

Integrating Digital Libraries and Traditional Libraries: Collaborating for Sustainability

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iLumina Digital Library

- One of 356 collections of the National Science Digital Library (NSDL)
- •Features 1600 digital learning objects for undergraduate education in science and mathematics
- •Funded by the National Science Foundation Digital Library Initiative Phase II (NSF DLI-II)
- Created by scientists using IMS-compliant metadata in XML

Sustainability Issues

- •80-88% of NSDL projects are university-based
- Libraries' traditional roles are adaptable to the digital environment
 - Innovative use of technology
 - Standards of bibliographic description
 Philosophy of open access

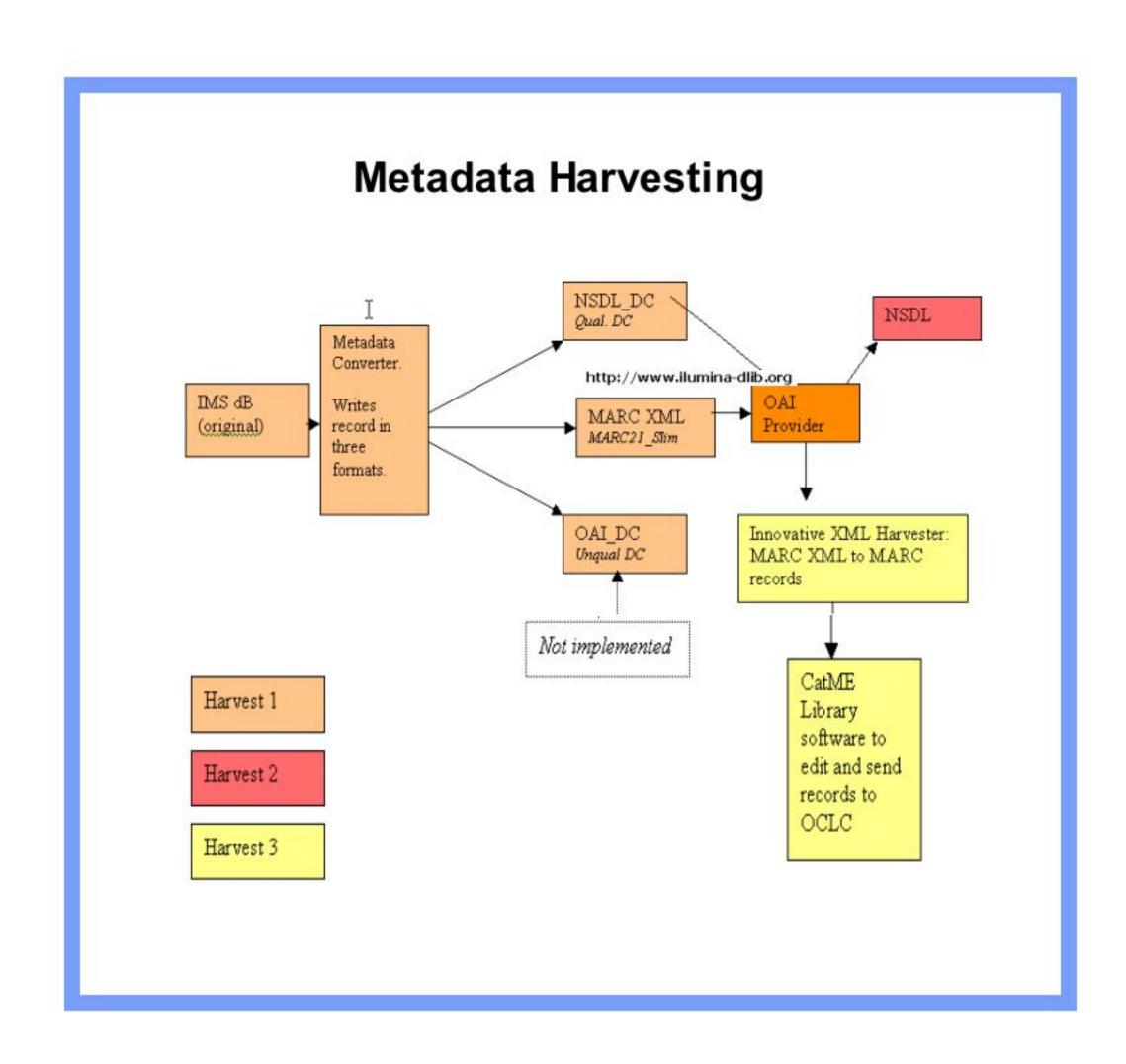
Integration Issues

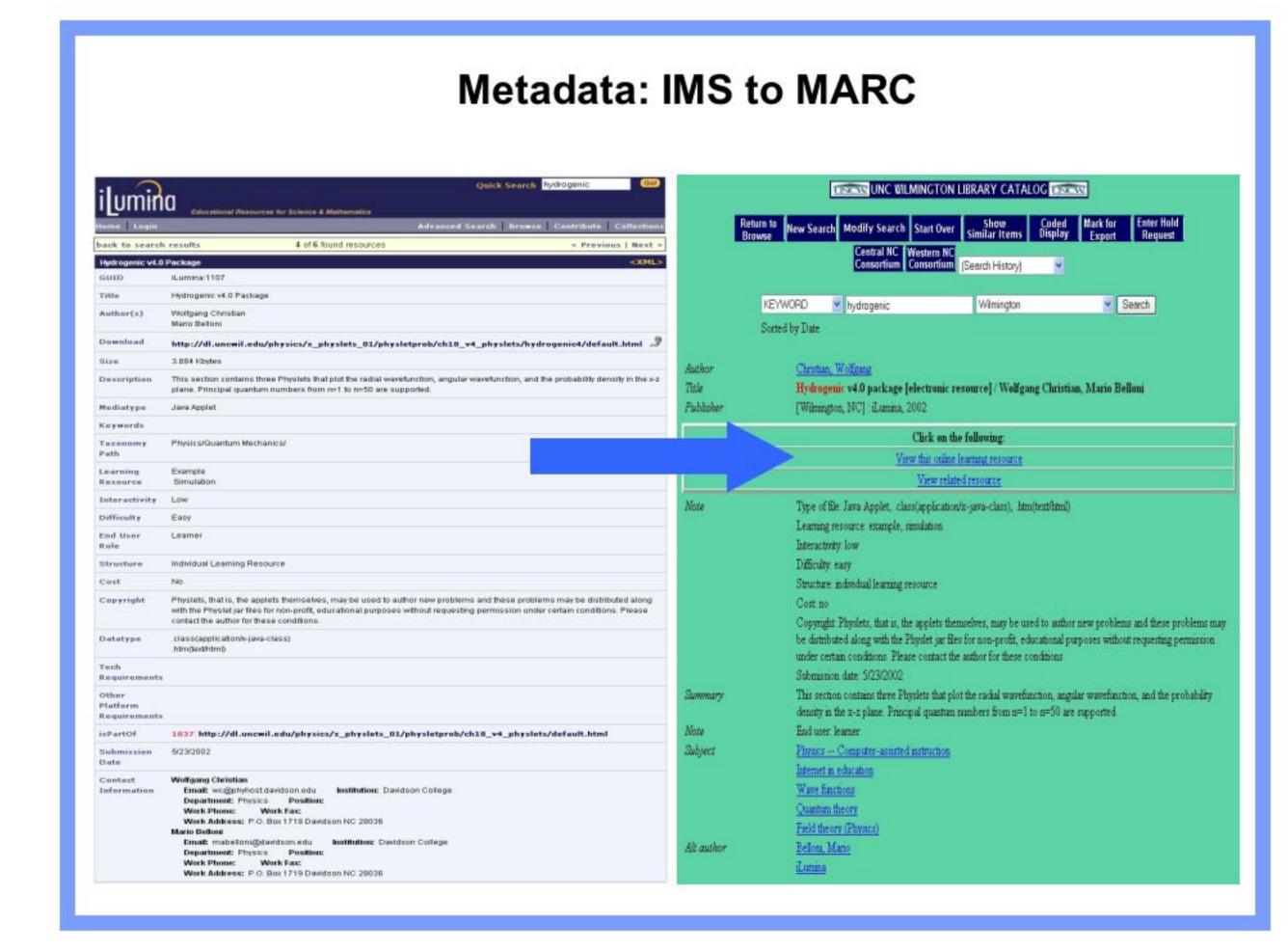
- What is gained by integrating iLumina into a traditional library catalog?
 - Wider disseminationStable environment
- ·What is lost?
 - •Contribution form for new submissions not integrated into catalog
 - •Robust search form with multiple pull-down menus

Librarians' Roles

- Provide expertise in bibliographic standards
- Analyze iLumina record fields
- ·Create metadata crosswalks
- ·Harvest the digital library's metadata
- Convert metadata to MARC format
- Add records to local library catalog and WorldCat

The iLumina Digital Library - Microsoft Internet Explorer File Edit View Favorites Tools Help ③ Back · ⑤ · ☑ ② ⑥ Search ☆ Favorites ❤ Media ❷ ② ▼ 🎍 🖾 · 🔲 👰 🖸 Address Address http://www.ilumina-dlib.org 🔭 Search Web 🕝 🧬 🗗 113 blocked 🗑 AutoFill 💆 Options 🥒 Educational Resources for Science & Mathematics Advanced Search | Browse | Contribute | Collection iLumina is a digital library of sharable undergraduate teaching materials for chemistry, biology, physics, mathematics, and computer science. It is designed to quickly and accurately connect users with the educational THE NATIONAL SCIENCE DIGITAL LIBRARY resources they need. These resources range in type from highly granular objects such as individual images and video clips to entire courses. Resources in iLumina are cataloged with IMS-compliant metadata, which