DRISI Project Plan Example

PROJECT PLAN - SUMMARY REPORT

Interim v0.96

STRATEGIC TIE

WBS:
NO: P77

Title: Automated Safety Warning System Controller

Deployable Product/Service: A fully tested, District accepted, TEES ready, documented software installation package for an environmentally hardened embedded Linux system that can be easily configured to acquire sensor data from and send data to various roadside devices autonomously. The controller will activate various traveler information devices to notify the motorists of the roadway condition.

Goal: Safety
SRQs: SF4 - Proactive Safety
SF6 - Driver Behavior

PSC: Rural
TAP: Rural
Family: Rural Highway Conditions & Regional

Sponsor: Ed Lamkin
Customer Rep: Ian Turnbull
Project Mgr: Campbell, Sean
Deploy Champ:
Implem Champ:

STATUS & FUNDING

Project Initiated in RPMD: 1/24/2008
Recommended by PSC:
Initially Approved by RDSC: 8/18/2009

Project Status: Approved
Project Start Date: 6/15/2006
Project End Date: 12/31/2013

%Complete:
Deployment Stage: 3
On Scope? Y
On Budget? Y
On Time? Y
Updated as of:
Qtr FY

FY	$ Requested
12/13	$100,000
13/14	$150,000
14/15	$50,000
TOTAL:	$300,000

TOTAL:

FY	$ Allocated
05/06	$80,530
06/07	$147,963
07/08	$71,507
08/09	$0
09/10	$75,000
10/11	$150,000
11/12	$75,000
TOTAL:	$600,000

TOTAL:

PROJECT OVERVIEW

Background & Problem Statement:

Automated warning systems are not a new concept within the transportation community. There are several projects on the state highway that use the concept of a roadway sensor initiating some type of motorist warning. To date, all of these systems are unique implementations that use one-of-a-kind software for control. The system controller is a custom device which can only be used with that particular project's physical and electrical layout. The department has benefited from a standardized approach to individual field elements such as Changeable Message Signs, Extinguishable Message Signs and detection loops. A standardized automated warning system controller, which controls standardized field elements in a system environment, has not been developed to date.

Description:

Phase I - Initial Design : Determine the best platform to design the controller on. Determine initial user and system requirements. Design software based on initial requirements. Integrate lab prototype. Lab testing based on initial requirements. Field site determination, installation, testing and evaluation at four locations.
Phase II - Enhancements and Field Tests : Focus on enhancements that are necessary based on results of Phase I. Deploy enhanced controller at existing field sites as well as other test sites throughout state. Evaluate enhanced controller based on rigorous testing criteria. Begin institutional policy change to garner statewide support for controller. Software and hardware documentation.
Phase III - Specifications and Deployment : Create TEES standards and specifications for controller. Transfer technology from research partner to customer partners. Provide national exposure opportunities. Add controller to qualified products listing.

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PROJECT OVERVIEW

Outcome:

To influence driver behavior by presenting the motorists with proactive, timely, accurate roadway condition information. Using this information, the motorist can take appropriate action such as slowing down, pay greater attention to the roadway and be aware of conditions external to the vehicle.

Benefits:

Assists the Department's goal of reducing the fatality rate on the California state highway system.
Reduces incidents on the rural highway network.
Real time traveler information to the motorists.

Constraints:

Intellectual property issues need to be worked through legal in order to deployed nationally.

Additional Resources:

District staff to undergo two-day training class. District to procure embedded Linux platform for each deployed location. DRI to support during lifetime of product.

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TASK SUMMARY

Project Timeline

Task: Automated Safety Warning System Controller Phase I : Initial Design

Task ID: 1007 **Pooled Fund:** N **Lead:**

$ Requested	$ Approved	$ Allocated	$ Balance	On Scope?	On Budget?	On Time?	% Complete:	Status:
$0		$300,000		Y	Y	Y	100	Closed

Jun-06 Dec-09

Task: Automated Safety Warning System Controller Phase II : Enhancements and Field Tests

Task ID: 1750 **Pooled Fund:** **Lead:**

$ Requested	$ Approved	$ Allocated	$ Balance	On Scope?	On Budget?	On Time?	% Complete:	Status:
$0	$300,000	$300,000		Y	Y	Y	40	Active

Apr-10 Mar-12

Task: Automated Safety Warning System Controller Phase III : Specifications and Deployment

Task ID: 1751 **Pooled Fund:** **Lead:**

$ Requested	$ Approved	$ Allocated	$ Balance	On Scope?	On Budget?	On Time?	% Complete:	Status:
$300,000								Proposed

Jan-12 Dec-13