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## A Socio-Ecologic Framework Supporting Individuals with Disabilities' Community Living and Participation

Keith M. Christensen  
keith.christensen@usu.edu

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## DATA MANAGEMENT PLAN

### Expected Data

A variety of data sets will be acquired and generated in the course of the project, including; transportation network spatial data, public transit network spatial data, socio-economic demographic data, social network data, land use spatial data, community emergency planning protocols, accessibility dataset, and personal mobility dataset (Activities of Daily Community Living survey data). Additionally, the Utah Department of Transportation's (UDOT) Statewide Planning Model will be acquired through a cooperative agreement which restricts the release of the information contained therein. This dataset includes travel demand data in the form of an Origin and Destination Trip Table. And the Wasatch Front Regional Council's (WFRC) UrbanSim planning model will be used through cooperative agreement with the WFRC, which also restricts the release of the information contained therein. A number of algorithms will be developed by the research team to model and quantify the socio-ecologic relationships between individuals with disabilities and the community environment. Much of the data produced and developed over the course of this project will be managed through IRB protocols for the protection of human subjects.

### Datasets

Unrestricted datasets and those without identifying information, as per the human subjects research protections, generated by this project will be deposited in *digitalcommons@USU* in standard, non-proprietary file formats, such as GIS geodatabases and Microsoft Word documents, to facilitate both data sharing and long-term preservation. *Digitalcommons@USU* is an online locus to bring together all of USU's research under one umbrella, with an aim to preserve and provide access to that research. *Digitalcommons@USU* will be responsible for reviewing all data submissions to ensure that they are in acceptable file formats. Datasets and documents in these formats will be reformatted in the future as older file formats become obsolete. Datasets in other formats may be deposited as supplemental files, especially in cases where proprietary file formats are supported by widely used data recording or collection tools or data analysis software.

### Metadata

*Digitalcommons@USU* uses a digital interoperability metadata schema to describe datasets. Each dataset deposited in *digitalcommons@USU* will be accompanied by required metadata fields, such as investigator name(s), measurement method and instrumentation, measurement precision and accuracy estimates, etc. *Digitalcommons@USU* will be responsible for reviewing all metadata for consistency and adherence to the repository's metadata standards.

### Planned Dissemination

Dissemination is an important aspect of the research team's activities and is critical to the successful completion of the research activities. This proposal aims to develop a socio-ecologic framework describing the physical environmental factors associated with individuals with disabilities' community participation. It also aims to apply this socio-ecologic framework to examine the effect of mainstream community planning practices and policies on individuals with disabilities' community participation.

The research results will be disseminated through publications in scholarly journals and presentations at appropriate conferences. Manuscripts will be submitted to scholarly journals in the fields of disability and planning, reflecting the interdisciplinary nature of this research. Likewise, presentations are anticipated in community planning and disability-focused venues. Copies of these presented papers and journal articles will be housed on *Digitalcommons@USU* according to the licensing agreement described below.

The dissemination of this information will also allow others to replicate and advance the body of knowledge. While publication ultimately occurs according to editor determined schedules, timely manuscript submission is seen as critical to the successful completion of the research activities.

Additionally, the governmental entities operating in the study area will be directly benefited by the study. These state-level governmental entities are: the Utah Department of Transportation (UDOT); the five county Building, Planning, and Zoning departments who are responsible for planning in the county; and the Wasatch Front Regional Council who provide planning services to the communities of the Wasatch Front. Community outreach activities will be conducted in collaboration with these organizations and other national and state organizations.

### **Preservation of Access**

All datasets created during the course of this project and deposited in *digitalcommons@USU* will be licensed under an Attribution-NonCommercial-ShareAlike Creative Commons license agreement. This license lets others remix, tweak, and build upon the research non-commercially, as long as the downstream user credits the researchers and license their new creations under the identical terms. This method preserves intellectual property while allowing more open dissemination.

### **Data Storage**

During the course of the project, the research team will keep the collected and produced data on local hard drives and shared, redundant, secure storage using Box to maintain convenient shared data between the research team.

When the project is finished, the research team will archive shared data using *digitalcommons@USU*. One of the attributes of a trusted digital repository is organizational viability. The long-term preservation of digital objects in *digitalcommons@USU* is the responsibility of the University. If, for any reason, the University should discontinue its support of *digitalcommons@USU*, one of the following options will occur:

- A different department or entity within USU will assume responsibility for *digitalcommons@USU*, or,
- The contents will be returned to the depositor(s) in an agreed upon manner, or,
- A partner digital archive program outside of USU will be identified and asked to assume responsibility for the content.

At the time of transfer, the University will ensure that the transfer media and dissemination format will be relevant and compatible with current best practices and standards. As the digital preservation community evolves in its understanding of digital repositories, USU will modify its succession plans so as to continue in its role as a trusted digital repository.

Implementation of the data management plan will be evaluated regularly to improve the performance through feedback generated by ongoing assessment.