

An aerial photograph of a city, showing buildings, roads, and green spaces, overlaid with a semi-transparent blue filter. The word "SMART" is prominently displayed in the center.

SMART

Grantee Welcome and Reporting
Overview Meeting

Agenda



Welcome New Grantees



**SMART Program
Overview**



Data Management Plans



Evaluation Plans



Questions

SMART Staff Introductions

- Grants Management Team

Thy H. Nguyen
Lead Grants Management
Specialist
Thy.Nguyen@dot.gov

Raine Pike
Grants Management Specialist
Raine.Pike@dot.gov

Alfreda Johnson
Grants Management Specialist
Alfreda.Johnson@dot.gov

- Program Management

Stan Caldwell
Program Director
Stanley.Caldwell@dot.gov

- Will be assigned a project cluster with Subject Matter Experts before Summit in July
- Additional support provided by US DOT Volpe Center

SMART Grants Program Overview

- SMART was established by Infrastructure Investment and Jobs Act (IIJA) to “conduct demonstration projects focused on **advanced smart city or community technologies and systems** in a variety of communities to improve transportation efficiency and safety.”
- Provides **\$100M annually** from FY22 – 26 to eligible projects from State, local, and Tribal governments.
- IIJA defines **how SMART funding will be distributed** across communities:
 - Large communities: not more than 40%
 - Midsized communities: not more than 30%
 - Rural/regional communities: not more than 30%
- SMART is a **two-stage program**.
 - **Stage 1** planning and prototyping grant: ~\$2 million
 - **Stage 2** implementation grant: ~\$15 million



Funds Demo
Projects



Purpose
Driven
Innovation



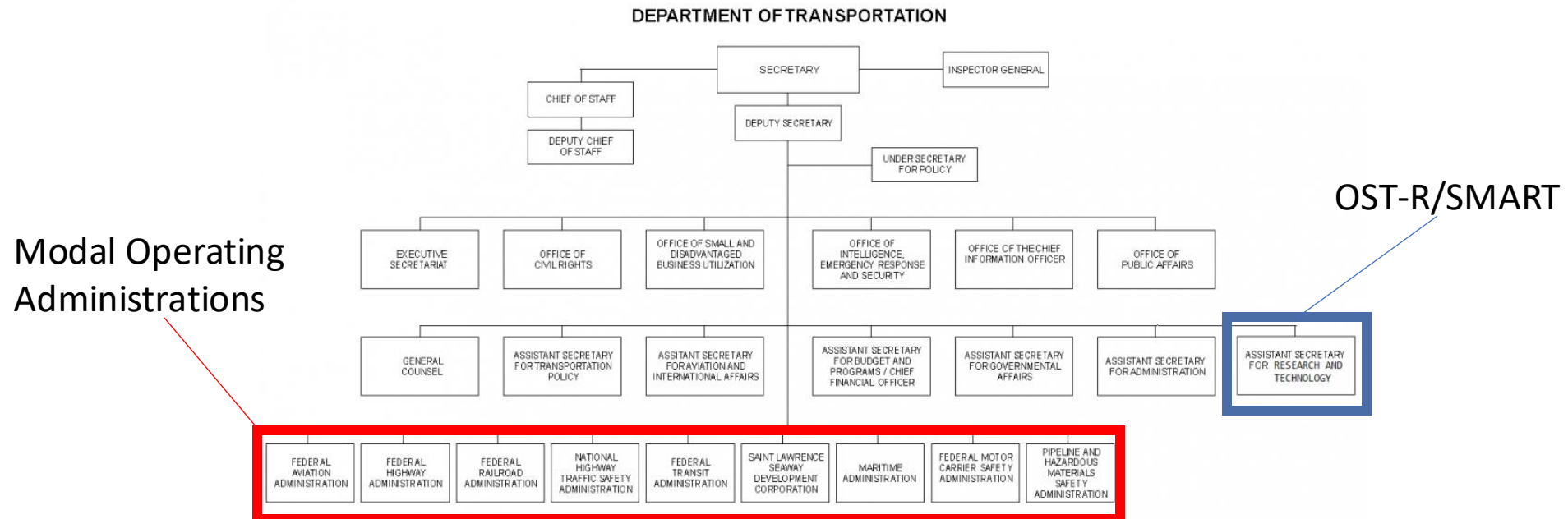
Addresses
Real World
Challenges



Builds Local
Technology
Capacity

SMART Program Overview

- Department of Transportation
 - Office of the Assistant Secretary for Research and Technology (OST-R)
 - Strengthening Mobility and Revolutionizing Transportation (SMART)
 - [Smart Website: SMART Grants Program | US Department of Transportation](#)
 - Other awarding agencies within DOT have different requirements.



