

DIGGS HISTORY



data interchange for geotechnical and geoenvironmental specialists

2005

2016



DIGGS HISTORY

Prior to 2004 – {Fill in your history here}

June 2004 – Newport Beach, CA – *National Geotechnical Management Workshop: Archiving and Web Dissemination of Geotechnical Data*

Co-Hosts

- Federal Highway Administration (FHWA)
- Consortium of Organizations for Strong Motion Observation Systems (COSMOS)
- Pacific Earthquake Engineering Research Center (PEER)

FHWA and Ohio DOT formed the Geotechnical Management System (GMS) group



GMS Group – 2004

Members of the GMS Group:

- The DOTs

California

Connecticut

Florida

Georgia

Indiana

Kentucky

Minnesota

Missouri

North Carolina

Ohio

Tennessee

- FHWA Ohio Division
- FHWA Federal Lands Highway
- UK Highway Agency
- USACE
- USEPA
- USGS



GMS Group – First Priority

Develop geotechnical and geoenvironmental data interchange standards

Transportation Pooled Fund project TPF-5(111), *Development of Standards for Geotechnical Management Systems*

- August 2005, University of Florida, Marc Hoit (PI) and Mike McVay (Co-PI)
- \$599,000, 3 years
- GMS, Core Team to provide 4,000 hours (\$521,000) of in-kind services
- Special Interest Groups (SIGs) to provide all in-kind services

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- Atlanta – May 2005;
Pre-planning
Workshop
- Develop consensus
(COSMOS, UF, AGS) on
basic structure of
schema

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Date	Meeting	Outcomes
May 16-17, 2005, Atlanta, GA	Pre-planning	Draft schema structure and plans to submit proposal
August 10-13, 2005, San Francisco, CA	First Workshop	Structured into schema team and dictionary team
November 18, 2006, Orlando, FL	Second Workshop	Draft schema, dictionary and users guide for presentation to GMS
January 18-19, 2006, Atlanta, GA	GMS Meeting	Approved
March 2007, UK	AGS Meeting	Developed plan to move to UML version with new tool to automate schema creation for consistency

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Date	Meeting	Outcomes
September, 2007, Boston, MA	Workshop V1.0a review	Set actions, assignments and tasks to finalize V1.0a – set release for Spring 2008
Orlando Florida, March 25-26, 2009	Invitational Workshop	Approved new timeline, use of consultant for final stages, develop plans for permanent governance/ownership
August 2009	Consultant hired	Galdos hired to complete Schema
May 19, 2010	Update Schema to v1.1	V1.1 released
June 30, 2012	Completion of v2.0a	V2.0a released
June 22-23, 2012, SF, CA	Final Transfer Workshop	Developed proposal to ODOT for new funding to transfer schema to ASCE-GeoInstitute and make available to community.

POOLED FUND STUDY - PARTICIPANTS

Association of Geotechnical and Geoenvironmental Specialists (AGS)	Keynetix Ltd.	DIGGS Final Report Page 5	Loren Turner, California Department of Transportation (Technical Lead)	Jean Benoit, University of New Hampshire	Joe Solsky, United States Army Corps of Engineers
Bridge Software Institute at the University of Florida	Minnesota Department of Transportation	Cory Bobba, Federal Highway Administration - Office of Federal Lands Highway	David Wilson, United States Environmental Protection Agency	John Bobbitt, Petrochemical Open Standards Consortium	Kim Stagg, Delta Environmental Consultants, Inc.
California Department of Transportation	Missouri Department of Transportation	Derrick Dasenbrock, Minnesota Department of Transportation	Geotechnical Data Coalition	Chris Bray, Keynetix Ltd	David Trevino, United States Navy
Connecticut Department of Transportation	Mott MacDonald	Cyprian Fonge, Georgia Department of Transportation	Kirk Beach, Ohio Department of Transportation (Project Lead)	Salvatore Caronna, gINT Software Inc. (Bentley Systems, Inc.)	Scot Weaver, EarthSoft Inc
Consortium of Organizations for Strong-Motion Observation Systems (COSMOS)	North Carolina State University	Leo Fontaine, Connecticut Department of Transportation	Roger Chandler, Association of Geotechnical and Geoenvironmental Specialists	Roger Chandler, Keynetix Ltd	
Construction Industry Research and Information Association (CIRIA)	North Carolina Department of Transportation	Mike Fritz, Missouri Department of Transportation	Marc Hoyt, North Carolina State University (Technical Lead)	Marc Hoyt, North Carolina State University (Group Leader)	
Delta Environmental Consultants, Inc.	Ohio Department of Transportation	Laurel Gorman, United States Army Corps of Engineers	Thomas Lefchik, Federal Highway Administration - Ohio Division Office (Technical Lead)	Mike McVay, Bridge Software Institute at the University of Florida	
EarthSoft Inc.	Petrochemical Open Standards Consortium	Will Holmes, Kentucky Department of Transportation	Tim Spink, Construction Industry Research and Information Association	Daniel Ponti, United States Geological Survey	
Federal Highway Administration (FHWA) - Office of Federal Lands Highway	Tennessee Department of Transportation	David Horhota, Florida Department of Transportation	Loren Turner, Caltrans, Division of Research and Innovation (Technical Lead) and Consortium of Organizations for Strong-Motion Observation Systems	Paul Quinn, Keynetix Ltd	
Federal Highway Administration (FHWA) - Ohio Division Office	United Kingdom Highways Agency (UKHA)	Thomas Lefchik, Federal Highway Administration - Ohio Division Office (Technical Lead)	Associate Members	Tim Spink, Mott MacDonald	
Florida Department of Transportation	United States Army Corps of Engineers (USACE)	Mohammed Mulla, North Carolina Department of Transportation	Jean Benoit, Consortium of Organizations for Strong-Motion Observation Systems	Mark Styler, University of Florida	
Galdos Inc.	United States Environmental Protection Agency (U.S. EPA)	Len Oliver, Tennessee Department of Transportation	Kirk Hatfield, University of Florida	Loren Turner, California Department of Transportation (Technical Lead)	
Georgia Department of Transportation	United States Geological Survey (USGS)	Jon Paauwe, Indiana Department of Transportation	Mike McVay, Bridge Software Institute, University of Florida	Geoenvironmental Special Interest Group	
gINT Software Inc. (Bentley Systems, Inc.)	United States Navy	David Patterson, United Kingdom Highways Agency	David Patterson, United Kingdom Highways Agency	Roger Chandler, Keynetix Ltd	
Indiana Department of Transportation	University of New Hampshire	Gary Person, Minnesota Department of Transportation	Core Special Interest Group	Kirk Hatfield, University of Florida (Group Leader)	
Kentucky Department of Transportation	Geotechnical Management System Group	Daniel Ponti, United States Geological Survey		DIGGS Final Report Page 6	
	Kirk Beach, Ohio Department of Transportation (Project Lead)			Anand Mudambi, United States Environmental Protection Agency	

IMPLEMENTATION AND TRANSITION OF DIGGS

- Contract between Ohio DOT and ASCE-GI
 - \$80,000, October 2013 – October 2015; no cost time extension to October 2016
- Oversee conversion from DIGGS 2.0 α to DIGGS 2.0
- Transition DIGGS data schema and data dictionary ownership and management to ASCE-GI