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## CAREER: Location-Aware Social Science for Adaptation: Modeling Dynamic Patterns in Public Perceptions and Behavior

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## Data management plan

Data management is a core component of this project, and developing ways to publicly share and visualize data products are integral to the project's broader impacts. This project will take advantage of existing data management infrastructure at Utah State University (USU) to support the full data life cycle. Goals of data management for this project include: a) protect data from corruption or loss, b) preserve confidentiality of human subjects data, c) transform raw data into cleaned and error-checked datasets, d) provide and maintain metadata to accompany datasets, and e) share data and models with the larger scientific community and the general public through the USU Digital Commons, the ICPSR institutional repository, and this project's Risk and Adaptation Decision Observatory tool hosted at USU.

### 1 Roles and responsibilities

The PI at Utah State University will be ultimately responsible for management and analysis of data produced by the project. Graduate research assistants will manage the collection of survey data produced during the baseline, time series, and validation surveys. Data will be shared between the PI and graduate research assistants during the course of the project on a secure encrypted file sharing service.

### 2 Expected data

Several datasets will be developed throughout the course of the project including 1) new survey data from the baseline, omnibus, and validation surveys; 2) new variables derived from existing survey datasets; 3) demographic data derived from the U.S. Census and processed to match the survey datasets; and 4) results in the form of model projections of public opinion across the US. All survey responses will be voluntary, confidential, and unidentifiable. Survey data may include geocoded addresses that have been anonymized by randomly adjusting them within a 1 km radius. To preserve confidentiality and prevent re-identification of survey respondents these geocoded addresses will not be included in publicly available datasets.

### 3 Period of data retention

Data will be retained by the researchers for the duration of the project and additionally for a minimum of 3 years beyond project completion. Anonymized replication data from national surveys will be publicly released and archived 12 months after final versions are completed, to allow the research team time to publish initial results. Publicly available primary data and model results will be stored indefinitely on the USU Digital Commons institutional repository.

### 4 Data format and dissemination

All survey data will be initially stored and analyzed as SPSS or R data files. Since these formats could become unreadable over time as software systems change, final versions of all datasets and documents will also be exported to and made available as ASCII and/or CSV data files, with accompanying command/syntax files, so future users will still be able to access the data, even if this proprietary software is no longer supported. Public data files and published papers will be made available indefinitely online through the Utah State University Digital Commons. The main project website hosting the Risk and Adaptation Decision Observatory tool will include a catalog page that lists and links to the data sets created by the project. Final versions of the primary survey datasets, excluding personally identifiable information, will be archived with the ICPSR archive at the University of Michigan for use in secondary analyses by other researchers (<https://www.icpsr.umich.edu/icpsrweb/>).

### 5 Metadata

Each data file will be cataloged with accompanying metadata (e.g., filename, author, abstract, producer, geographic coverage, temporal period of collection, response rate, etc.) using Data Documentation Initiative (DDI) metadata standards for survey data. Each file will contain unique

metadata specific to that individual file (i.e., file- or resource-level metadata) and system-level metadata (relationships to other files), which allow it to be mapped for efficient search, discovery, and visualization.

#### **6 Data storage and preservation of access**

As specified above, upon completion of the project, all data excluding personally identifiable information will be stored in the USU Digital Commons and the ICPSR archive for public access.