component of the Protein Data Bank …

Current Projects

Ingest, Preservation and Access for Water Quality Datasets in an Institutional Repository
Center for the Environment @ Discovery Park-Purdue
Marianne Bracke(Sen. Pers.); Michael Witt(PI); Sylvie Brouder (co-PI)

Investigating Data Curation Profiles Across Multiple Research Disciplines
Institute of Museum and Library Services
Scott Brandt(PI); Michael Witt(co-PI); Jake Carlson(co-PI)

Metasearch Technologies for the NSDL Distributed Community
National Science Foundation
Paul Bracke(PI)

Development of an OAI-PMH Interface for nanoHUB.org
Network for Computational Nanotechnology
Michael Witt(PI)

Sun STK 5800 Storage System
Sun Microsystems
Michael Witt(PI)

Recent Proposals

Enabling end-to-end geospatial data modeling workflows via INPort: The Isotope Networks Portal
National Science Foundation
Christopher Miller(co-PI); Tonglin Zhang(co-PI);

Virtual Research Environment (VRE) for Malaria research in SA

The purpose of a VRE is to help researchers in **all disciplines** **manage the increasingly complex range of tasks** involved in carrying out research. A VRE will provide a **framework of resources** to support the underlying processes of research on both small and large scales.

http://www.jisc.ac.uk/whatwedo/programmes/programme_vre.aspx#VRE

Malaria VRE Initiative

- The Malaria VRE initiative is a combined **UP / CSIR** project
- During 2007 several **interviews** were held with malaria researchers from UP, CSIR, UCT, US and MRC.
- The interviews focussed on "**a day in the life**" of a malaria researcher and also established if researchers are aware of **future technology needs that will improve their efficiency & creativity**.
- The project leaders, dr Heila Pienaar (UP Library) and dr Martie van Deventer (CSIR Library) created a **conceptual model** of the systems, tools, processes, workflows, etc that need to be integrated to improve efficiency & creativity in malaria research.
- These findings were validated by buidling a **demonstrator** of the proposed Malaria VRE.
- The next step will be to develop a **VRE system** for use by die SA Malaria Initiative (SAMI), an initiative of the African Centre for Gene Technology (ACGT) and a quotation for this development has already been received.

Malaria VRE components

Red: none
Orange: some
Yellow: all

Repositories: research results; experiments; literature & documents

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

Document management system

Skype, smart board, video conferences

Real time communication

Proposal writing

Training / mentoring etc

Identification of funding sources

Generic software e.g. MS / Open Office

E-learning system for researchers

Scientific workflow

Project management

(Collaborative) Electronic Lab book

Servers with data files

Sophisticated instruments that generate digital information and data

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

Project management system

Integrated data management system

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

(Free) Data analysis software

SAMI VRE - Just Use it! - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Fav

Malaria VRE Demonstrator

Address http://www.bi.up.ac.za/vre/index.php Go Links

XOOPS JUST USE IT!

SAMI South African Malaria Initiative

User Menu

- View Account
- Edit Account
- Notifications
- Inbox
- Logout

Search

Search

Advanced Search

New Members

heila1	2007/7/10
kate	2007/7/4
eskosana	2007/7/4
mmphahlele	2007/7/3
cackroyd	2007/7/3
iimenda	2007/7/3
rmaidi	2007/7/3
lkgasoane	2007/7/3
martie	2007/7/3

