

eInformation Strategy of the Academic Information Service (AIS) (aka the library)

Presented by Heila Pienaar



University of Pretoria

Content: eInformation strategy

- Context
 - Changing role of academic libraries
 - Impact of eResearch
 - Information needs of Net Generation students
- eInformation strategy business plan
- Integration with the library's strategic plan
- Some of the processes, results and products of this strategy
- The next stage ...

Changing role of academic libraries

- 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>)

Impact of eResearch

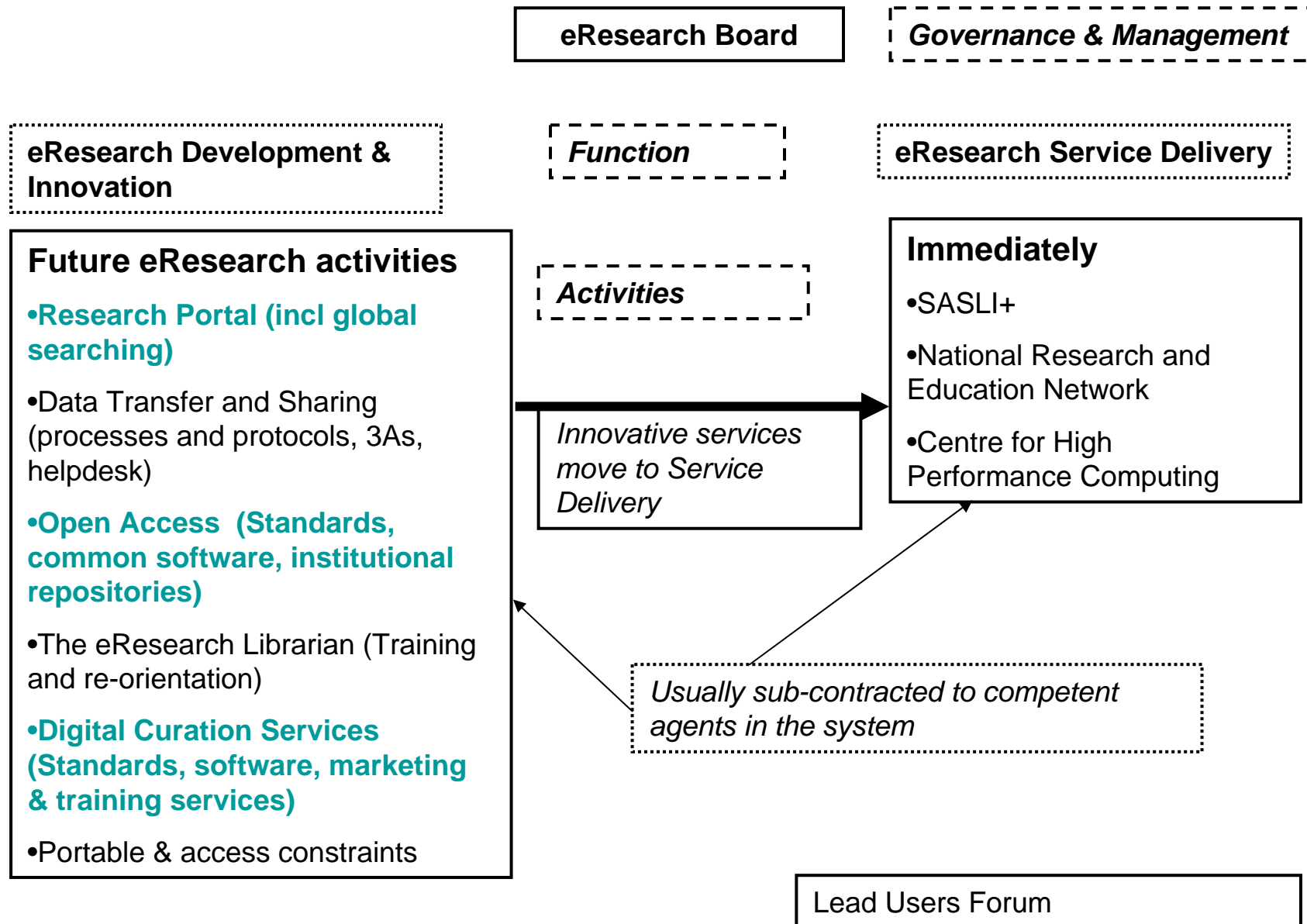
- **E-research / e-science** typically “entails harnessing the capacity of information and communication technology (ICT) systems, particularly the power of high-capacity distributed computing, and the vast distributed storage capacity fuelled by the reducing cost of memory, to study complex problems across the research landscape.”

