

## Insuring Access to Digital Geological Publications

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## Introduction

- Do records in online catalogs provide enough information to find materials?
- Can online databases be used to locate data, publications & maps on agency web sites?
- Can information on agency web sites be located with Internet search engines?

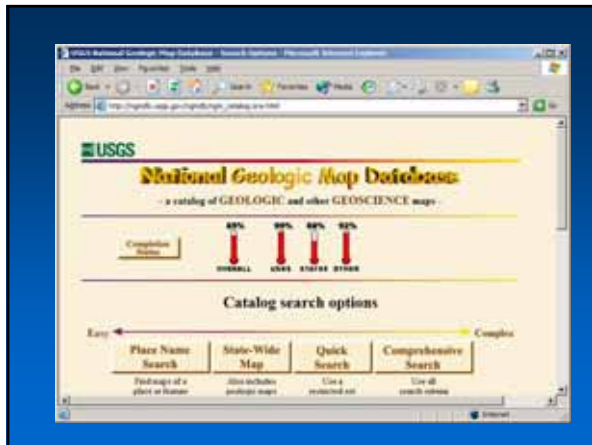
Do records in  
online catalogs  
provide enough  
information to  
locate  
materials?  
**NO**





Can online databases be used to locate publications, data & maps on agency web sites?

**NO**

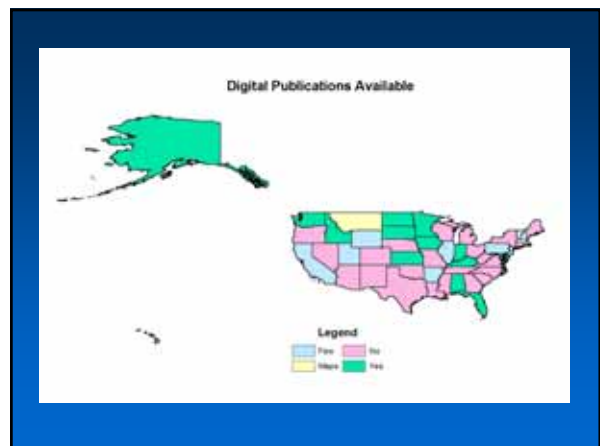


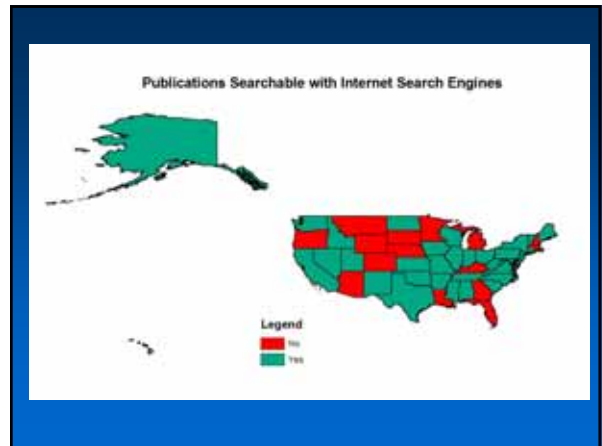
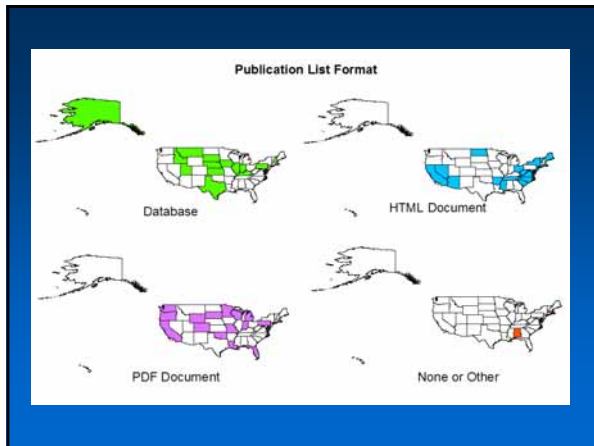
Digital content needs to be reported to be included in appropriate databases.



Can Internet Search Engines be used to locate data, publications & maps on agency web sites?

**NOT ALWAYS**






If they can




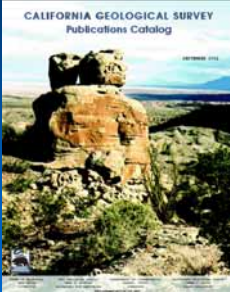
it, they will come.



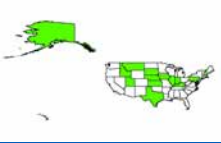
**Can Internet search engines locate digital materials?**



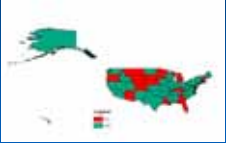
**Can Internet search engines locate digital materials?**

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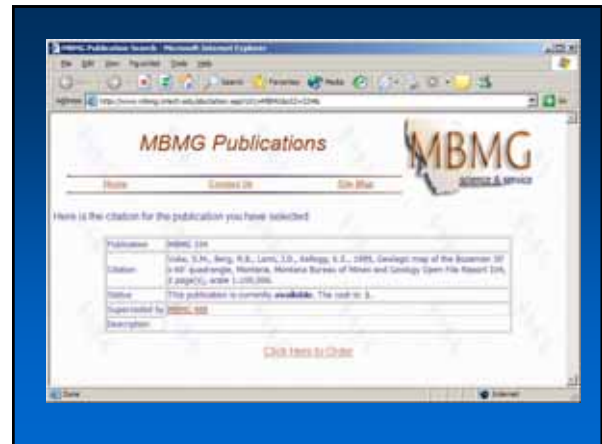