Blog

Linda's Lab Book and Scientific Workflow of Research

Wiki

Identification of collaborators and funding

DSpace

Dissemination and Artefacts/Literature review

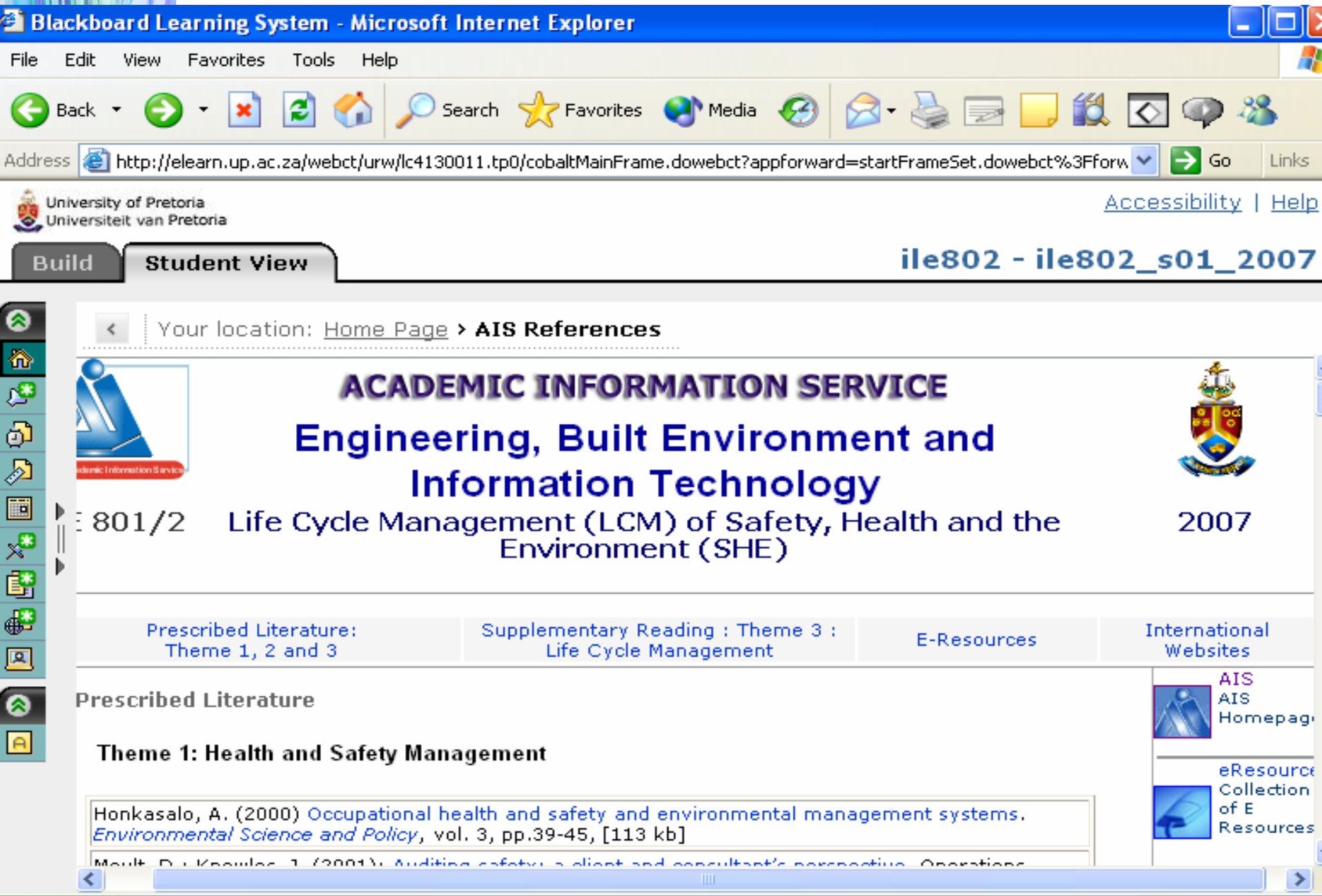
WebCollab

Project Management for the research team

Sakai

Training and mentoring fot the researchers

e-Learning


Blackboard Learning System - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://elearn.up.ac.za/webct/urw/lc4130011.tp0/cobaltMainFrame.dowebct?appforward=startFrameSet.dowebct%3Fforw
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Universiteit van Pretoria
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ACADEMIC INFORMATION SERVICE
Engineering, Built Environment and Information Technology
801/2
Life Cycle Management (LCM) of Safety, Health and the Environment (SHE)
2007
Prescribed Literature: Theme 1, 2 and 3
Supplementary Reading : Theme 3 : Life Cycle Management
E-Resources
International Websites
Prescribed Literature
Theme 1: Health and Safety Management
Honkasalo, A. (2000) Occupational health and safety and environmental management systems. Environmental Science and Policy, vol. 3, pp.39-45, [113 kb]
AIS
AIS Homepag
eResource
Collection of E Resources