(<http://www.educause.edu/apps/er/erm05/erm0563.asp>)

Role of university libraries in eResearch

- 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>)
- The proposed eResearch support service is important to university libraries, as they can implement many of the initiatives

eResearch Support Service for SA



Information needs of Net Gen students

- Technology has led to more modernization 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>)

eInformation strategy business plan

- A business plan for the AIS eInformation strategy was formulated for the period June 2004-December 2005
- Content:
 - Introduction
 - Strategic context
 - Vision & mission of the AIS; strategic objectives of this strategy
 - Information products & services
 - Marketing
 - Staff issues
 - Resources needed
 - Recommendations & implementation

Integration with the library's strategic plan

- The content of the business plan was integrated in the AIS strategic plan 2005-2010:

1

STRATEGIC PLAN 2005-2010



Vision, Mission, Values

Vision

We strive to be leaders in providing world-class solutions to information and knowledge challenges for achieving academic excellence.

Mission

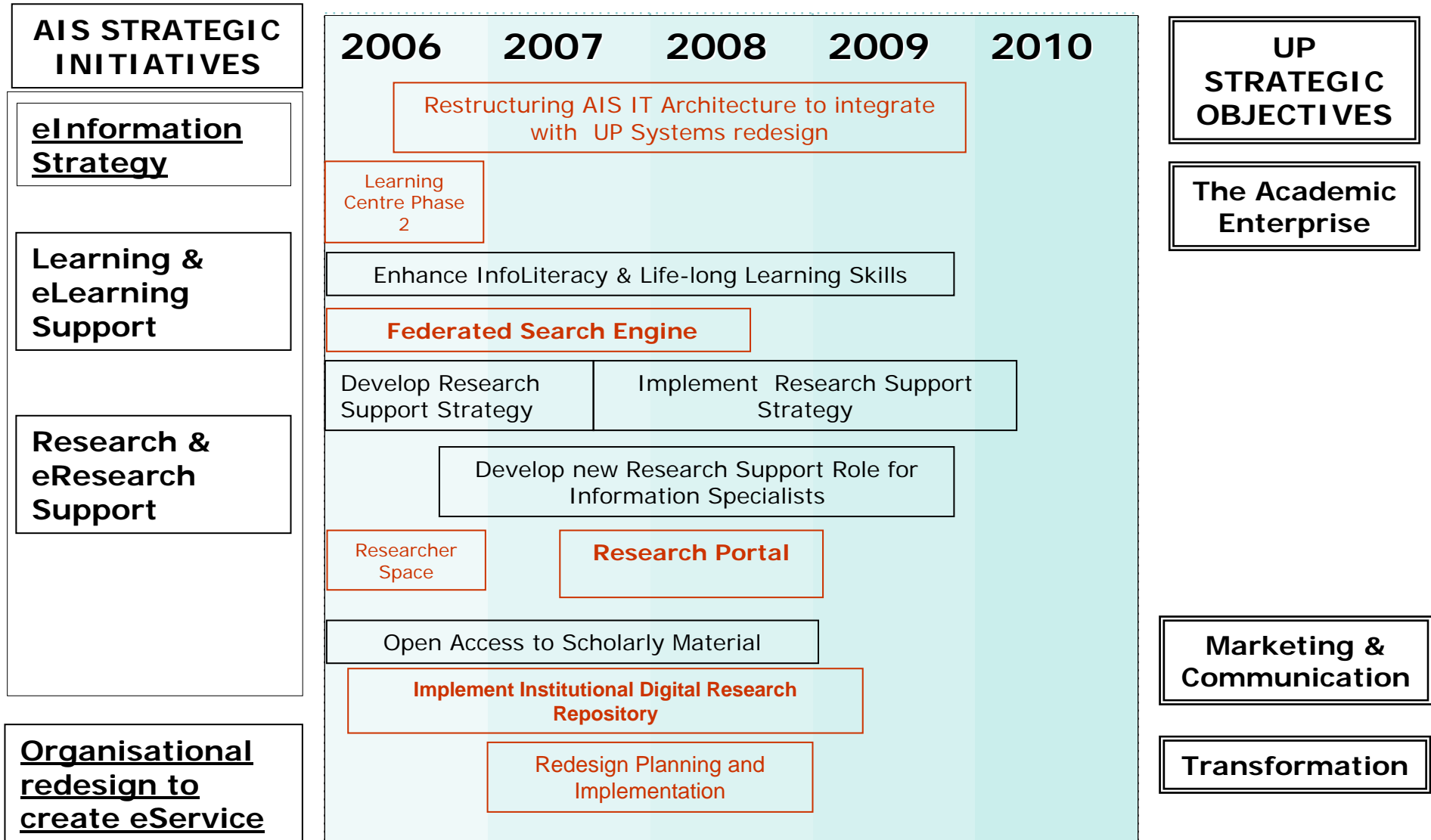
The AIS leads and facilitates

- Information and knowledge management
- Information literacy
- Designing and establishment of e-information services
