u:cris PURE @ University of Vienna

From data collection to FAIR use in CRIS. The case of University of Vienna

Clemens Miniberger & Steve Reding
University of Vienna: Data

- Founded in 1365
- Covers all disciplines excl. Human Medicine
- Internal organization: 15 faculties, 4 centers, 17 research platforms
- 65 addresses all over Vienna
- 174 degree programmes
- 94,000 students / 13,800 new students per year (2016)
- From 2007: 41 ERC Grants (2017: 1 Advanced Grant, 3 Starting Grants)
- Funds granted through research projects: ca. 80 Mio. Euro (2016)
- Publication Output: 7,721 (2016)
University of Vienna: Data at a glance

Source: https://www.univie.ac.at/en/about-us/at-a-glance/facts-folders/
Why a commercial CRIS?

- Former system deployed as module in Campus management system i3v (since 2006)
- Critique former system
  - User Interface not up-to date; no possibilities of presenting or re-using data
  - Intransparency: black boxed system?
  - Development could not be guaranteed by internal development team (scarce resources)
  - Next Generation CRIS available on market
- Implementation
  - Phase 1: Core Modules (Publications und Activities): October 2012 until November 2013
  - Phase 2: Award Management Modul Implementation 2015 - 2016
Challenges

• Scale and Complexity of Institution
• Unpopularity former system
• High expectations
• Large amount of legacy data
• Different institutional cultures (University vs Developer)
• Rigid processes

Solutions

• Early involvement of stake holders and individual researchers
• Transparency regarding process of implementation and milestones
• Implementation step-by-step (Award Management)
• Heterogenous teams in implementation and management
• Analyze processes and workflows and maybe re-adapt
PURE @ University of Vienna: Licensed Modules

- Administration Module
- CV Module
- Import Module
- Reporting Module
- Custom Portal (formerly Advanced Portal)
- Award Management Module (still in phase of implementation)
Pure @ University of Vienna: Responsibilities

University Library

- Publications
- Activities, Prizes
- Press / Media
- CVs

Research Services and Career Development

- Applications
- Grants
- Research Projects
Decentral u:cris staff @ University of Vienna

• Validation of publications: ca. 250 persons
• Contact points for initial data entry (publications): ca. 150 persons
• Contact points for initial data entry (research projects): ca. 70 persons
Primary Usage(-s) of CRIS Data @ University of Vienna

Reporting

• University of Vienna runs a central Datawarehouse incl. Reporting system (IBM Cognos)
• Official Reporting is done via IBM Cognos (Guarantees for Reliability and Reproducibility of Reports)
• Pure Reporting is used for everything else

Public Presentation and Visibility

• **PURE Portal**
• Typo3 Plugin-s
Third Party funding and research projects: Entry and usage of data along the lifecycle of research projects

Pure Award Management Modul
Situation before Award Management Module

- No information available on Applications
  - Research Projects > 100,000 Euro centrally authorized by Rectorate
    Research Projects < 100,000 Euro are approved by Dean’s offices
- only after grant: Information available at Finance Controlling
- No answers to questions like:
  - How many applications for external funding at University?
  - Degree of Acceptance
  - Which are the most prominent sources of third party funding?
After implementation of Award Management Module

- Applications administrated and stored in Pure
- Information regarding ALL applications for funding centrally available at University of Vienna
- All levels of Management (Deans, Rectorate) have relevant and sensible data available on the fly
- Paper based administration workflows are more and more replaced
Award Management @ University of Vienna

- Applications and grants are NOT administrated by individual researchers
- Administration Teams at deans offices (Applications to a max of 100.000 Euro) or at research services (Applications above 100.000 Euro)
- No administration or manipulation rights granted to individual researchers for Applications and Grants (only for research projects)
- Research project data are generated centrally, but can be manipulated by researchers involved in research projects
Workflow: Application – Grant – Research Project

1. PI initiates workflow of Application for a Research Project
   - Application is created in Pure and will be modified during the process of Application

2. Approval is granted
   - Internal Job Number is created and registered in PURE

3. Research Project is created in PURE
   - Research Project in PURE administrated by involved researchers
CRIS Data publically available and different research cultures
Increased Visibility in the SSH

• Study available at Zenodo „Increased Visibility in the Social Sciences and the Humanities (SSH). Results of a survey at the University of Vienna. Executive Summary 2017 EN”
  https://doi.org/10.5281/zenodo.401039

• SSH in non-english speaking countries less represented in international bibliometric resources (e.g. Web of Science, PubMed, Scopus)

• Local CRIS has been identified as central tool for increasing the visibility of research in the SSH
  ◦ Pure Custom Portal
  ◦ Institutional and individual Webpages (via support of Content Management Systems)

• Potential further enhancement: full support of repository integration in the CRIS environment
  → no support of Fedora based repositories by PURE (e.g. Phaidra)
FIS/CRIS Austria

- Network of CRIS-Managers from all Austrian universities (founded 2016)
- Meetings twice a year
- Aims:
  - Developing of standards
  - Developing of strategies concerning Annual Intellectual Capital Report, reporting, communication with researchers, data quality
- Exchange of experience
  - Different responsibilities for CRIS (library, finance and controlling, rectorate, research services) but similar problems
  - Commercial products vs. in-house development vs. open source
AT2OA Open Access Monitoring

• Project Austrian Transition to Open Access (AT2OA) funded by Federal Ministry of Science, Research and Economy (bmwfw) 2017-2020
• 4 main pillars (Analysis; Financing; institutionalizing of publication funds; funding of OA publications)
• 21 Austrian universities participating
• Goal is reaching the full transition from Closed Access to Open Access of Austrian publically funded research
• Sub-Project Open Access Monitoring: developing a recommendation for a tool able at monitoring the transition to Open Access in Austria building up on data stored in local CRIS
• CERIF as a framework enabling data exchange in between of stakeholders?
Next endeavors

• Relaunch of all publically available platforms
• updated Corporate Identity University of Vienna
• Custom Portal no longer supported by Elsevier
  ◦ Further Enhancement of Support for Content Management Systems (Typo3)
• Professionalization of Pure Reporting: Award Management; Management Information System (MIS); Pure Reports
• Automated SAP interface (unidirectional Push from PURE to SAP)
• Equipment Module: Infrastructure and large research facilities
• Finalization of implementation Award Management Module
Contact

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