

**OHIO DEPARTMENT OF TRANSPORTATION  
QUARTERLY RESEARCH**

**REPORT**



For Quarter Ending: June 30, 2007

Date Submitted June 30, 2007

Project Title: Development of Geotechnical Data Schema in Transportation

Research Agency: University of Florida

Principal Investigator(s): Marc Hoit

State Job No.: 134254

Agreement No.: 20982

Pooled Fund Study No. (if applicable): TPF5(111)

Project Start Date: October 1, 2005

Contract Funds Approved: \$

Project Completion Date: June 30, 2008

Spent To Date: \$ 38,065

% Funds Expended 15% Work Done 55 % Time Expired 50

List the Technical Liaisons and other individuals who should receive copies of this report: Kirk Beach

**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.

- Approved move to a new tool to manage the Schema – in UML
  - GMS and GDC approved funding for Keynetix to finalize new schema
  - Moved schema hierarchy and data into new tool – v0.8 distributed to core

- group
- Documentation draft included in 0.8 draft as part of new UML management process
- Mike McVay traveled to UK (using UF funds) to finalize the piling schema which is included in the UML version
- Kickoff meeting for Geo-environmental data –held Feb 13 & 14, 2007
  - Established cooperation between AGS, US-EPA and US-Army Corps to merge the schemas into DIGGS
- Data Dictionary Workshop Held in Orlando June 18-21 for ENV SIG – draft version of schema included in UML diagram. Review draft for ENV addition expected October 2007

### **PROPOSED WORK FOR NEW QUARTER:**

- Finalize the public draft of the schema and documentation
  - Release to CDC and GMS for review at end of July
- Finalize the Users manual and technical manual – ready for public review process in September (final date under discussion with GMS & GDC)
- Investigate working with GeoSciML – organization of Geologic groups (like USGS) – they have a similar system and a potential for collaboration and merging of formats – GDC will discuss result of investigation in August and what impact (if any) on timeline and final v1 product.
- Public comment phase Start August 07
- Planned release v1 of standard October, 07

### **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 project is still about 4 months behind original schedule (on the base schema and XML) – this is due changing to the UML based management tool. Draft versions are being reviewed by the AGS and core group. The new SIG (ENV) has started and no delay in its release is expected.

No change in the deliverables or cost of the project is expected

**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.

Conference call meetings of the GDC and GMS have been held to work on planning, UML updates, demonstration of UML and scheduling.

Conference call meetings of the core team have been held to review UML

Mike McVay met with UK pile industry and AGS to finalize the piling data and enter into the UML tool

Kickoff meeting for ENV SIG (Feb 13 & 14, 2007)

Dictionary workshop for ENV Sig was held (June 18-21, 2007)

GDC Conference call, June 27, 2007 – decided to investigate GeoSciML as a possible collaborator.