e-Resources

Web 2 content

Open catalogues

Impact of open access movement

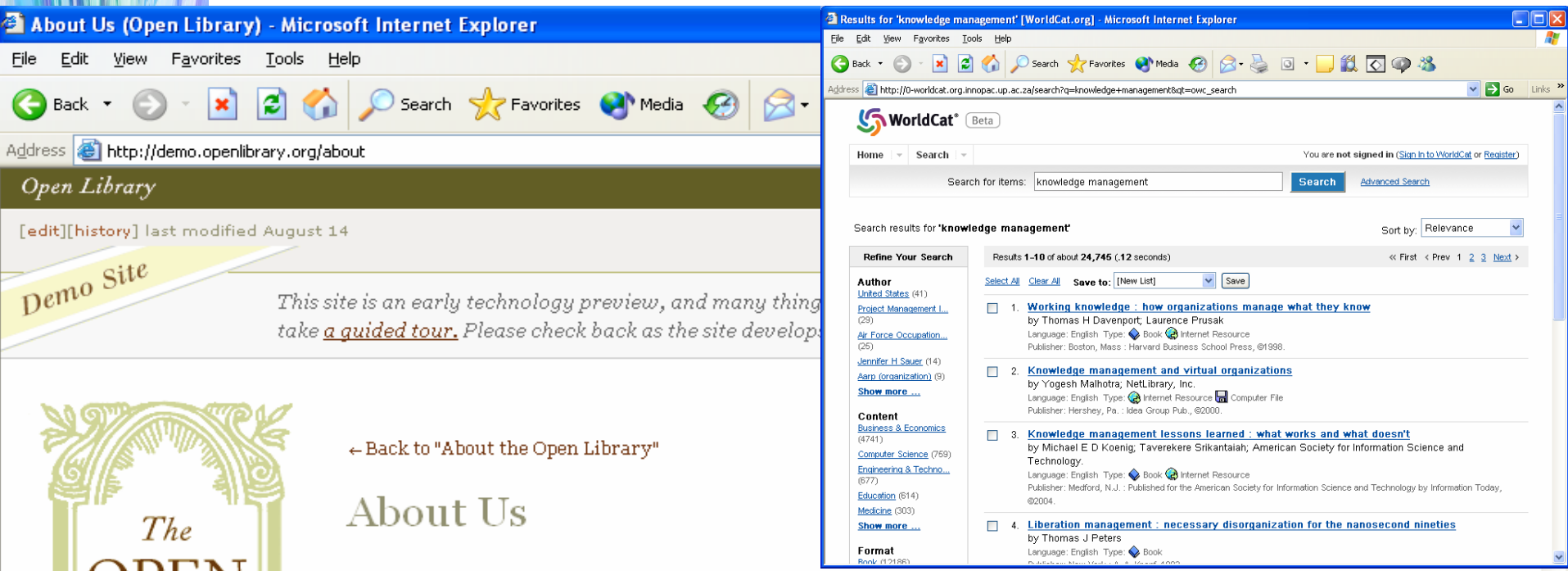
Interactive journals

Digitisation

Sophisticated search engines

Data curation and manipulation

Open catalogues

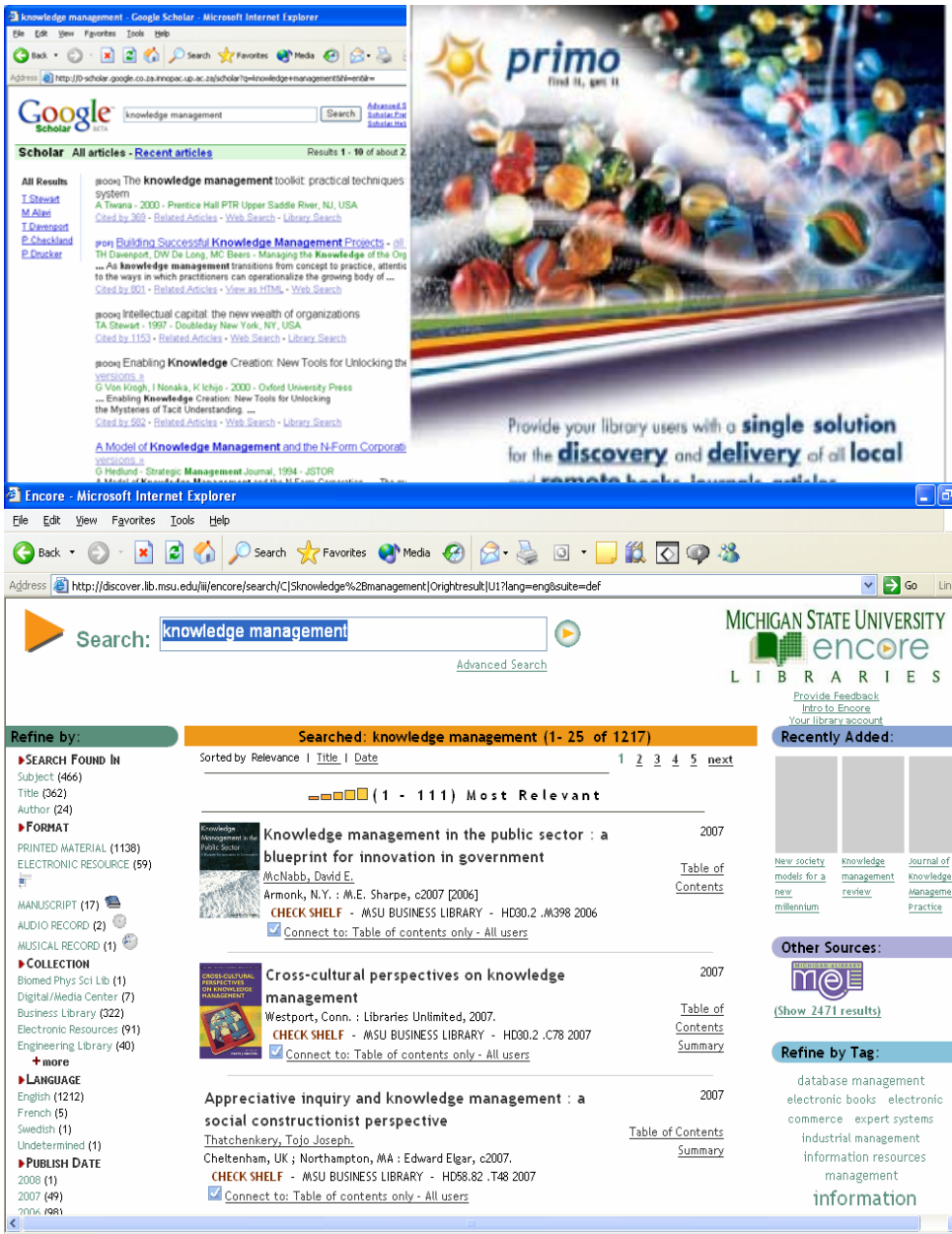


…a product of the people: letting them create and curate its catalog, contribute to its content, participate in its governance, and have full, free access to its data. In an era where library data and Internet databases are being run by money-seeking companies behind closed doors, it's more important than ever to be open

Sophisticated search engines

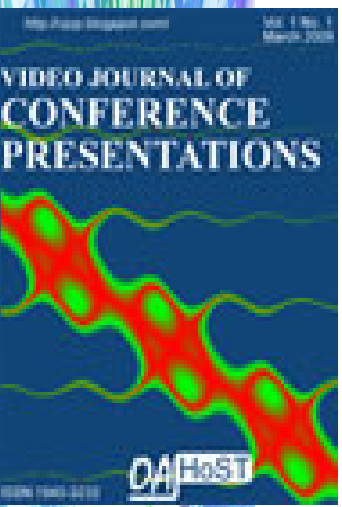
Proponents of AI techniques say that one day people will be able to search for the plot of a novel, or list all the politicians who said something negative about the environment in the last five years, or find out where to buy an umbrella just spotted on the street. Techniques in AI such as **natural language**, **object recognition** and **statistical machine** learning will begin to stoke the imagination of Web searchers once again.

http://www.news.com/Spying-an-intelligent-search-engine/2100-1032_3-6107048.html



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



http://vjcp.blogspot.com/2007/10/blog-post.html

"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."

http://upetd.up.ac.za/thesis/available/etd-11212003-110815/

https://www.up.ac.za/dspace/handle/2263/3956

Open Access & Libraries
http://www.escholarlypub.com/cwb/OALibraries2.pdf

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Digitisation

Global digitisation projects

benefit	years to mainstream adoption			
	less than 2 years	2 to 5 years	5 to 10 years	more than 10 years
transformational	Internet2/Next Generation Internet Personally Owned Devices With Campus Network Access	IP Video for E-Learning	E-Learning Repositories	Global Library Digitalization Projects
high	802.11x on Campus Course Management Systems Higher Education Enterprise Portals Web Services for Administrative Applications	CRM for Enrollment Management ID and Access Management Learning Content Management Next-Generation Library Management Systems Open-Source E-Learning Applications		
		Content RFID Library Materials Management		

With everything on the Net – what is left for academic libraries?

Gartner

Web 2.0


BASECAMP
BACKPACK
CHALK.IT
REMEMBERTHEMILK
WRITEBOARD
TADALIST
GOOGLE MAPS
KIKO
WRITELEY
GTD
GMAIL
GOOGLE RSSREADER
GOOGLE IG
UNWIELDY
TAGTAGGER
WIKIPEDIA
ZIMBRA
MEEBO
TAGGLING
CLOUDALICIOUS
Focus on Simplicity
PROTOPAGE
TAGCLOUD
Wikis
ZOOZIO
FLOCK
DELICIOUS
WIDGETS
Joy of Use
NETVIBES
COLLABORATION
STUMBLEUPON
FLICKR
Folksonomy
SHARING
LIVE.COM
AJAX
43THINGS
DIGG
SQUIDOO
PAGERANK
Usability
FLICKR
NING
EBAY
Recommendation
USER CENTERED
BLINKSALE
FOTOLIA
SOFLOW
LINKEDIN
FOAF
PERPETUAL BETA
ETSY
OPENBC
ORKUT
SIXDEGREES
The Long Tail
Social Software
UPCOMING
FRIENDSTER
XFN
Participation
TRUST
PAYPAL
Economy
EBAY
PLAN2O
BLOGGER
Blogs
AMAZON
MTURK
AGGREGATION
VC
ITUNES
TYPEPAD
TECHNORATI
Affiliation
WORDPRESS
MINT
Web2.0 beta
LASTFM
READ.IO
MEASUREMAP
COSTPERCLICK
ADSENSE
IPODDER
PODCASTING
IM
PANDORA
Audio
ODEO
SKYPE GTALK JABBER
Convergence
LIVELINESS
SIMPLEBITS
ITUNES
DATA INSIDE
SEO
Design
STYLEGALA
VIMEO
Video
VIDEOCASTING
BIT TORRENT
GRANULARITY
MODULARITY
YOUTUBE
SIMPLICITY
9RULES
CASTPOST
WIFI
SYNDICATION
Mobility
UMTS
Remixability
CSSBEAUTY
SOAP
REST
RUBYONRAILS
GOOGLE MAPS
XML
CREATIVECOMMONS
A9
PLAZES
RSS
Standardization
ZENGARDEN
YAHOO MAPS
OpenAPIs
TAGCLOUD
SEMANTIC
CSS Design
NEWSGATOR
BLOGLINES
AMAZON
DataDriven
XHTML
ACCESSIBILITY
WASP
FEEDSTER
ROJO
GOOGLE MAPS
Web Standards
ALISTAPART
FEEDBURNER
GMAPS MASHUPS
TECHNORATI
MYYAHOO
GOOGLE NEWS
FIREFOX
GOOGLE
A9
Microformats
BUZZTRACKER
ICEROCKET
INORDER
WINK
ALEXA
MICROFORMATS.ORG
ROLLYO
TRENDMAPPER
PUBSUB
RELEASED UNDER CC 2.0 DE ATTRIBUTION SHARE ALIKE 11.11.05
MARKUS.ANGERMEIER @ APERTO.DE

