Geographic	: Information Sy	stem (GIS) D	evelopme	nt	FY2014 Req Reference N		\$1,500,000 41539	
AP/AL: Allo	cation			-	ype: Information of the communication of the commun		ogy /	
Category: T	ransportation							
Location: Statewide				House District: Statewide (HD 1-40)				
Impact House District: Statewide (HD 1-40)				Contact: Pat Kemp				
Estimated Project Dates: 07/01/2013 - 06/30/2018				Contact Phone: (907)465-3900				
Appropriation	on: Surface Trans	sportation Pro	ogram					
This project s Information S software acq resulting GIS System, the	ary and Statemesupports the migrosystem (GIS). Prousition, application will directly supports by Data Systems.	ation from the oject activities on design and ort: The High	include: G d developm way Perfor	IS design ent, and F mance Mo	and developm HAS to GIS dat onitoring Syste	ent, hardwa a migration m, The Tra	re and . The	
Funding:	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	Total	
Fed Rcpts	\$1,500,000						\$1,500,000	
Total:	\$1,500,000	\$0	\$0	\$0	\$0	\$0	\$1,500,000	
State Match	Required One State Match % Rec	-Time Project uired	☐ Phased ☐ Amendm	-	Phased - under Mental Health	•	n-Going	
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Operating & Maintenance Costs:

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

Prior Funding History / Additional Information:

Project Description/Justification:

This is a fairly large effort that covers many different aspects of our GIS development and implementation. This project is being handled as a multi-year effort due to the scope and complexity of the tasks. Timelines and or phases are difficult to define as this project builds on itself and one effort helps define the next.

As the Geographic Information System (GIS) and the Enterprise Geodatabase (EGDB) is developed, implemented and becomes established the effort will continue by integrating data from other databases and sources such as the Highway Analysis System (HAS) our outdated Mainframe legacy database. One of the initial integration efforts will be that of the Highway Performance Monitoring System (HPMS). We are faced with a new Federal Highway Administration (FHWA) requirement to submit HPMS in GIS format, the scope of this project includes meeting this requirement by integrating HPMS into the GIS/GDB. On the heels of HPMS will be the need to integrate the Traffic data/system, this is then followed by the Crash data/system. The end goal would be a full transition out of HAS and into a GIS/GDB - Highway Data Warehouse (HDW) Solution. We also need to expand this Department of Transportation/Public Facilities

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Geographic Information System (GIS) Development (IWAYS)

integration effort to other databases such as the Maintenance Management System (MMS) and the Bridge Database. This is crucial for improving efficiency, data sharing and to reduce duplications of effort. The GIS/GDB is also being developed to support Federal Highway Administration and State mandated programs, such as the various Transportation Plans, Highway Safety, Pavement Management, 511, Environmental, Road Network Services, etc.

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\$1,500,000

41539

Also reflected in this project is our Data Collection Activities. This is the PhotoLog project that provides us a digital representation of our transportation network and the data necessary to capture road centerlines, features and assets.

Ultimately the decision was made to treat this project as an ongoing effort due to the scope and complexity of developing an Enterprise GIS/GDB, integrating data, supporting various programs, system transitions and the supporting data collection activities. It is anticipated that the duration of this effort to be from 5 to 10 years.