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Integrating a local CRIS with the PTCRIS synchronisation ecosystem

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• ISCTE–IUL by numbers

  – Established in 1972 as a Public University in Lisbon, Portugal

  – 9 300 students (55% post-graduate)

  – 370 FTE Faculty | 260 staff

  – 4 Schools (in the areas of Sociology, Psychology, Business and Technologies)

  – 22% foreign students | 85 nationalities on campus

  – 8 research units | +32 000 scientific productions
Brief History of our CRIS (Ciência-IUL)

- Multiplicity of (non-integrated) systems
- Duplication of effort while filling out information
- Outdated or missing information
Brief History of our CRIS (Ciência-IUL)

• Consolidation and interoperability effort in the internal systems

• Single point of information source for scientific productions and curriculum
• All these integrations are cool but the developing team hates this!
Why is this bad?

• Although it allows for our CRIS to be interoperable with multiple (internal and external) systems, this individual integration approach is not sustainable

• Clear need for a generic integration mechanism for interoperability and synchronisation of research information systems
How do we fix this?

https://ptcris.pt/
Define a regulatory framework to enable the creation of an ecosystem that connects multiple research management systems such that the researcher only has to deposit the information in one of the connected systems, which will then synchronise the information across the remaining systems.
PTCRISync in a sentence

A uniform and modular mechanism for **synchronising** scientific productions between a local system and a central hub in the ecosystem
PTCRISync in a picture

PTCRIS Ecosystem

Ciência-IUL (CRIS)
National CV Database
Another Local CRIS

PTCRISync

ORCID

Repository
Indexation Database
Funding Agency
Demo time!

Live Demo

(hope I don’t anger the Live Demo Gods)

(if I do, there’s a backup video, don’t worry)
What are the gains?

Well, time is money!

<table>
<thead>
<tr>
<th></th>
<th>Real Gains (1 system, ORCID)</th>
<th>Potential Gains (Number of systems added to the ecosystem)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td><strong>Currently</strong></td>
<td>950 hours</td>
<td>1 900 hours</td>
</tr>
<tr>
<td>19 000 records</td>
<td>14 250 €</td>
<td>28 500 €</td>
</tr>
<tr>
<td><strong>In the Future</strong></td>
<td>1 600 hours</td>
<td>3 200 hours</td>
</tr>
<tr>
<td>32 000 records</td>
<td>24 000 €</td>
<td>48 000 €</td>
</tr>
</tbody>
</table>

**Assumptions:**
- 3 minutes per publication
- 15 € / hour (average income for PT researcher)

**Example:**
19 000 records * 3 minutes * 15 €/hour = 14 250 € (950 hours)
PTCRISync at Github

https://github.com/fccn/PTCRISync/wiki

- Overview of the Framework
- Technical Documentation
- Open-Source Java Library
- PTCRISync as a Service (soon)
- Videos
Thanks

More info and details on the paper:

http://hdl.handle.net/11366/650

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