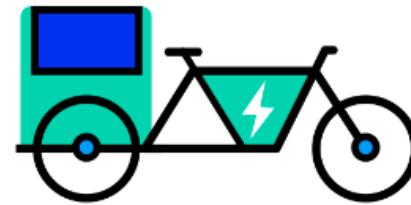
Technology Areas



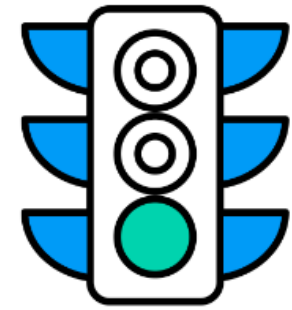
Smart Grid



Sensor-Based
Infrastructure



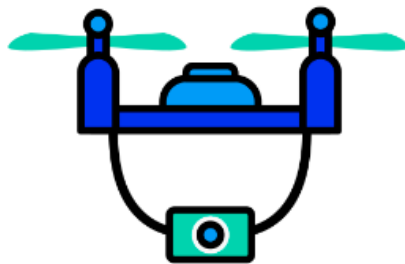
Commerce Delivery
& Logistics



Smart Traffic
Signals



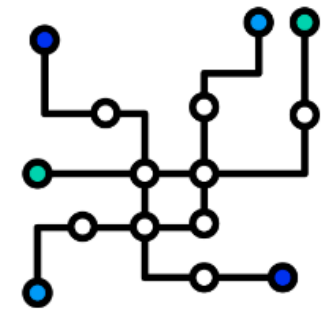
Coordinated
Automation



Innovative
Aviation



Connected
Vehicles



Systems
Integration

Project Types (Clusters)

FY24 STAGE 1 SMART GRANTS

PROJECT TYPE

CONNECTED
VEHICLES



SENSORS



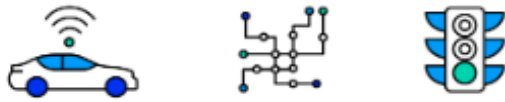
SMART TRAFFIC
SIGNALS



SMART
GRID



TRANSIT
INNOVATION



UNCREWED AIRCRAFT
SYSTEMS (UAS)



WORKZONE SAFETY



- Dates: July 30th and 31st
- Location: USDOT HQ, Washington DC
- Purpose: Learn from other grantees, meet with SMART staff
- FY 24 Awardees can send up to 4 representatives
- Can use Grant Funds if occurs within POP and is in budget
- Please Register by July 16
 - <https://www.eventbrite.com/e/2025-smart-grant-summit-tickets-1377967019449>
 - Include FAIN number in registration



U.S. Department
of Transportation

Reporting Requirements Alfreda Johnson (OST)

Major Program Deliverables

Deliverables	Due Date	Submit to
Data Management Plan	90 Days after POP Begins	https://dmptool.org/
Evaluation Plan	90 Days after POP Begins	smartreports@dot.gov
Quarterly Financial Reports (FFRs)	Quarterly	smartreports@dot.gov
Quarterly Progress Reports	Quarterly	USDOT SMART Progress Reporting Form (Page 1 of 3)
Draft Implementation Report	12 months after POP Begins	smartreports@dot.gov
Closeout	18 Months after POP Begins	Important to stay on schedule to be ready for Stage 2 NOFO
Final Implementation Report	60 days after award expiration	smartreports@dot.gov



U.S. Department
of Transportation


Data Management Plans
Due: 90 days after POP begins
Peyton Tvrdy (NTL)

