









Advancing Hyku End of Project Update

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advancinghyku.io https://github.com/samvera-labs/AdvancingHyku



Open Repositories, 7 June 2022

A Samvera Primer

Samvera is...

a grass-roots, open-source community of library and cultural heritage professionals, including repository managers, developers, metadata experts, content owners and users, working together to create best-in-class digital repository solutions.

Hyrax is...

a locally deployable digital repository structure that requires expertise in system administration as well as Ruby and Rails development to set up, operate and maintain. When customized, the need for an ongoing commitment to maintain and migrate the repository, its contents and its customizations is heightened.

Hyku is...

- Samvera's digital repository application developed with an orientation toward the provision of hosted services;
- based on Hyrax, offering an easy-to-install, easy-to-configure, feature-rich solution supporting next-generation web technologies;
- at release Hyku 4.0 as of May 2022.

Advancing Hyku: Open Source Institutional Repository Platform Development

The project WAS...

- funded by a \$1M grant from Arcadia.
- from October 2019 March 2022
- supporting the growth of open access through institutional repositories by introducing significant structural improvements and new features to the Samvera Community's Hyku Institutional Repository platform.

The project DID NOT...

- focus on building new institutional repository solutions.
- redirect resources from Hyrax codebase.
- claim that institutional repository
 population and use is the singular path
 to the future of open and sustainable
 scholarly communication.

We Advanced Hyku, and You Can, too

Project deliverables introduced significant structural improvements and new features to the Samvera Community's Hyku platform. The following features are all available in community code. Our "Adoption Path" living document gives technical specifications.

- Cross tenant search
- 2. Auto-expiration of embargoes and leases
- 3. DOI minting in deposit form (DataCite integration)
- Auto-fill metadata fields with DOI in a single record (both DataCite and Crossref)
- 5. Auto-population of records with bulk DOIs through Unpaywall
- 6. Auto-population of records with bulk /list of ORCID IDs
- 7. Mint DOIs while importing through Bulkrax
- 8. RIS (Research Information Systems) citation related export
- 9. Integration with ORCID, author identifier (WP3)
- 10. In-browser PDF display and annotation through Hypothes.is

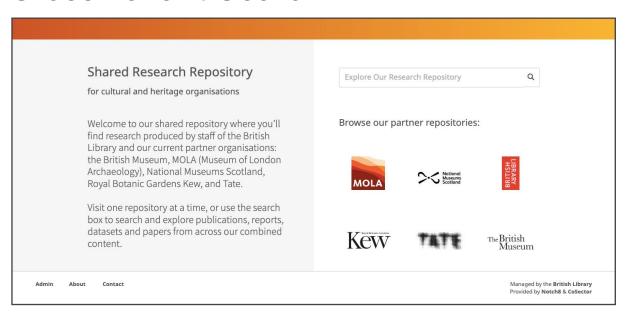






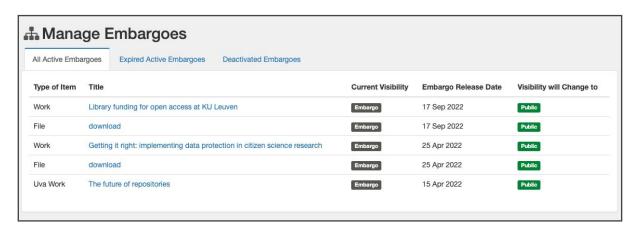


1. Cross Tenant Search



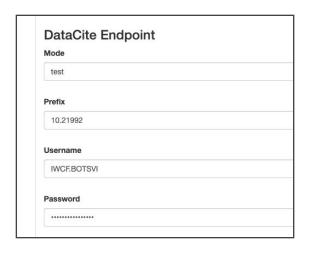
Shared search interface for live British Library customers (in Notch8's UI). As a multi-tenant capable platform, Hyku is ideally suited to use in consortia or by other groups of institutions. Ubiquity Press initially developed a shared search layer for the British Library, and it was released in May 2022 with Hyku 4.

2. Auto-expiration of embargoes and leases



Embargo management page in standard Hyku dashboard (no change by UP to the interface, but embargoes/leases now auto-expire when date is reached). Previously Hyku supported the entry of embargo and lease dates for content, but did not automatically change the status of works at those dates. This feature ensures that embargoed and leased content is reliably made available and removed from public view, respectively, as expected by users.

