Data Management Training Clearinghouse

An Overview

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This project is made possible by a grant from the U.S. Institute of Museum and Library Services (IMLS). IMLS Grant LG-70-18-0092-18. The DMTC is managed by the Earth Science Information Partners, with development support provided by DataONE, and USGS. The views, findings, conclusions or recommendations expressed in this presentation do not necessarily represent those of the IMLS, or the other sponsor organizations.
Today’s Goals and Objectives

• Provide an update on the current status of the Data Management Training Clearinghouse
• Increase the visibility and use of the existing materials of the DMTC through hands-on work
• Enable interested participants to serve as contributors and reviewers
• Recruit participants in the IMLS project’s Metadata and Assessment Working Groups, and Editorial Team
Presentation Outline

1. Introduction to the DMTC
2. Demonstration of the DMTC search process and interface
3. Demonstration/tutorial of the resource submission process

Image from Shutterstock
Data Management Training Clearinghouse

Background

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Data Management Training Clearinghouse Background

• Work Started 2015
• First Content in 2016
• Supported by USGS CDI, DataONE, and the Earth Science Information Partners (ESIP)
Continued Development Supported by IMLS

- July 2018 – Start of 3 year project to enhance the DMTC
- Quantity of Content
- Diversity of Content
- Metadata/Search
- Assessment
- Outreach

• With addition of a needed platform migration
Content Diversity

Subject Categories in the DMTC

- Arts and Humanities
- Education
- Life Sciences
- Medicine and Health Sciences
- Physical Sciences and Mathematics
- Social and Behavioral Sciences

Cumulative Number of Resources

Subjects in the DMTC - Excluding Physical Sciences and Mathematics

- Arts and Humanities
- Arts and Humanities: Digital Humanities
- Arts and Humanities: History
- Arts and Humanities: History of Art, Architecture, and Anthropology
- Arts and Humanities: Other Languages, Societies, and Cultures
- Education: Science and Mathematics Education
- Engineering
- Engineering: Aerospace Engineering
- Engineering: Biomedical Engineering and Biotechnology
- Engineering: Sciences and Agricultural Engineering
- Engineering: Chemical Engineering
- Engineering: Computer Engineering
- Engineering: Electrical and Computer Engineering
- Engineering: Mechanical Engineering
- Life Sciences
- Life Sciences: Agriculture
- Life Sciences: Genetics and Genomics
- Life Sciences: Microbiology
- Life Sciences: Nutrition
- Medicine and Health Sciences: Biomedical Science
- Physical Sciences and Mathematics
- Physical Sciences and Mathematics: Astrophysics and Astronomy
- Physical Sciences and Mathematics: Computer Science
- Physical Sciences and Mathematics: Earth Sciences
- Physical Sciences and Mathematics: Environmental Sciences
- Physical Sciences and Mathematics: Mathematics
- Physical Sciences and Mathematics: Oceanography and Atmospheric Sciences and Meteorology
- Physical Sciences and Mathematics: Statistics and Probability
- Social and Behavioral Sciences
- Social and Behavioral Sciences: Anthropology
- Social and Behavioral Sciences: Library and Information Science
- Social and Behavioral Sciences: Agriculture and Resource Economics
Content Diversity

Cumulative Resources by Target Audience

http://dmtclearinghouse.esipfed.org

bit.ly/dmtc_stats_handout
Enhanced Metadata & Search

- Expand metadata model beyond LRMI core
- Refine search capabilities based on updated model and user feedback

<table>
<thead>
<tr>
<th>Some ED-related MD Elements</th>
<th>Additional MD Elements TB added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author Name / Organization</td>
<td>Educational Framework Target</td>
</tr>
<tr>
<td>URL to Content landing page</td>
<td>Educational Framework Target URL</td>
</tr>
<tr>
<td>Citation including DOI, if applicable</td>
<td>Country of Origin</td>
</tr>
<tr>
<td>Contributor Type</td>
<td>Type of Credential Offered if Any</td>
</tr>
<tr>
<td>Intended Time to Complete</td>
<td>Resource Modification Date</td>
</tr>
<tr>
<td>Educational Purpose of Resource</td>
<td>Persistent Personal Identifiers (PIPs)</td>
</tr>
<tr>
<td>Type of Learning Resource</td>
<td>Type of Persistent Personal Identifier</td>
</tr>
<tr>
<td>Targeted Audience for Resource</td>
<td>Supported Accessibility Features</td>
</tr>
<tr>
<td>Content Usage Information</td>
<td>Narrative Summary of Accessibility Features</td>
</tr>
<tr>
<td>Cost to Access</td>
<td>- TBC for DMTC MD to be FAIR:</td>
</tr>
<tr>
<td>Media Type</td>
<td>-- Persistent DMTC IDs for MD Records</td>
</tr>
<tr>
<td>Content License URL</td>
<td>-- Persistent IDs for Organizations</td>
</tr>
<tr>
<td>Educational Framework</td>
<td>--- Others?</td>
</tr>
<tr>
<td>Educational Framework Node</td>
<td></td>
</tr>
</tbody>
</table>
Assessment

- Clearinghouse
  - Usability
  - Use
- Content
  - Editorial
  - Peer-review
  - Usage

Outreach

- Conferences
- Workshops
- Webinars
- Data Help Desk

http://dmtclearinghouse.esipfed.org
Platform Migration

• Currently on Drupal 7
• Drupal 7 & 8 End-of-Life: November 2021
• Decouple Conjoined ESIP Web Assets – DMTC and Commons
• Build for Long-Term Sustainability
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Seeking Learning Resource Types, such as:

- Course
- Unit
- Lesson
- Demonstration
- Learning Activity
- Educator Curriculum Guide
- Images / Visuals
- Primary Source
- Rubric Scoring Guide

- Text
- Textbook
- Assessment
  - Interim / Summative
  - Self-Assessment
  - Alternate Assessment
  - Assessment Item
  - Formative Assessment
Current Publication Process

• We Invite community volunteers who wish to submit and/or review descriptions of educational resources to the DMTC using existing:
  • Selection Criteria:
  • Tutorial for Submitting Descriptions to the DMTC with suggested workflow:
  • Questions / Interest: email us at: clearinghouseEd@dmtclearinghouse.esipfed.org
## Current Clearinghouse publication process by role of logged-in user

<table>
<thead>
<tr>
<th>Task</th>
<th>Submitter</th>
<th>Reviewer</th>
<th>Editor</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID resource</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Fill out Required Info</td>
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<tr>
<td>Fill out Recommended Info</td>
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<tr>
<td>Save</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Add to Controlled Vocabularies (varies by role)</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Submit</td>
<td>✔️</td>
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<tr>
<td>Evaluate Appropriateness of Adding Resource</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Review / Edit metadata submitted</td>
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<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Save (= Re-submit)</td>
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<td></td>
<td>✔️</td>
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<tr>
<td>Publish</td>
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<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Update/Maintain (e.g., correct URLs, typos, etc.)</td>
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</table>
Add to Controlled Vocabularies by role of logged-in user

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<td>Subject Disciplines</td>
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<td>Learning Resource Type</td>
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How You Can Help

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How you can contribute

**Metadata & Search Working Group** - assessing the current metadata schema used in the Clearinghouse and the search and browse capabilities built upon those metadata.

**Assessment Working Group** - prioritizing areas for assessment of the Clearinghouse and the training resources.

**Editorial Team** - contributing to the publication workflow for submitted training material metadata.

**Contributing New Materials** - identifying and providing metadata for integration into the Clearinghouse.

**Interest Survey:**

bit.ly/dmtc_interest_cni2020
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&
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