Why do organizations need CRIS systems? The case of Elsevier Pure

October 2020
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Pure

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Two series of webinars:

• Why do organizations need CRIS systems? The case of Elsevier Pure (19th November 2020)

• Elsevier Pure: Deep dive (3rd December 2020)

The team:

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- Luigi Ruco (Solutions Sales Manager) – IT
- Agne Karose (Marketing Manager) – NL
- Juan García Morgado (Solutions Sales Manager) – SP
Agenda

• Introduction to Research Information Management (RIM)
• Introduction to Pure
• Integration Capabilities
• Pure Modules
• Q&A
Introduction to

Research Information Management (RIM)
RIM systems are used to aggregate, curate and utilize information about research.
Understanding RIM Systems

They help institutions operate more efficiently by collecting and organizing scholarly outputs and other research-related data.
Understanding RIM Systems

In other words...

RIM systems support institution and researcher goals by improving access to up-to-date research data campus-wide.
Effective RIM helps

• Enhance your institution’s academic profile
• Improve your researchers’ likelihood of acquiring funding
• Secure more long-term funding opportunities
• Collaborate with more partners on the international stage
• Manage performance and quality of research groups and individuals
• Save significant effort creating annual reports
• Provide powerful insights to support management decision-making
Barriers to implementing RIM best practices

- Many disconnected data sources
- Data compliance risks
- Slow awarding processes
- Limited visibility into all your research activities
- Low public awareness of your research achievements
- Inability to identify optimal research collaboration partners
The Power of Pure
Unlock Your Full Research Potential

Pure is a versatile, interoperable software solution that you can configure to your institution’s growing needs.

Pure facilitates an evidence-based execution of strategy, leading to increased funding, more international collaboration and greater research visibility.
The Power of Pure

Seamless automated data sourcing

Advanced **inbound** and **outbound** data sharing options

Sophisticated granular **access**, **workflow** and **data quality controls**

Fully interconnected data model
# Driving Customer Value

## Value

<table>
<thead>
<tr>
<th></th>
<th>Powerful open platform</th>
<th>Simple turnkey system</th>
<th>Deep integration with Elsevier RI suite</th>
<th>Cross-institution collaboration</th>
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<tbody>
<tr>
<td><strong>Examples</strong></td>
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<tr>
<td>Automatically interoperates with more data sources</td>
<td>Profile Refinement Service (PRS) expedites profile building</td>
<td>SciVal</td>
<td>Showcase regions by collaborating with local partners</td>
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<td>Flexible inbound/outbound data options</td>
<td>Patented fingerprinting technology helps users find precise information faster</td>
<td>Scopus</td>
<td>Benchmark institution performance and securely share data with partners</td>
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<td>Sophisticated granular access controls and extensive data modeling</td>
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<td>Funding Institutional</td>
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<td>Mendeley Data</td>
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**THE POWER OF PURE**

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**Pure - Unlock your full research potential**
IntegratingDisconnectedDataSources

Disconnected Data Sources

**Complicates** research management, administration and networking and collaboration

<table>
<thead>
<tr>
<th>Multiple IDs</th>
<th>Unique IDs</th>
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<tbody>
<tr>
<td>Disparate information</td>
<td>Structured information</td>
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<tr>
<td>Disconnected data</td>
<td>Interconnected data</td>
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<tr>
<td>Non-homogeneous data</td>
<td>Homogeneous data</td>
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<tr>
<td>Available at high cost in FTE</td>
<td>Available at low cost in FTE</td>
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</tbody>
</table>

Pure Integration

**Simplifies** research management, administration and researcher networking and collaboration
Importing Data from Multiple Channels

Pure is designed to capture data from a wide selection of internal and external sources.

Profile Refinement Service (PRS) pre-populates researcher profiles with Scopus publications with minimal implementation and maintenance requirements.
Pure Service Promise

With a commitment to driving your success, our team of 100+ specialists ensure best-in-class user experiences and provide dedicated customer support.
No other RIM solution provider has successfully implemented more systems.

Trusted by researchers and faculty members in 47 countries—three times more than the next competitor.
90% of customers said they were satisfied or very satisfied with their service experience

*Based on customer support post-service survey data*
Dynamic System Integration Capabilities

**XML**
- Access back-end data
  - XML import and synchronization
  - E.g. HR systems

**External systems**
- Manage third-party content ingestion
  - All records maintained externally but available in Pure
  - Data deduplication workflow
  - Automated imports
  - Direct, built-in, supported connectors to 20+ major online sources
    - Scopus, Web of Science, PubMed, CrossREF, Arvix, datasets, funding opportunity databases, etc.

