RESEARCH DATA MANAGEMENT SERVICES
CAPE PENINSULA UNIVERSITY OF TECHNOLOGY

Elisha R.T. Chiware
Director: CPUT Libraries
Cape Peninsula University of Technology

- Established in 2005: merger between two technical colleges
- Located in Cape Town in the Western Cape Province of South Africa
- With 11 sites/campuses
- Enrolment: 34 000 students
- 1800 staff members
CPUT Libraries

- Located on all 11 sites of delivery
- Over 100 staff members
- Services include:
  - Collaborative learning and studying spaces
  - Writing and communication support centres
  - A range of electronic and print resources
  - Information Literacy Training programmes
  - Research Data Management Services
  - Institutional Repository
  - Host of the South Africa Higher Education Institutions Statistics Database
  - Developing OER platforms
Overview of Research Data Services Model at CPUT

- Key eResearch Drivers
- Institutional Partnerships
- eResearch Service Model
- Collaboration with TUM (Technical University Munich)
- Research Data Management Platform
- Working Groups
- Pilot Project
eResearch Drivers at CPUT

KITS Division – (Knowledge, Information and Technology Services)

Library part of an expanded portfolio focusing on knowledge, information, data and technology

IT is a strategic partner and not an enabler – King III Report on Corporate Governance
KITS structure

- DVC: KITS
  - PA
  - CTS (computing & telecoms services)
  - Library
  - MIS (mgt info systems)
  - Centre for e-Learning and Innovative Educational Technologies
  - ICT Innovation & Development
eResearch Drivers at CPUT

• Growing Research output & International Collaborations (co-authorships)
Research, Technology & Innovation Blueprint

Models For Research Data Management Services

Cape Peninsula University of Technology

Research, Technology Innovation and Partnerships

10-year blueprint

CPUT Libraries
eResearch Drivers at CPUT

• Research, Technology & Innovation Blueprint (RTI)
  • Library’s Role
    • Supportive, modern library facilities & expanded curation functions
    • Collaboration to enable world-class library research and innovation systems and infrastructure, including:
      • Enhanced library research support systems and services, access to information, digital platforms, support for research skills
      • Expansion of library infrastructure and resources which align with vision of the RTI Blueprint
      • Curation, dissemination and promotion of traditional outputs of research in terms of articles and theses, and curation of research data and innovation output, including enhanced research data management systems
eResearch Drivers at CPUT

Library eStrategy

• Six focus areas:
  • eResearch – online research environment that supports research & encourages collaborative research within CPUT & with external partners
  • eLearning – support and embed library resources into Learner Management System
  • Digitization – provide an environment for the long-term stewardship in digital form of all CPUT’s intellectual output
  • Open scholarship – provide an effective support as appropriate for the university’s research output
  • Library web environment – gateway to all library resources and services in a seamless environment
  • eResources and search platforms – a unified search environment to all content owned and licensed by CPUT Libraries
eResearch Drivers at CPUT

- Policy environment
  - CPUT Intellectual Property Rights Policy, 2009
  - CPUT Research Data Management & Open Access Policies 2014
  - Statement on Open Access on research publication from the National Research Foundation (NRF)-funded Research, January 19 2015:
    - Authors of research papers generated from research either fully or partially funded by NRF, when submitting and publishing in academic journals, should deposit their final peer-reviewed manuscripts that have been accepted by the journals, into the administering Institution Repository with an embargo period of no more than 12 months
    - In addition, the data supporting the publication should be deposited in an accredited Open Access repository, with the provision of a Digital Object Identifier for future citation and referencing.
Growing Institutional RDM Partnerships

- Research, Technology and Innovation
- CPUT RDM Working Group
- Policy Development
  - RDM Policy (& Open Access Policy)
- Implementation
  - Working Plan
- Engaging researchers
  - University Committees
- Pilot Projects
RDM Services Model at CPUT
Collaboration with Technical University Munich (TUM)
Collaboration with TUM

• eRIC—eResearch Infrastructure & Communication
  • eRIC is a joint initiative by information experts from libraries all over the world. Partners from Germany and South Africa are currently working in close collaboration with software developers, IT experts, and researchers from various fields of expertise to develop a comprehensive software and service infrastructure

