

**Statewide: Intelligent Transportation Systems
Implementation Plan (IWAYS)**

**FY2006 Request: \$2,000,000
Reference No: AMD 40373**

AP/AL: Allocation

Project Type: Construction

Category: Transportation

Location: Statewide

Contact: John MacKinnon

House District: Statewide (HD 1-40)

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Estimated Project Dates: 07/01/2005 - 06/30/2010

Appropriation: Surface Transportation Program

Brief Summary and Statement of Need:

Design and construct projects that are part of the Alaska Iways Architecture Implementation (AI2). Program areas include snow & ice removal, multi-modal information connections, traveler communications, internal operations, commercial vehicle operations and traveler safety and infrastructure security. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

Funding:	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
Fed Rcpts	\$2,000,000						\$2,000,000
Total:	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000

<input checked="" type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> On-Going
9% = Minimum State Match % Required		<input checked="" 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
One-Time Startup:	0	0
Totals:	0	0

Additional Information / Prior Funding History:

FY2004 - \$1,400,000; FY2003 - \$1,300,000.

Project Description/Justification:

ADOT&PF, through cooperation with local, regional, and state agencies, initiated a statewide ITS (Information Technology System) implementation plan, more commonly known as the Alaska Iways Architecture Implementation (AI2). AI2 sets forth a coordinated approach to improve transportation system efficiency and inter-agency communication through the effective deployment of ITS technologies in Alaska. AI2 was developed using nationally accepted guidelines (National ITS Architecture) and an approach that takes into consideration ITS activities that have occurred throughout the US.

To meet the transportation user needs, AI2 focuses on 6 program areas where ITS deployment can provide the greatest benefits: commercial vehicle operations, multi-modal information connection, internal operations, traveler safety and infrastructure security, traveler communications, and snow and ice control. AI2 addresses the needs within each of the six program areas and maps them to the broader National ITS Architecture to clearly show how each of those needs can be met. Overall, AI2 will be used to guide and prioritize ITS deployment statewide.

The Road Weather Information System (RWIS) network is a collection of environmental sensor stations (ESS) strategically located along major routes. Each station has weather sensors that collect atmospheric information, pavement conditions, sub-pavement temperatures, and images to display the roadway conditions. Up to 42 sites will be deployed during the entire project. Deployment occurs in phases.

Phase 1 - Municipality of Anchorage: 8 sites 2001-2002

Phase 2 - CY 2003: 16 sites

Phase 2 - CY 2004: 10 sites

State of Alaska Capital Project Summary

FY06 Governor's Amended

1/4/11 10:17:02 AM

Department of Transportation and Public Facilities

Reference No: AMD 40373

Released March 1, 2005

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Phase 2 - CY 2005: 4 sites

Phase 2 -CY 2006: 4 sites

ADOT&PF Maintenance & Operations (M&O) use the RWIS information to make winter maintenance decisions such as snow plowing and deicing activities. The RWIS system provides information to improve the safety and efficiency of travel. RWIS data are available internally through ScanWeb and externally to the public via the ADOT&PF public RWIS web site and through the new 511 system (<http://511.alaska.gov>). The RWIS website is getting 74,000 page hits and 2,500 unique visitors per day on average. RWIS data are also transferred to the National Weather Service and Elmendorf AFB.

RWIS serves three main purposes:

- To assist in better winter maintenance decisions like snow removal or deicing services.
- To improve safety of the traveling public through access about the roads conditions.
- To share with partnering agencies and help improve local forecasts.

The RWIS web links improve ADOT&PF M&O access to road weather data specifically used to improve winter maintenance activities. Without the RWIS data giving them real-time road weather data, M&O have to drive the roads to personally observe the conditions and/or get National Weather Service weather information via the internet or phone.

The department anticipates both cost savings and staff time savings. The RWIS data improves the efficiency of winter maintenance operations by having real-time road condition data available in the M&O offices. The system also provides information about the resources needed to deal with a snow event (e.g., personnel and sand).