**Pure**
- Connect API to more systems
  - Adds new records and updates existing ones
  - Read-only Web Service (REST, SOAP and OAI-PMH)
  - Outputs in XML and JSON
  - Custom institutional repository (IR) connectors

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Elsevier Fingerprint Engine

**XML**

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**Pure**

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**External systems**

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**XML**

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**Pure**

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**Elsevier Fingerprint Engine**
Data Synchronization Through Integration

**Data transformation**
- HR data source(s)

**Standard XML format**
- Organizations.xml
- Persons.xml

**Pure synchronization framework**
- File upload or HTTP
- Configurable jobs:
  - Organization sync
  - Person sync

**Pure data model**
- Master Data
  - Organizations
  - Persons
Pure enables you to easily manage inbound and outbound data from major online sources.

There are four principles of the information system supporting research.
# Inbound integrations

<table>
<thead>
<tr>
<th>Ads</th>
<th>CiNii</th>
<th>Find It</th>
<th>JUFO</th>
<th>PubMed (central IDs and keywords)</th>
<th>Scopus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abstracts</td>
<td>Crossref</td>
<td>Forskningsdatabasen</td>
<td>Masterlist</td>
<td>Pure API (web service)</td>
<td>SciVal</td>
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<tr>
<td>Arto</td>
<td>DataCite</td>
<td>FROST</td>
<td>Mendeley</td>
<td>Pure (sync framework)</td>
<td>Scopus Metrics</td>
</tr>
<tr>
<td>arXiv</td>
<td>Directory of Open Access Journals</td>
<td>Funding Institution</td>
<td>Mendeley Data</td>
<td>QABO (profile refinement service)</td>
<td>Scopus (journal metadata and metric sync)</td>
</tr>
<tr>
<td>BFI (journals, publishers or conference series)</td>
<td>EBSCO</td>
<td>Google Maps</td>
<td>Newsflo</td>
<td>Research information systems</td>
<td>SHERPA/RoMEO</td>
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<tr>
<td>Bibliotek.dk</td>
<td>Elsevier Fingerprint Engine</td>
<td>GVK</td>
<td>NIH RePORTER</td>
<td>SciELO</td>
<td>SSRN</td>
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<tr>
<td>BiBTeX</td>
<td>Embase</td>
<td>Handle.Net</td>
<td>ORCID</td>
<td>Science Direct</td>
<td>Web of Science</td>
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<tr>
<td>BlackDackel</td>
<td>Espacenet</td>
<td>Infomedia</td>
<td>PlumX Metrics</td>
<td>SciVal (external organization sync)</td>
<td>Web of Science Metrics</td>
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<td>CAB Direct</td>
<td>Fennica</td>
<td>Infonetica</td>
<td>PubMed</td>
<td>SciVal Metrics</td>
<td>WorldCat</td>
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### Outbound integrations

<table>
<thead>
<tr>
<th>Amazon S3</th>
<th>EPrints</th>
<th>IRUS-UK</th>
<th>REF2021</th>
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<tbody>
<tr>
<td>BFI</td>
<td>ERA</td>
<td>NIH Biosketch</td>
<td>Research Map</td>
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<tr>
<td>BibTex</td>
<td>Europass CV</td>
<td>OAI-PMH</td>
<td>Research information systems</td>
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<tr>
<td>Canadian Common CV</td>
<td>Fedora</td>
<td>OpenAIRE</td>
<td>SciVal</td>
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<tr>
<td>CERIF-XML</td>
<td>Format</td>
<td>ORCID</td>
<td>VIVO (endpoint)</td>
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<tr>
<td>DSpace</td>
<td>Google Scholar</td>
<td>Pure API (web service)</td>
<td>Weill Cornell Medicine CV</td>
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</table>
### User authentication integrations

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<thead>
<tr>
<th>Basic authentication</th>
<th>Elsevier ADFS Authentication</th>
<th>RADIUS authentication</th>
<th>SAML2 (WAYF, Shibboleth)</th>
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<tr>
<td>CAS single sign-on</td>
<td>Elsevier authentication</td>
<td>Request header-based authentication</td>
<td>Static user authentication</td>
</tr>
<tr>
<td>Elsevier account authentication (ID+)</td>
<td>LDAP and active directory</td>
<td>Request remote user-based authentication</td>
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**PURE INTEGRATION CAPABILITIES**

**PURE - Unlock your full research potential**
## Sources

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<tr>
<th>METADATA IMPORT</th>
<th>AUTHENTICATION</th>
<th>INSTITUTIONAL REPOSITORY SUPPORT</th>
<th>OPEN STANDARDS</th>
<th>SYNC WITH GOLDEN RECORDS</th>
<th>PURE FEEDING OTHER SYSTEMS</th>
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<td>ArXiv.org</td>
<td>European Patent Office</td>
<td>SAO/NASA Astrophysics Data System</td>
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Benefitting from Our Unmatched Expertise

Pure is the leading globally available commercial RIM solution provider with more than double the customer base of the next competitor.

