Bridging the Gap: Enterprise GIS Solutions for the Navajo Nation

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Showcase how the Navajo Nation Department of Transportation is utilizing GIS technology to better manage, improve, and secure funding for its current roadway infrastructure.

A system database and architectural design was built that met the business objectives of the Navajo DOT and satisfied the reporting requirements of the Bureau of Indian Affairs. Multiple applications were developed for the Navajo DOT that allowed for the viewing, editing, querying, mapping and reporting of data. The system was refined to streamline all aspects of the infrastructure management system and long range transportation planning applications. The applications were enhanced and streamlined to ensure that all of the application interfaces provided a useful container for storing and retrieving data. The main focus of training was to transfer knowledge of the system to the Transportation Planners of the Navajo DOT. Ultimately, the completion of a roadway inventory for Navajo DOT provided the entity with an opportunity for increased federal funding for roadway improvements within the Nation.