- Establishment of a gateway to global information
- Effective scholarly communication

Values

- We generate positive energy for academic business success
- Professional behaviour, ethics and values are our hallmark

AIS strategic plan: 2006-2010 (extra funding)



The AIS e-information strategy

The aim of this strategy is the creation of an integrated seamless eService 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 AI's structure, business processes, skills and facilities to support the e-information strategy.

The e-information environment sub-strategy consists of the following projects: integrated systems, integrated interface, academic tools, digital reference, ICT infrastructure, e-sources, e-dissertations, academic digital repositories, e-publication and digital preservation.

Organisational Redesign to create an eService

Characteristics of eService

- Client:
 - Single sign-on, single authentication, single interface
 - Self-help & self-training
 - Customized services, products & tools eg collaborative learning & research and knowledge acquisition & creation
 - Information control & manipulation
 - Federated search for academic material
 - Online help
 - Sharing & archiving research results; improving permanence of outputs

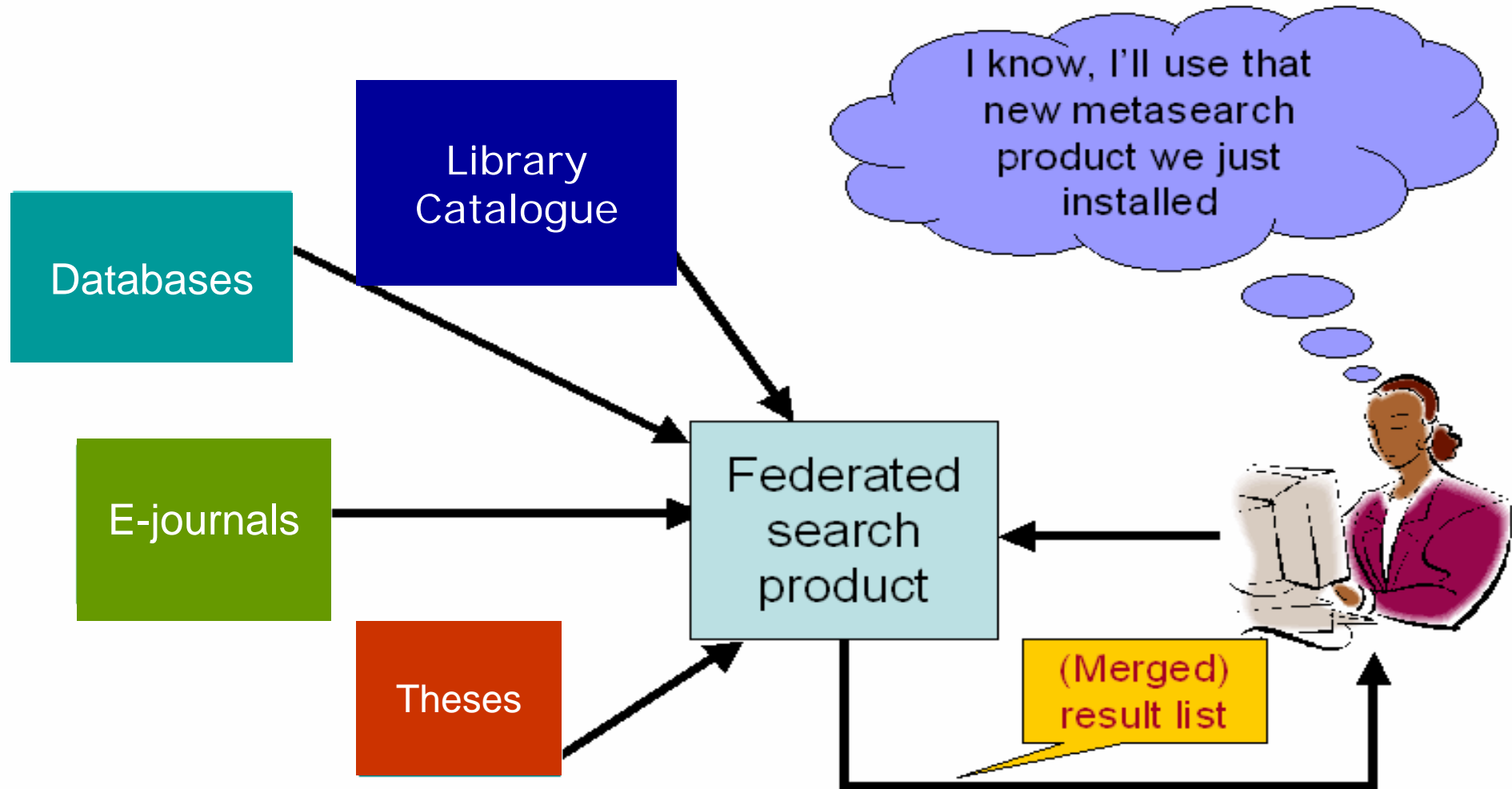
- System:
 - Streamlined & enhanced AIS architecture (software & hardware)
 - Aligned with UP IT policy & architecture