captures both technical and education-specific information about each resource. An advanced search engine, quick search feature, and browse utility provide multiple methods for accessing resources in the library. ILumina contains Click here to register. thousands of educational resources and several virtual collections. Please feel free to contribute your own email: resources to iLumina by becoming a registered user. Password: Log in Recently added resources: Fluency With Information Technology Digital Logic and Computer Organization Introduction to Computer Systems & Assembly Language Introduction to Computer Science II Home | Login | Register | Advanced Search | Browse | Contribute | Collections | News | Help Last modified: August 25, 2003 About · Technical Documents · Policies





Cataloging Challenges

- ·iLumina record fields vs. MARC fields
 - •Fields not in local system load table
 •Fields not indexed in local system
 - ·Lack of label for 5xx fields in MARC
- ·Limiting searches to iLumina
 - •Advanced keyword search
 - ·Location scoping
- ·Determining publisher, distributor

iLumina's Future

- Integration of submission, review, & cataloging processes within library
- •Determination of usage trends by monitoring library holdings added to iLumina records in WorldCat
- Implementation of plans to increase size of the collection
- Creation of model for sustainability through documentation of the integration process

Collaboration & Teamwork

- Teamwork beneficial to scientists and librarians
- •Scientists learn about record structure and bibliographic standards and conventions
- Librarians learn about NSF environment, grant writing, new resources for science instruction, and new XML/OAI applications
- •Both groups explore ambiguous meanings of terminology: "library," "cataloging," "metadata"

Implications

- Sustainability is an important challenge for digital collections
- Integrating digital collections into an established university library catalog is a feasible model
- Non-librarians will be increasingly involved in creating digital collections
- Librarians can provide critical expertise in bibliographic standards and conventions