Libraries at the Heart of Teaching, Learning, and Research

Research Services Platform

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IGeLU 2017 Conference | St. Petersburg, September 2017
Wish you were Here
sung to the tune of Wish you were Here by Pink Floyd

So, so you think you can tell
MARC21 hell
From MARCXML.
Can you tell A MARC field
From a class in DC?
MODS, METS or EAD?
Do you think you can tell?

And did they get you to trade
AACR2
For the new RDA?
What kind of sucker are you?
Old comfort for change?
And did you exchange
The place that once made you proud
For a small spot in the cloud?

How I wish, how I wish you were here.
We’re just Library Zones :
With no flesh on our bones
URM dear!

Cataloguing the same old books
How stupid that looks
Year after year
URM dear...
Key Goals of Next-Gen Library Services Framework

- Work More Efficiently
- Focus on Areas of Value
- Drive New Services

Enable shifting focus to the strategic
The Evolving Role of Libraries

Research
Research – Main Drivers

- Competition & Collaboration
- Reputation & Prestige
- Compliance
Researchers

publish  publish  publish

(funding, collaborators, tenure)
Compliance with mandates and policies around openness and re-use of funded research require sustainable and systematic data management.

Growing competition for funding and prestige drive the need for better visibility and recognition of research achievements - at the individual researcher, the university as well as national and international levels.

DATA IS KEY
Research Objects

The intellectual work of researchers (academics, faculty and students?)

- **PUBLICATIONS**
  - Final versions, pre-prints, ETDs, etc.

- **DATA**
  - Evidence: Datasets, raw, computational, tables, spreadsheets, images, etc.

- **PROCESSES**
  - Code, Software, ELNs, etc..

Data and Processes may be final or dynamic/active

Products may be public or need to be restricted
Goals (Individual, Institutional, National, International)

Capture Research Outcomes:
Improve Visibility, Impact and Compliance

- Discoverability & Re-Usability
  Institutional and Aggregated

- Analytics & Metrics
  “what is going on?” Trends, Impact

- Reports
  Compliance & beyond e.g. Publications Lists

- Publishing (OA,...)

- Preservation
At EU/National level

- The European Commission aims at stimulating research excellence by increasing competition among researchers at a European level.

- One of the main objectives (and challenges…) is to develop indicators that can measure patterns and trends in research across countries.

  ➔ Need a comprehensive and reliable source. “System of truth” (System of Records)

  ➔ Need standards and interoperability
“There is an increasing focus on showcasing or measuring the societal benefits from research, and a need for better coordination in reporting and promoting the impact of these research outcomes. This will become increasingly important in a tight fiscal government environment where returns on investment in research will need to be demonstrated in terms of environmental, economic and social impact. For these reasons and others, key stakeholders including government, industry and the community require more information on the benefits derived from investment in Australian research activities.”

“Research impact is the demonstrable contribution that research makes to the economy, society, culture, national security, public policy or services, health, the environment, or quality of life, beyond contributions to academia.” — ARC

**PLAN:**

- Set early and clear expectations on research impact against which progress can be monitored.
- Develop capability to **effectively collect data** and undertake impact monitoring and evaluation.
- Identify appropriate **data elements for effective assessment** of research impact.

Research Functions and System Types Today

- Research Data Management
- Research Data Repository
- Publications
- Institutional Repository
- Funding / Project Admin
- Publications Tracking & Assessment
- Research Information Systems
- Current Research Information Systems
Challenges Today

**CHALLENGES**

- Different systems and data models
- Limited/Lack of sustainable integration
- Manual work (no/limited workflows)
- Quality of information greatly varies
- Metadata quality and robustness deficiencies (Identifiers and relationships)

**IMPACT**

- Incomplete capture of institutional research activity and outcomes
- Complicated processes increase overhead
- Limited or difficult comprehensive dissemination of research outcomes
- Lack of comprehensive Analytics & Visibility
- Uncertainty regarding compliance
- Hard to scale and measure
Comprehensive and Efficient Capture and Enhancement of Institutional Research Objects (Publications and Data) to improve Visibility, Impact and Compliance
A System of Records of the institution’s research work: capturing records of research objects (publications and data) of the institution's research community

This is our research stuff!