Implications

- Re-allocation and re-deployment of resources, particularly HR
- Skills training
- Dedicated e-Unit for product and service development & delivery
- Extensive process re-engineering

Federated search engine

What is federated searching?



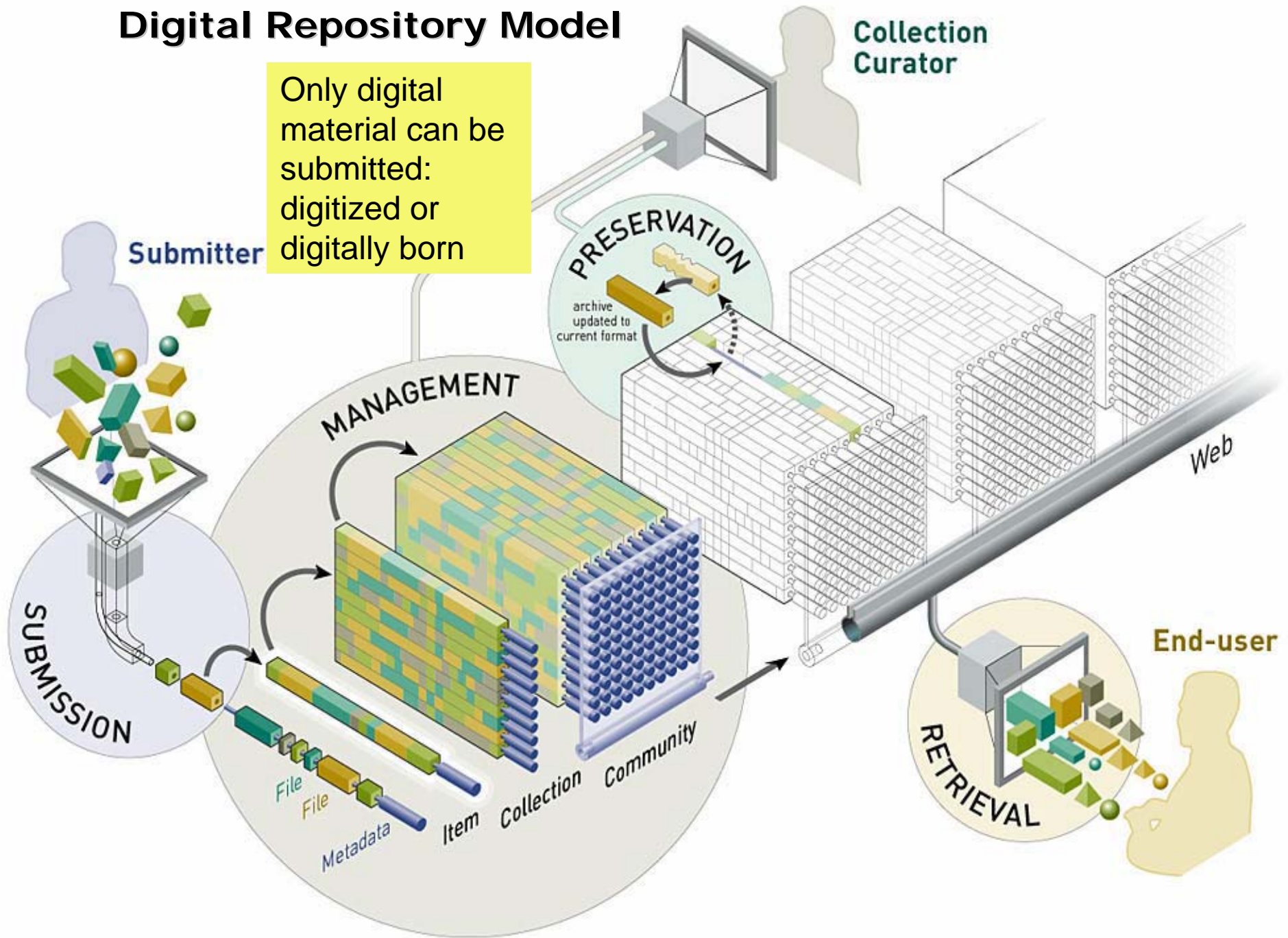
Institutional Digital Repository

"...a university-based institutional repository is a set of services that a university offers to the members of its community for **the management and