# SEAD Virtual Archive :: A Thin Layer for Scientific Discovery and Long-Term Preservation

Inna Kouper April 17, 2013

@inkouper@SEADdatanet#dlbbspring2013

# SEAD DataNet Project



#### Welcome to SEAD! Where you can:



#### Approach:

- Website with 4 categories
- Landing areas addressing different activities
- Common look-and-feel for components
- Cross-links to support activities

#### **Find Data**

Work With Your Data

**Curate and Preserve Data** 

**Explore Sustainability Research** 

## **SEAD Virtual Archive**

- Purpose: Long-term preservation and discovery
  - Thin virtualization layer on top of multiple university
     Institutional Repositories (IRs)
  - Enhances IRs by being sustainability science-aware
- Team: IU Libraries, UIUC Libraries, and Data To Insight Center at IU
- Starting point: Data Conservancy code (Johns Hopkins U.)
  - Extended for sustainability science long tail use cases

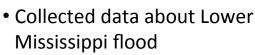
# Making Data Sustainable: Use Case

Preserve data
Keep private for 5 years

Packaged object

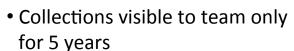
Index data, metadata and relationships

# Active Curation Repository (ACR)



- Stored in Active Repository
- Organized as a collection
- Marked "Ready for publication"





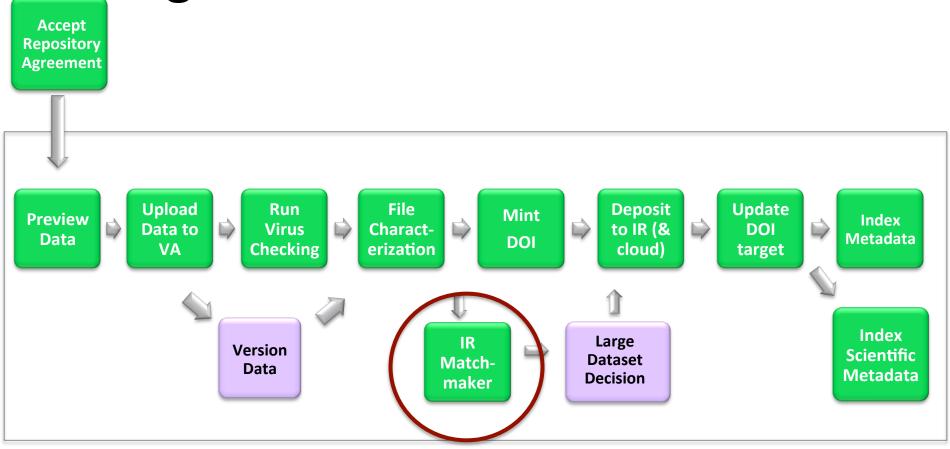
- Deposited to repository based on dataset creator affiliation
- Find by author, location, keywords or repository



