

# Data Management Tool

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Proposal for Colorado School of Mines EECS Field Session, Summer 2013

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## 1. Introduction:

Newmont currently has 100+ orebody models which have been created using several mining software packages including TSS, MineSight and Vulcan. Each of these packages has a different file-based data management structure and there is a need for a centralized repository to store the relevant information required. For this EECS Field Session we are looking for proof of concept applications, architecture, and design options with any additional time devoted to implementation of selected options. We will not require a completed application.

## 2. Objective:

To create a centralized repository to store resource model information across the enterprise

## 3. Methodology:

### Data:

- a. Compulsory data to be captured irrespective of software platform include
  - All relevant block model files (GRD, File15.DAT, BMF)
  - All relevant drillhole information
  - All relevant estimation information and parameters (estimation method(s); search volumes and variograms)
- b. Optional Data can include:
  - Any relevant scripts or workflows
  - Any general documentation including background info on model, attributes, methods, grade tonnages, assumptions etc.

### Proposed Solution:

#### Deliverables

- A database, metafile, 'warehouse' – Details to be determined in business case. Basic system would include:
  - o WPF Application
    - Catalog, collect, zip and upload data
    - Required model files and parameters
    - Optional and required reports
    - Optional meta-data
  - o Sharepoint site
    - Use same grouping and logic as Reserves and Resource databases
    - Display list of files contained in Zip file
    - Download zip file
    - Unzip files to folder for viewing
- Future work could include
  - o Non-TSS data files
  - o Data conversion
  - o Selective extraction of data
  - o Workflows for data approval
  - o More as determined in business case