

3.1.1 South Dakota DOT Business Intelligence Using GIS

Presenter

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Each year, executives for the South Dakota Department of Transportation (SDDOT) must answer questions in regard to how tax dollars are being spent to maintain the State's transportation infrastructure. Also, the SDDOT is asked to report on cost and labor information between each of its internal reporting regions in addition to drawing comparisons with other State DOTs. As is the case with most public agencies, the SDDOT is asked to do more with less.

To meet these challenges, the SDDOT hired Cost Technology, Inc. to implement a business intelligence software solution for activity-based management (ABM) and strategic performance management (SPM). The data generated in both ABM and SPM is dynamically displayed in an interactive ArcIMS generated map. Displaying the data via ArcIMS allows SDDOT users to draw comparisons between each reporting unit for dollars spent, total hours and cost per hour for literally hundreds of metrics dealing with maintenance, engineering, facilities management, business improvements, organizational health and other related transportation infrastructure items. The result is a systematic and precise approach to drawing comparisons internally, externally and over specified time periods.