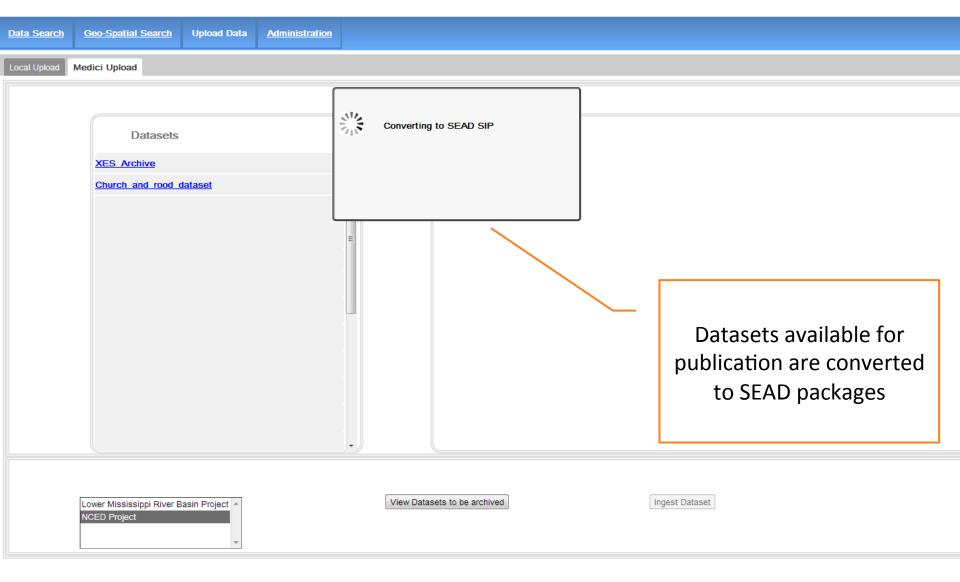
**UIUC Ideals** 

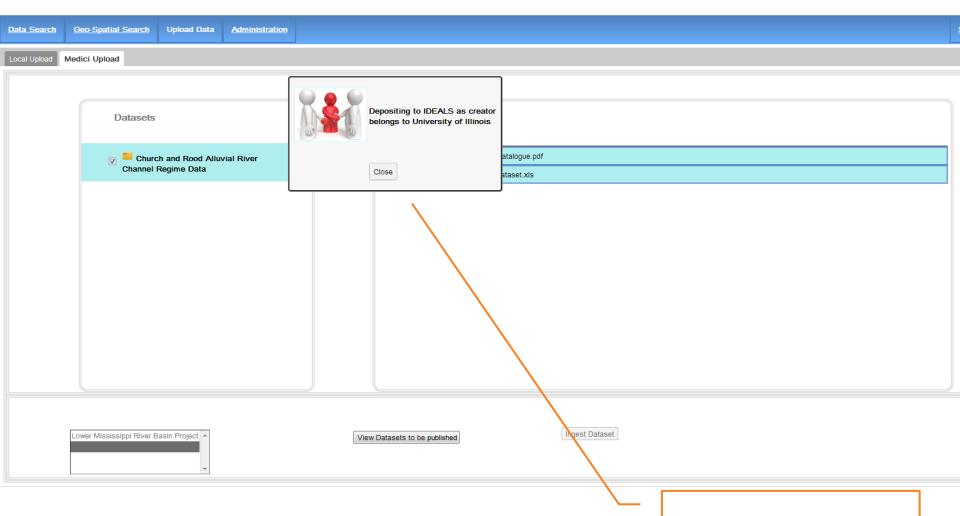
**IUScholarworks** 

# Ingest Workflow into SEAD VA

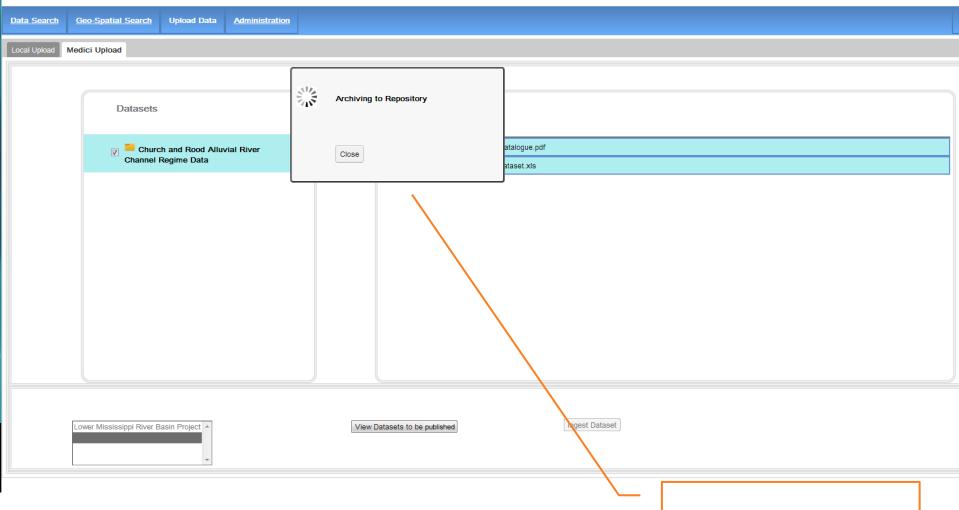




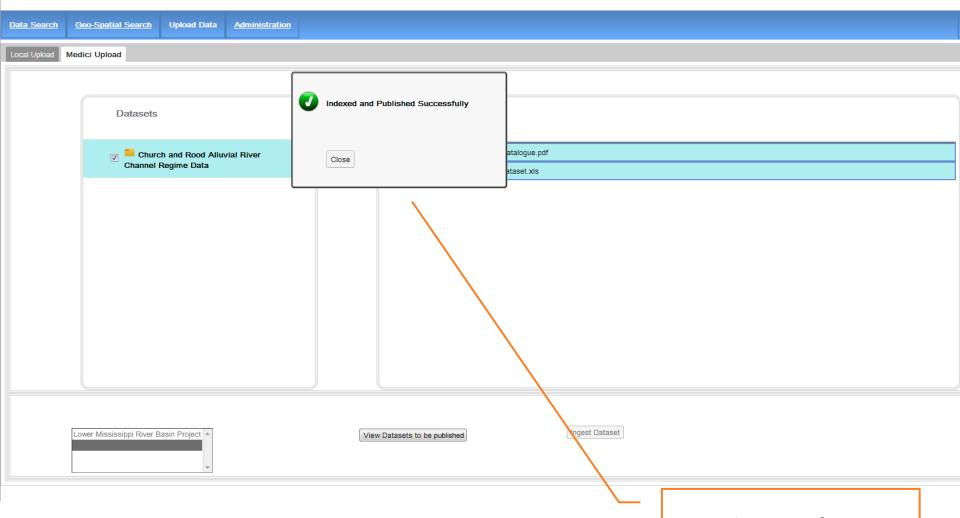




Stage 1 of Ingest



Stage 2 of Ingest



Final Stage of Ingest











Login

Search IDEALS
 This Collection

Search **Advanced Search** 

#### **Browse**

#### **IDEALS**

Titles Authors

Subjects

Date

Communities

#### This Community

Titles Authors

Subjects

Date

#### My Account

Login

Register

#### Information

Help

About

Contact Us

#### Access Key





#### IDEALS Home Data Sets SEAD Church and Rood Alluvial River Channel Regime Data

#### Church and Rood Alluvial River Channel Regime Data

Data compiled from various sources on 284 streams and rivers: river morphology, river process, discharge, hydraulic geometry and grain size.

#### Browse by

- Titles
- Authors
- Subjects
- Date

#### **Browse Collections of Items**

Church and Rood Alluvial River Channel Regime Data collection1

#### Recent Additions

[2012-11-28] sip

(Submitted as part of SEAD project) (2012-11-28)

XML (20KB)

#### [2012-11-28] Church and Rood Catalogue

(Submitted as part of SEAD project) (2012-11-28)

PDF (9MB)

#### [2012-11-28] Church\_and\_Rood\_dataset

(Submitted as part of SEAD project) (2012-11-28)

Microsoft Excel (266KB)

