

An OAI-ORE Aggregation for the National Virtual Observatory

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Presentation Outline

- Some Background
- Motivation for the work described here
- Illustrate simplified current workflow
- OAI-ORE background
- Describe a possible ORE-enabled solution
- Present rough model of a real article
- Future directions

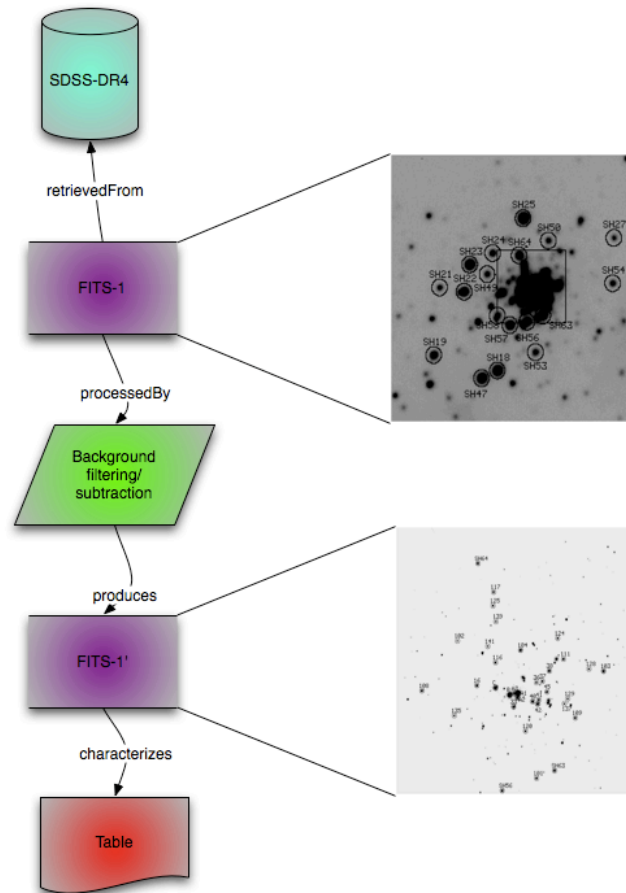
Project Background

- JHU Sheridan Libraries teaming with the NVO and the AAS to capture published data
- Support curation and entrée to preservation
- Stable location for data the journals are not prepared to store permanently
- Provide platform for data services
- Funding from IMLS and Microsoft

