

Plan Overview

A Data Management Plan created using DMPTool

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Title: Social and Ecological Benefits of Public Transportation System on Mo'orea

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Funder: Gump South Pacific Research Station (moorea.berkeley.edu)

Template: Digital Curation Centre

Project abstract:

Mo'orea is arguably a car-centric island, with one main road wrapping 60 km all the way around the island, with many roads branching off into the island. In January 2024, a private transportation bus system widely used by the local community was discontinued due to "lack of profitability", leaving both the students and those who commute to Tahiti to work without transportation to schools and the ferry station. This research project aims to study how the implementation of a public transportation system would impact the local community and ecosystems of Mo'orea. Qualitative data, including general local views on public transit and accessibility of island, will be collected through interviews and online surveys. Quantitative data on human and environmental health in relation to public transit will also be gathered, including predicted change in automotive gas emissions, traffic and commute times, drunk driving accidents per year, and percent of population with a driver's license.

Start date: 04-18-2024

End date: 08-18-2024

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Social and Ecological Benefits of Public Transportation System on Mo'orea

I will collect qualitative data, including general local views on public transit and accessibility of the island, through interviews and online surveys. I will also collect quantitative data on human and environmental health in relation to public transit, including predicted change in automotive gas emissions, traffic and commute times, drunk driving accidents per year, and percent of population with a driver's license.

I will conduct interviews and post flyers with a QR code linked to an online survey to collect my qualitative data. I will collect data on frequency of drunk driving accidents, and percent of population that owns a driver's license from databases provided by various government departments and insurance companies, and use computer modeling to obtain information on gas emissions. I will also conduct physical data collection using the pneumatic tubes method to collect traffic data. I will collect data on commute times for those with and without access to a car and past use of public transit using the online survey.

I will have metadata, including a description of the people interviewed (age, area of employment, residency). I will have documents describing the pneumatic tubes method, computer modeling, and creating tidy data spreadsheets.

I will ask for the consent of the interviewees to both interview them and allow data to be shared through formal consent agreements and allow anonymity for their protection. I will keep all data in a password-locked Google Drive.

I will be the owner of the copyright and IPR of the data, and I will share it for review and reuse.

The data will be stored in a Google Drive, and I will be responsible for backup and recovery. To avoid losing the data in the event of an incident, multiple copies will be made.

I will use a password-locked Google Drive.

This data may stay relevant for the next 5 years, but as the climate and local community changes, it may not be viable data for future reference. The data will be retained and preserved for as long as it is still relevant to its surrounding environment in Mo'orea, and may be used for comparison to future studies.

The long-term preservation plan for the dataset is to keep it archived in a data repository and in the published paper it will accompany.

I will use this data in a published paper which can be found with its DOI, and the metadata will also be made public via a repository. Most importantly, it should be made accessible to the residents of Mo'orea.

Restrictions of data sharing will be based on the formal consent agreement made with each individual interviewee. I do not require exclusive use of the data.

I will be responsible for data management.

I will require training and/or specialist expertise on some data collection methods, including using pneumatic tubes to collect traffic data, and computer modeling of changes in gas emissions.

Planned Research Outputs

Dataset - "Social and Ecological Benefits of Public Transportation System on Mo'orea"

Planned research output details

Title	Type	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Social and Ecological Benefits of Public Transport ...	Dataset	Unspecified	Open	None specified		None specified	None specified	No	No