QUICK AND EASY RESULTS OF RESOURCE CONCILIATION, FACILITATING DECISION-MAKING

conciliatron

The conciliation of mining resources is a fundamental part of the mining business chain. It compares the planning of the long-term model with the results obtained from a certain stage of short-term production. The analysis of the resulting differences allows for the evaluation of the performance of the operation, as well as generating opportunities for improvement and making decisions about mine planning.

conciliatron

Conciliatron is a computational tool to perform a mine conciliation between two block models, usually long and short term, which contain information on grades, categories, phases, benches, years, etc. This quantifies the differences between these models and better identifies the causes of the conciliation error.

How is it done?

Conciliatron is designed to facilitate the tasks associated with conciliation, keeping the flexibility necessary for users to make decisions about the information contained in the data. It is composed of four macro stages where variables and parameters can be easily adjusted, in order to obtain dashboards and reports with a large number of charts. The generated results can be viewed in the interface or be automatically exported to an MS Word document, PDF, or PowerPoint® presentation.
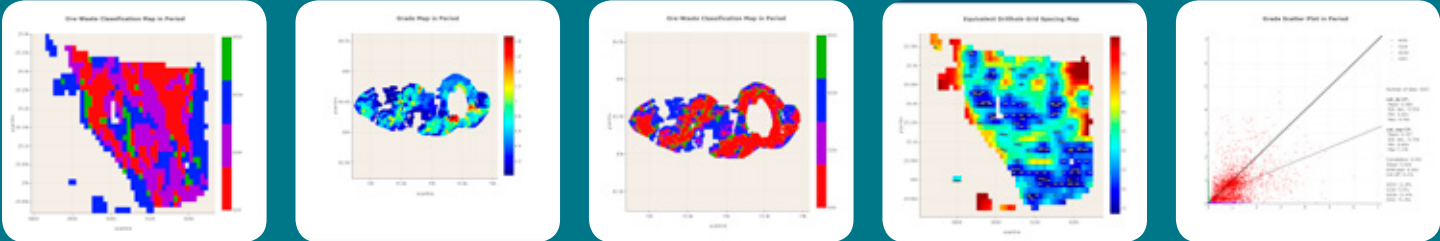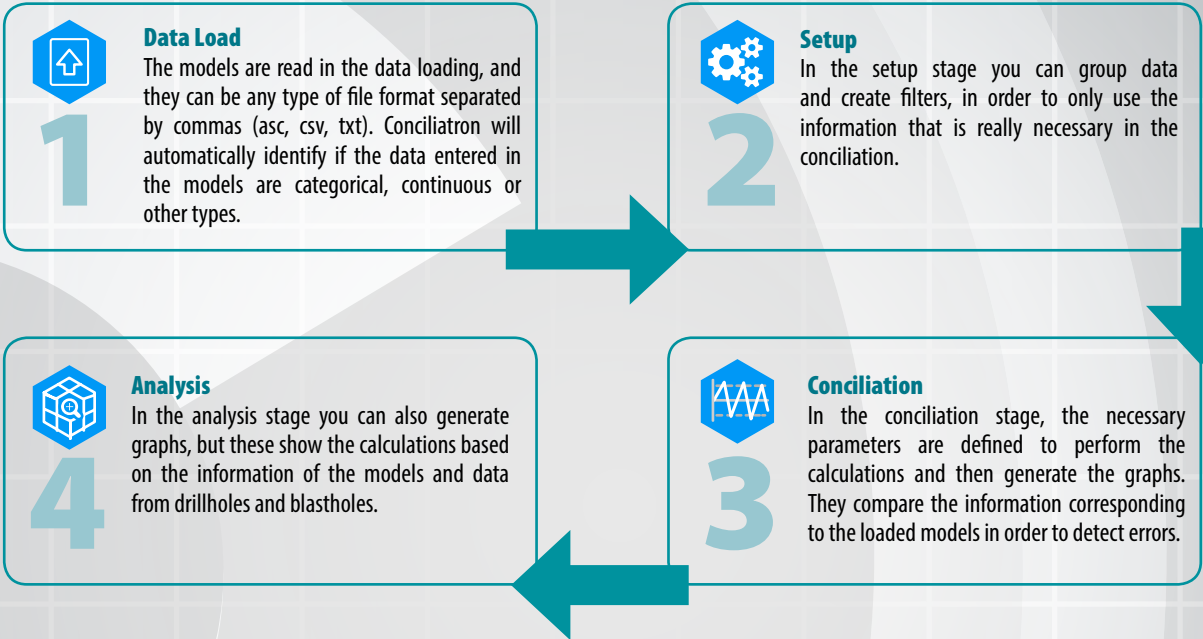
Calculations that can be performed

• Average grade, tonnage and metal for different cut-off grades and volumes (months, years, phases, geological unit).

• Grade, tonnage and metal errors for different cut-off grades and different breaks (by phase, year, bench, geological unit).

• Match percentage in the comparison of variables such as geological unit and any other available categorical variable.

• Match percentage in ore-waste destination for a cut-off grade.

• Match percentage for different cut-off grades simultaneously.

• Grade histogram by periods and/or volumes.

• Visualization in plan view and vertical section in ore-waste destination.

And more.

Stages

1 Data Load
The models are read in the data loading, and they can be any type of file format separated by commas (asc, csv, txt). Conciliatron will automatically identify if the data entered in the models are categorical, continuous or other types.

2 Setup
In the setup stage you can group data and create filters, in order to only use the information that is really necessary in the conciliation.

3 Conciliation
In the conciliation stage, the necessary parameters are defined to perform the calculations and then generate the graphs. They compare the information corresponding to the loaded models in order to detect errors.

4 Analysis
In the analysis stage you can also generate graphs, but these show the calculations based on the information of the models and data from drillholes and blastholes.

conciliatron

Advantages

Guided and Easy Process

The structure of the Conciliatron has a clear division for each stage. Each one of them has a specific function easy to perform, reducing the possible errors in each step.

Standardization

Conciliatron facilitates the standardization of the conciliation process, facilitating the consistency of the results obtained among different people and projects.

Multiple configurations

Conciliatron allows you to save your configuration at the end of each of its stages, which can generate different scenarios with the same data set.

Graphs Dashboard

Conciliatron integrates a dashboard that allows the construction of multiple graphics based on the loaded data. In addition, it offers a quick preview of the different graphic visualizations.

Report

Conciliatron has preloaded a selection of graphics frequently used in conciliation analysis, which can be easily configured to obtain a large set of new graphics and provide greater freedom when comparing different scenarios.

Automation

Much of the process is automated, no time is lost in reviewing, filtering, grouping and selecting the necessary data to obtain the graphics, saving time for understanding and analyzing.

Timeliness

Timeliness in obtaining results, graphics are run in parallel on the dashboard.