| Statewide: Geographic Information Systems (GIS) Development | FY2008 Request: | $300,000 |
|---|---|---|
| | Reference No: | 38572 |

**AP/AL:** Allocation  
**Category:** Transportation  
**Location:** Statewide  
**House District:** Statewide  
**Estimated Project Dates:** 07/01/2007 - 06/30/2012  
**Appropriation:** Surface Transportation Program

**Project Type:** Planning

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**Brief Summary and Statement of Need:**

Upgrade the Department's transportation data and geographic information system (GIS) capabilities. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage, by improving the mobility of people and goods and by increasing private investment.

| Funding: | FY2008 | FY2009 | FY2010 | FY2011 | FY2012 | FY2013 | Total |
|---|---|---|---|---|---|---|---|
| Fed Rcpts | $300,000 | | | | | | $300,000 |
| Total: | $300,000 | $0 | $0 | $0 | $0 | $0 | $300,000 |

| ☑ State Match Required | ☐ One-Time Project | ☐ Phased - new | ☑ Phased - underway | ☐ On-Going |
|---|---|---|---|---|
| 9% = Minimum State Match % Required | | ☐ Amendment | ☐ Mental Health Bill | |

**Operating & Maintenance Costs:**

| | Amount | Staff |
|---|---|---|
| Project Development: | 0 | 0 |
| Ongoing Operating: | 0 | 0 |
| One-Time Startup: | 0 | |
| Totals: | 0 | 0 |

**Additional Information / Prior Funding History:**

FY2007 - $300,000; FY2005 - $700,000; FY2004 - $750,000.

**Project Description/Justification:**

The Alaska Department of Transportation and Public Facilities' (DOT&PF) Division of Program Development is responsible for collecting and disseminating transportation data to users through the use of two tools: the legacy mainframe Highway Analysis System (HAS) and the Highway Data Portal. DOT&PF has begun targeted upgrades to the Roadlog and Geographic Information System (GIS) components of HAS to improve the overall quality of service of the tools. This comprehensive project is called the HAS-GIS Interface Project.

The goals of the HAS-GIS Interface project are to review HAS, analyze user needs and requirements for integrating GIS with HAS, and make implementation recommendations. The objective of the project is to develop targeted HAS–GIS upgrade strategies that can be implemented in three to five years that will:

- Establish a HAS – GIS interface to improve data access, display, analysis, and output;

- Unify the processing, management, maintenance, and output of Roadlog and the road centerline network data in an integrated system; and

- Establish HAS as a foundation for linear reference-based GIS within the Department.

- Develop the HAS-GIS interface that will form the foundation to deploy Intelligent Transportation Systems (ITS) statewide. ITS often relies on accurate real-time geo-spatial referenced data that is stored in a GIS. The Alaska Iways Architecture Implementation (aka statewide ITS plan) recognizes a HAS-GIS interface as an ITS enabling technology that will help

improve traveler safety, increase the efficiency of DOT&PF operations, and enhance the quality of life in the State of Alaska.