LIRIAS 2.0

Implementation of a new repository

Open repositories
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Background
Key players

LIBIS
KU Leuven

Research Coordination Office
KU Leuven

IT Department
KU Leuven
What?

Leuven Institutional Repository and Information Archiving System

• Repository: archiving digital research output
In the past ...
What we had … (Lirias 1.0)
And why we wanted something ‘new’

- DSpace version: outdated
- Collection structure: too much maintenance
- Entries: too much (manual) steps
- Rapid changes in the scholarly communication environment
What this ‘new’ should be offering

- 2014|Survey organized by Research Coordination Office amongst end users
  - Determine priorities
  - Recommendations presented to four working groups
  - Advice formulated in 20 action lines

- 2015|KU Leuven General Manager decides to launch a tender
- 2016|Scrutiny of answers (inventories) to tender
  - 2 respondents came to Leuven for demos
Lirias 2.0

Welcome to the digital repository for KU Leuven Association research!

Lirias is a document repository to archive the KU Leuven Association research output in a digital way. Lirias captures, stores, indexes, preserves, and distributes digital research material of the KU Leuven Association.

RECENT SUBMISSIONS IN LIRIAS
We selected Elements …

• Storage of metadata and upload of full-texts
• New publication types: datasets, software & code, translations
• Automatic capture of research output
• Proposing research output from external databases

→ time-saving for end users
... and retained DSpace as repository

- long-term storage
- access limited to technical staff
- compatibility between DSpace and international databases: BASE, ProQuest and OpenAIRE
Societal changes in the Bereket valley during the Roman Imperial period Results from the Sagalassos Territorial Archaeological Survey 2008 (southwest Turkey)

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dc.description.provenance Submitted by Eva Kaptijn (eva.kaptijn@arts.kuleuven.be) on 2013-02-27T17:08:27Z No. of bitstreams: 0
dc.description.provenance Approved for entry into archive by Viviane en
Complex integration of infrastructures and tools
Biggest challenge: synching data between Elements and DSpace

• Complex data model to map all fields from DSpace to Elements and from Elements to DSpace

• Variety of strategies (manually, scripts, etc.) to review, clean and verify the data
Creation of an Elements-cache (by LIBIS)

- Intermediate layer for Elements API users
- Where data from Elements and DSpace are combined
- Crucial for discovery service and data requests
- Different versions of a Lirias publication object (WoS record, PubMed record, Scopus record, manual record) are merged into one record, with extra information about authors and access rights
- Speeding up the lookup of info for end users
Complex integration of infrastructures and tools
Limo, public view on Lirias data and full-texts

• KU Leuven search interface providing combined search on library and archival collections
• And KU Leuven research output coming from Lirias
• Synchronizing data between Elements and Limo
• Adjusting Limo view to meet the new needs
• Adding new forms of metrics (like alt-metrics)
• Ensuring that Google Scholar could access Lirias output
Complex integration of infrastructures and tools
Conclusions
Timeline

- User survey: 2014
- WG policy, front & back end & techn.: 2014-2015
- Tender: 2015
- Demos: 2016
- Decision: 2016
- Implementation: 2017-2018
Result of joint efforts

• 2 years of close collaboration between different units/stakeholders
  • Research Coordination Office: functional analysis and overall coordination
  • LIBIS (part of KU Leuven Research and Development & KU Leuven Libraries) for the technical implementation and the maintenance of the system together with ICTS, Symplectic (vendor Elements) & Atmire (to upgrade DSpace)
  • each bringing in own expertise
  • Demanding process due to technical issues along the road & changes for the end users
  • Communication about changes, the system’s benefits and our further planning was crucial
Constantly evolving: an incremental system

• New policies, technical developments
• Focus on making all outputs findable, accessible, interoperable and reusable for humans and machines
Information

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Repository
• https://lirias.kuleuven.be