3. Toggle DOI minting in deposit form (DataCite integration)

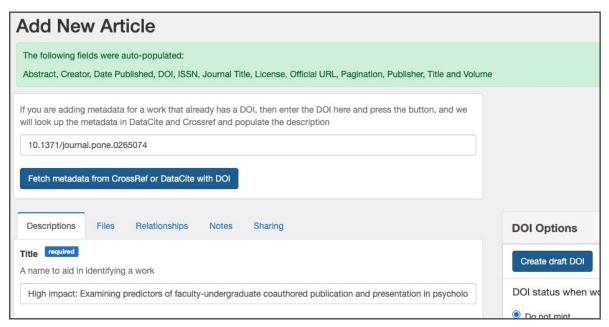




Feature switch in a standard Hyku dashboard to enable/disable ability to mint DOIs.

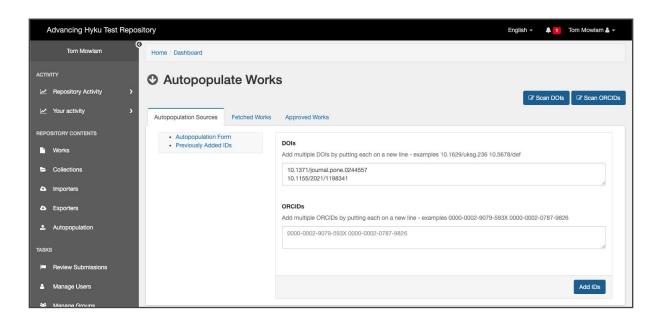
Feature adding DataCite DOIs credentials added to a tenant 'edit' page in a standard Hyku instance admin interface.

4. Auto-fill metadata fields with DOI in a single record



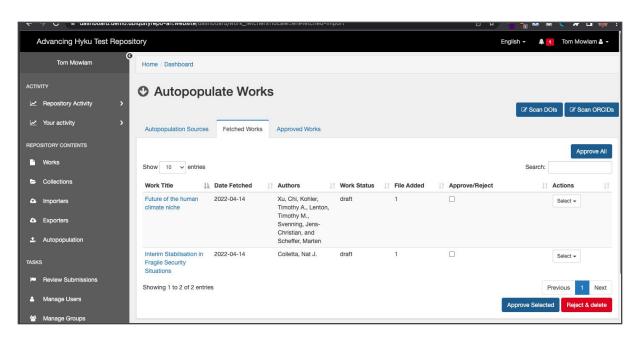
Portion of single Hyku tenant deposit form with message showing fields have been auto-populated into the form from Crossref (DataCite also supported), after pressing 'fetch metadata' button.

5. Auto-population of records with bulk DOIs through Unpaywall



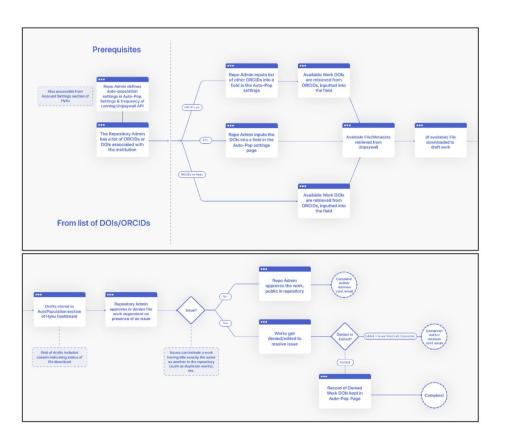
Interface to new auto-population tool in the standard Hyku dashboard, with 2 DOIs (one PLoS, one Hindawi) entered into the form.

5. Auto-population of records with bulk DOIs (result)



Result of 'fetch' process in the standard Hyku dashboard, with two works with PDF files ready for review and approval.

Bulk import and auto-population of records: 6. ORCID and 7. DOI



Workflows for auto-populating bulk records upon import with ORCID IDs and DOI assignments..

8. RIS (Research Information Systems) citation export



```
TY - GEN
T1 - The future of repositories

DO - https://doi.org/10.21992/xn20-3s27

AU - Doe, Jane
AB - This is a test deposit, demonstrating the DOI minting feature
KW - testing
KW - DOIs
DA - 2022-1-1
PY - 2022
PB - Unseen University Press
ER -
```

Portion of standard Hyku UI work landing page showing RIS download link.

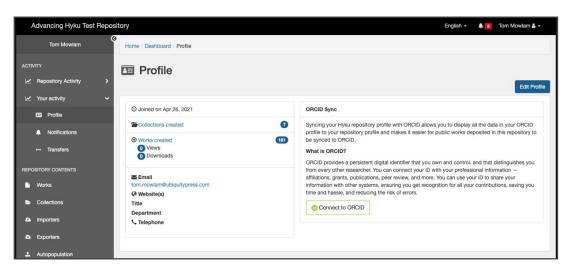
RIS output for a test work.