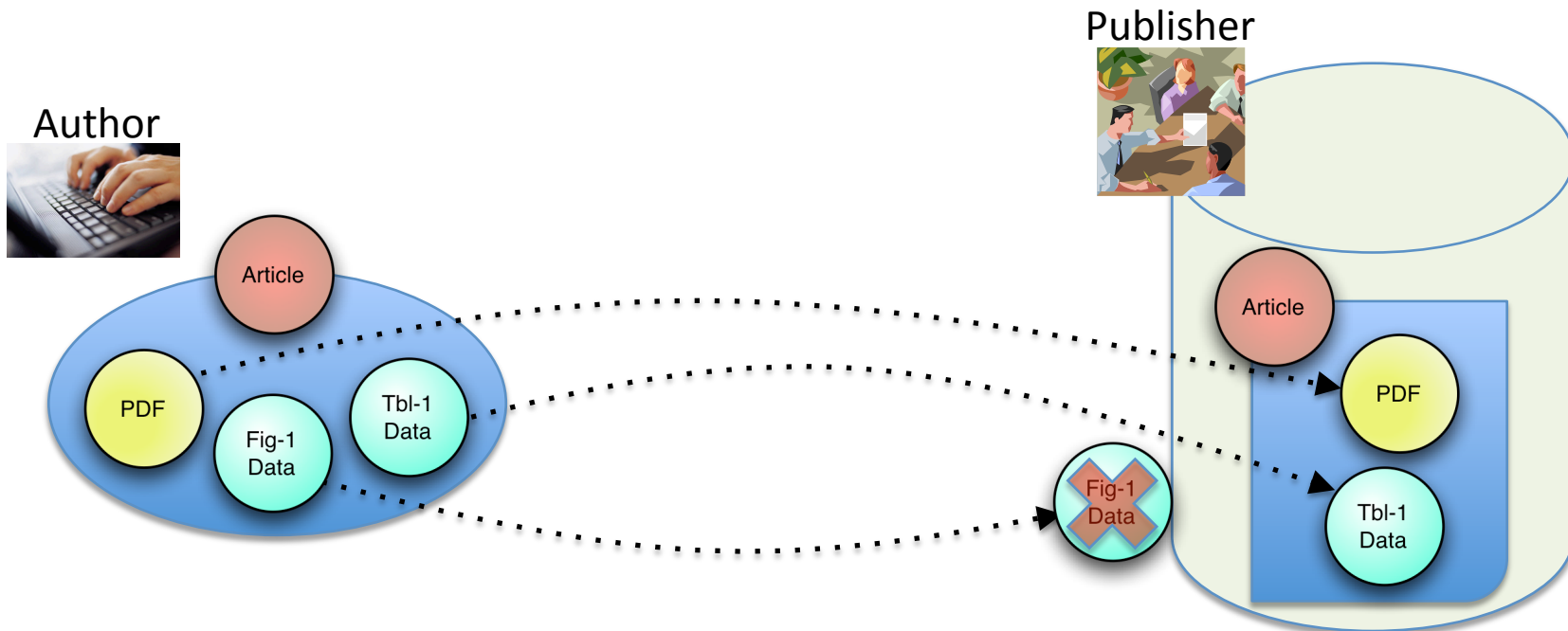
Motivation

- Mandate to integrate data capture with extant workflow for multiple journals
- Need to capture relationships with resources which are not part of a particular article
- Desire to share risk