Data Management Plans



- DMPs are due to <https://dmptool.org/> on August 15th (or 90 days after POP begins)
 - All DMPs are evaluated by Peyton from the National Transportation Library.
1. Creating your DMP with the SMART Grants template
 2. Writing the DMP and How to be Compliant
 3. Requesting Feedback
 4. Resources

Get an ORCID ID

- Why get an ORCID ID?
 - John Smith of University of California, Berkeley != John Smith of City of Houston
 - Easy link for all 3 of your SMART Grant Outputs:
 - Implementation Report
 - Dataset and supporting files
 - Data Management Plan
 - Automatic linking to all your publications, not just these 3
- How to Add your ORCID to the DMPTool
 - Login to DMP Tool/Create an Account
 - Click Person Icon 
 - Select “3rd Party Apps”
 - Add your ORCID ID

The ORCID logo is displayed in a light gray font with a soft drop shadow. The letters 'ORCID' are in a sans-serif font, with the 'i' being lowercase and green, and the 'D' being uppercase and green.

Create a New SMART Grants DMP



- Use this link:
https://dmptool.org/plan_from_funder_requirements?org_autocomplete%5Bfunder_id%5D=205&org_autocomplete%5Bfunder_name%5D=United+States+Department+of+Transportation+%28DOT%29+%28transportation.gov%29&org_autocomplete%5Bid%5D=205&org_autocomplete%5Bname%5D=United+States+Department+of+Transportation+%28DOT%29+%28transportation.gov%29&plan%5Btemplate_id%5D=2608
- Button Version of this Link is on the SMART Grants Page:
https://transportation.libguides.com/SMART_DMP_Guidance/Tips_and_FAQs

DMP Tool SMART Grants DMP Template

It is slightly different than last years template. It has been adjusted to make filling it out easier.
When in doubt, consult the LibGuide:
https://transportation.libguides.com/SMART_DMP_Guidance/Tips_and_FAQs

Why DMPs are Necessary and will Help You

Benefits of DMPs

- Establish a head contact person who oversees data management
- Describe early on what you plan to collect and what formats you anticipate creating/using
- Ensure you know the terms of your grant
 - Terms of the Public Access Plan
 - Required documents: DMP, README, JSON DCAT-US File
 - Required Open Publishing (No Paywall, No Passwords, Not Restricted)
 - Rights/Licenses/Restrictions
- Encourages you to plan your entire project and start to think about what happens down the road (**Publishing!!!!**)

DMPTool: Add Contributors

To Add Project Contributors

- Add new Collaborators as needed
- Need an ORCID? Go to <https://orcid.org/> to register for one. If your affiliation cannot be found? Check the “I cannot find my affiliation...” box and enter your agency in the new field.
- Apply Roles to Contributors (Data Manager, Principal Investigator, Project Administrator, or Other.)
- Click “Save” button

New contributor View all contributors

Name *

Email *

ORCID

Affiliation

 I cannot find my affiliation in the list

* Roles
Select each role that applies to the contributor.

Data Manager Principal Investigator Project Administrator Other

Automated Shared-Use Path Conflict Point Analysis

Project Details Collaborators **Write Plan** Research outputs Request feedback Finalize Download

Project Contributors

Please list the project's Principal Investigator(s) and those responsible for data management.

Name	ORCID	Email	Affiliation	Roles	Actions
Jesse Long	0000-0002-4962-1380	jesse.long.ctr@dot.gov	United States Department of Transportation (DOT) (transportation.gov)	Data Manager Principal Investigator Project Administrator	Actions
Leighton Christiansen	0000-0002-0543-4268	leighton.christiansen@dot.gov	United States Department of Transportation (DOT) (transportation.gov)	Data Manager	Actions

DMP Collaborators

Invite specific people to read, edit, or administer your plan. Invitees will receive an email notification that they have access to this plan.