Web 2 examples

- **Web 2.0**
  - Users build networks (professional, recreational etc.)
  - People are the content of sites (O'Reilly)
  - Emphasize online sharing and collaboration

- **2.0-style Service Examples**
  - Google Scholar & Scholar SFX
  - User tagging, ratings & comments
  - Mashups, Wikis, Blogs, RSS-feeds
  - Community citation (CiteULike), photo and book services
  - Websites with 2.0 characteristics: Flickr, eBay, De.licio.us (social bookmarking), MySpace, MyTube, LibraryThing

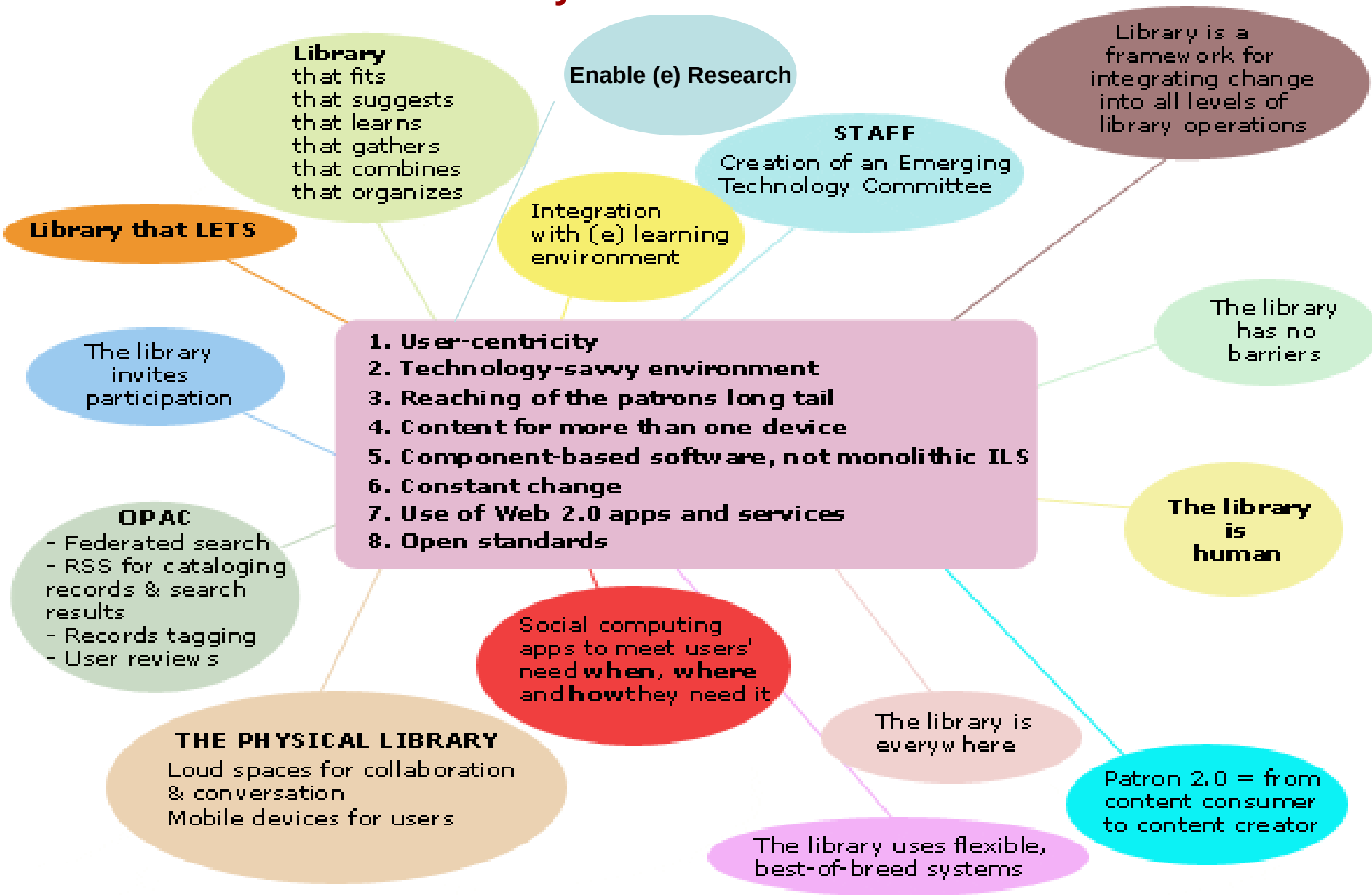
Library 1.0 vs Library 2.0

- Closed collections
- Collection development
- Pre-organized catalogue
- Walk-in services
- “Read-only” catalogue
- Print newsletter mailed
- Easy = Dumb users
- Limited service options
- Focus on bringing them in
- Catalogue is core operation

(Schneider 2007)

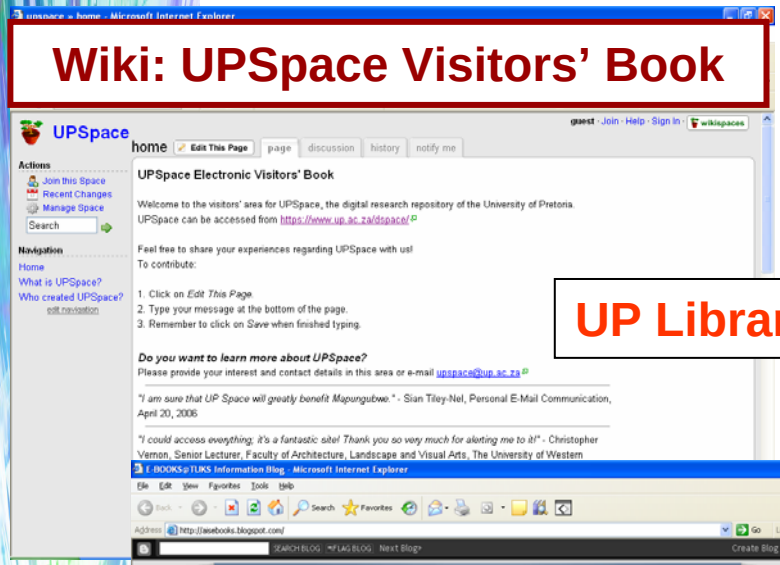
- Open collections
- Library suggestion box
- User tagging
- Globally available services
- Amazon-style comments
- Team-built blog
- Easy = Smart systems
- Broad range of options
- Focus on finding the user
- User services are core

