Project Closeout Report

Project Name: GIS Image Log

Agency: North Dakota Department of Transportation

Business Unit/Program Area: DOT Information Technology

Project Sponsor: Doug Faiman

Project Manager: Brian Bieber

Project Objectives	Measurements	
	Met/ Not Met	Description
GIS Enabled	Met	The user can start the video log by clicking on a state highway with video log tool. The application includes geographic data with access to the DOT spatial datasets such as RIMS, Pavement Info, Traffic Info, and State/County/City imagery. Not only can the user view forward looking images (being played as a video) but view where they are at spatially. Common feature attributes are easily accessed through map tips or by identifying features. The user can find information about the DOT's assets in an intuitive environment and the experience can be leverage in other geographic applications. The general consensus is that this application will make it considerably easier for the casual/general user to access information. They will be able to make faster and better informed decisions.
Platform neutral	Met	The application is a web based application. It requires IE, the DOT's standard web browser. The user does not require any plug-ins or downloads.
Usable in low connection speed offices	Met	The new system works efficiently in outlying offices. The old desktop video log system (non-geographic) takes anywhere from 5 to 10 minutes to load in offices where they have T1 lines. After the system is running it takes another minute to access just one image let alone running the images consecutively like a video. The new system can access the video log images within 30 seconds of start up. A significant improvement.
System in production in a cost effective manner	Met	The total cost of the application was $212,300. We definitely received more than what we originally set out to accomplish. We were happy with the contractor and their willingness to provide a robust and extendable application.
Create a process to update images each year when the highway system is assessed	Met	Processing of the images is in place. We now have the ability to place images on the state road network with reasonable efficiency. Although the process is about 99.9% accurate we still need to work manually through the exceptions.
State Agency Access Contractor Access External Access	Not Met	Removed from the original charter.

Project Closeout Report

Schedule Objectives			
Met/ Not Met	Scheduled Completion Date	Actual Completion Date	Variance
Not Met	5/15/07	6/30/07	+45 days

Budget Objectives			
Met/ Not Met	Baseline Budget	Actual Expenditures	Variance
Met	$229,200	$212,300	-$16,900

Major Scope Changes
No major scope changes occurred with this project.

Lessons Learned

- Modify contract so it explicitly states that each deliverable is a milestone and that the contract can be terminated because of non-compliance.
- Deployment Plan – The payment for the Deployment Plan should be based on when the application is up and running in the test environment.
- Work Breakdown – The work breakdown structure was too focused on the contractor, it did not account for data gathering and data verification by the DOT.
- 50% Completion Payment – Determine in writing what constitutes 50% complete. Suggest all major components functional and access to a working application on contractor's infrastructure. Another approach would be to separate out each interface and evaluate each one as a deliverable instead of as a whole.
- Require detailed architectural diagrams at 50% completion of application. This includes getting screen shots earlier in the process.
- Add more milestones – Document completion metrics such as what constitutes test installation and production installation.
- Document when DOT can test application and provide comments.
- Have vendor determine what they need from us. Document in Requirements Document.
- Flesh out Quality Plan more…what constitutes quality. Need to have more metrics to test against such as performance numbers. How many seconds it takes to reverse directions within the Video Log.
- Flesh out more risks.
- Only have 1 vpn account for the contractor. This was a major hassle as each individual was given the same rights. If the contractor requests separate rights for different programmers then use of multiple vpn accounts would be appropriate.
- Make sure that you have ONLY 1 set of dates to compare against. Do not have an internal and external set of dates. You could use a project date and constraint date where the difference between the two is the total available slack. The project date is the date you are working towards with the constraint date as the drop dead date.

Project Closeout Report

Success Story
We unveiled the OnRamp (GIS Image Log) web portal at the Monthly Manager's meeting the first week of September with follow-up demonstrations at the Central Office the next four weeks. During September we had 8000 hits on the system and 3800 hits through the first 2 weeks of October. We are very pleased with the response and hope to increase the usage above these numbers over the winter months as we unveil it to the District Offices.