

## Road System Management Tools for Tribal Agencies – GIS

The Upper Great Plains Transportation Institute is offering highway management tools to help Tribal Transportation with planning, budgeting and analysis of their road assets. GIS tools can help Tribal transportation planners:

- Determine capacity enhancements
- Identify key locations for safety improvements
- Improve operations
- Identify critical infrastructure investment needs

### GIS Software

An applied Geographic Information System (GIS) is vital for road planning and asset management. The Upper Great Plains Transportation Institute can provide tribal agencies with initial and on-going technical assistance to enable them to harness the power of Transportation-GIS models and information systems. Faculty and graduate students will provide in-house and continued support in the design and initial implementation of GIS-transportation networks, as well as on-going support and training in the use of the software for road planning and asset management.

Tribal planners will be guided through the process of establishing an initial inventory of assets and roadway networks, linking the IRR inventory with widely used GIS models, and conducting planning analyses such as truck trip routing and system needs assessments. Graduate students (under the supervision of faculty) will consult with individual tribal planners, providing one-on-one technical assistance as requested.

ALL software is compatible with old and current versions of ArcGIS.

## **Service:**

UGPTI offers software, initial training and set-up and ongoing technical assistance at no cost to tribal agencies.

To request the software or other transportation assistance, go to <http://www.ugpti.org/outreach/tribal/> and click on the "Request Technical Assistance" link.

For more information, contact:

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## **UGPTI Tribal Outreach**

The Upper Great Plains Transportation Institute's Tribal Outreach effort improves safe transportation of people and goods on tribal reservations to enhance livability, community and cultural values through increased accessibility to employment, workforce development opportunities, education, healthcare and housing.