

PUGET SOUND REGIONAL COUNCIL PRIORITY PROJECT LIST

NARRATIVE PROJECT INFORMATION - October 2011

Due to Peter Heffernan (peter.heffernan@kingcounty.gov) no later than close of business Wednesday October 12.

Project Sponsor: *King County*

Project Name: *King County Rural Road Weather ITS*

Project Location: *Throughout King County*

What type of project is it: Support Centers ____ Corridors Serving Centers **X**

Plan Consistency:

- Transportation 2040 project number: N/A
- Is the project consistent with the Transportation 2040: Yes **X** No ____

Project Description - No more than two full page - (see evaluation criteria for information to include):

- Briefly describe the project

This project installs Road Weather Information Systems (RWIS) and Flood warning systems at various locations throughout rural, unincorporated King County. The equipment will alert King County Maintenance crews and the traveling public of inclement weather and flooding, increasing safety, reducing maintenance costs, and improving emergency response to weather and flood conditions. Cost for the RWIS is \$30,000 per site plus approximately \$30,000 one time cost for integration and \$10,000 for a camera. There are several locations that would benefit from a small Dynamic Message Sign (DMS) to warn of inclement weather. The Flood warning system would depend on the type of warning, but is estimated at \$91,000 per site which includes the sensor, camera, a sign that warns traffic of road closed or water over roadway, ability to send an automatic message to maintenance, and integration to post to the County web. Systems would include:

- Snoqualmie Valley Flood warning system: 6 corridors which includes a camera, sensor, and sign or barrier that warns of water on road or closes the road. Cost: \$595,000
- RWIS SE County and NE County: 10 sites with camera, sensors, and integration into the King County network and internet, plus small dynamic message signs to warn the driver of surface conditions. Cost \$580,000.

- What is the intended outcome & benefit

The King County Rural Road Weather ITS will improve safety of the traveling public, improve maintenance efficiencies, and provide information to the traveling public before and during their trip. These systems will feed into King County's internet presence providing the travelling public and emergency aid agencies with critical, real-time road condition, weather and flood information.

Project Status & Timeline

Where is the project at in development? The county has worked with King County Maintenance to determine potential sites during the development of the County ITS Strategic Plan. One road surface sensor is being installed in 2011. Actual design has not started for the Rural Road Weather ITS project.

What is the timeline for this project from start to completion? The project can be designed and implemented in 18 months.

Pre-Design: January 1, 2014 – March 31, 2014

Design: 6 months: April 1, 2014 – December 31, 2014

Construction procurement: January 1, 2015- March 31, 2015

Construction: April 1, 2015 – December 31, 2015

Additional Comments

Given recent work force reductions in King County Roads Maintenance, implementation of this technology will automate information gathering and delivery previously conducted by physical inspection. Funding and installation of these systems will provide the public with crucial information while providing an efficiency for King County Maintenance.