BEYOND THE TRADITIONAL CRIS

–

APPROACH & USE CASES
INTRODUCTION
Yann Mahé

✓ 15 years in developing innovative solutions to help researchers and their institutions better accessing, analysing and promoting their research activities.

✓ Gf2i (French Think Tank for professional information and knowledge): Board member and co-leader of the Open Science Working Group.


LinkedIn profile here.
Make sense of your research data

**MyScienceWork (MSW)** is an innovative technology company based in France that provides a suite of data solutions for universities, academic libraries, research institutions, publishers, funders....

**Polaris OS** is an innovative open source solution for data management. In all its different forms, it is used to store, manage and showcase contextual metadata for research activities. **Polaris OS** manages entities such as people, organisations, projects, research outputs, grants, contracts... and all the links between them.

**Sirius** is a suite of innovative data science solutions that helps scientists and their institutions to automate tasks to map, manage, analyse, and promote their results to all stakeholders of research.

© MyScienceWork - 2023
Open Science is at the heart of most of our projects. In essence, we know very well the goals of scholarly content industry stakeholders (research organizations, publishers, funders...).

MyScienceWork team is highly involved and trained on Open Science. During the last years, we organised several webinars and interviews of experts on that topic. For more information, please check our YouTube channel.

- Open source: GitHub
- Permissive Licence: MIT
- Team
  - 6 developers
  - MSW expert team of Data Scientists
Classic CRIS goals

Metadata structure
- Centralized research contextual metadata (people, organisations, projects, outputs...)
- Automate metadata harvesting and updating

Analytical purposes
- Understand its own research activities
- Nurturing its research strategy (invest., staffing...)

Institutional visibility
- Tech transfer
- Evaluation, ranking
- Media visibility
(4) Conclusions: Our empirical results reveal a transformation of open repositories from self-archiving and direct scientific communication towards research information system.
CRIS main challenges

- A platform able to store, manage and exchange all metadata related to research activities

- A platform based on the experiences of researchers and research managers (metadata, workflows, forms flexibility...)

- A platform that allows admin and RIS managers to take back the control of the platform without advanced IT skills

- A modular platform able to take into consideration the specificities of every disciplines, countries, organisations and functions (Grants, CRIS, Research Outputs Repository, Peer Reviews...)
BEYOND CRIS – USE CASES
# Why Polaris OS?

## Open innovative technologies
- Data oriented technologies
- UX/UI: Reactive & Responsive
- High level of interoperability

## Cost effective
- Less dev. needed
- Infrastructure
- Easy dev. environment

## Low code
- Highly configurable
- Less IT Expertise (focus on added value feature development)
- Goal: no code solution

## Flexible and sustainable
- Data models, forms, workflows...
- Multiple application / Highly customizable
- Sustainable ID

© MyScienceWork - 2023
**Use case – Peer review system**

**Context:** as a research institution, I need a peer review system for the two journals we publish with specific workflows and criteria.

**Solution:**

- Selection of your reviewers (internal and/or external)
- Double/single blind or open peer review
- Reviewers complete their reports online
Use case – Plagiarism

Context: researcher can submit articles within the RIS and a verification of plagiarism can be asked by the admin. research manager

Solution:

- Interoperability with existing plagiarism platform. e.g: Ithenticate
- Follow up the status of the plagiarism process advancement
- Get the full report automatically uploaded in the RIS

Plagiarism check

Waiting for editor to review report

Related project

2023-031 Test MGU

Version to be checked

method-system-fast-line-electro-optical-detection-wafer-defects.pdf

Admin Admin - 14/04/2023 18:44:44

Plagiarism check report *

Select next step
Context: a researcher asks reimbursement of conference expenses

Solution:
- Online reimbursement demand
- Several level of approvals
- Following up the status of the reimbursement
- Checking proof of expenses through file upload
Use case – Bonus calculation

Context: as a research institution, I give bonus to my researchers depending the number of publications they did during a certain period of time and the journals they published in.

Solution:
- Easy access to publications information
- Online calculation of the bonus based on predefined criteria
- Follow up: alerts, status...
Use case – Contract management

Context: management of contracts related to research activities such as research project contracts, partnerships... has now an important place in academic institutions.

Solution:

- Get the full view of all ongoing and terminated contracts
- Automate the follow up of contracts thanks to alert feature
- Search for contracts through filters: dates, types, conditions, stakeholders...
Use case – Grant Management

Context: as a research institution that also have funder missions, I need to have a grant management module in my RIS.

Solution:

- All grant management platform features – e.g: call for projects, submission process, online reviews, scientific board meetings...

- Links between entities: research outputs, financial information, projects...
CONCLUSION
Conclusion – Flexibility & Adaptability

- Storing, managing and analysing contextual research activities metadata are crucial but **not sufficient**

- **Admin tasks** related to research activities must be **handled by CRIS**

- **Specificities** of countries, research fields and researcher communities **must be part of CRIS customisation**

- **CRIS must digitally translate users’ offline practices**

- **CRIS must simplify** as much as possible the administrative tasks related to research activities
QUESTIONS?

Yann Mahé
Managing Director
T: +33(0)6 03 43 64 96
@: yann.mahe@mysciencework.com
Skype: ymahe7