

Introduction to the DIGGS Group

Dr Roger Chandler
Technical Director - Keynetix Limited
AGS Data format committee

Need for Collaboration

- US is behind in standardization efforts
- UK through AGS has rich organization, experience and a well developed standard
- Collaboration can open markets
- International standard can improve practices and software
- New standards can improve products
- Future goal is asset management systems

Benefits of Data Standards

- Means for information sharing
 - single entry of data
 - reusable data
 - QA/QC – allows for software verification
 - More accurate bids (using existing data)
- Saves money, time and energy in system development
- Assists software makers in the development of programs that fit within the framework
- Allows for unified asset management and assessment

USA Pooled Fund Project

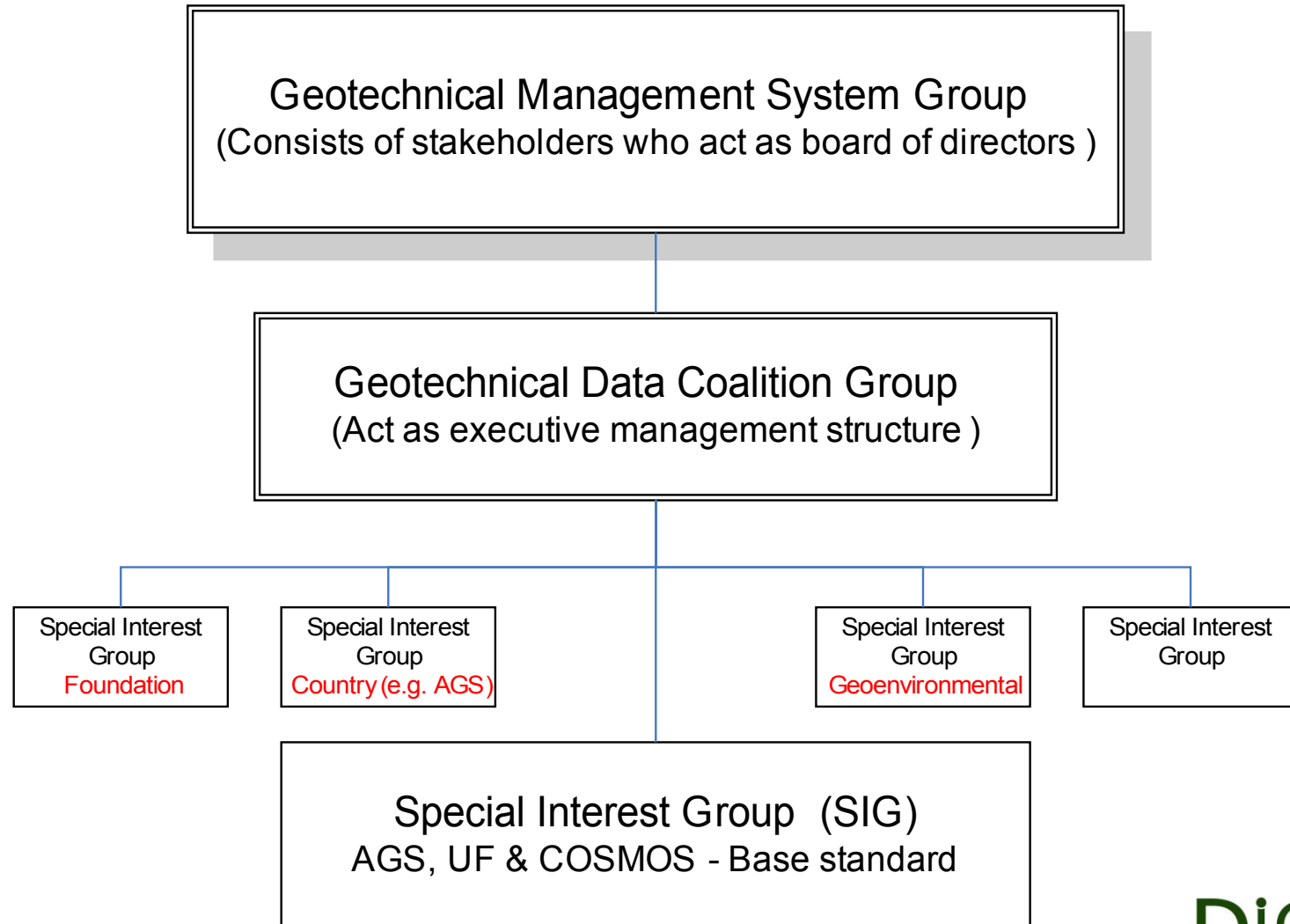
TPF-5(111)

