# DOIng more with Hyrax

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### What is a DOI?



- Resolvable via <a href="https://doi.org">https://doi.org</a>
- Unique prefix 10.xxxx assigned and managed by registration agency
- Many registration agencies for different knowledge domains
- Register a DOI with the object's url and metadata
- Metadata schemas vary among registration agencies
- Some DOIs have a status (draft vs. published)
- Noteable registration agencies:





### Previous work on DOIs

Samvera EZID to DataCite DOI WG

<u>Hydra-remote\_identifier</u>

**UCrate** (Hyrax-based app that uses a branch of the above)

Mahonia (Hyrax-based app)

<u>Libra2</u> (Sufia-based app)

And many more

# Introducing Hyrax-doi

#### History

- Feature spec and workflows originally developed by Ubiquity Press for British Library's Hyku application (Shared Research Repository)
- Extracted as part of Advancing Hyku alignment work

#### Use cases

- Create DOI for a work
- Mint a Draft DOI before work has been deposited
- Update DOI metadata when work is updated
- Autofill the deposit form with metadata from a DOI

# **New Hyrax Infrastructure**

Hyrax infrastructure for external identifiers ported from Mahonia (available in Hyrax 2.9+)

- Dispatcher assigns registered identifier to a given object
- Registrar handles communication with external identifier service
- Builder constructs identifier to submit to external identifier service

#### Configure in Hyrax initializer:

```
config.identifier_registrars = { datacite: Hyrax::DOI::DataCiteRegistrar }
```

Then mint and assign an identifier to a work:

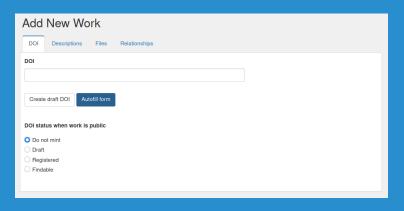
```
Hyrax::Identifier::Dispatcher.for(:datacite).assign for!(object: work)
```

## Hyrax-doi Features

- Enabled per work-type
- DOI tab on deposit form
- DOIs created or updated on work save (using a background job)
- Autofill form using **bolognese** gem which can read from many registrars
- Work-type metadata crosswalking to DOI metadata also through bolognese

#### DataCite specific features (when enabled):

- DOI statuses including draft
- Form validation (warning if not all required DataCite properties present)



### Feedback and Future

#### Would like adopters and feedback on:

- Default metadata crosswalking
- UI/UX on deposit form
- More registrar implementations
- Code abstractions and choices

#### Next steps:

- Hyku integration (included in <u>Hyku roadmap</u>)
- Admin settings for enabling/disabling and registrar configuration



Hyrax-doi on GitHub



**Shared Research Repository** 





Advancing Hyku Project