Email address	Permissions	
jesse.long.ctr@dot.gov	Owner	
leighton.christiansen@dot.gov	<input type="text" value="Co-owner"/>	Remove
peyton.tvrdy.ctr@dot.gov	<input type="text" value="Co-owner"/>	Remove

Invite collaborators

Email *

To Add DMP Collaborators:

- This allows you to Invite specific people to read, edit, or co-own the plan. Invitees will receive an email notification that they have access to this plan. The person who created the plan will automatically show with the permission of “Owner.”
 - Under the table of current collaborators, you can invite someone to work/view the DMP by entering their email and assigning them permissions, either Co-owner, Editor, or Read Only.
 - **Co-owner:** has admin rights to the plan (can invite other users, view the plan, answer questions, or comment)
 - **Editor:** has edit rights to the plan (can view the plan, answer questions, or comment)
 - **Read Only:** has read rights to the plan (can view the plan or comment)
- After inputting an email and selecting permissions you will want to click on the “Submit” button to send the invite to your intended collaborator.

DMPTool: Add Collaborators

DMPTool: Write Plan Tab

1. Fill in each section to best of your ability
2. Each section includes guidance as to what information is requested
3. Each section has example answers and links to good DMPs
4. Each section has text boxes for you to fill out
5. Click “Save” button at end of each section
6. Once all sections are Saved, click on the “Request Feedback” Tab

Automated Shared-Use Path Conflict Point Analysis

Project Details **Collaborators** **Write Plan** **Research outputs** **Request feedback** **Finalize** **Download**


This plan is based on the “SMART Grants Stage 1 Data Management Plan (DMP)” template provided by United States Department of Transportation (DOT) (transportation.gov) - (ver: 0, pub: 2023-10-11).

expand all | collapse all 6/6 answered

+ Dataset and Contact Information (1 / 1)

Please provide as much of the the following information as possible:

1. Name of the project;
2. Grant number;
3. Name of the person submitting this DMP;
4. ORCID of the person submitting this DMP (need an ORCID? Register here: <https://orcid.org/>);
5. Email and phone number of the person submitting this DMP;
6. Name of the organization for which the person submitting this DMP is working;
7. Email and phone number for the organization;
8. Link to organization or project website, if applicable; and,
9. Date the DMP was written.

B *I* 12pt **A** 

1. Automated Shared-Use Path Conflict Point Analysis
2. SMART_2023_0001
3. Leighton Christiansen
4. <https://orcid.org/0000-0002-0543-4268>
5. leighton.christiansen@dot.gov
6. National Transportation Library
7. NTLDataCurator@dot.gov ; 800-853-1351
8. <https://ntl.bts.gov/ntl>
9. 2023-10-18

Press Alt 0 or Option 0 for help using the rich text editor with keyboard only.

Save

Comments & Guidance

Guidance **Comments**

DOT

1. Official DOT Public Access Plan v1.1
2. Creating a Data Management Plan guidance (advanced)
3. US DOT Public Access Data Management Plans collection

DMPTool: How to be Compliant

Section 3. Data Format and Metadata Standards Employed:

- Non-proprietary vs. Proprietary Formats
- If proprietary formats are used there needs to be documentation explaining the reason and the software needed for a user to open and view the data or documentation files.

Proprietary	Non-proprietary
software that is privately owned, controlled, and distributed under specific licensing terms that restricts its usage and often requires a fee or subscription to be used.	software that has no patent or copyright conditions associated with it. Nonproprietary software is publicly available software that can be freely installed and used.

- Also, remember that although Microsoft Office is for the most part widely available it is proprietary software that requires purchase. Instead, you could use .csv for Excel files and .txt or pdf. for Word files.

What to Write in your Plan:

- A general statement regarding open-access formats vs. proprietary formats. Just a general stance that you aim to be as open-access as possible with the release of the data to the public.
- List of file formats, and if any are proprietary you need documentation addressing why and the software and version needed for a user to open and view the files.

DMPTool: How to be Compliant

Section 4. Access Policies

- In general, data from DOT-funded projects must be made publicly accessible. Exceptions to this policy are, data that contain personally identifiable information (PII) that cannot be anonymized, confidential business information, and classified information.