Library 2.0 Service Model



http://en.wikipedia.org/wiki/Image:L2-meme2.gif#file

Wiki: UPSpace Visitors' Book

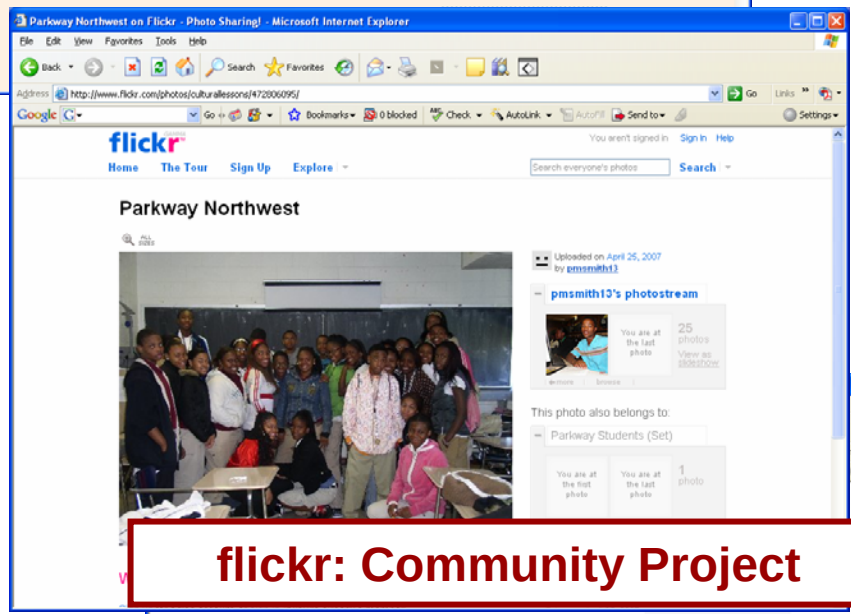


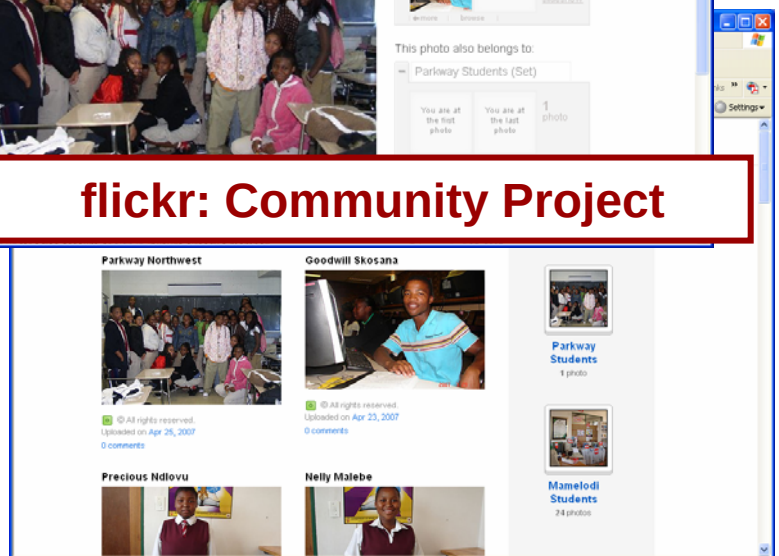
Blog: Community Project

UP Library examples

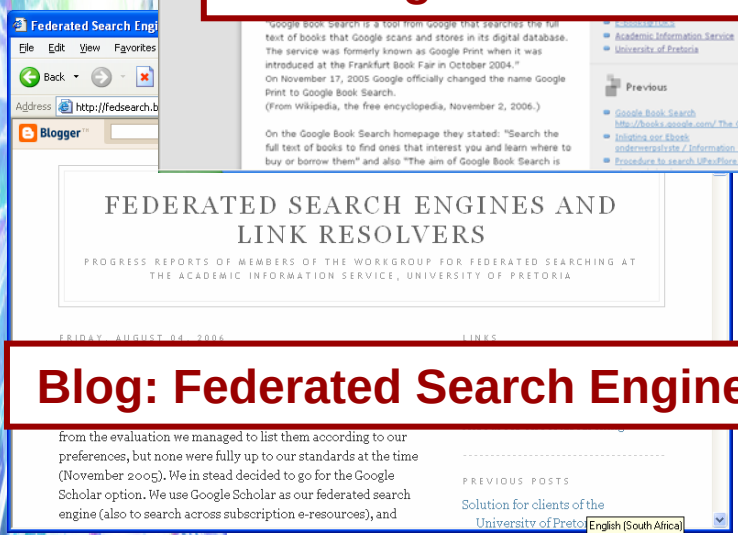
Blog: E-Books

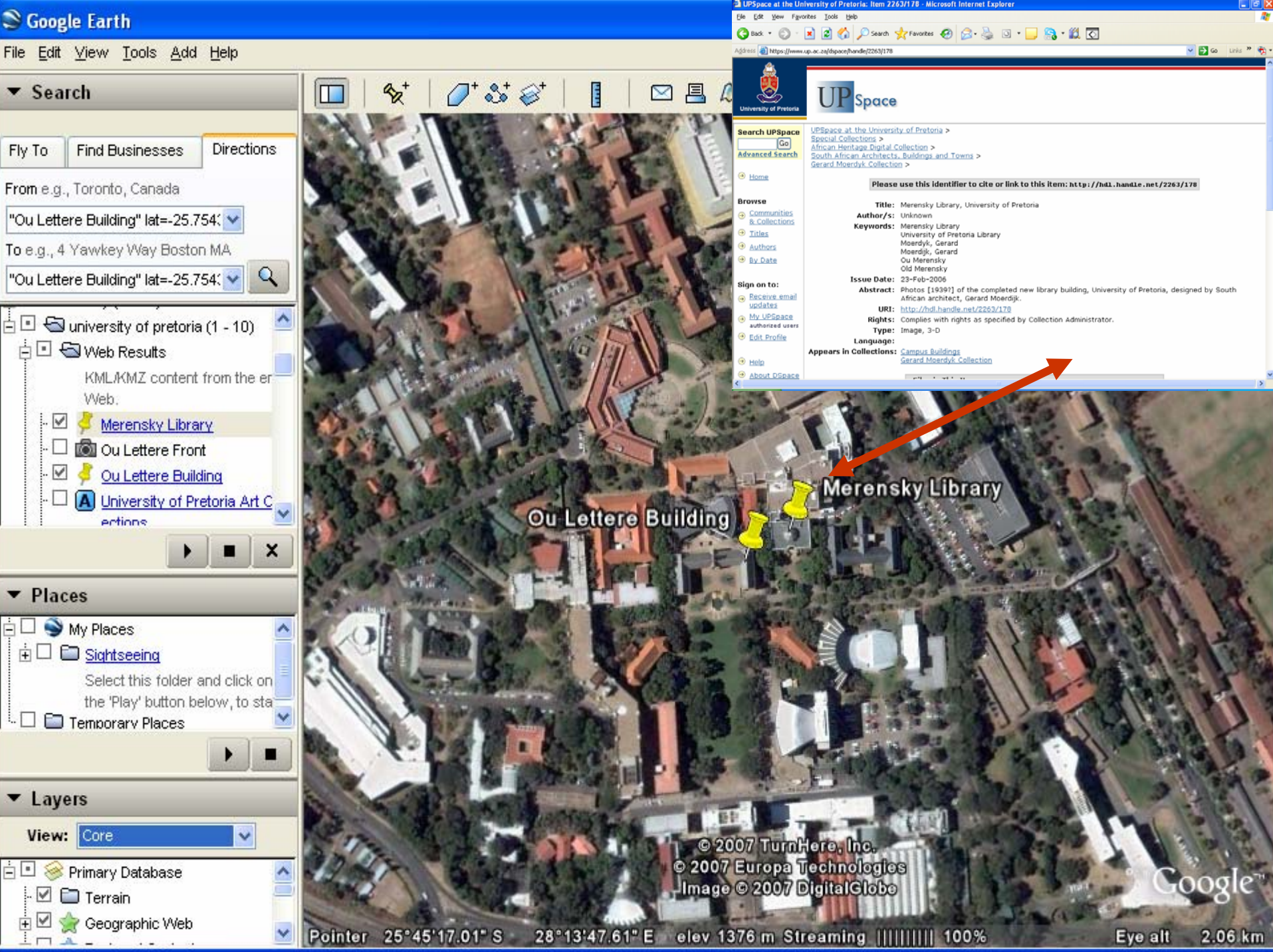
flickr: Community Project





Blog: Federated Search Engine

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University of Pretoria
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Advanced Search
Home
Browse
Communities & Collections
Titles
Authors
By Date
Sign on to:
Receive email updates
My UPSpace
Edit Profile
Help
About DSpace
UPSpace at the University of Pretoria >
Special Collections >
African Heritage Digital Collection >
South African Architects, Buildings and Towns >