dissemination of digital materials created by the institution and its community members**. It is most essentially an organizational commitment to the stewardship of these digital materials, including long-term preservation where appropriate, as well as organization and access or distribution."

(<http://www.dpconline.org/docs/DPCTWf4word.pdf>)

Digital Repository Model

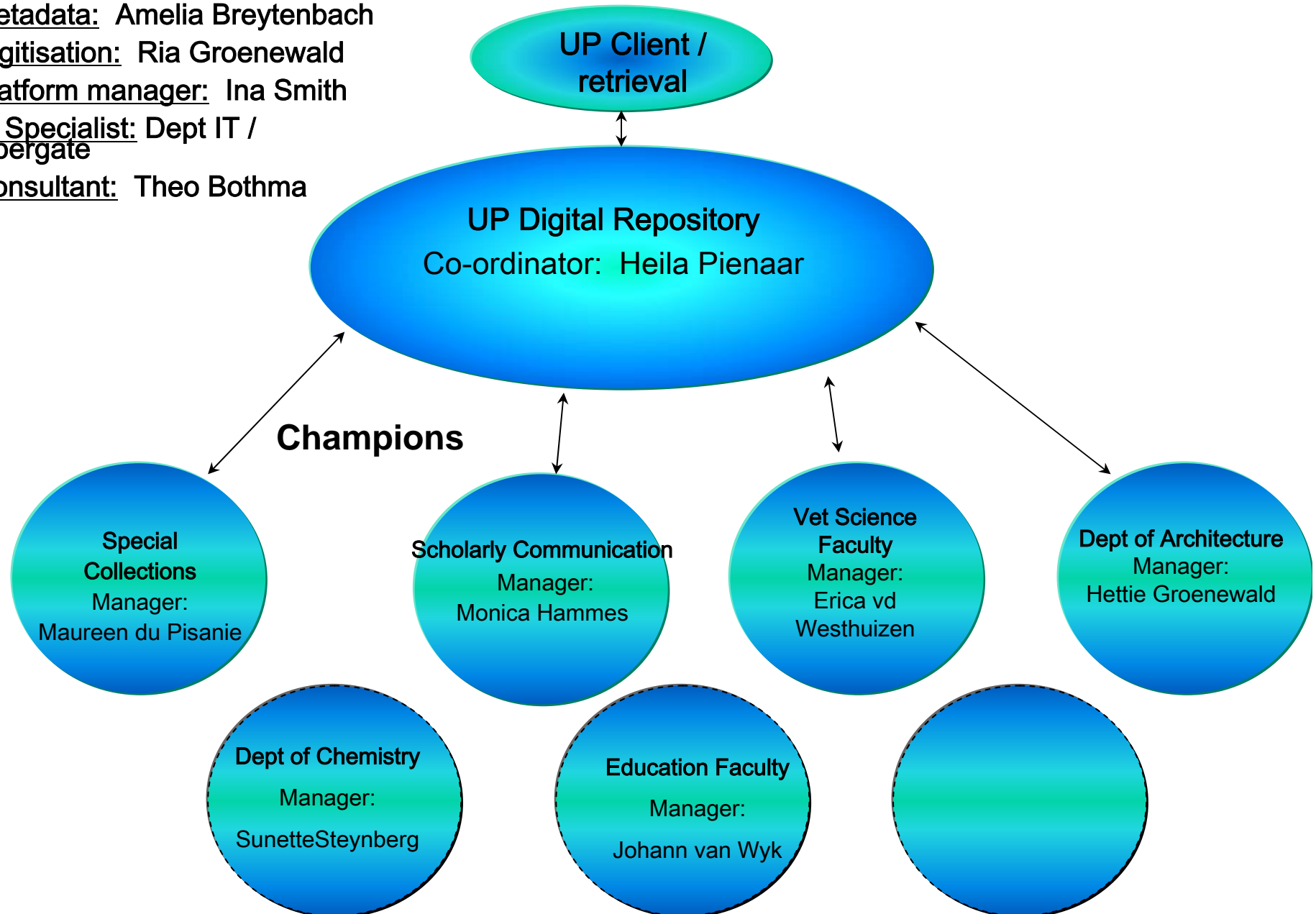
Only digital material can be submitted: digitized or digitally born



