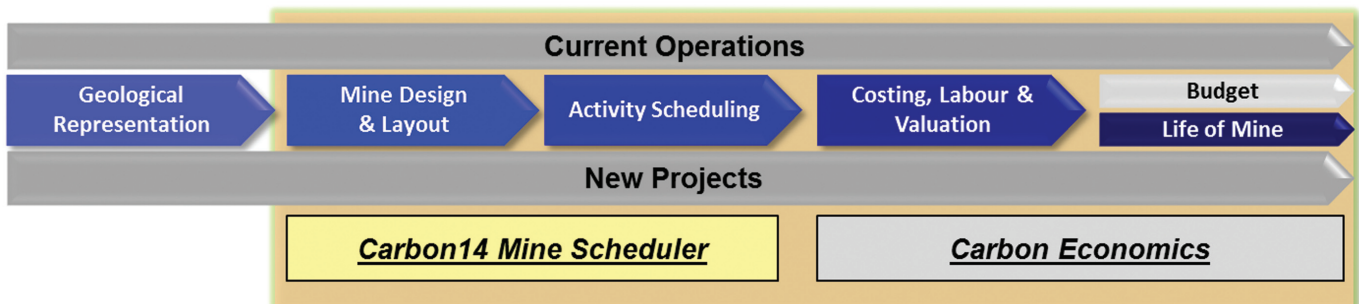


Cyest Analytics

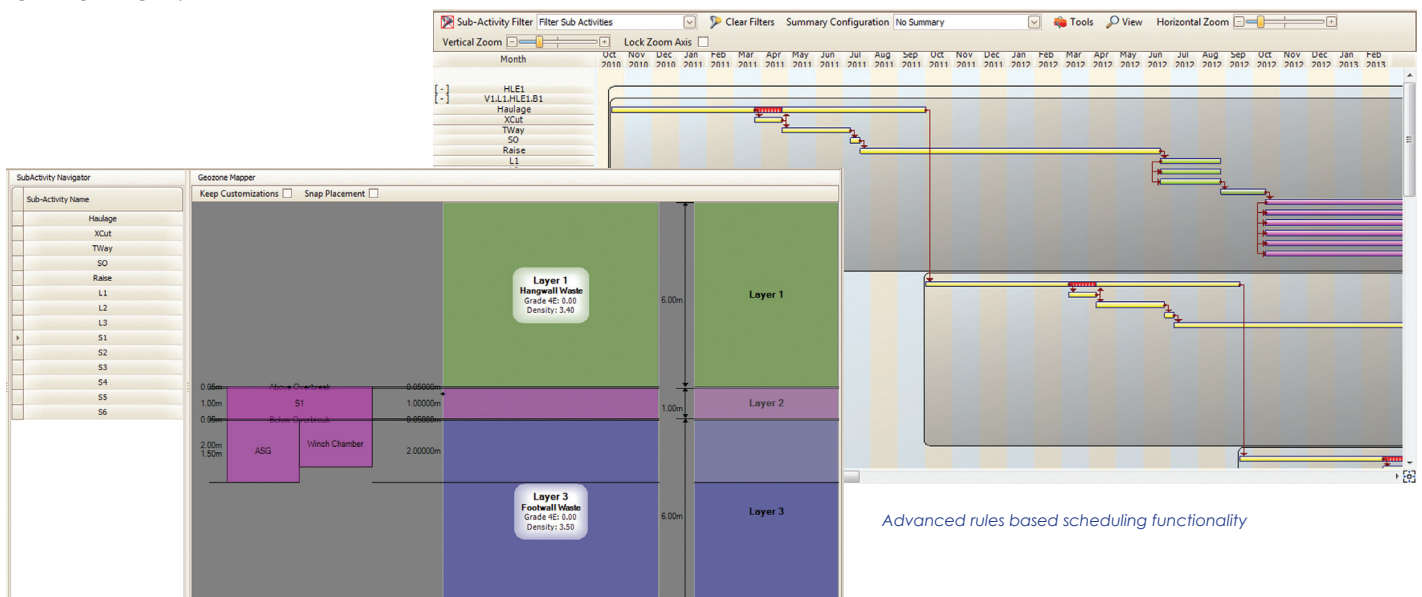
Carbon14 Mine Scheduler

The **Carbon14 Mine Scheduler** is a rules based production scheduling solution that allows for the rapid generation of a valid and detailed production schedule. All geological, mine design, mining method and scheduling data can be entered directly through user-friendly interfaces or standard import template. Multiple scenarios can be tested and evaluated for different mine designs, mining methods and scheduling assumptions. It can be integrated with the **Carbon Economics** solution allowing for all the labour, activity costs and financials to be calculated for each production schedule generated.



Carbon14 Mine Scheduler allows different mine designs, mining methods and schedules to be evaluated

The **Carbon14 Mine Scheduler** solution has been developed using the multi-dimensional object oriented **Carbon Modelling Technology** giving all the advanced template functionality and analytics inherent in this modelling environment.



Advanced rules based scheduling functionality

Placement of the excavation in the geology

Business Benefit of the Solution

Traditional graphical mine planning systems allow for a detailed mine design and schedule to be generated. Due to the level of detail and graphical nature, multiple layouts, mining methods and schedules cannot be produced within the time constraints of the traditional business planning cycles. Generally only a single mine design and production schedule is produced without a view on the operating costs and financial outputs such as NPV etc. until after the production schedule has been sent to the HR and finance departments for detailed budgeting.

The **Carbon14 Mine Scheduler** overcomes this by allowing for a rules based production schedule to be generated very rapidly. Depending on the level of detail, a production schedule can be generated from a few hours to a day.

This allows management to test different options and production strategies accurately and evaluate them based on the strategic objectives required, either relating to production metrics or financial metrics such as unit cost, profit and NPV.

For example, multiple mine designs with different back length assumptions can be scheduled and evaluated in terms of production ramp up, production rate, unit cost, capital and overall NPV.

Main Features of Carbon14 Mine Scheduler

- Templates allow for the replication of scheduling logic.
- The mine design and layout can be entered directly into the system without the need for a graphical mine design and therefore allowing the comparison of different options before committing to a detailed mine design.
- An advanced scheduling algorithm allows for resource allocation per activity and the constraining of the schedule based on resource availability and sharing.
- The current face positions can be entered allowing for the quick generation of an updated production schedule.
- Complexity and level of detail can be increased as required allowing for strategic and operational scheduling to be undertaken.
- Flexible implementation allowing for full enterprise integration or standalone installation.
- Dynamic reporting capability.

Please contact George Krafft to discuss your specific mine planning needs.

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Powered by

Carbon
modelling technology