- \$643,000 in funding
- Combine existing geotechnical and geoenvironmental data standards (AGS, UF, COSMOS)
- Expand to include other data (i.e. geohazards, geotechnical assets)
- Develop international organization to manage and enhance standard

Project Timeline

- May 2005 – Pre-planning meeting
 - Agreement on skeleton structure and path forward
- August 2005 – Schema and Dictionary draft development
 - Base Draft developed
- November 2005 – Finalize Dictionary
 - Complete dictionary merger
- January 31, 2006 – Draft Dictionary and Schema
 - Distribute drafts for comment to management team
- May 15, 2006 – Internal Review of Draft
 - Perform an internal review of the proposed draft
- August 4, 2006 – Distribution of draft for limited review
 - Distribute for detailed review of dictionary, schema, guides
 - Comments returned by Sept 15
- April 2008 – Distribution of Full Public Review

Pooled Fund Organization



Special Interest Groups

- New SIGs are formed for features to be added
 - SIG can be country based (e.g. AGS, FPS for UK)
- Task: Develop new dictionaries and schema for features
 - Conduct surveys
 - Compile and assess data
 - Conduct reviews
 - Conduct meetings and workshops
 - Perform work necessary to develop the standards
- Membership and proposal for new features is approved through GDC and GMS hierarchy
- Membership composed of appropriate GDC members and other domain specific experts

Base Standard SIG

- Merge AGS, UF (Deep Foundation) and COSMOS (Geophysics) standards
- Becomes version 1 of standard
- Members:
 - Marc Hoit, Mike McVay, (UF)
 - Roger Chandler (AGS), Tim Spink (CIRIA)
 - Jean Benoit, John Bobbitt, Dan Ponti (COSMOS)
 - Salvatore Caronna (Industry)

Environmental SIG

- EPA SEDD extensions
- Members:
 - AGS – Roger Chandler
 - EPA/ US Navy
 - Delta – Kim Stagg
 - Earthsoft – Scott Weaver
 - Florida University – Kirk Hatfield

Project Deliverables

- Phase I&II – Internationally developed:
 - Data Dictionary
 - Schema (XML description of data)
 - Base AGS Tables
 - UF Pile data
 - COSMOS Geophysics (subset)
 - Allow local extensions and customizations
 - Electronic data structure for database development
 - Electronic data structure for the metadata

Example Country Based Profile

DIGGSML

Environmental Test | purging | DRILLING LOG | CONSTRUCTION

US-E.DIGGSML.ORG

US-E

Environmental Test | purging

+

FPS

New Stuff

Example Organization Based Profile

DIGGSML

PILE | SCHEDULE | DRILLING LOG | CONSTRUCTION | TESTING

USPiling.DIGGSML.ORG

USGS

PILE | SCHEDULE | DRILLING LOG | TESTING

USGS

Fancy logging
Stuff

Country Based SIGs

- New cSIGs are formed for a specific country based implementation
- Each flavour of DIGGS has its own namespace
 - E.g. fps.diggsml.org
- This 'web space' is managed by the particular cSIG.
- Each country can develop a profile schema that references the main DIGGS schema and adds the needed data.
- Customizations will be shared through the web so anyone can use the additions
 - Next cycle of standard will review additions for possible inclusion
- Need to be careful to not create multiple standards – non-interoperable

www.diggsml.org

- Register at the site for
 - Updates and announcements for future releases
 - Access to schema
 - Access to discussion forums
 - Access to SIG Blog