A conceptual model for building publishing services on top of a distributed network of repositories

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Why?
Current Scholarly Communication System

Not Sustainable
Equititative/Inclusive
Innovative

[Image of a checklist marked as 'Poor']
350 years of the academic journal!
Open Access Solution
Gold and Green OA

**Gold OA**
- >13000 OA journals
- “Push” for APC (Article Processing Charges) based publishing

**Green OA**
- > 4000 OA repositories
- National and regional networks established (OpenAIRE, LA Referencia, etc.)
Enters Pubfair...
Enters PubFAIR...

• A conceptual model for building publishing services on top of a distributed network of repositories
What is PubFAIR?

• An open publishing services framework, which aims to enrich repositories with a layer of services for the quality assurance, dissemination and discovery of a range of research outputs (including preprints, data and software).

• PubFAIR enables FAIR research objects in two senses:
PubFAIR and Next Generation Repositories

• The PubFAIR concept builds upon and aims to implement major elements of COAR’s vision for Next Generation Repositories

http://ngr.coar-repositories.org/
Two Critical Elements of the NGR Vision

- Common Behaviours of Repositories (Interoperability)
- Value Added Services on top of resources in repositories
PubFAIR Context

• The idea to overlay publishing functionalities upon repositories or preprint servers is not new...

• Already in 1994, arXiv’s creator Alan Ginsparg saw the potential for such preprint servers to disrupt scholarly communications, imagining

  “a relatively complete raw archive unfettered by any unnecessary delays in availability”, on top of which “[a]ny type of information could be overlayed … and maintained by any third parties”, including tools for validation, filtering and communication

(Ginsparg, 1994)
An idea whose time has come?

• Next generation repositories
• Rise of preprints
• FAIR data and outputs beyond publications
• Funder policy pushes
• Dissatisfaction with costs, commercial players and the pace of change
• Consortial models for OA publishing with no author-facing fees
## Stakeholders and (preliminary) Use Cases

<table>
<thead>
<tr>
<th>As a ...</th>
<th>I want to ...</th>
<th>In order to ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repository manager</td>
<td>... have the research outputs hosted in my repository reviewed and have information about this visible within the repository</td>
<td>... increase trust in the reliability of our repository content and create added value</td>
</tr>
<tr>
<td>Scholarly society</td>
<td>... have a review and publishing system that is responsive to my community needs</td>
<td>... create independent brand journals and data collections and facilitate a researcher-centered transition to Open Access</td>
</tr>
<tr>
<td>Editorial manager</td>
<td>... have an easy-to-use review and publishing system</td>
<td>... streamline the publishing process and facilitate the interaction with authors and reviewer.</td>
</tr>
<tr>
<td>Funder</td>
<td>... create a quality-proven and low-cost channel for data, code, reports and translational articles</td>
<td>... show the results of funded research and enable reuse in different contexts</td>
</tr>
<tr>
<td>Researcher (in Economics)</td>
<td>... compile peer-reviewed data on social inequality in a peer-reviewed data playlist</td>
<td>... enable other researchers to reuse for publications and replications</td>
</tr>
</tbody>
</table>
Pubfair Architecture
PubFAIR Architecture – Repository Layer
PubFAIR Architecture - Publishing layer

Publishing layer
- Publishing workflow management
- Support publishing all scientific products
- Recommendations

PubFAIR Platform (OJS)
- employ
- Open peer-review
- Intelligent search
- Social networking

Interoperability layer
connects

Repository layer
- DSpace, Invenio PubFAIR compliant
- Data
- Preprints
- Software
- Other products
- Other PubFAIR-compliant repositories
PubFAIR Architecture - Dissemination Channels
Dissemination Channels

• **Community channels:** Analogous to current journals, community dissemination channels will be maintained by communities of interest (e.g., according to disciplinary focus).

• **Institutional channels:** Institutions, including research funding and performing organisations, that wish to enable Open Access channels for their researchers can set up and maintain their own channels.

• **Individual channels:** Individual users can curate content, bringing together mixtures of research objects according to, e.g., research theme. Users can then follow each other to receive alerts to each other’s playlists.
Current Status and Future Work

• Presenting and developing the PubFAIR concept

• Trying to identify opportunities and funding for piloting the conceptual model
Thank you!

Questions?