Standardized Spatial Soils Database Schema and Toolset

GEOS 459: Capstone Project

Instructor: Colin Lynch

Assignment 4: GIS Project Data Management

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Authors:

Robyn Gamber, St#: 000549155

Olaf Oleson, St#: 000538560

Kristen Turi, St#: 000626413

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# GIS Project Management Strategy

## Management of Team

The management of project information is occurring via regular weekly team meetings and emails as well as through MS Project and consistent deadlines.

## Management of Data

The sample soils dataset will need tools built in Python to manage calculations of important soils factors, however the data itself will not need management through python. Minimal management from members of the project team occurs via a simple check in and out system via email because it is only sample data that was provided. ArcGIS was used in the creation of the geodatabase but will not necessarily be used to manage data. Model builder and FME will not be used to manage datasets.

## Data Management Documentation and Steps

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## Metadata

Metadata for the geodatabase, fields and domains were filled out completely in North American Profile of ISO 19115 2003. Metadata in excel format was supplied by the client, Stantec.

## Data Accuracy and Precision

The data supplied to the SAIT Capstone team was sample data and was to be used only in testing the tools to be built by the team. As such, accuracy and precision are not applicable to this project.

## Data Storage

The geodatabase and tools are stored on the SAIT secure server.

## Final Data Format, Storage and Delivery

The final submission of the project to the client will be a folder containing the following:

* ESRI File Geodatabase with standardized soil schema
* ESRI .lyr files for standardized symbology of the soils polygons
* A how-to document for users of the standardized schema (.docx)
* A toolbox containing the Soils compaction, rutting, wind erosion and RUSLEFAC calculations.
* A document containing the SAIT Capstone Team`s ideas for future enhancements (.docx)

## Data Backup

The project is backed up on SAIT`s secure server. Whenever an aspect of the project is being worked on, the team member will copy that portion of the project on the SAIT Server. As such, a secure recent copy resides on the SAIT Server in case of errors.

## Including future Data or Changes

There is ample opportunity for future changes to be made to the structure, fields, domains and tool associated with this Project. Should Stantec wish to modify any item of the project, they have the GIS expertise on hand to make those changes. As well, this project is being completed to Stantec standards so alteration of any one item should be easily completed by their team.

# References

Stantec Consulting. (2015). Request for Services, 2015 SAIT Capstone Project: Standardized Spatial Soils Database Schema and Toolset.