TODAY CROSSREF, TOMORROW THE WORLD: MANAGING XML CROSSWALKS WITH ALTOVA MAPFORCE

JEFFREY M. MORTIMORE
GEORGIA SOUTHERN UNIVERSITY
AGENDA

- **Background:** IR Services @ Georgia Southern

- **Growing Challenge:** Managing Metadata Transformations

- **Our Current Solution:** Altoa Mapforce
  - Software Overview
  - DC → DOAJ Crosswalk

- **Next Steps & Brainstorming**
BACKGROUND: IR SERVICES @ GEORGIA SOUTHERN

Georgia Southern University

• 26,400 students
• 141 degree programs
• 3 Campuses – Statesboro, Savannah, & Hinesville

IR Services

• 28 Conferences & 13 Journals
• 560+ Scholarly Profiles
• 50,600+ artifacts
• 2.9M Downloads
• 3 FTE Staff
GROWING CHALLENGE: METADATA TRANSFORMATIONS

• EXPANDING REACH AND IMPACT REQUIRES EXTERNALIZING YOUR METADATA
  • DOI Registration (Crossref)
  • Article-level indexing (DOAJ & other 3rd-Party Indexes)
  • ETD cataloging, etc...

• Crosswalks require XML skills (especially given ability to customize fields)

• Of course, we just happen to be short on XML expertise!

• Repository Managers need tools to Simplify and streamline the process.
CURRENT SOLUTION: ALTOVA MAPFORCE

- **Intuitive graphical mapping tool for converting any structured data, including OAI-PMH, into any scheme without specialized knowledge of XML or XSLT.**

- **Has the ability to derive the XML scheme from any example file.**

- **Outputs XSL style sheets in either XSLT1 or XSLT2, supporting most transformation workflows (e.g., Notepad++ with XML tools).**

- **One drawback: $$$$**
CURRENT SOLUTION: ALTOVA MAPFORCE
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Function library for mapping.

Function adds a new constant and combines two source fields into a single output field.
CURRENT SOLUTION: ALTOVA MAPFORCE

Navigator for large maps.
CURRENT SOLUTION: ALTOVA MAPFORCE

Displays XSLT in real time.

Displays example output.
DIGITAL COMMONS → DOAJ NATIVE XML

Single issue XML file used to derive source scheme.

DOAJ Native XML file used as target scheme.
Digital Commons uses two fields for last name and first name.

**Concat** function with " " constant inserted.

DOAJ uses one field in "FirstName Lastname" format.
Some functions require XSLT2, which may impact workflow.

First **Replace** function removes "<p>".

Second **Replace** function removes "</p>".
The image shows a computer screen with a web page open, displaying a code editor. The code is written in XML, specifically for DOAJ Native XML, which is a metadata format used for managing and publishing academic journals. The code snippet includes elements such as publisher, journal title, title, and authors, typical of metadata used in academic publishing. The visual layout is a typical interface for developers or researchers working with XML data, focusing on syntax and structure rather than a narrative text.
NEXT STEPS & BRAINSTORMING

Thank You!

JEFFREY M. MORTIMORE
jmortimore@georgiasouthern.edu