UP digital repository

Specialist / expert roles:

- Metadata: Amelia Breytenbach
- Digitisation: Ria Groenewald
- Platform manager: Ina Smith
- IT Specialist: Dept IT / Psybergate
- Consultant: Theo Bothma





Library Portlet

Links to general Academic Information services. [Edit](#)

[Library \(Academic Information Service\) home page](#)

The home page of UP's library

[Your information specialist](#)

List of information specialists according to subject area

[Ask a librarian](#)

Digital reference service

[Electronic interlending](#)

Manual for requesting documents online through interlending

[View and renew your library books](#)

A facility to electronically renew your library books

Internet Bookmarks

[Add](#) | [Manage](#)

Visit the [Electronic Resources](#) Application for a full list of bookmarks...

Virtual Groups

Virtual Groups provide users of the Portal with the opportunity to create online groups and to collaborate with their peers through a simple to user web interface.

[Virtual Groups](#)

Virtual Groups News

Virtual Groups messages for this week
No New Messages

Virtual Groups Calendar

Your upcoming Virtual Groups events for this month:

[Vergadering in komiteekamer](#)

View Calendar

[This Month](#)

[Next Month](#)

UP digital Collections

UP Greenstone Digital Collections

[ArchUP digital collection](#)

Owner: [Department of Architecture](#)

Search Electronic Resources Portlet

Search The Internet

[Google](#)

[Yahoo](#)

[AltaVista](#)

[UPSpace](#)

Search UP

[Search the UP Website](#)

[Search Library Catalog](#)

[\(UPExplore\)](#)