- Unified & Comprehensive
- Quality Metadata!
- Workflow-based
- Mediate & Unmediated
- Integrated Analytics
- Broad Dissemination
OUR APPROACH

Leverage library skills and technology to lead strategic and mission-focused service in close collaboration with research stakeholders.
A collaborative, cloud-based system that captures and aggregates research objects in multiple methods, improves visibility to research outputs and data and is transparent to researchers’ day to day work
Ex Libris Esploro: The Research Services Platform

- Institutional Repository
- Research Data Repository
- Publication Lists

Data Unification
Metadata Curation
Integrated with Existing Repositories
Workflow based
Analytics Driven

Increase compliance, visibility, collaboration
Reduce number of point solutions & cost
Research Objects Flows Today

Institutional / Local

Direct Deposit

Publications

Data & Processes

Published Content

Disciplinary / Specialized Repositories

Sometimes

Institutional Repository

Research Data

External

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Creating a Holistic View of Research Objects

- Early triggers from research project for data planning
- Allow reporting back to funders

- MD and ID enrichment
- Links b/w publications and data
- Controlled vocabularies
- Library mediated, when required (WF based)
- Feeds of enriched data back to source (where possible)
- Adding flags & triggers for OA, sensitive data etc.
Adding Value to the Research Process

Better Capture of Research Objects
- Easy to use direct deposit of data and research output
- Includes harvesting data from external sources
- Link research data, publication and other related activities
- Including project & grant information

Metadata
- Advanced tools for Metadata enhancement leveraging our experience
- Metadata curation
- Automatic metadata creation

Research Outputs Visibility & Discoverability
- Incorporated to Primo & Summon
- Research objects are available for external (Google) search
- Support copyright, embargo & open access compliance

Tracking Research Activities
- Research metrics available to relevant stakeholders
- Including Community benchmark & analytics
- Compliance tracking
# Key Benefits

<table>
<thead>
<tr>
<th>Current Status</th>
<th>The Future</th>
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</thead>
<tbody>
<tr>
<td>Diverse point solutions</td>
<td>Unified system of research records</td>
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<tr>
<td>Many solutions are on premises</td>
<td>Full Cloud / SaaS based solution</td>
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<tr>
<td>Lacks structured workflow across solutions</td>
<td>Tailored &amp; sustainable workflows</td>
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<td>Limited visibility for the process and research achievements</td>
<td>Strong visibility &amp; compliance adherence</td>
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<td>Publication centric data relying on researcher deposits</td>
<td>Widening the scope of data to all research outputs including automated aggregations and researcher deposits</td>
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<td>Hard to change Researchers habits</td>
<td>Keep parts of what’s working well</td>
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The Future

- Keep parts of what’s working well
Platform for Academic Solutions, leveraging cloud-native & community zone concepts for efficiency and collaboration:

• Sharing templates, schemas, mandates, best practices...
• Institutional & cross institutional analytics and discovery
Building Esploro

• Study and Research

• Signed Development partners agreements with Five Universities:
  • Lancaster University
  • Sheffield University
  • University of Oklahoma
  • University of Miami
  • University of Iowa

• Development team & Product unit was formed
Defining the Solution Together
And Having Fun
Scoping with the Development Partners

- Track 1 - Direct Deposit
- Track 2 - Research Data
- Track 3 - External Capture – Indexes and Repositories
- Track 4 - Dissemination & Discovery
- Track 5 - Metrics & Analytics
- Track 6 - Data Model, Repositories & Metadata Support
Scoping with the Development Partners

Research - Track 1 - Direct Deposit

- Campfire
  - Yvette Diven: 04:30pm • Hi, team.
  - Yvette Diven: 04:45pm • Is there any change in the assi...
  - Yvette Diven: 10:00pm • Hi, Wendy. No, there’s no cha...

- Message Board
  - Yvette Diven: Aug 17 • Action Items: - August 17 —
    Hello, Everyone. Thanks to those
  - Yvette Diven: Aug 14 • Kickoff meeting for Track 1 —
    Greetings to all of my Track 1

- To-dos
  - Notifications
    - What notifications to and from the Library are essential to a successful deposit process?
  - Types of Research Objects
    - Define and prioritize the list of deposited research objects that we will focus on in phase 1
    - Define the required workflow for integrating deposit of Theses & Dissertations (ETD and non-

- Schedule
  - Sep 4 • Labor Day holiday (US)
  - Aug 28 • August Bank Holiday (UK)
  - Nothing’s coming up!

- Docs & Files
  - Current Status
    - [Link]
  - Team Call
    - [Link]
THANK YOU
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