What to Write in your DMP:

- Address these issues and outline the efforts you will take to provide informed consent statements to participants, the steps you will take to protect privacy and confidentiality prior to archiving the data, and any additional concerns.
- If these potential access issues do not apply to your project, you can have a simple statement, such as:
 - This project will not collect any personally identifiable information (PII) or is subject to confidential business information or classified information."

DMPTool: How to be Compliant

Section 6. Archiving and Preservation Plan:

- Public Access for Research Data
 - Recipients must comply with the US DOT Public Access Plan, meaning, among other requirements, **project data must be shared with the public**, if possible, either by the researchers or by US DOT.
- Conformant Repositories and Persistent Identifiers
 - The final data should be deposited into a publicly accessible repository (no payment requirements), provide persistent identifiers or captures them if you personally provide one to the data, and the repository should support the capture and provision of the US Federal Government DCAT-US Metadata Schema.
- **What to Write in the DMP:**
 - You can find a list of pre-approved data repositories that are conformant with the US DOT Public Access Plan at <https://doi.org/10.21949/1520566>. All data repositories on this list meet the Persistent Identifiers and DCAT-US requirement, so if you select one of them you would only need to add a brief sentence, such as “The repository _____ does provide persistent identifiers to their published data and supports the capture and provision of the DCAT-US Metadata Schema.”

Automated Shared-Use Path Conflict Point Analysis

Project Details

Collaborators

Write Plan

Research outputs

Request feedback

Finalize

Download

This plan is based on the "SMART Grants Stage 1 Data Management Plan (DMP)" template provided by United States Department of Transportation (DOT) (transportation.gov) - (ver: 0, pub: 2023-10-11).

expand all | collapse all

6/6 answered

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6. Name of the organization for which the person submitting this DMP is working;
7. Email and phone number for the organization;
8. Link to organization or project website, if applicable; and,
9. Date the DMP was written.

B *I* 12pt A

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6. National Transportation Library
7. NTLDataCurator@dot.gov ; 800-853-1351
8. <https://ntl.bts.gov/ntl>
9. 2023-10-18

Comments & Guidance

Guidance

Comments

DOT

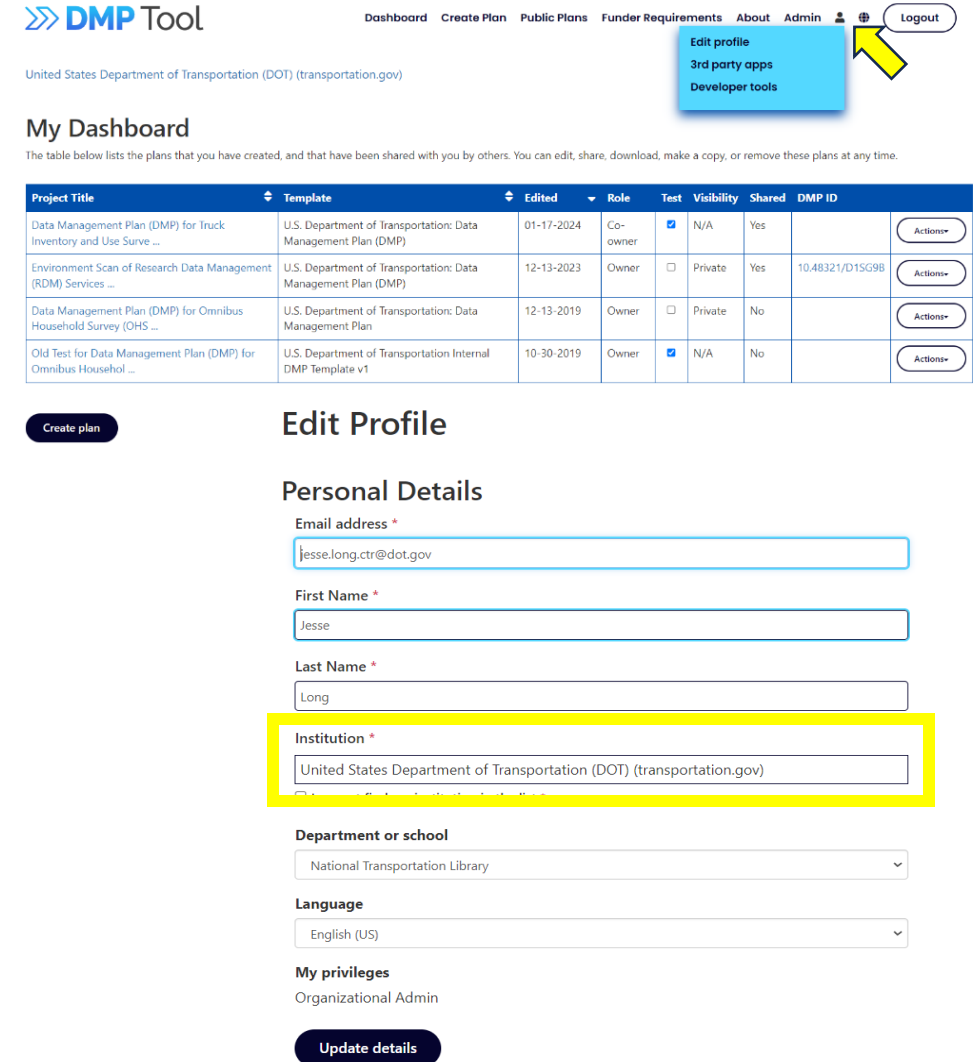
1. Official DOT Public Access Plan v1.1
2. Creating a Data Management Plan guidance (advanced)
3. US DOT Public Access Data Management Plans collection