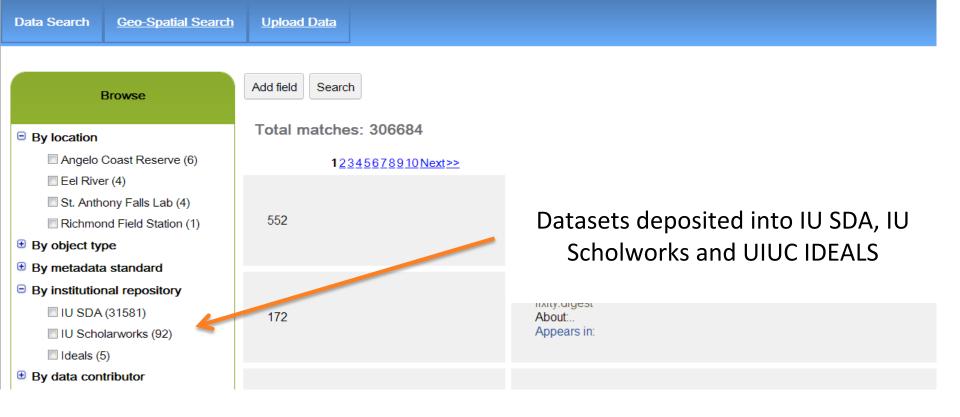
#### Show Statistical Information

Successful automatic ingest into UIUC IDEALS repository

# Communication with IRs



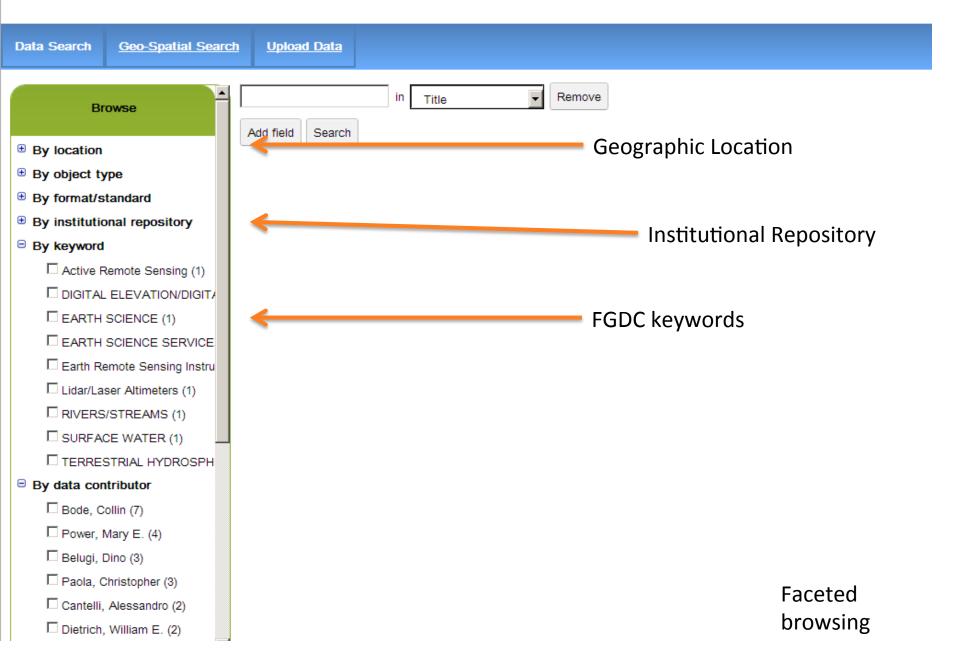
Discovery and Long-term Preservation of Scientific Data