01 Unmatched RIM implementation success
• 300+ RIM systems implemented to date
• Consistently exceeds site uptime service delivery promise—from 99.5 to 99.87%

02 Superior customer service
• 90% score on customer satisfaction surveys
• 97% customer renewal rate

Source: euroCRIS & OCLC Survey 2018
Benefitting from Our Unmatched Expertise

Pure is the leading globally available commercial RIM solution provider with more than double the customer base of the next competitor.

03 Adopted in more countries than any competitive system
- Pure is used in 47 countries—three times more than the next competitor

04 Wider familiarity among academic communities
- More than 500,000 researcher and faculty member profiles have been created in Pure across 300+ institutions

Source: euroCRIS & OCLC Survey 2018
Pure Modules
Pure Modules

- Award Management Module
- CV Module
- The Pure Portal
- Reporting Module
- Pure Community Module

Core Module

Pure - Unlock your full research potential
Core Module

Manage your data—seamlessly

- Provides full access to your institution’s body of research work
- Imports data directly from internal and external sources using Pure API
- Integrates with industry-leading data sources—Scopus, Web of Science, etc., as well as regional and specialized literature sources
- Validation and deduplication workflows ensure all imported data remains correct, high-quality and up-to-date
- Enables all your data to be interconnected, complete and compliant
Core Module

Improve your internal processes

- Provides your team with notification, messaging, task assignment and content filter tools
- Synchronizes internal data with finance and HR systems
- Centralizes access to all content types—including organizational units, research output, grants, etc.
- Configure user roles and permissions to control individuals’ access to different content
- Authorized users can edit content directly in Pure
Reporting Module

Manage your different stakeholders’ reporting needs
- Customize reports for specific audiences, such as department heads or administrative staff
- Generate reports to verify internal and external compliance

Leverage in-depth data insights
- Identify gaps causing potential data-quality issues
- Switch between aggregated and detailed data views

Easily share data
- Schedule and share reports automatically
- Create your own dashboards for specific audiences and goals
Award Management Module

Manage research project administration

- Supports integration with Funding Institutional to provide you with access to over 19,000 funding opportunities
- Saves researchers time through defined workflows that create, submit and track applications more efficiently
- Strengthens your relationships with funders by ensuring project timeline and compliance needs are always met
- Provides win/loss insights and identifies the most winnable funding opportunities—to generate more grant revenue
- Provides access to example applications funders have previously approved
Award Management Module

Manage application approval

- Approve, track and report on applications throughout their lifecycle
- Administer funds and provide project and collaboration milestones
- Create awards for successful applications
- All project content, application and award information remains interconnected in Pure
The Pure Portal

Share your accomplishments

• Create a holistic view of your institution’s research achievements to attract more students and collaboration partners
• Demonstrate your institution’s research impact to potential funders
• Ensure funders have easy access to relevant compliance information
• Increase your institution’s visibility by highlighting collaboration partner networks online
• Enable your researchers to find experts and build teams that elevate project success
CV Module

Automatically update and keep researchers’ profiles available

- **Create Quickly:** Streamline curriculum vitae (CV) creation by building bibliographies from Pure data—to save researchers time

- **Update Automatically:** Keep CVs up-to-date by automatically importing the most recent publications and re-using information added to Pure for the Pure Portal (e.g. research interests, professional posts, etc.)

- **Export in Standard Layouts:** As required for funder grant applications (e.g. NIH BioSketch), in a variety of citation layouts and file formats
Pure Community Module

Understand the full impact of community research

- Share data within communities of cross-collaborating institutions
- Imports high-quality, validated data directly from institutions
- Allows institutions to choose the data they share
- Identifies top cross-community collaborators
- Interrelates data from multiple institutions to produce complete findings
- Launched or in-development for communities in USA, Netherlands, Italy, Denmark and Australia
Pure helps you **overcome key challenges in the competitive academic landscape** so you can:

- Base your critical research management planning decisions on well-founded data about your current research enterprise
- Set your researchers up for greater success
- Highlight the impact of your institution’s achievements
- Engage new funding partners
- Unlock opportunities to collaborate with other institutions
Questions?

In case of questions after the event, send email to j.garcia@elsevier.com
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Thank you