

**Geographic Information System (GIS) Development (IWAYS)**

**FY2011 Request: \$250,000**  
**Reference No: 41539**

**AP/AL:** Allocation

**Project Type:** Information Technology / Systems / Communication

**Category:** Transportation

**Location:** Statewide

**Contact:** Frank Richards

**House District:** Statewide (HD 1-40)

**Contact Phone:** (907)465-3900

**Estimated Project Dates:** 07/01/2010 - 06/30/2015

**Appropriation:** Surface Transportation Program

**Brief Summary and Statement of Need:**

This project develops the Highway Analysis System - Geographic Information System (HAS-GIS) concept of operations, systems architecture, and long-term systems deployment. Project work includes road centerline/inventory data collection and processing, business process development (data quality, linear reference system, highway data warehouse, HAS-GIS Interface), a spatial geodatabase, GIS software, network systems, GIS tools, a highway data warehouse, training, and technical support. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

<b>Funding:</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>	<b>FY2014</b>	<b>FY2015</b>	<b>FY2016</b>	<b>Total</b>
Fed Rcpts	\$250,000						\$250,000
<b>Total:</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$250,000</b>

<input checked="" type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input checked="" type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
9% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
<u>One-Time Startup:</u>	<u>0</u>	<u>0</u>
Totals:	0	0

**Additional Information / Prior Funding History:**

FY2009 - \$287,750; FY2008 - \$831,000; FY2007 - \$300,000; FY2005 - \$700,000; FY2004 - \$750,000.

**Project Description/Justification:**

This project will support the continued development, enhancement and deployment of the Departments transportation data and Geographic Information System (GIS). It will integrate existing data contained within the Department's Highway Analysis System (HAS) and other external data with the developing GIS capabilities. This allows multiple data layers; such as roadways, bridges, various assets and other spatial information to be viewed and analyzed, instead of relying on the traditional column/row textual view of the data. The HAS-GIS Interface/migration will provide improved data quality, as well as improved data access, display, analysis, and output. The GIS development will move towards a more integrated approach that unifies the processing, management, maintenance and output of the centerline network, the linear referencing system, RoadLog, and other spatial and business data sets. This project establishes the foundation for building and deploying an enterprise solution as well as providing the basis for deploying Intelligent Transportation Systems (ITS) that rely on geospatial referenced data. The Alaska IWAYS Architecture Implementation (Statewide ITS Plan)

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recognizes a HAS-GIS project as an ITS enabling technology that will improve traveler safety, increase the efficiency of Department operations and enhance the quality of life in the State of Alaska.

This project also supports the data collection program that provides a comprehensive, up-to-date source for network centerlines, highway inventory, assets and photolog which is critical to supporting the GIS effort.