

DIGGS Final Report to GMS

GMS Conference Call
June 18, 2012

Review Progress of Work

- Early project history and initiation through to delivery of DIGGS v1.0. (Hoit)
- Work beginning around March 2009 thru development of DIGGS v2.0a (Turner)
- Status of development as of today (Turner)
 - Accomplishments, gaps, needs, etc.
 - What types of things will need to be done in a next phase of work
- Final Report & Deliverables
 - Overview of report (Hoit)
 - Overview of technical document by Galdos (Turner)

DIGGS Research Objective

- **Develop a standard XML schema and data dictionary for geotechnical data**
 - Survey of GMS stakeholders to identify specific geotechnical data needs (at dictionary level).
 - Survey based on previous standards by AGS, COSMOS, UF-FDOT, and EPA
 - Results were used to develop a consensus to define the international standard XML (GML compliant) data interchange format schema.
 - Majority of the effort was in agreement on definitions and XML structure.

Development History

Meeting	Purpose	Date	Outcomes
Pre-planning	Develop consensus on basic structure of schema	May 16-17, 2005, Atlanta, GA	Draft schema structure and plans for proposal
First Workshop	Schema outline & Data dictionary for data in existing systems. Dates, Deadlines and Deliverables	August 10-13, 2005, San Francisco, CA	Schema team and dictionary team, refined schema structure, data dictionary,
Second Workshop	Continue development of schema and dictionary	November 18, 2006, Orlando, FL	Draft schema, dictionary and users guide for presentation to GMS
GMS Meeting	Update governing body on progress and get approval for directions	January 18-19, 2006, Atlanta, GA	Approved
AGS Meeting	Develop plan to improve progress	March 2007, UK	Move to UML version with now tool to automate schema creation for consistency
Workshop V1.0 review	Review release candidate for V1.0 and plan final corrections – using new UML tool system	September, 2007, Boston, MA	Set actions, assignments and tasks to finalize V1.0 – set release for spring 2008
Invitational Workshop	Present and approve new directions for DIGGS	Orlando Florida, March 25-26, 2009	Approved new timeline, consultant for final stages, plan for permanent governance/ownership
Consultant hired	Send RFP and hire consultant	August 2009	Galdos Hired to complete Schema
Update Schema to v1.1	Consultant completes v1.1 – working with GDC members and Loren Turner – weekly calls	May 19, 2010	V1.1 released
Completion of v2.0a	Consultant delivers v2.0a schema, dictionary and report	June 30, 2012	V2.0a released
Final Transfer Workshop	Transfer DIGGS to ASCE-GeoInstitute, develop implantation proposal to ODOT	June 22-23, 2012, SF, CA	Developed proposal to ODOT for new funding to transfer schema to ASCE-GeoInstitute and make available to community.

Research Scope and Phasing

- Original Proposal:
 - Phase I – Develop survey (draft dictionary and XML schema based on AGS, COSMOS & UF-FDOT)
 - Phase II – Complete dictionary and schema using workshops and volunteer effort
 - Phase III – Add special interest groups for missing areas
- Final Structure:
 - Stage 1 – Include Phase I, most of Phase II and small part of Phase III
 - Deliverable: v1.0a
 - Stage 2 – Hire consultant to correct GML issues and finish schema
 - Deliverable v2.0a – GML Compliant

Recommendation

- Next Steps:
 - Migrate the DIGGs deliverables to the Geo-Institute (Hoit)
 - Investigated multiple options
 - Geo-Institute (ASCE) met all criteria
 - Good fit with mission
 - Good fit with Codes & Standards role
 - Flexible committee structure
 - Final vote

Implementation Plan

- Workshop June 25&26 to transfer to Geo-Institute
 - Bring potential committee up to speed
 - Develop proposal to ODOT
- Suggestions on future needs (Info for workshop)
 - What we need from software dev community for DIGGS to be successful. (Turner)
 - Next phase of work under ODOT research(?) (Beach)
 - Anticipated implementation work by the ASCE GI. (Hoit)