Gerard Moerdyk Collection >
Please use this identifier to cite or link to this item: http://hdl.handle.net/2263/178
Title: Merensky Library, University of Pretoria
Author/s: Unknown
Keywords: Merensky Library
University of Pretoria Library
Moerdyk, Gerard
Moerdijk, Gerard
Ou Merensky
Old Merensky
Issue Date: 23-Feb-2006
Abstract: Photos [1939?] of the completed new library building, University of Pretoria, designed by South African architect, Gerard Moerdijk.
URI: http://hdl.handle.net/2263/178
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Type: Image, 3-D
Language:
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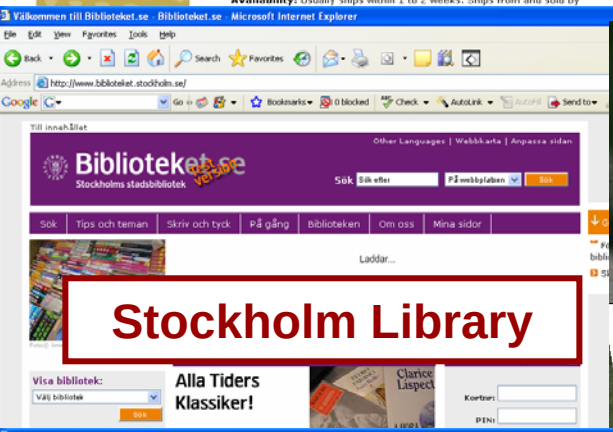
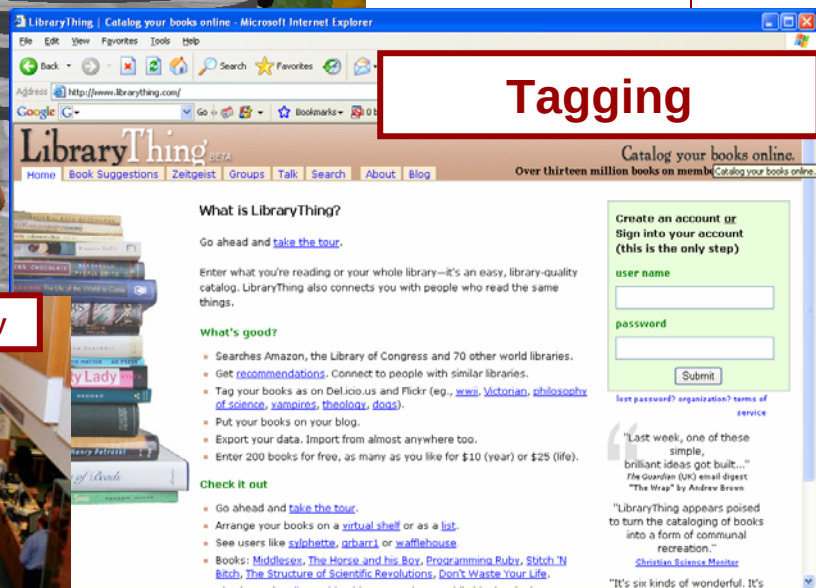
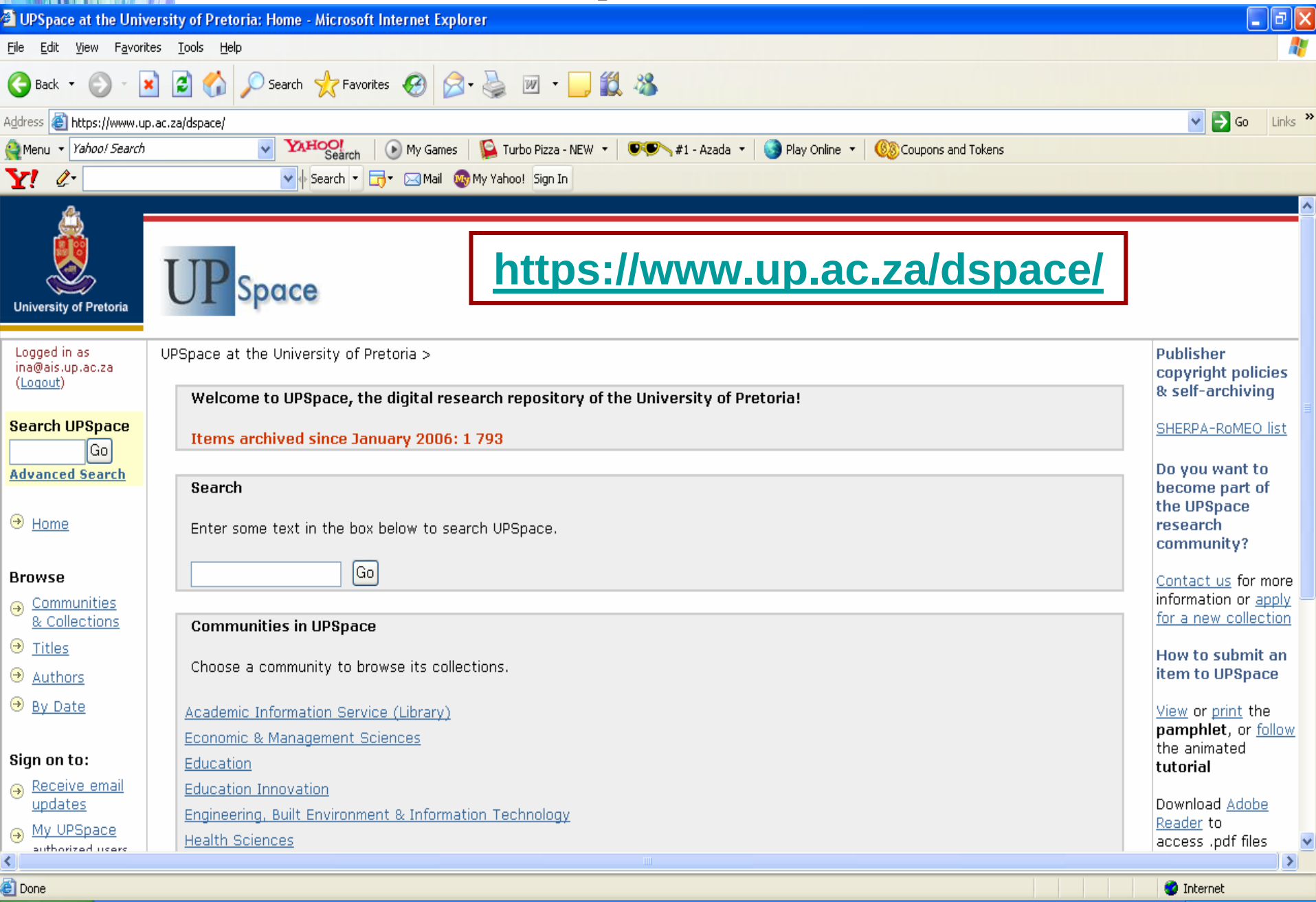
Pointer 25°45'17.01" S 28°13'47.61" E elev 1376 m Streaming 100%
Eye alt 2.06 km

