

DOIs and Research Data in RUcore

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For Discussion Today:

- An Update on RUcore
- Object Architecture and DOIs in RUcore
- DataCite and DOI Metadata Indexing
- DOIs at the file level

RUcore Data Repository – Progress

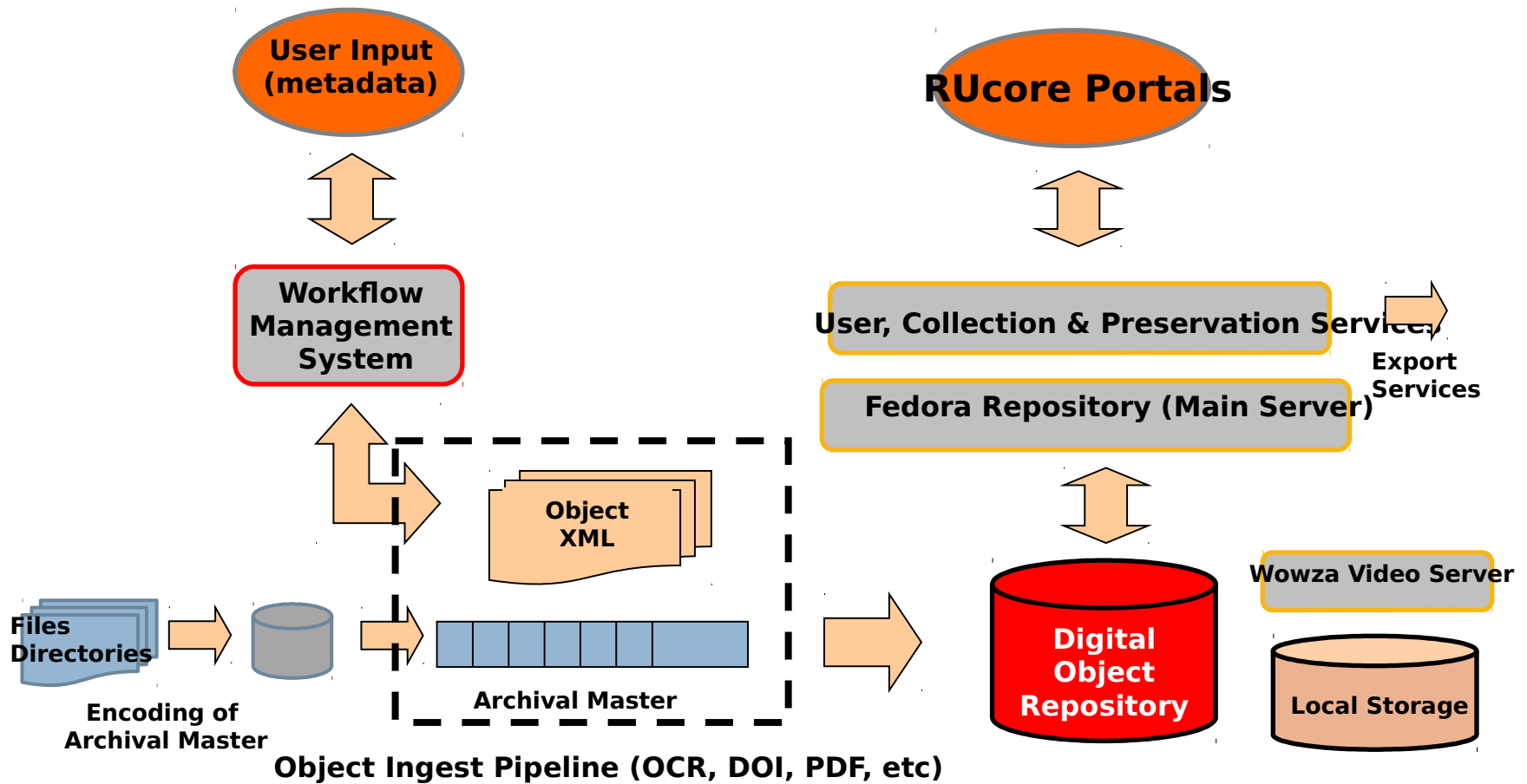
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- The Research Data Portal – recent additions
 - Ingest of multi-level directories as submitted by the researcher
 - Use of DOIs as persistent identifiers for all resources (Fedora objects)
 - User accounts for all researchers, capture ORCID id if available

- Research Data Working Group
 - Established group including library liaisons
 - The group provides support for grants and NSF Data

