OHIO DEPARTMENT OF TRANSPORTATION

REPORT



For Quarter Ending: Sept 30, 2008

Date Submitted <u>Nov 13, 2008</u>

Project Title: <u>Development of Geotechnical Data Schema in Transportation</u> Research Agency: <u>University of Florida</u> Principal Investigator(s): <u>Marc Hoit</u>

State Job No.: <u>134254</u> Agreement No.: <u>20982</u> Pooled Fund Study No. (if applicable): <u>TPF5(111)</u>

QUARTERLY RESEARCH

Project Start Date: <u>October 1, 2005</u> Project Completion Date: <u>June 30, 2011</u> % Funds Expended __22__% Work Done __70___% Time Expired __46___ List the Technical Liaisons and other individuals who should receive copies of this report: _____ Kirk Beach _____

Note: no cost extension given until June 2011 (old date June 08) – hence %time has been adjusted accordingly.

SUMMARY OF PROGRESS FOR QUARTER:

Attach a progress schedule consisting of graphical information depicting (1) a schedule of research activities tied to the tasks defined in the proposal, (2) a comparative status of actual versus estimated expenditures, and (3) a percentage completion of the research.

- Beta release of DIGGS v1.0 beta was done on July 18, 2008
- An email was sent to the selected reviewers as well as some approved Geotech mailing lists
- A news release was sent out to technical publications covering the review
- The Website is being used for public review DIGGSml.org:
 - Allows for registration of DIGGS ID
 - Allows people to register, get schema and submit comments to forum
 - o Forum is being monitored by DIGGS core team members

PROPOSED WORK FOR NEW QUARTER:

- Schedule GMS meeting to work on next steps (Proposed in Jan 09)
- Develop plan for moving to release version and required support
- Develop plan developing tools to support schema

IMPLEMENTATION (if any):

PROBLEMS & RECOMMENDED SOLUTIONS (if applicable):

Describe any problems encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the contract, along with recommended solutions to those problems. NOTING DIFFICULTIES IN THIS SECTION DOES **NOT** CONSTITUTE A REQUEST TO MODIFY THE PROJECT. Requests for additional time, money, or scope revisions must be submitted in a separate letter to the Office of R&D Administrator.

The schema is in a beta review phase. The effort to support the review process is greater than expected and more effort is required. A meeting in January is proposed with the GMS to discuss options.

The US entities do not appear to be developing implementations and reviews. Again, the GMS meeting is expected to produce a plan.

EQUIPMENT PURCHASED (if any):

N/A

CONTACTS & MEETINGS:

Describe any meetings or contacts with ODOT technical liaisons and other pertinent

individuals relative to this project.

A number of conference calls have been held to discuss the review and process for moving forward. There was a GMS call to discuss planning for a meeting.

Graphic View of Pooled Fund Study TPF 5(111)

Phase	Phase 1	Phase 2	Phase 2
Task Number	1	2	3
	Develop straw		Finalize Survey
Task	survey	Send to GMS team	Questions
		Finalized Survey –	
		Consensus version	
	Preliminary draft	(Preliminary Draft	
	survey (Prototype	Dictionary	
	data dictionary &	available for DOT	Collected responses
Deliverable	schema)	use)	to survey
Estimated Completion Date	30-Nov-05	15-Jan-06	31-Jan-06
		Draft Dictionary	
		and schema	
		completed -	
	Prototype schema	Dictionary needed	
	and dictionary	more work to	GMS returned
Work Accomplished	completed	complete	comments
Actual Completion Date	30-Nov-05	17-Jan-06	6-Feb-06
Proposed expenditure for task	\$43,240	\$51,299	\$51,140
· · · ·	100%	9%	17%
Proposed % Total expenditure Actual expenditure for task	\$38,534	9% \$19,777	\$18,288
Actual % Total expenditure	89%	3%	6%
Phase	Phase 1	Phase 2	Phase 2

Phase 2	Phase 2	Phase 2	Phase 2
4	5	6	7
Response comments from GMS	Distribute Survey	Reduce Survey Data	Draft out for comments
Draft dictionary ready for general comment 6-Mar-06	Comments from general stakeholders on draft dictionary 15-May-06	Final data dictionary 30-Jul-06	Preliminary draft hierarchy and schema 31-Jan-07
Draft Dictionary behind 2 weeks	Internal review of Draft circulated, no meetings, update to draft for public review by July 12	Draft corrected and readyed for Limited Public Review (new step added) - Launched Aug 7,06 Completed Sept 15, 06 - New effort to make correction in Schema from Limited review comments - Expected completion by Jan 30 - Public release expected. Public comments will be received by May 1.	Survey from GMS and limited public review completed. Found inconsistencies in the schema. New effort launched to convert to UML description which automatically creates the XSD files - no change in the hierarchy or an major changes to schema.
8-Aug-06	15-Sep-06	10-Jan-07	20-Feb-07
\$51,140	\$51,140	\$43,240	\$51,140
26%	34%	41%	50%
\$0	\$0	\$3,400	\$0
6%	6%	7%	7%
Phase 2	Phase 2	Phase 2	Phase 2

Phase 2	Phase 3	Phase 3
8	9	10
Final		Finalize new
schema/dictionary	Develop additional straw	elements for draft
delivered	dictionaries, hierarchy and schema	schema
	•	
		Final hierarchy and
		schema of new
		elements - ready for
Draft hierarchy and	New additions to phase 1 schema	standards groups
schema	for additional elements	and use
	1-Mar-07	30-Jun-08
1-May-07	1-1/101-07	50-Juli-08
all schema data into		
new tool (UML) -		
v0.10 was delivered		
April 08 - final		
public review draft	A new Sig has been developed for	
planned July 4th -	Environmental data. The kickoff	
UML agreed by	meeting was held February 13-14,	
GMS & GDC -	07 in Orlando. The SIG includes	
Cost is \$40K -	US EPA, US Army Corps, AGS,	
Draft Release will	Earthsoft, Department of the Navy	
have wide	and UF. The Dictonary Workshop	
dissemination and	was held June 18-21, 07 in Orlando	
be treated as the	to work out the rdetails of the	
Full public release.	inclusing of EPA schemas into	
New merged	DIGGS. The group developed the	Env schema is
website is complete	ENV additions and added them	incorparated into
and operational for	directly to the UML description.	the Base schema
the public review.	The Nov workshop meeting in Salt	public review. At
V1Beta was	Lake City finalized the draft	end of public
released on July 18,	schema which has been	review - GMS
2008 for reveiw.	incorporated for the June 08 public	needs to discuss
The forum is being	review. New SIGs will be	future efforts and
monitored for revei	discussed one release is complete.	SIGs
30-Jul-08	1-Oct-08	5105
30 -3 01-00	1-001-08	
\$40,000	\$150,000	\$105,000
E 7 0/		000/
57% \$62,212	<u>82%</u> \$21,241	99%
17%	21%	21%
Phase 2	Phase 3	Phase 3