DMPTool: How to Request Feedback

DMPTool: Request Feedback Tips

If you cannot see the 'Request feedback' tab, there are two possible issues:

- 1. Verify the institution listed under your profile:**
 - Top right-hand corner of the dashboard
 - Edit profile
 - Institution should be “United States Department of Transportation (DOT) (transportation.gov).”
- 2. Only the owner of co-owner can request feedback**
 - Editors are unable to submit
 - Owners can make editors and/or co-owners on the Collaborators tab



The screenshot shows the DMPTool interface. At the top right, there is a user profile menu with options: 'Edit profile', '3rd party apps', and 'Developer tools'. A yellow arrow points to this menu. Below the dashboard, there is a table of projects and an 'Edit Profile' form. The 'Edit Profile' form has a yellow box around the 'Institution' field, which contains the text 'United States Department of Transportation (DOT) (transportation.gov)'.

My Dashboard

The table below lists the plans that you have created, and that have been shared with you by others. You can edit, share, download, make a copy, or remove these plans at any time.

Project Title	Template	Edited	Role	Test	Visibility	Shared	DMP ID	
Data Management Plan (DMP) for Truck Inventory and Use Surve ...	U.S. Department of Transportation: Data Management Plan (DMP)	01-17-2024	Co-owner	<input checked="" type="checkbox"/>	N/A	Yes		Actions
Environment Scan of Research Data Management (RDM) Services ...	U.S. Department of Transportation: Data Management Plan (DMP)	12-13-2023	Owner	<input type="checkbox"/>	Private	Yes	10.48321/D15G9B	Actions
Data Management Plan (DMP) for Omnibus Household Survey (OHS ...	U.S. Department of Transportation: Data Management Plan	12-13-2019	Owner	<input type="checkbox"/>	Private	No		Actions
Old Test for Data Management Plan (DMP) for Omnibus Househol ...	U.S. Department of Transportation Internal DMP Template v1	10-30-2019	Owner	<input checked="" type="checkbox"/>	N/A	No		Actions

Edit Profile

Personal Details

Email address *
jesse.long.ctr@dot.gov

First Name *
Jesse

Last Name *
Long

Institution *
United States Department of Transportation (DOT) (transportation.gov)

Department or school
National Transportation Library

Language
English (US)

My privileges
Organizational Admin

Update details


DMPTool: Request Feedback Tips

- https://transportation.libguides.com/SMART_DMP_Guidance/Tips_and_FAQs

iSMART Grants: DMP Guidance: Writing your DMP Search this Guide Search

Guidance and Questions to support SMART Grant researchers

[Writing your DMP](#) [Finalizing your Project](#)