• Other Partners:
  • University of the Federal Armed Forces Munich
  • Heinz-Maier-Leibniz Neutron Source Garching
  • Expressions of interest
    • University Mainz
    • University Bayreuth (running their own MediaTUM server for research data)
    • Bavarian Academy of Sciences
    • Further potential partners in Africa
# Collaboration with TUM

## The approach

- **Open Source**: All project results are documented and published as open-source-software
- **Collaborative Development**: eRIC services are developed in collaboration with researchers, librarians and IT-experts
- **Modular Solutions**: eRIC tools and services are part of a flexible multi-tier software and service architecture
- **Customer Oriented**: All customer requirements are documented, analysed, and implemented bottom-up

## Organisational and communication structure between partners:

- regional eRIC coordination centres and their communication:
  - email
  - video conferencing,
  - past & planned workshops
  - staff exchange
RDM Platform

- **MediaTUM** (a convenient platform to upload metadata and if possible full-text of all publications by university members)
Working Groups

• Working Groups in the two institutions
  • **Working Group 1**: Communication Tools and Researcher Profile
  • **Working Group 2**: Reference Management System and Visualisation of Data
  • **Working Group 3**: Research Plan and Electronic Project Journal
  • **Working Group 4**: Search Functionalities, Semantic Methods, Search Engine Optimisation
Working Group 1: Communication Tools and Researcher Profile

- (WG1) aims at developing a set of detailed specifications for the integration of communication tools as well as tools for organization and storage of ideas in mediaTUM. Furthermore, a tool for preparation and publication of researcher profiles should be specified. This is meant to happen in close collaboration with researchers and prospective users.

- Main objective of WG1 is to prepare a set of specifications for subsequent internal or external implementation into mediaTUM.
Working Group 2: Reference Management System and Visualisation of Data

• (WG2) aims at developing a set of detailed specifications for the integration of a reference management system into MediaTUM. Furthermore, specifications for visualising scientific data should be worked out. This is meant to happen in close collaboration with researchers and prospective users.

• Main objective of WG2 is to prepare a set of specifications for subsequent internal or external implementation into mediaTUM.
Working Group 3: Research Plan and Electronic Project Journal

• (WG3) aims at developing a set of detailed specifications for the integration of research plans and electronic project journals within the MediaTUM framework. This is meant to happen in close collaboration with researchers and prospective users.

• Main objective of WG3 is to prepare a set of specifications for subsequent internal or external implementation into MediaTUM.
Working Group 4: Search Functionalities, Semantic Methods, Search Engine Optimisation

(WG4) aims at developing a set of detailed specifications for new search functionalities within MediaTUM. Furthermore, semantic methods should be evaluated and implemented. This is meant to happen in close collaboration with researchers and prospective users. Main objective of WG4 is to prepare a set of specifications for subsequent internal or external implementation into MediaTUM.
Where are we?

• Pilot Projects
  • Survey of current research data management practices within the research community
  • Identified a research group to work with
  • Requirements gathering done
  • Set them up on MediaTUM
• Tools development stage
  • Electronic Lab Journal Development
  • Data Management Plans (working closely with DCC (UK))
CPUT Pilot Project

- Institute of Biomedical and Microbial Biocatalysis
  - 15 leading researchers led by a Research Chair (funded by the South African National Research Foundation)
  - Used to be part of the South Africa Medical Research Council
    - Brings a wealth of research experience and lots of data requiring management
Pilot Project reporting

• Continued communication between the library and the institute
• Final pilot project results to be reported jointly to various university committees including the following:
  • Senate
    • Senate sub-committees on:
      • Research (Senate Research Committee)
      • Library (Senate Library Committee)
  • Workshops with various research groups within CPUT
  • CPUT eResearch Workshop in 2016 for African librarians
Future joint activities

• In the past we have held:
  • Joint workshops in Cape Town and Munich

• In 2015/2016
  • eResearch Workshop in Munich
  • eResearch Workshop in Cape Town
  • Staff exchange/programmers; training librarians and coordinators

• Communication channels
  • Strengthen our communication channels
WE WELCOME NEW PARTNERS TO THE COLLABORATION

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