RUcore Architecture Overview

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Background on DOIs

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□ DOIs for RUcore

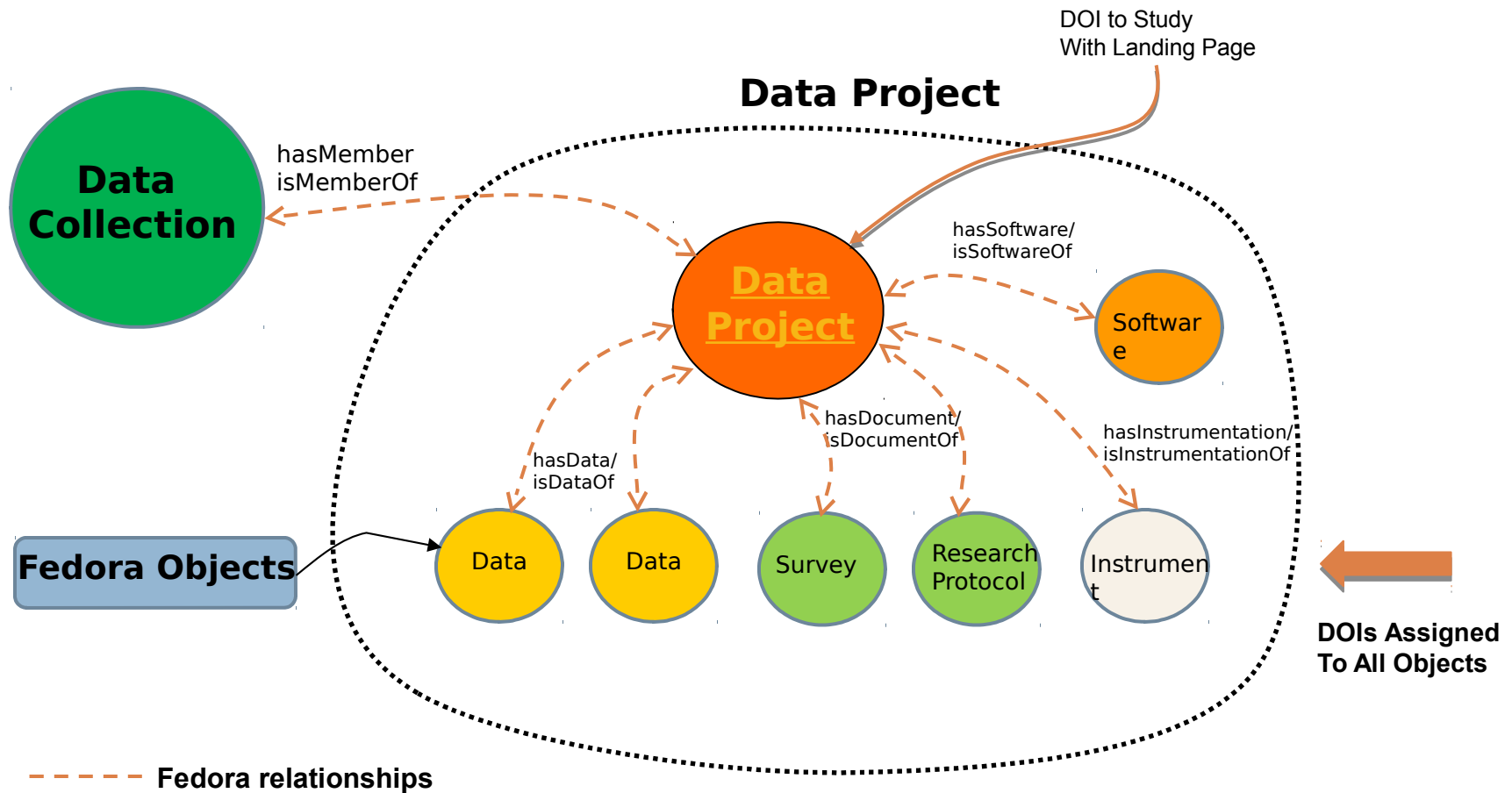
- The DOI is a persistent digital identifier for any object of intellectual property.
- The DOI format - a name prefix obtained from a Registration Agency (RA) and a suffix from the publishing organization
 - DataCite/EZID DOIs for data, e.g. 10.4231/D3QJ77X57
 - CrossRef DOIs for journals, e.g. 10.1016/j.acalib.2010.08.004

□ EZID

- A service from California Digital Library to enable one to create DOIs and ARKs
- EZID can be used for all types of objects.
- EZID is available through a web form and an API with three basic operations: put (create), get (view), and post (modify)

RUcore Data Project and DOI Assignment

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Microcitation¹ and DOIs at the File Level?

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□ RUcore Conventions

- The persistent identifier (DOI) is assigned at the Fedora object level
- An object can be a single dataset or can include many related datasets or other types of files

□ Why DOIs at the file level?

- Researchers have a more fine-grained citation capability
- Precision in citing specific resources such as custom software
- More accuracy and elimination of errors in citing
- Encourage data deposit and nanopublication²

¹ Also micro-attribution

² Smallest unit of publishable information

Provide citation credit

Micro-citation and Implementation

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Questions

- A compound object has many files. Do all files receive a DOI?
 - Filter by Content Model (dataset, document, article, etc.)
 - See, for example, the [Roman Coins Portal](#)

- Do all file-level DOIs have a landing page?

- Can we do even finer-grained linking, e.g. a subset of a dataset (only a few variables), a paragraph in a book, a video clip, etc?

Thanks for Listening

Questions?