 **National Transportation Library**

SMART Grants Data Management Plan Guidance

SMART Grants DMP Guidance

The **National Transportation Library SMART Grants Data Management Plan Guidance** page is designed to assist SMART Grant recipients with common issues that occur when creating Data Management Plans (DMPs) and fulfilling the Department of Transportation's Public Access Requirements. This guide is comprehensive, containing several sections with various topics that will assist when writing DMPs, creating metadata, and preparing and submitting for publication. By following the recommendations outlined here, grant recipients can ensure that their research data is well-organized, accessible, and preserved for future use. This not only enhances the impact of their work but also contributes to the broader goals of transparency and reproducibility in scientific research. The Data Management Plans you create here will be the roadmap for your project and ensure your outputs follow Department of Transportation Requirements.

Use the Navigation Buttons below to quickly navigate this guide.

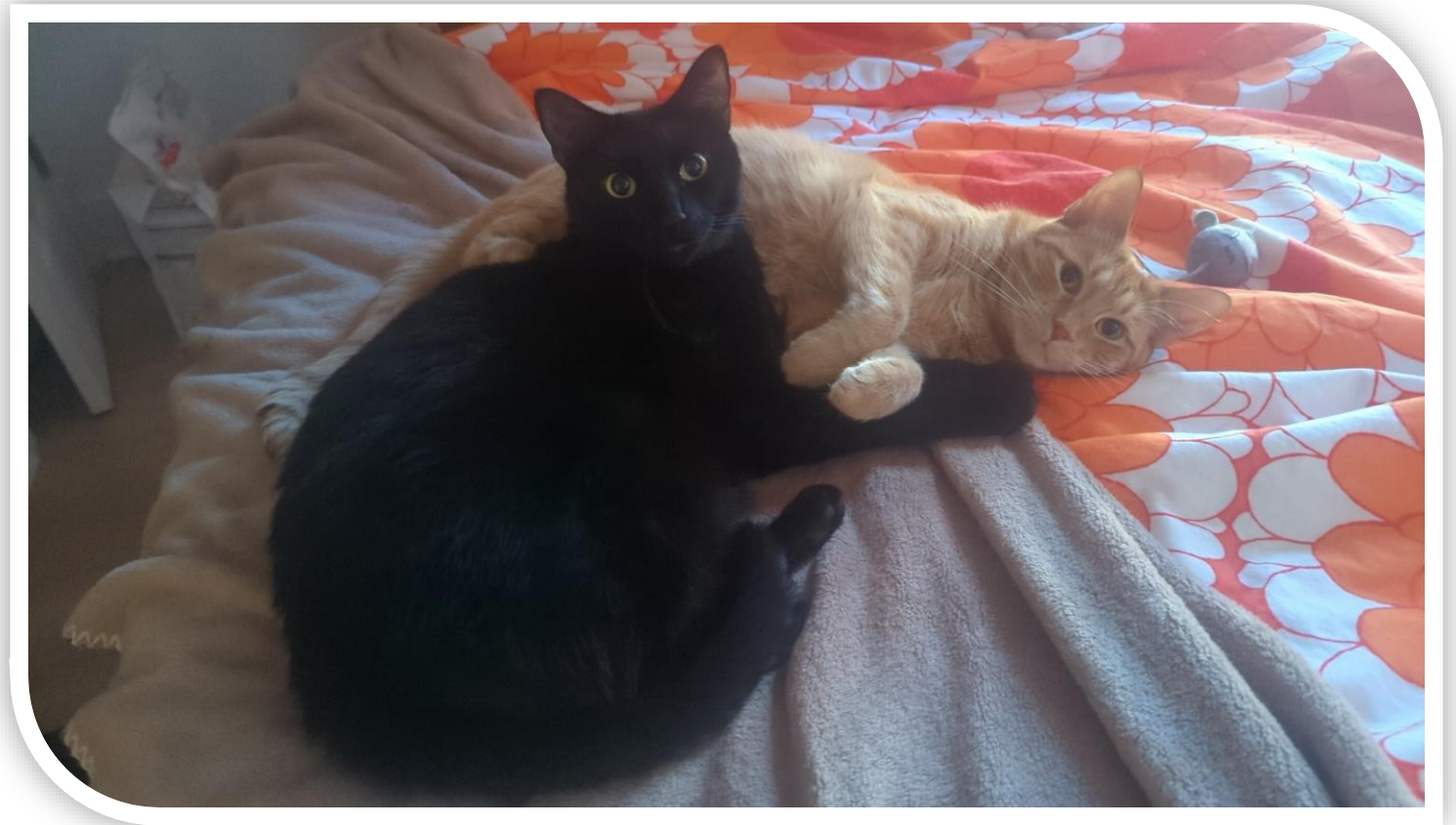


Contact Me for Questions!!!!

Contact Me:

NTLDataCurator@dot.gov

Public.Access@dot.gov





U.S. Department
of Transportation

Evaluation Plans

Due: 90 days after POP begins
Melissa Wong (Volpe)

The Role of Evaluation



SMART Grant: Overview of the Evaluation Plan

- The evaluation plan should have four parts:
 1. Introduction and Project Overview
 2. Project Goals and Objectives for At-Scale Implementation
 3. Performance Measures for the Proof-of-Concept or Prototype
 4. Evaluation Methodology for the Proof-of-Concept or Prototype
- Assume your reader is not familiar with the project but has a high-level understanding of the technologies
- Use language from your grant application, but **review the text and make adjustments for this context**
- Brevity is a virtue

Evaluation Plan: Introduction & Project Overview

(Part 1)

- Description of your project
 - Motivation
 - Technologies
 - Goals
- Overview of the proof-of-concept or prototype
 - Scale of the Stage 1 deployment (e.g., number of units, intersections, corridor length, partners, service area)
 - Anticipated scale of the Stage 2 deployment
- Summary of the evaluation process
 - Who is participating
 - What are their roles

Evaluation Plan: Project Goals and Objectives for At-Scale Implementation

(Part 2)

- Project goals
 - Starting with baseline performance measurement
 - Qualitative descriptions of the anticipated impacts of at-scale implementation in each of the listed goal areas
