The Big Ten Academic Alliance Geoportal: Facilitating Geospatial Data Discovery and Access

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University Libraries, The Ohio State University

Ohio GIS Conference
September 23 – 25, 2019
Hyatt Regency Columbus
Columbus, Ohio
GEOSPATIAL DATA PROJECT PARTICIPANTS

1. University of Illinois at Urbana-Champaign
2. Indiana University Bloomington
3. University of Iowa
4. University of Maryland
5. University of Michigan
6. Michigan State University
7. University of Minnesota
8. Pennsylvania State University
9. Purdue University
10. University of Wisconsin-Madison
11. Ohio State University
12. University of Chicago
Why?

- Librarians responding to an increased demand for geospatial data across a wide range of disciplines
- Challenges faced by students, researchers, and others related to discovery and access of these data
- Trend towards a single point of discovery across multiple institutions, agencies, and organizations

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A quick disclaimer…

Ohio Geographically Referenced Information Program

GEOhio State GIS Resource Links

- PUCO GIS Downloads Page
- OHS Mapping Website
- OEPA GIS Website
- ODNR GIS Website

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Project outcomes

1. A public collection of harmonized, platform-agnostic geospatial metadata
2. A shared geoportal for institutions across the Big Ten
3. Tools & workflows

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Geospatial metadata

- Indexing metadata records from other sources rather than hosting data directly
- Metadata harmonized to GeoBlacklight schema from existing standards
  - Geospatial data: ISO 19139, ArcGIS 1.0, FGDC
  - Scanned maps: Dublin Core, MARC

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# Metadata workflow

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Submit Records</strong>&lt;br&gt;Task Force members identify records for inclusion in the project.</td>
<td><strong>Metadata Transition</strong>&lt;br&gt;The Project Metadata Coordinator harvests and crosswalks the records.</td>
<td><strong>Edit Records</strong>&lt;br&gt;Metadata is normalized and augmented to comply with the GeoBlacklight schema</td>
<td><strong>Publish Records</strong>&lt;br&gt;The approved records are published to the GeoBlacklight geoportal.</td>
<td><strong>Maintenance</strong>&lt;br&gt;Records are regularly checked for errors and collections are re-accessioned on a periodic basis.</td>
</tr>
</tbody>
</table>

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Geoportal interface

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Geoportal records

• Provide download access and web service URLs

• Point users to original source for more information and additional download options

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## Collections at a glance

- Approximately 22,000 records as of September 2019

<table>
<thead>
<tr>
<th>Place</th>
<th>Count</th>
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<tbody>
<tr>
<td>Pennsylvania</td>
<td>3,988</td>
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<tr>
<td>Wisconsin</td>
<td>2,974</td>
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<tr>
<td>Minnesota</td>
<td>2,795</td>
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<tr>
<td>Maryland</td>
<td>2,420</td>
</tr>
<tr>
<td>Iowa</td>
<td>1,734</td>
</tr>
<tr>
<td>Indiana</td>
<td>1,209</td>
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<tr>
<td>Ohio</td>
<td>1,202</td>
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<tr>
<td>Washington D.C</td>
<td>819</td>
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<tr>
<td>more »</td>
<td></td>
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<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Transportation</td>
<td>2,379</td>
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<tr>
<td>Planning and Cadastral</td>
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<td>Fire insurance maps</td>
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<td>Boundaries</td>
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<td>Location</td>
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<td>Environment</td>
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<td>Atlases</td>
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<tr>
<td>Society</td>
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<td>more »</td>
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<table>
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<tr>
<th>Time Period</th>
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<tr>
<td>1500s</td>
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<tr>
<td>1600s</td>
<td>212</td>
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<tr>
<td>1700s</td>
<td>352</td>
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<td>1800-1849</td>
<td>251</td>
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<tr>
<td>1850-1899</td>
<td>1,651</td>
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<td>1900-1949</td>
<td>3,596</td>
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<td>1950-1999</td>
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<td>2000-2004</td>
<td>1,745</td>
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<tr>
<td>2005-2009</td>
<td>832</td>
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<tr>
<td>2010-2014</td>
<td>2,501</td>
</tr>
<tr>
<td>2015-present</td>
<td>9,073</td>
</tr>
</tbody>
</table>
What are we working on now?

• Prioritizing, scanning, and making available maps from the OSU Libraries’ physical collections
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- Identifying, prioritizing, and indexing metadata for additional open geospatial data sets across Ohio

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- Prioritizing, scanning, and making available maps from the OSU Libraries’ physical collections
- Identifying, prioritizing, and indexing metadata for additional open geospatial data sets across Ohio
- Gathering feedback and user stories from geoportal users, data creators, and other stakeholders
How can the BTAA Geoportal help you?

• Resource for education and research

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How can the BTAA Geoportal help you?

- Resource for education and research
- Enhanced discoverability of and access to your open geospatial assets

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How can the BTAA Geoportal help you?

- Resource for education and research
- Enhanced discoverability of and access to your open geospatial assets
- Geospatial metadata best practices and tutorials
- URL: z.umn.edu/geometadata

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How can you help the BTAA Geoportal?

• Use it, and offer feedback

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How can you help the BTAA Geoportal?

• Use it, and offer feedback

• Spread the word to other potential users and stakeholders

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How can you help the BTAA Geoportal?

• Use it, and offer feedback
• Spread the word to other potential users and stakeholders
• Talk to us if you are interested in indexing metadata for your geospatial data assets or if you have ideas for specific content we should consider adding
Contact information

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- Twitter: @geobtaa

go.osu.edu/gisday
Questions?