Sample Astronomical Data



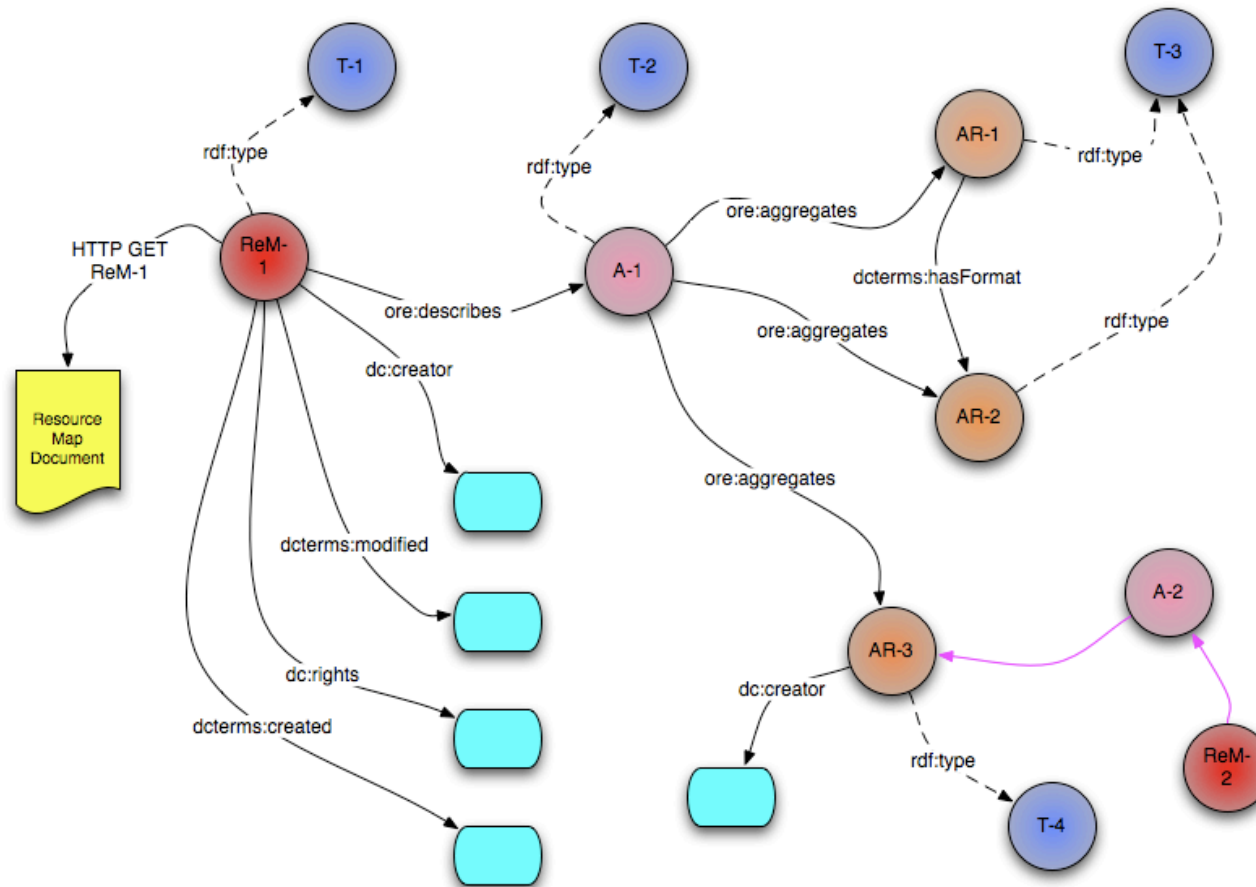
Current Submission Workflow



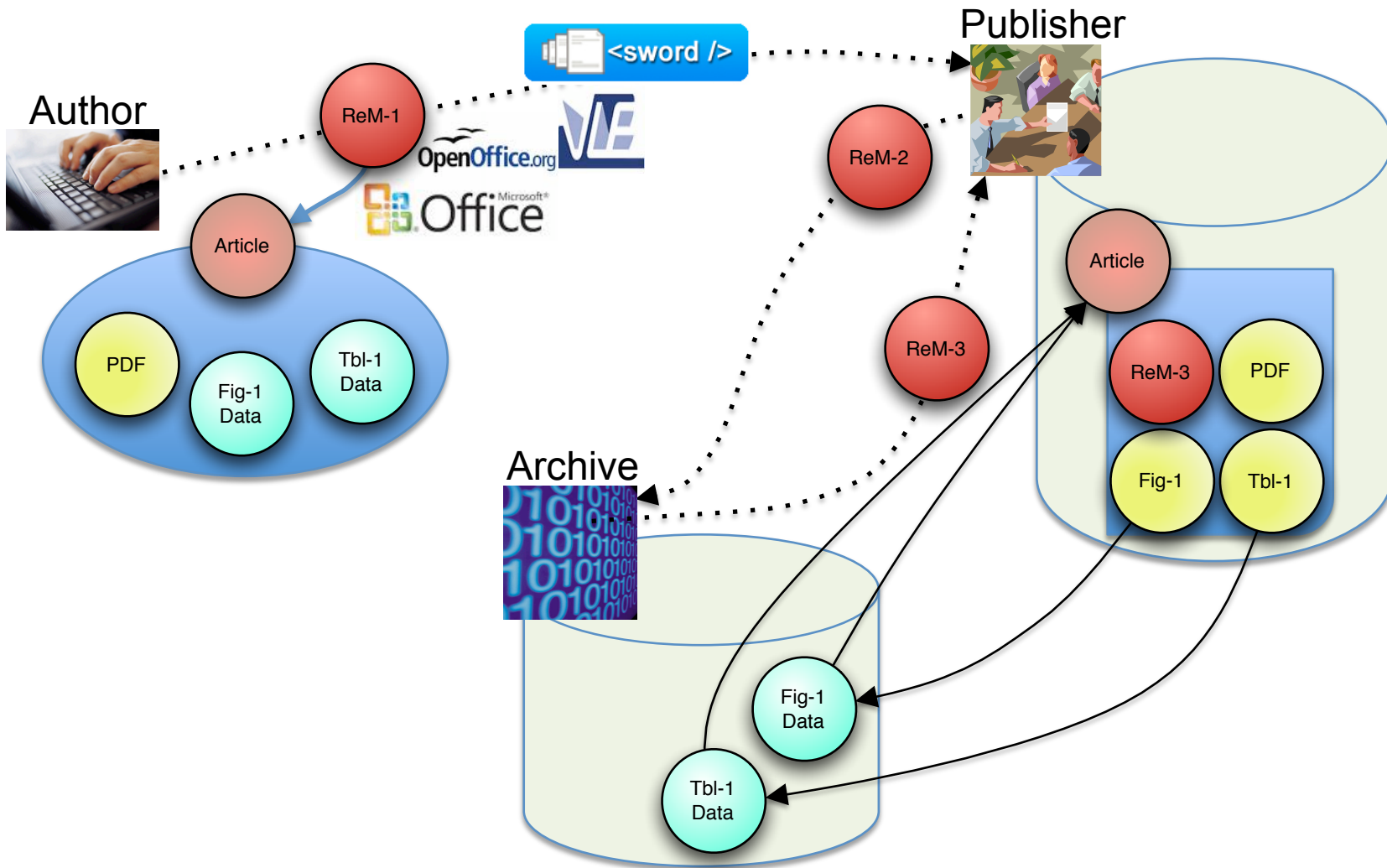
OAI-ORE

- Public alpha release December 2007
- Utilizes Web architecture
- “Used to instantiate, describe and identify aggregations of web resources”
- Abstract Data Model, Vocabulary, Resource Map Profile of Atom

