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TITLE: Dane County Land Records Project

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The Dane County Land Records Project, University of Wisconsin-Madison requests display space for the poster session at Auto-Carto 7. We would like to display 8 posters each measuring 28 inches in width and 44 inches in height totaling 20 linear feet. The panels detail the role of the Dane County Land Records Project in the modernization of land records on the local level. A brief description of individual panels follows:

Panel 1: The Dane County Land Records Project: An Overview.

A discussion of the goal and objectives of the project in implementing a modernized multi-purpose land information system. Listed are the federal, state and county agencies, private firms, professional associations, and utilities involved with the Dane County Land Records Project.

Panel 2: Legal and Institutional Requirements for Land Records.

Details of the data requirements mandated by representative Wisconsin State Statutes. Examples include wetland mapping, groundwater protection, soil erosion control and animal waste management legislation. Emphasis is placed on those land/resource records that simultaneously satisfy several legal and institutional data requirements.

Panel 3: Importance of Land Records Modernization:

Costs and beliefs. Results are given from two recent studies detailing the costs to the citizen to maintain the present land information base and to belief disparities among individual producers and users of land records.

Panel 4: Benefits Derived from Modernization of Land Records.

The various types of benefits that can be expected in general from a modernized land records system are outlined. Included are several examples of specific benefits that accrue to local governments, private firms and individual citizens.

Panel 5: Modernization of Land Records: Positioning Technologies.

Results are given from three recent research projects conducted at the University of Wisconsin-Madison as part of the Dane County Land Records Project. Discussed are the technological and economic implications of using Doppler, Global Positioning System (GPS) and inertial surveying systems for geopositioning.

Panel 6: Application of ODYSSEY for Aggregate Resource Planning.

Given are the results of a case study to identify limitations suburban development and zoning restrictions impose on sand and gravel resources. Results are presented in tabular and plotter formats.

Panel 7: Use of a Modernized Land Information System Monitoring Soil Erosion.

Given are the results of a case study to quantify parcel specific soil loss while allowing the capability for generalized county-wide soil loss planning from the same data base. Results are presented in tabular and plotter format.

Panel 8: Conclusions and Recommendations.

General recommendations and conclusions for state and local government are made as derived from the research experiences of the Dane County Project.