

# Using iRODS to Preserve and Publish a Dataverse Archive

Mason Chua\*    Antoine de Torcy†    Jewel H. Ward‡  
Jonathan Crabtree\*

The University of North Carolina at Chapel Hill

iRODS User Meeting  
March 25, 2010

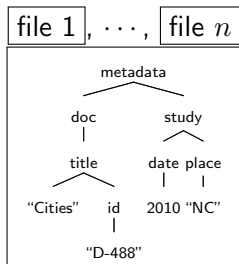
---

\*H.W. Odum Institute for Research in Social Science

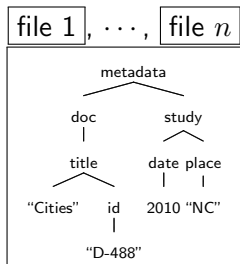
†Data Intensive Cyber Environments Center

‡School of Information and Library Science

# Serializing an example Dataverse study

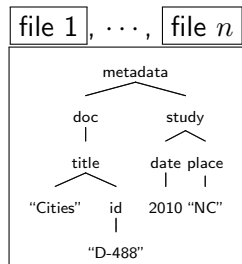


# Serializing an example Dataverse study

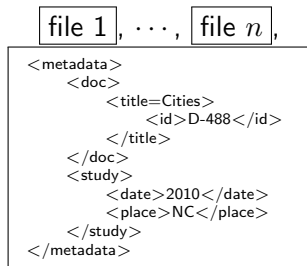


OAI-PMH

# Serializing an example Dataverse study



OAI-PMH



# Preserving the serialized study in iRODS

file 1, ..., file n,

```
<metadata>
  <doc>
    <title=Cities>
      <id>D-488</id>
    </title>
  </doc>
  <study>
    <date>2010</date>
    <place>NC</place>
  </study>
</metadata>
```

input  
→

an iRODS collection

file 1

⋮

file n

```
<metadata>
  <doc>
    <title=Cities>
      <id>D-488</id>
    </title>
  </doc>
  <study>
    <date>2010</date>
    <place>NC</place>
  </study>
</metadata>
```

# Ingesting the study's metadata into iCAT to allow keyword searches (part 1 of 2)

```
<metadata>
  <doc>
    <title=Cities>
      <id>D-488</id>
    </title>
  </doc>
  <study>
    <date>2010</date>
    <place>NC</place>
  </study>
</metadata>
```

msiXsltApply

```
<metadata>
  <AVU>
    <attribute>title</attribute>
    <value>Cities</value>
    <unit></unit>
  </AVU>
  <AVU>
    <attribute>id</attribute>
    <value>D-488</value>
    <unit></unit>
  </AVU>
  <AVU>
    <attribute>date</attribute>
    <value>2010</value>
    <unit></unit>
  </AVU>
  :
  :
</metadata>
```

# Ingesting the study's metadata into iCAT to allow keyword searches (part 2 of 2)

msiLoadMetadataFromXml

```
<metadata>
  <AVU>
    <attribute>title</attribute>
    <value>Cities</value>
    <unit></unit>
  </AVU>
  <AVU>
    <attribute>id</attribute>
    <value>D-488</value>
    <unit></unit>
  </AVU>
  <AVU>
    <attribute>date</attribute>
    <value>2010</value>
    <unit></unit>
  </AVU>
  :
  :
</metadata>
```

