

# MAP Pilot Institution Project Plan

## Description

*Description of the pilot project, including the processes, tools, or changes that will be tested.*

Our maDMSP pilot project aims to better understand the roles, team characteristics, challenges, and motivations required for successful maDMSP implementation, adoption, and success at Northwestern University. Due to the highly collaborative nature of biomedical research and related support, a range of roles, expertise, and perspectives must be assessed at our institutional level.

This project will be carried out by Northwestern University's Galter Health Sciences Library in partnership with the Research Computing and Data Services team, the University Libraries, and the Office for Research. The Northwestern University Clinical and Translational Sciences Institute (NUCATS) will serve as a conduit to engage the research community on campus and identify suitable research teams representing key opportunity areas such as clinical trials, community-based research projects, high-profile programs such as ARPA-H, and the spectrum of translational science.

We will conduct user testing and qualitative interviews of project participants and campus stakeholders (e.g., leadership, research administrators, institutional review board and other compliance personnel, core facility managers, various researchers and trainees, etc.) to understand maDMSP implementation and adoption, including what needed roles, major challenges and opportunities for implementation and adoption, possible motivators and incentives for data management and sharing, and other more specific aspects of maDMSPs that will allow us an opportunity to highlight the nuances of a range of data types and considerations (e.g., human subjects research).

Our team is actively working on machine learning approaches to populate DMPs to reduce burden for the research team and enhance opportunities for meaningful compliance. This work compliments the proposed maDMSP pilot activities, and may serve to nucleate additional collaborations with the project participants or other interested parties.

## Objectives and Goals

*Objectives and goals of the pilot project.*

- Perform a landscape analysis of research administration and data services to better understand required / helpful roles, challenges, and opportunities for maDMSP implementation, adoption, compliance, etc. at Northwestern University.

*This project is managed by [California Digital Library \(CDL\)](#) and the [Association of Research Libraries \(ARL\)](#), and funded by a National Leadership Grant from the US [Institute of Museum and Library Services, LG-254861-OLS-23](#).*

- Conduct introductory meetings with stakeholders
- Identify and engage faculty partners with a range of research data perspectives and needs in partnership with the Northwestern University Clinical and Translational Sciences (NUCATS) Institute
- Create DSMP templates for 1-2 specific NIH programs (e.g., ARPA-H, clinical trials, community based participatory research, translational science, etc.), to be made openly available for reuse through a project community in Zenodo and/or DMP Tool.
- Explore machine learning approaches for populating the DMSPs and determine how they can be incorporated into local maDMSP workflows.

## Pilot Team Composition

### Primary team

- Kristi Holmes, Director, Galter Library, site PI
- Matt Carson, Senior Data Scientist and Head, Digital Systems Department, Galter Library, Project Lead
- Sara Gonzales, Senior Data Librarian, Galter Library
- Jackie Milhans, Director of Northwestern Research Computing and Data, NU IT
- Christina Maimome, Associate Director, Research Data Services, NU IT
- Tobin Magle, Lead Data Management Specialist, Research Computing and Data Services, NU IT
- Kelsey Rydland, Head of Digital Scholarship, Northwestern University Libraries
- Aerith Netzer, Digital Publishing Librarian, Northwestern University Libraries
- Steven Moyano, Senior Director, Research IT Strategy & Operations, Office of Research
- Feinberg IT representatives
- Research team representatives

### Advisory team

- Sean Reynolds, Vice President for Information Technology, Chief Information Officer
- Xuemao Wang, Dean of Libraries and University Librarian
- Eric J. Perreault, Vice President for Research, Professor of Biomedical Engineering
- Rich D'Aquila, Associate Vice President of Research, Senior Associate Dean for Clinical and Translational Research, Director, Northwestern University Clinical and Translational Sciences Institute (NUCATS)