This feature enables users to download citations for works in Hyku in the common RIS format. This is a standard repository feature that encourages correct citation using a work's DOI, and thus makes it possible to track the citation.

9. Integration with ORCID, author identifier

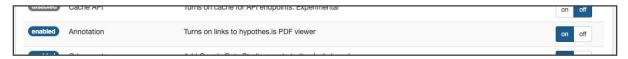


Feature switch added to the standard Hyku dashboard to enable/disable ORCID synchronisation interface.



Standard Hyku profile page extended with ORCID connection settings.

10. In-browser PDF display and annotation through Hypothes.is



Feature switch added to the standard Hyku dashboard to enable/disable PDF annotation.

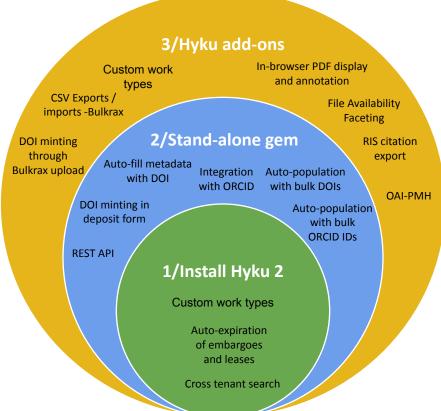


Portion of standard Hyku work page showing new 'Read and annotate' option for PDF files.

Adoption path chart with options

Shared Community Document: Features and Adoption Paths

- Option 1. Install Hyku (version listed) or later (what is the community code)
- 2. Option 2: Available in stand-alone gem (no need to install Hyku addons) (add a gem)
- 3. Option 3. Install Advancing Hyku-addons to your version of Hyku (add add-ons)
- Want it all at once? Option 4 is to work with a service provider on a hosted version of Hyku (inclusive of Options 1 through 3).



Adoption Path

Adoption Path

for institutions to adopt the latest version (or specific features) of "Advanced Hyku"

Option 1. Install Hyku (version listed) or later

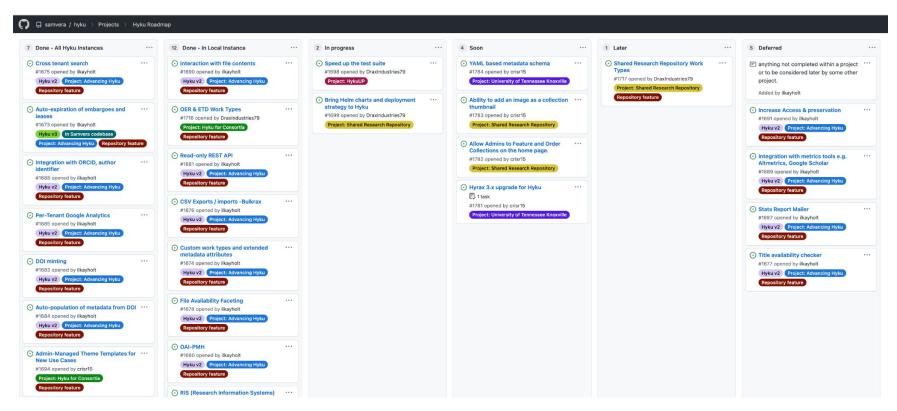
Option 2: Available in stand-alone gem (no need to install Hyku addons)

Option 3. Install Advancing Hyku-addons to your version of Hyku

Want it all at once? Option 4 is to work with UP on a hosted version of Hyku (inclusive of Options 1 through 3).

Feature	Status	Description	How to get it in your repository instance
Cross tenant search (WP0) Demo: WP0 Shared Search Layer (Edward lye, September 2021)	In Hyku v. 2 Dec 10, 2021	As a service provider/ repository manager, I would like to provide a meta-search in order to search across all tenant repositories within the consortium.	Option 1 Install Hyku y. 2 later Pull request is available on Samvera GitHub
Auto-expiration of embargoes and leases (WP0)	In Hyku v. 3 Apr 13, 2021	As a repository manager, I would like the system to change the visibility of a work when embargoes and leases have expired to avoid looking for and manually	Option 1 Install Hyku v. 3 or later

Community engagement: Hyku Roadmap



https://github.com/samvera/hyku/projects/1

Documentation Map

Code:

- https://github.com/samvera/hyku/ and
- https://github.com/ubiquitypress/hyku_addons/

Developer documentation:

- https://github.com/ubiquitypress/hyku_addons/wiki
- https://github.com/samvera/hyku/releases/tag/v4.0.0
- https://bit.ly/AH_AdoptionPathCharth

Marketing/outreach:

- https://advancinghyku.io/
- https://samvera-labs.github.io/AdvancingHyku/ (archive)





Thank you! Q&A

