

Alfred P. Sloan FOUNDATION

The skills and expertise required to curate data cannot be fully automated nor reasonably provided by a few experts siloed at a single institution.

Method: In 2016-2017 six DCN partner institutions performed baseline assessments of local services, held focus groups with faculty researchers, ran controlled data curation pilots, and surveyed the library curator community to understand existing support and future plans for services in these areas. The results showed that multiple data curation experts are needed to effectively curate the diverse data types a repository typically receives and to keep up with changing trends and emerging tools that support research data best practice.

175	Data sets observed across 6 DCN institutions in 2016-2017.
77%	Representation from scientific disciplines including agricultural, biological, engineering/applied, and physical sciences.
51	Different file types with ~30% tabular/ spreadsheet files.
L hour	Average time spent curators spent processing the majority of datasets. 70% took less than 2 hours.
47%	Percent of datasets lacking documentation.
77	Datasets that needed "Major" curation (e.g., documentation, transform file formats). Only 41 received this level.
11	Most datasets received in one day.

Levels of Curation Needed vs. Taken for Datasets Observed in 2016-2017 Planning Phase (n=175)







Implementing a Cross-Institutional Staffing Model for Curating Research Data



The Data Curation Network (DCN) Submission Workflow



A written version of our DCN model is available with detailed curation workflows, staffing roles, draft MOUs, and tool tracking functional requirements as "Data Curation Network: A Cross-Institutional Staffing Model for Curating Research Data" originally published July 27, 2017 online at https://sites.google.com/site/datacurationnetwork/results.

Robert Olendorf, Pennsylvania State University 🙀 | Joel Herndon, Duke University T | Elizabeth Hull, Dryad Data Repository 🙀 | Tim McGeary, Duke University T

#datacurationnetwork

The Data Curation Network (DCN) addresses this challenge by collaboratively sharing data curation staff across a network of partner institutions and data repositories.

The DCN brings the perspectives of researchers, librarians, administrators, and data curation subject experts in a crossinstitutional network led by the University of Minnesota and including Cornell University, Penn State University, the University of Illinois, the University of Michigan, Washington University in St. Louis, Duke University, Johns Hopkins University, and the Dryad Data Repository. The DCN functions as:



- **A** Augment the submission with metadata
- **T** Transform file formats for long-term reuse.
- **E** Evaluate and rate the overall submission for FAIRness