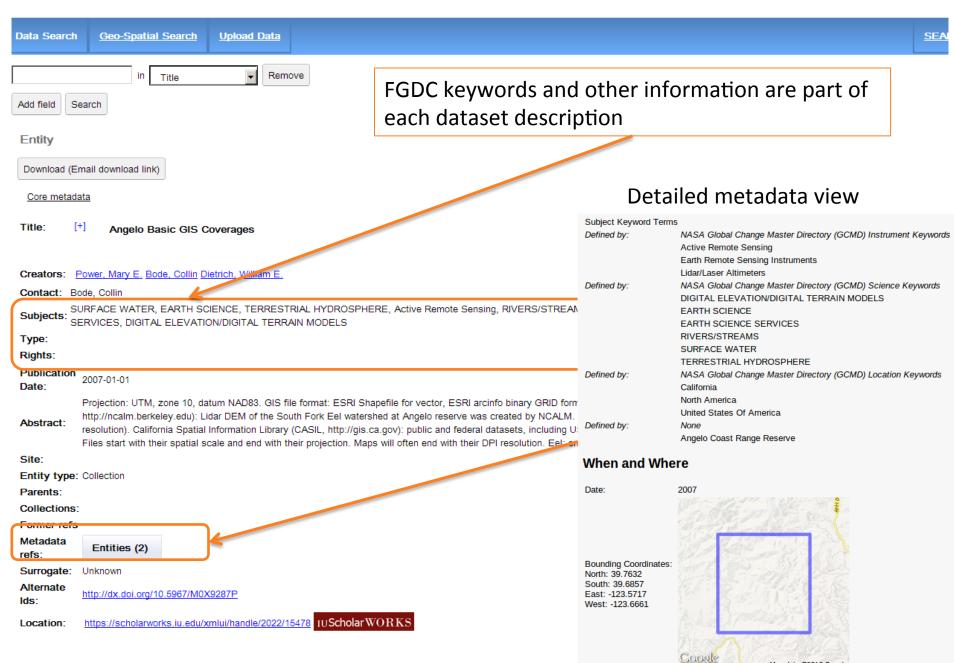
# Role of Enhanced Metadata

- 20 NCED datasets encoded in FGDC metadata standard
  - Theme and place keywords, rights, data sources, etc.
  - Keywords and descriptors for faceted search
  - More ways to browse and discover!

```
<themekey>"EARTH SCIENCE","LAND SURFACE","TOPOGRAPHY","","",""
              <themekt>None</themekt>
              <themekey>Experimental Earthscape Facility (XES)</themekey>
          </theme>
         <place>
              <placekt>None</placekt>
              <placekey>University of Minnesota</placekey>
          </place>
.....</keywords>
      <accconst>Free to download and use data from the NCED Data Repository providing the user is registered, and includes
      <useconst>Unknown</useconst>
      <ptcontac>
          <cntinfo>
              <entorgp>
                  <cntorg>National Center for Earth-Surface Dynamics</cntorg>
                  <cntper>Alessandro Cantelli</cntper>
```



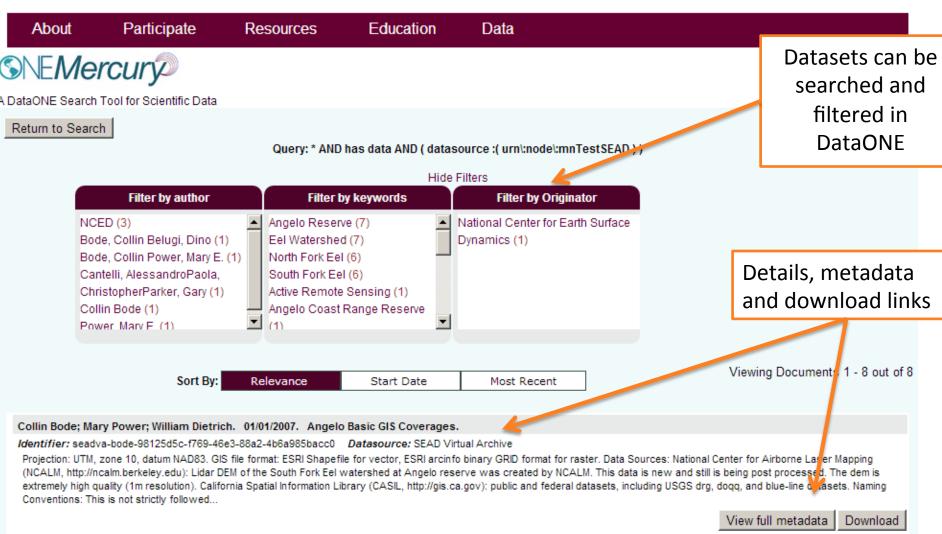












# Summary

- IRs can be a viable solution for data management and preservation
- Sustainability data need exposure via multiple means of access and discovery

### SEAD VA can help, but...

- More work is needed to move SEAD VA forward
- To move IU to the position of leadership in data stewardship and exchange closer collaborations between IU libraries, UITS and research centers are needed