Eresource Type

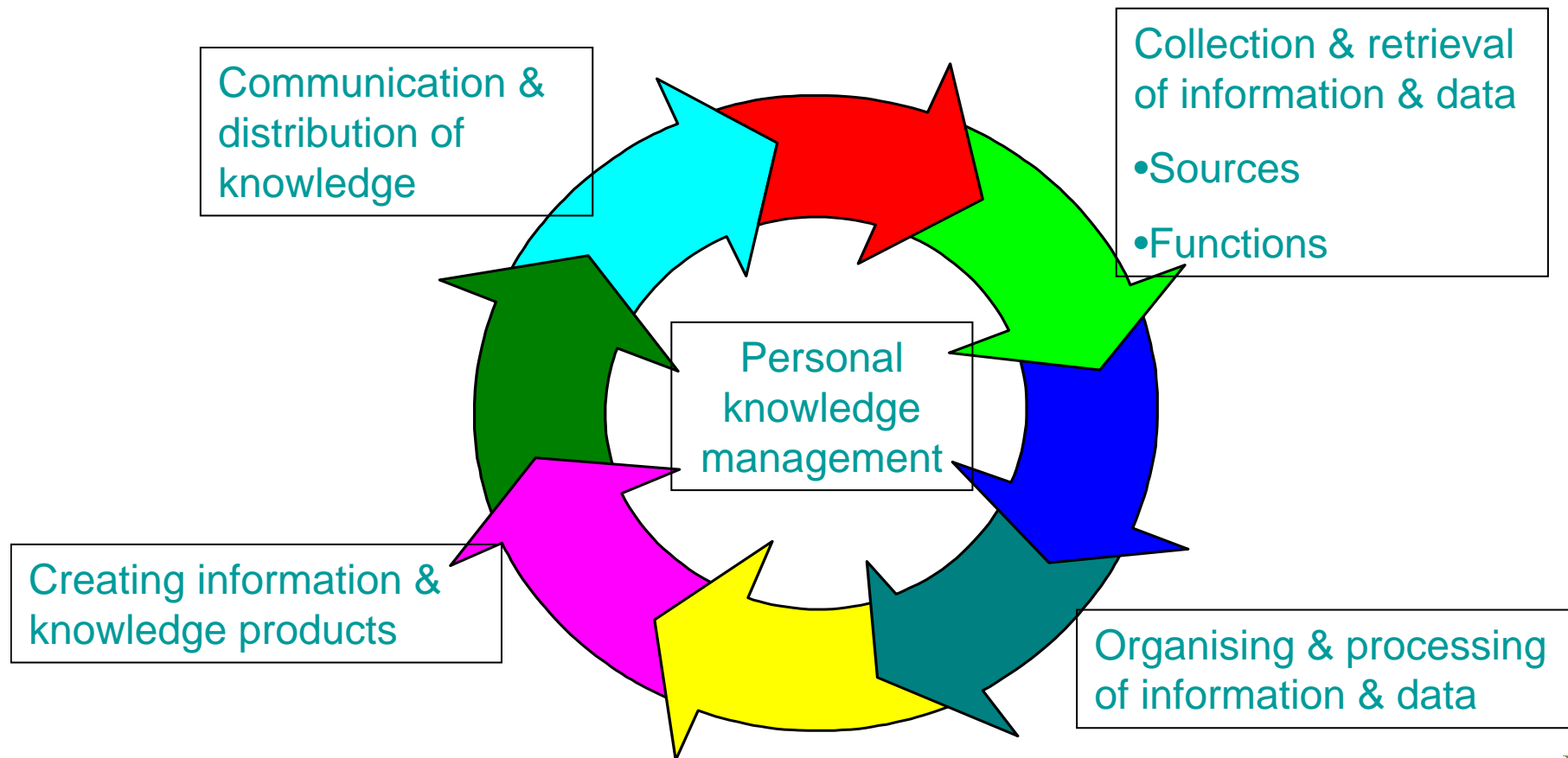
All

Search Criteria

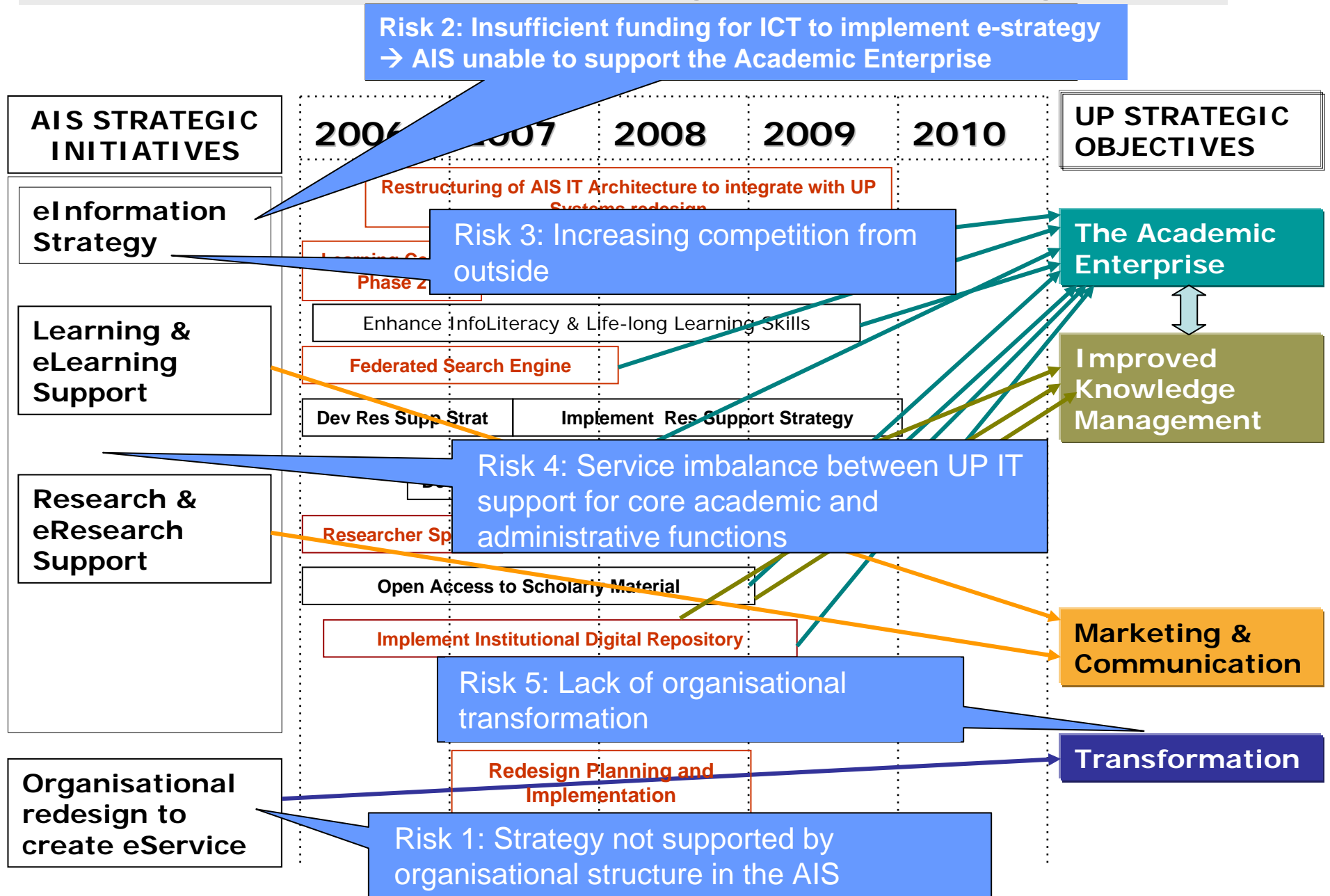
Search Magnet

Search Criteria

Personal academic knowledge management



Click to see AIS 2005 Risks aligned with Strategic Plan



Some of the processes, results & products of this strategy (1)

- The strategy is part of my **portfolio** as a member of the AIS executive
- An eInformation **steering committee** was created with several portfolios and specific terms of reference
- Organisational **redesign** consultants are helping the AIS to change to a new structure to support the eInformation Strategy



Some of the processes, results & products of this strategy (2)

- **UP executive** supports this strategy
 - (budget)
- **UP academics** & departments are positive about the UPSpace repository
- **UP students** are happy with the Google Scholar initiative
- The AIS **Infoportal** has been transformed to the UP portal as an interface for UP eproducts

Some of the processes, results & products of this strategy (3)

- UPSpace (UP digital research repository) - UP
- **support** services are also interested in using the same software
- Google Scholar is a **free** and easy-to-use federated / global search engine
- A revamped AIS **web** site is under development
- The AIS and IT are **aligned** in terms of standards and architecture
- AIS staff are being **retrained** / reskilled

The next stage ...

- My dream is that the AIS must take the leadership at UP in developing a **Virtual Knowledge Environment (VKE)** ...

The next stage