States with Publication Databases



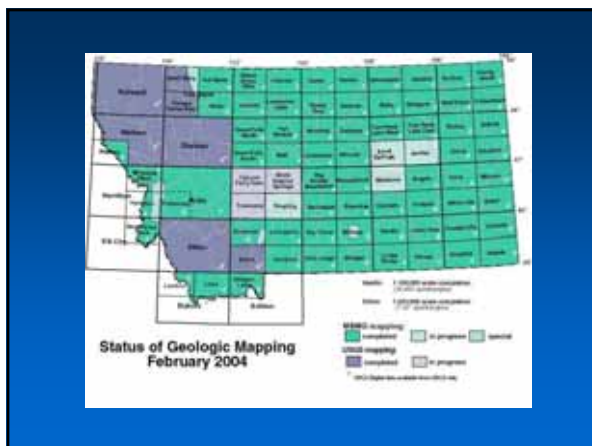
Web – Accessible Publications

## Can Internet search engines locate digital materials?



## Can Internet search engines locate materials?

```
<html>
<head>
<meta http-equiv="Content-Type"
  content="text/html; charset=windows-1252">
<meta name="GENERATOR" content="Microsoft
  FrontPage 4.0">
<meta name="ProgId"
  content="FrontPage.Editor.Document">
<title>MBMGCAT | Publication Citation</title>
</head>
```



## Can Internet search engines locate materials?

```
<html>
<head>
<meta http-equiv="Content-Type"
  content="text/html; charset=iso-8859-1">
<title>State Map Program</title>
</head>
```

## New Metadata

```
<meta name="keywords" content="Montana Bureau of Mines and Geology, state map, Geologic mapping, USGS, ">
<title>State Map Program</title>
<meta name="keywords" content="100K quads, geologic mapping in Montana, Cut Bank, Sweet Grass Hills, Chester, Havre, Harlem, Whitewater, Opheim, Scooby, Plentywood, Wallace, Valier, Butte, Nez Perce Pass, Conrad, Hamilton, Lonesome Lake, Rocky Boy, Dodson, Malta, Glasgow, Wolf Point, Culbertson, Choteau, Great Falls North, Great Falls South, Fort Benton, Winifred, Zortman, Fort Peck Lake East, Fort Peck Lake West, Richey, Sidney, Belt, Lewistown, Winnett, Sand Springs, Jordan, Circle, Glendive, Phillipsburg, Butte, Big Snowy Mountains, Musselshell, Angela, Terry, Wibaux, Melstone, Harlowton, Roundup, Hysham, Forsyth, Miles City, Baker, Bozeman, Livingston, Big Timber, Billings, Hardin, Lame Deer, Powderville, Ekalaka, Ennis, Gardiner, Red Lodge, Bridger, Lodge Grass, Birney, Broadus, Alzada, Leadore, Lima, Hebgen Lake, Dubois, State Mapping Program">
<meta name="description" content="Montana Bureau of Mines and Geology's index page for geologic mapping in Montana. The state mapping project is done in cooperation with the USGS.">
```

Web page metadata must be specific.



## Internet Access to Digital Content

- Publication lists in HTML format are usually searchable but there are some exceptions.
- Some PDF documents can be searched.
- Databases should be OAI (Open Access Initiative) compliant
- <http://www.openarchives.org/tools/tools.html>
- Metadata must be specific and openly accessible.

## Options for Improving Access

- Develop more detailed metadata.
- OAI Compliant Databases.
- Institutional Repositories and DSpace Software.

## Institutional Repositories

Digital collections that capture and preserve the intellectual output of one or more organizations, usually departments or research units in universities.

## Institutional Repositories



## IR Digital Resources

- Articles & preprints
- Technical reports
- Working papers
- Conference papers
- Electronic theses & dissertations
- Datasets: statistical, geospatial, matlab, etc.
- Images: visual, scientific, etc.
- Audio files
- Video files
- Educational resources
- Reformatted digital library collections

## Institutional Repository Advantages

- Metadata searched with Internet Search Engines.
- Persistent URL (URL will not change over time).
- Digital publications archived by outside organization; format upgraded as software changes.

## Participating in an Institutional Repository

- If you are affiliated with a university, participate in your local Institutional Repository.
- If your university does not have an IR, ask about their plans to develop one.

## State Government Institutional Repositories

- KSPACe – Digital Repository for Kansas.
- Illinois State Library – developing means to crawl & preserve web sites (with Arizona & Wisconsin).
- North Carolina State Library developing plan to collect & preserve digital content.

## Subject Repositories

- Earth-prints Digital Repository - archive of European publications on atmospheric science, glacial geology, hydrology & solid earth geology.
- Arxiv.org – central repository to e-prints in Physics, Mathematics, Computer Science & Quantitative Biology.

## Conclusions: Options for Improving Access

- Move databases to OAI compliant software (<http://www.openarchives.org/tools/tools.html>).
- Participate in a local Institutional Repository.
- Develop single central repository for digital state geological publications?

*The End*



Questions?