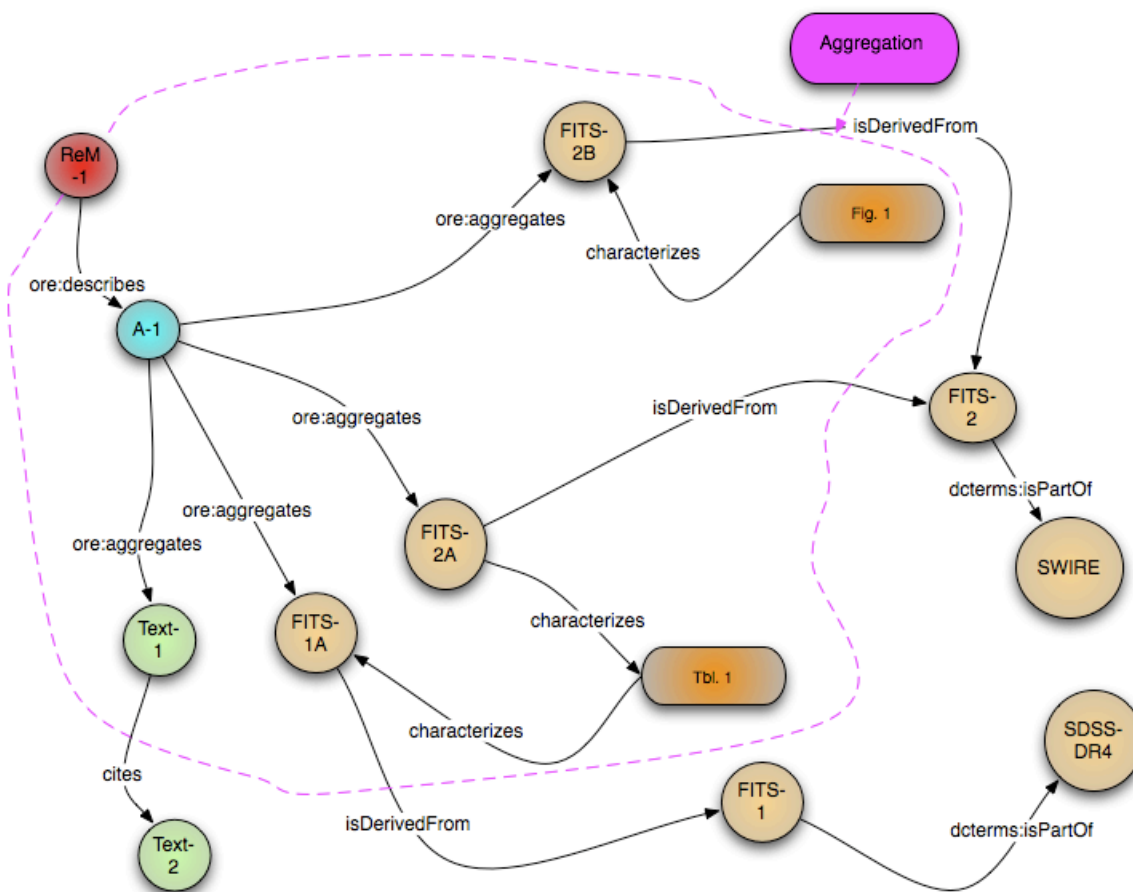
OAI-ORE Basic Model



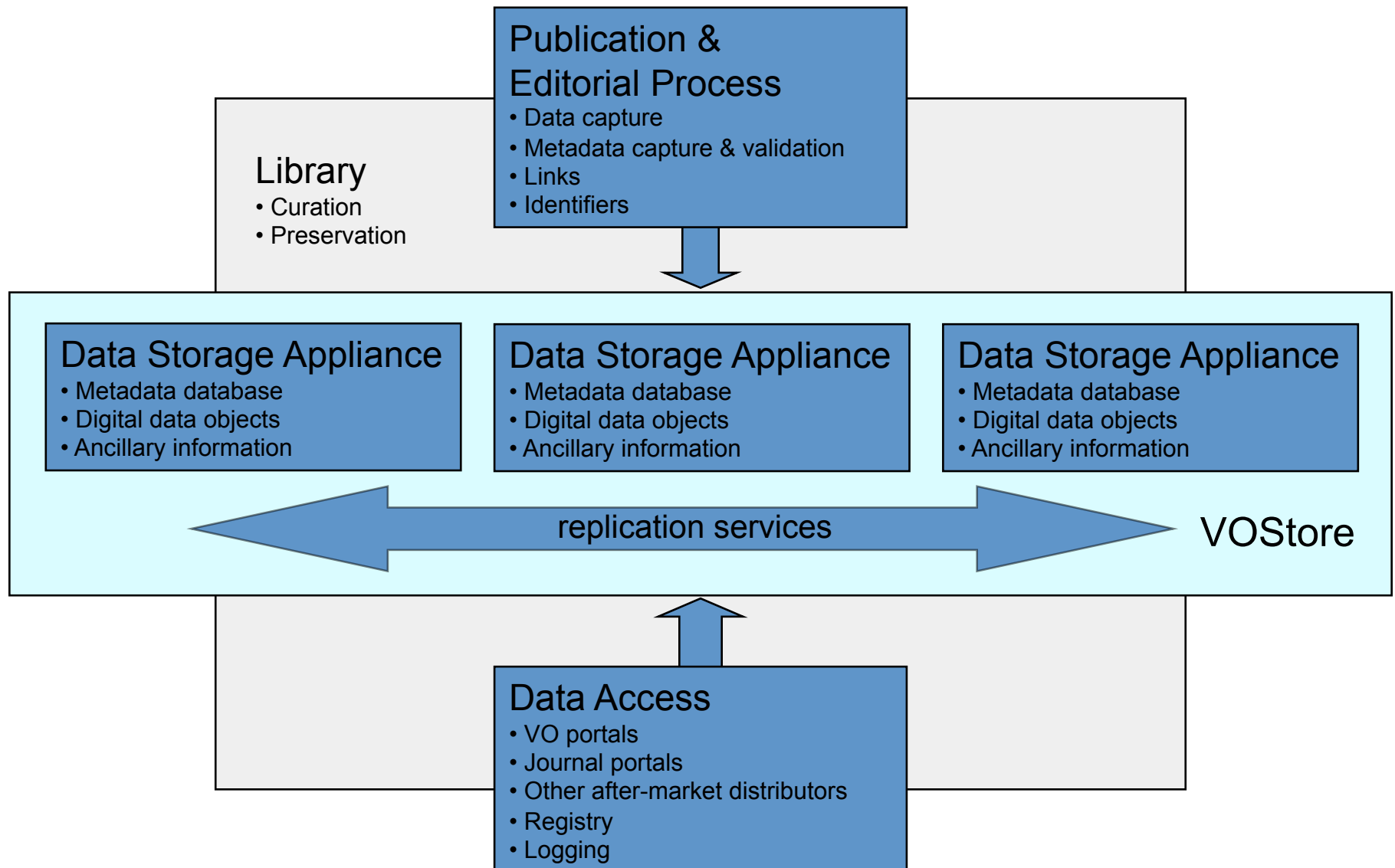
A More Desirable Workflow



Model of Existing Article



Components: Data Driven Scholarship



Future Directions

- Library can provide a common infrastructure
- Investigate data curation in other scientific disciplines
- Gather input from scholarly societies
- Digital humanities