“ My strategic vision is that the university library, in collaboration with relevant partners (UP, SA & global), must create an integrated virtual knowledge (research, learning, and information) environment (VKE) that will **support the knowledge processes** of researchers, teachers / learning facilitators & learners and that library and information professionals form an integral part of such an environment”

Example of a VKE / VRE

- Integrative Biology Virtual Research Environment (IBVRE):
- 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>)

Bibliography

- Campbell, J.D. 2006. Changing a cultural icon. The academic library as a virtual destination. *Educause review*, Jan/Feb 2006: 16-30.
<http://www.educause.edu/apps/er/erm06/erm0610.asp>
- JISC project: A VRE to support the Integrative Biology Research Consortium.
<http://www.jisc.ac.uk/index.cfm?name=ibvre&src=alpha>
- Lippencott, J.K. 2005. *Net generation students and libraries.* *Educause review*, March April 2005, 40(2) <http://www.educause.edu/apps/er/erm05/erm0523.asp>
- Page-Shipp, R.J., Hammes, M., Pienaar, H., Reagon, F., Thomas, G., van Deventer, M.J., Veldsman, V. 2005. *eResearch support services: responding to a challenge facing the South African research and information communities.* *SA Journal of Information Management*, December 2005, 7(4)
<http://www.sajim.co.za>
- Pienaar, H. 2003. *Design and development of an academic portal.* *Libri*, June 2003, 53(2): 118-129.
- Sergeant, D. M., Andrews, S., Farquhar, A. [2004?]. Embedding a VRE in an Institutional Environment (EVIE) & Workpackage 2: User Requirements Analysis User Requirements Analysis Report.
http://www.leeds.ac.uk/evie/workpackages/wp2/evieWP2_UserRequirementsAnalysis_v1_0.pdf