



## Mineta Consortium for Transportation Mobility: DRAFT Data Management Plan

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### Data description

The Mineta Consortium for Transportation Mobility (MCTM) will conduct research, education, workforce development, and technology transfer activities to improve mobility of people and goods and make our nation's transportation system safe, efficient, accessible, and convenient for all. The Consortium will conduct research to achieve the following goal and objectives:

**Goal: Lead the nation in research that identifies safe, reliable transportation solutions that increase mobility of people and goods and strengthen the nation's economy**

- **Objective 1:** Leverage new technologies and innovative processes to achieve a seamless, multimodal surface transportation system that integrates with other "smart city" investments.
- **Objective 2:** Create a safer, more reliable, and more resilient surface transportation system that improves equity through increased access to jobs, housing, services, and other opportunities.
- **Objective 3:** Reduce the impact of transportation on climate change by identifying feasible alternative modes and fuels and effective ways to reduce vehicle miles traveled.
- **Objective 4:** Extend surface transportation access to people of all abilities and socioeconomic levels, connecting people to where they live, work, and play.
- **Objective 5:** Optimize passenger and freight movements to improve mobility of people and goods through development of more accurate data models and advanced application of analytical tools.

Data developed as part of MCTM's research activities will include the following:

- Surveys of individuals, agencies and/or organizations;
- Geographic data;
- Data developed as a result of laboratory/fields experiments focused on research topics identified above. These data may include, for example: photos, videos, spreadsheets of experiment/laboratory results, etc.

Data will be collected throughout the duration of the five-year grant. The long-term value of the data will be to provide transportation decision-makers, the general public, and others interested in transportation research the ability to replicate research findings or utilize the data (with attribution) in subsequent studies.

Researchers funded through this grant will be required to indicate compliance with the data management plan prior to approval of any individual research project.

### **Data format and metadata standards**

Data from MCTM research activities will be primarily stored in standard, accessible data formats including, but not limited to: .csv, .txt, .rtf, .doc, .xls, etc. Geographic data will be stored in common formats including, for example, geodatabases, raster files, etc. Image files will be stored in common formats including, for example, .tif, .jpg, etc. While every effort will be made to archive data in open formats, proprietary formats will be utilized when those are the best way to present the data to retain the information or when the proprietary format (e.g. .doc) is commonplace.

Data will be anonymized and stripped of personally identifiable information in accordance with San José State's Institutional Review Board policies.

Metadata for each dataset will be provided following the standards set forth in the Project Open Data Metadata Schema v1.1 (<https://project-open-data.cio.gov/v1.1/schema/>). Criteria included will focus on authorship, subject, scope, as well as spatial or temporal extent of the data.

Metadata about the collected project data will be represented in either a JSON file or as a README.TXT file. The JSON or README.TXT file would accompany the dataset to provide maximum context.

Metadata standards, schema, and identifiers would be indicated in the citation record in ScholarWorks.

Data will be stored in a publicly accessible archive (San José State University's ScholarWorks repository) and users will be able to download the data to their own computers for use. Direct viewing of the data within the repository will not be available.

All funded research will undergo peer review conducted by two academics and one practitioner.

### **Policies for access and sharing**

All MCTM research that involves human subjects will be required to obtain approval from San José State University's Institutional Review Board (or equivalent entity from partner institutions). The University's Institutional Review Board ensures that the research is in compliance with university policy and federal regulations established to ensure the safety of research participants and the ethical and responsible conduct of investigators.



## **Policies for re-use, redistribution, derivatives**

Intellectual property rights for the data will comply with San José State policy. As such, ownership of copyrightable works are owned by the authors (e.g. SJSU faculty, staff, or students). Data produced under the auspices of this grant and subject to the requirement to post the data to a publicly accessible repository will utilize a CC-BY-NC license. This Creative Commons license requires attribution to the original author and allows the distribution, remix, re-use, and derivative works, as long as it is not for commercial purposes. The CC-BY-NC license will be noted in the record of the data posted to the online repository along with contact information for the corresponding author who can field inquiries regarding the data and its ownership.

## **Plans for archiving and preservation**

MCTM data will be archived through San José State University's ScholarWorks repository. ScholarWorks is a data repository conformant with the U.S. Department of Transportation's Public Access Plan.

Prior to submission to ScholarWorks, all data will be stored by individual principal investigators in a manner compliant with the approved IRB (for human subjects research). For submission to ScholarWorks, the data will be described and identified according to this data management plan.

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