Web / Library 2 international applications

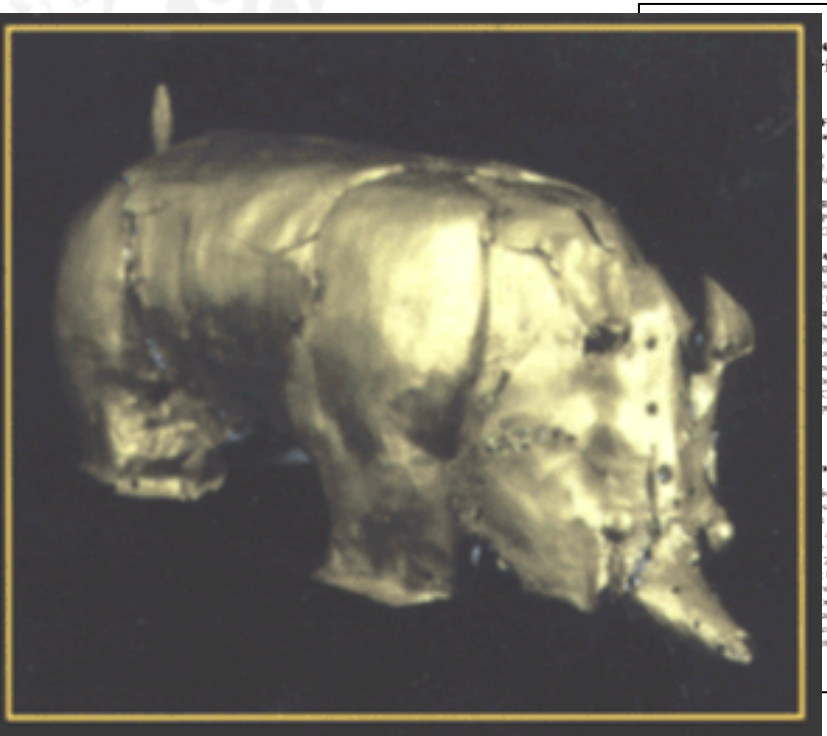




Repositories



Examples UPSpace Content



ence of high energy proton bor
ical and defect properties of si

F D Auret[1], S A Goodman[1], M Hayes[1], M J Legod
and D C Look[2]

Physics Department, University of Pretoria, Pretoria 0002, Sout
Semiconductor Research Center, Wright State University, Dayto
Materials and Manufacturing Directorate, Air Force Research Lab

Received 6 June 2001
Published 20 September 2001
Online at stacks.iop.org/JPhysCM/13/9989

Abstract

We report on the electrical and defect characterisati
formed on single-crystal ZnO, before and after irra
1.8 MeV) protons. Prior to bombardment we obse
traps (E1–E4), with energies between 0.10 and 0.57
sand, are present in the ZnO. High-energy proton
wo electron traps (Ep1 and Ep2), with extremely l
of 2.4 and 1.9 cm^{-1}, respectively. Schottky barri
everse leakage current deteriorated from I ≈ 10^{-9} A
to I ≈ 10^{-6} A after bombarding it with a dose of
Compared to GaN we found that ZnO is remarkably
roton bombardment.

semiconductor material with a high band gap, i
. It finds application in phosphors, paints, piezoelec
conducting films, the latter being important for
a recent review, where the properties of ZnO are s
used for several other, more sophisticated, electro-o
ZnO has an experimental direct band gap of 3.4 eV
blue and ultra-violet (UV) light emitting devices, as
ell as daylight-blind UV detectors, as is the case for GaN with a similar band
ve, the large band gap of ZnO renders it suitable for the fabrication of solar
nd as a substrate or buffer layer for the group III nitride based devices. For
ons, these devices often have to operate at elevated temperatures, typically
n harsh radiation conditions comprising energetic particles. Further practical

Library web

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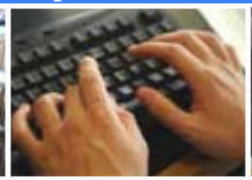


"The library is the temple of learning, and learning has liberated more people than all the wars in history."
- *Carl T. Rowan* -

- Faculty Libraries
- Special Collections
- Teaching Support
- Research Support
- Learning Support
- Copyright & Plagiarism
- Referencing Techniques

Home

News ... *Library Hours - View*

- **Library Hours from 24 November 2007:** Mon, Wed, Thu, Fri: 7:30 - 16:00; Tue: 8:30 - 16:00; Sat: 8:30 - 13:00
  23 November 2007: 7:30 - 12:00
- Access **exam papers** from previous years according to the Course Code or Department
- Veterinary Sciences Library - Celebrating 20 years in the Sir Arnold Theiler building
- **Do you have a special story to tell re your library experiences pre-1994?** Please share it with us by forwarding it to Prof Archie Dick or Tel.: 012 420 2294
- **1st African Digital Management and Curation Conference and Workshop** 12 & 13 February 2008
  Preliminary programme and more
- **Library name change** as from January 2008. Read more

Displays/ Exhibits

- Special Collections **Book of the Month for November 2007:** Fritz Eloff: 'n Man tussen die leeus ... 'n leeu tussen die manne / Jan Roderigues

Have you read this book? Please send us your comments.

