Abstract

This multi year project is aimed at developing communitybased transportation decision support systems focusing on pedestrian safety and the enhancement of the pedestrian infrastructure. These goals will be achieved through the development, testing, evaluation, and transferring of GIS and PDA-based tools focusing on measuring and mapping the pedestrian environment. The tools are developed in a way that maximizes public involvement by local municipalities, school districts, transit agencies, and citizen groups while minimizing the training needs of a general, non-GIS using public. With the data, communities can conduct self assessments of local scale walkability, identify specific geographic areas of unsafe conditions, prioritize areas of greatest need, engage with local transportation officials more productively, and be better prepared to leverage enhancement funds.

Subsequently, the purpose of the tools is twofold: 1) to collect relevant information about the walking environment that can lead to greater safety and an increase in pedestrian utilization; and 2) to catalyze community involvement that can leverage public and other resources that can result in increased rates of walking.





- Focuses on safe routes to school, walking, and healthy transportation for kids

- Tested in Oregon, Washington, Wisconsin, & Minnesota







Active Transportation, Neighborhood Planning and Participatory GIS Marc Schlossberg, PhD, University of Oregon

Objectives

To develop and test a series of GIS-based pedestrian assessment tools that can be utilized in a public involvement forum where data gathering, data synthesizing, and basic map production can be carried out with minimal training and minimal need for an outside technician.

To package these tools into self-contained applications for distribution to communities throughout the country



What makes a walkable environment?



1. Train citizens on healthy communities, transportation, and mobile GIS



2. Citizens collect data in the field using PDAs and GIS



new data

Completed Tool

School Environment Assessment Tool (SEAT)

- Tool, training, and data instrument packaged for nationwide distribution



Complete Streets Assessment Tool (CSAT) ADA Assessment Tool (ADAAT) Transit Stop Assessment Tool (TSAT) **Bike Parking Assessment Tool (BPAT)**

- assesses bike parking (legal and illegal) in compact areas

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- Identify key variables for assessing walkable & bikeable environments
- Translate those variables into data gathering instrument within GIS
- Design instrument in "dummy proof" format for general citizen use
- Train citizens on the issues of urban form, active transportation and public health, and GIS tool
- Citizens gather data
- Synthesize data & make maps instantaneously
- Convene citizen discussion about results
- Plan citizen action steps to translate data into community action

3. As citizens return from the field, maps are made with



Starting October 1st, it will be important that we all record the number of volunteer hours we put in for SRTS related projects.

4. The new citizen coalition transforms data, analysis, and political capital into action.

Tools in Progress

- assesses if arterials/collectors accommodate bikes & peds

- assesses sidewalks & intersections in terms of ADA standards

- assesses pedestrian environment to/from/around transit stops

