

SEAD provides groups of scientists with secure, access-controlled Project Spaces to manage, organize, describe, and share heterogeneous data collections; and easy-to-use Publication Services for submitting these data for deposit in multiple partner repositories. SEAD technology supports researchers through each step of the data life cycle, increasing their research efficiency and enabling them to produce better-quality data and metadata.

## PROJECT SPACE

**Increase your research efficiency**

**Preserve your data long term**

**Enhance the use and reuse of science data**

### ACTIVE CURATION

Be more efficient by incrementally adding data and metadata as the data are generated and analyzed, and using the metadata to help organize and filter data. Thus, publishing data will later require much less effort and the published data product will be more valuable and of higher quality!

### LARGE HIERARCHICAL DATA COLLECTIONS

Upload from a few files to hundreds of thousands of files and publish collections including 100K+ files with individual files of >40GB. Publish more complete research records that include raw and intermediate data files along with final results.

### FLEXIBLE METADATA

Add custom metadata, link to external controlled vocabularies, and enrich your data with provenance and relationship links.

### PUBLISHING DATA: REVOLUTIONIZED

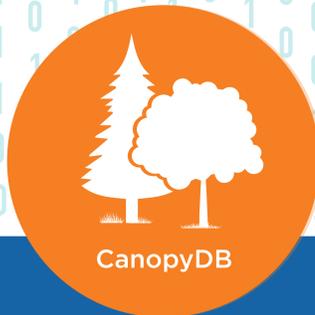
At any point, set your data on a path to publication with just a push of a button from your SEAD Project Space! SEAD takes care of packaging, assigning a DOI, sending your data to a long-term repository, and registering it with an appropriate catalog.



NCED

#### National Center for Earth-surface Dynamics

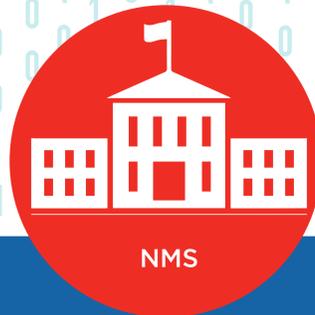
The NCED project predicts the coupled dynamics and co-evolution of landscapes and their ecosystems in order to transform management and restoration of the Earth-surface environment. NCED's data in SEAD includes more than 83 file formats and a rich collection of raw experimental data including images, video, sonar and tabular data, simulations, software, reports, presentations, and third-party reference data related to the center's research.



CanopyDB

#### Canopy Science Data and Applications

The team of students and faculty at Evergreen State College is using SEAD to capture and annotate an at-risk-of-being-lost collection of data and tools: Canopy Science Data and Applications (CanopyDB). The team is leveraging SEAD hosted data services to organize, cross-reference, and make this rich collection of forestry canopy observational data, metadata, images, documentation, software, and web information accessible for reuse.



NMS

#### National Mindset Study

As part of President Obama's "Educate to Innovate" campaign, NMS will field the largest-ever randomized controlled study of "growth mindset" interventions, which, in smaller studies, appeared to significantly improve academic performance. NMS will use SEAD during their active collaboration to allow their distributed team to work on anonymized data from a random sample of over 100 high schools nationwide with the intent to publish their data to ICPSR.



CM-JRMS

#### Jamaica Returned Migrants Study

Caribbean Migrations' CM-JRMS explores the health and well-being of people from the Caribbean and Caribbean Diaspora. The team is using a SEAD Project Space during their active phase of processing and analyzing data prior to depositing them to ICPSR for archiving and dissemination. SEAD's advanced functionality for creating custom user roles has made SEAD a valuable resource for this group.

## PARTNER REPOSITORIES

openICPSR

at the Inter-university Consortium for Political and Social Research

SEADS-NDS

Labs Publisher Prototype at the National Data Service

IDEALS

at the University of Illinois at Urbana-Champaign

IU SEAD CLOUD

at Indiana University

ARC-TS

at the Advanced Research Computing Technology Services at the University of Michigan

YOUR REPOSITORY HERE

## CONNECT WITH SEAD

Contact SEAD about setting up a Project Space for your group, visit [sead-data.net](http://sead-data.net) to try out Project Space features in the SEAD Demo Space, or get your institutional repository partner with SEAD!



[sead-data.net](http://sead-data.net)



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SEAD is led by PI Margaret Hedstrom (University of Michigan) and co-PIs Praveen Kumar (University of Illinois), James Myers (University of Michigan), and Beth Plale (the Data to Insight Center at the Indiana University) and is being created and operated by a multi-institutional team whose current and former members are listed at [sead-data.net](http://sead-data.net).