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Research Title
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Home >> Research Support

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
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Teaching Support Home

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Study Collection
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Interlending

Membership
UP Library
Other Libraries

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Ordering of Material
Reservation of Material

Prescribed/recommended books
Policy and form

Home >> Teaching Support

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.

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Web/ Library 2.0 Tools

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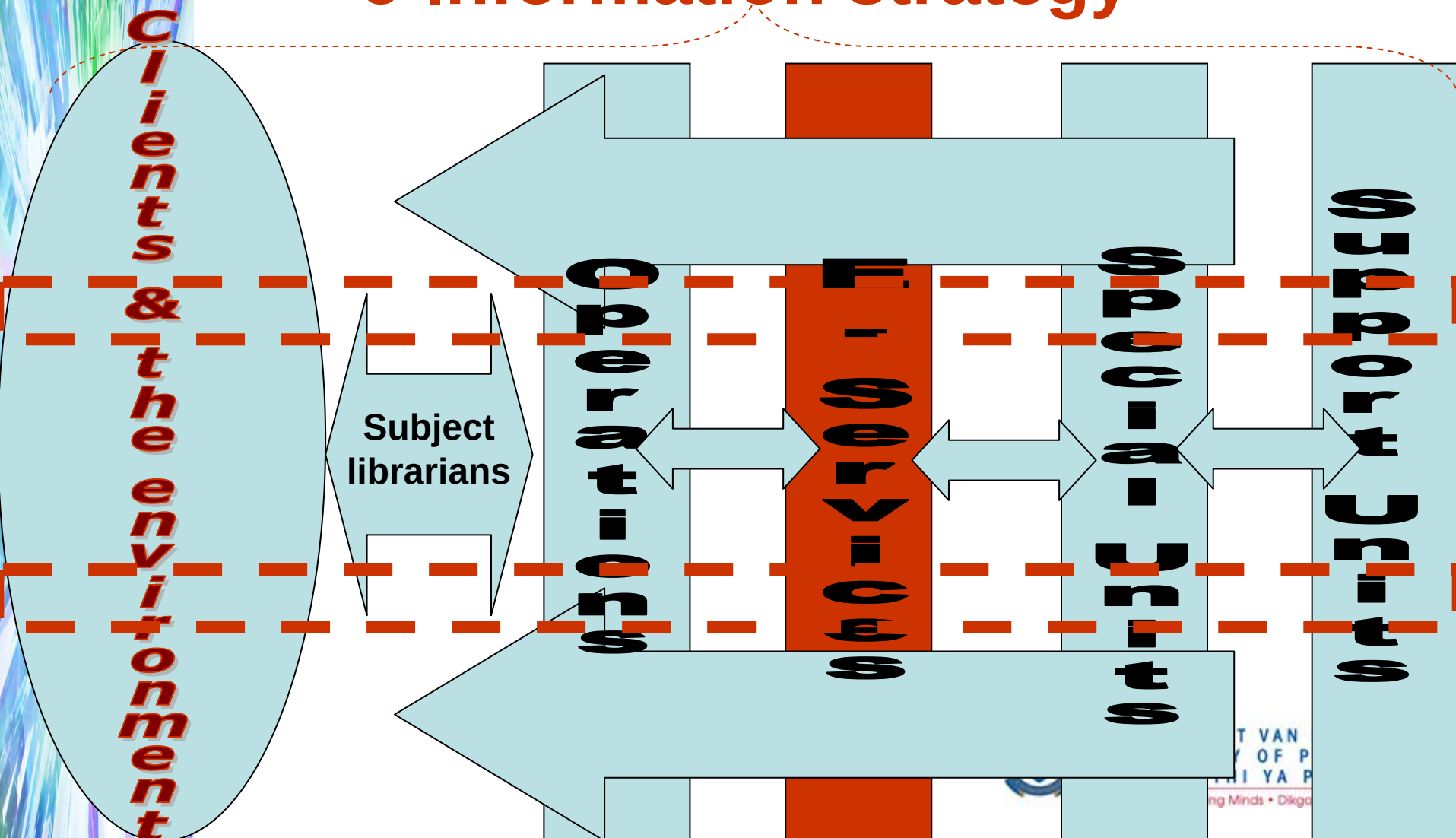
Governance

Library Structure

Matrix teams

e-Information strategy



Governance

- Deputy-director: e-Information Strategy & e-Research Enablement is responsible for 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

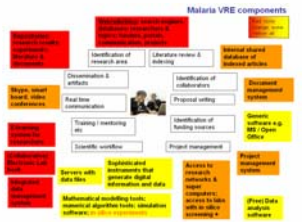
- Library e-Service steering committee: Heila Pienaar
- e-Research steering committee: Heila Pienaar
- e-Learning steering committee: Ina Smith
- Digitisation steering committee: Ria Groenewald
- Open Scholarship steering committee: Monica Hammes
- Repositories steering committee: Ina Smith
- Library 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

In conclusion: we are moving in the right direction …

e-Environment for Scholarship



e-Research

e-Learning

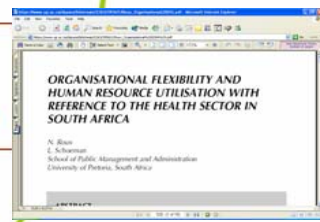
Library web

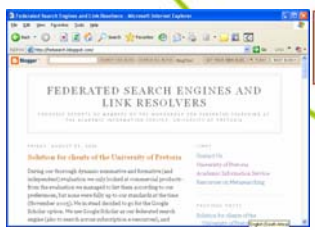
e-Resources

UP Space

Repositories

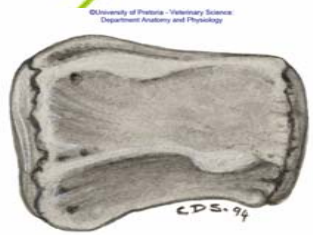
Open Scholarship





Web / Library 2

Digitisation



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