 - Quantitative estimates are encouraged where possible but not required
- Anticipated costs of at-scale implementation
 - The estimated costs of the proof-of-concept or prototype
- Supporting historical data (if available)
 - To inform project goals, performance measures, or performance targets for at-scale implementation
- Challenges, lessons learned, and/or recommendations (so far)

- Focus on your expectations for at-scale implementation of the project (Stage 2)
- The evaluation of the proof-of-concept or prototype can then be tailored to provide informative results and actionable insights

Evaluation Plan: Performance Measures for the Proof-of-Concept or Prototype

(Part 3)

- Evaluation questions
- Performance measures
- Performance targets

- Focus on the proof-of-concept or prototype being deployed during Stage 1
- One goal is to understand what would be realistically achievable through at-scale implementation
- The evaluation should refine your expectations, so informative performance measures are key

Evaluation Plan: Performance Measures for the Proof-of-Concept or Prototype

(Part 3)

Evaluation Question	Performance Measure	Performance Measure Target
1. How quickly could an alert message be displayed?	Time between detection, confirmation, and alert	3 seconds between detection and confirmation 2 seconds between confirmation and alert
2. Does the system reduce travel time through the intersection?	Travel time through the intersection	Decrease from baseline average
3. How well does the system function during irregular conditions?	Detection rate during extreme temperatures	85% of the detection rate under normal conditions

Evaluation Plan: Evaluation Methodology for the Proof-of-Concept or Prototype

(Part 4)

- Overview of how the proof-of-concept or prototype will be evaluated
 - Are the deployments for this project compared to a pre-deployment baseline, an alternative technology, or industry standards
- Methods to estimate the anticipated benefits and costs associated with at-scale implementation
- Summary of how data will be collected for the evaluation of the proof-of-concept or prototype and plans for data management
 - (e.g., data logging and transmission to the evaluation team if applicable; data storage; data access and privacy protection; data fusion if applicable, data quality checks, etc.)
 - Field data is preferred
- Overview of how challenges, best practices, and recommendations for future deployers will be collected
- Table of technical terms or acronyms and their definitions

Questions?