



Cyest

Analytics



Operational Modelling and Valuation

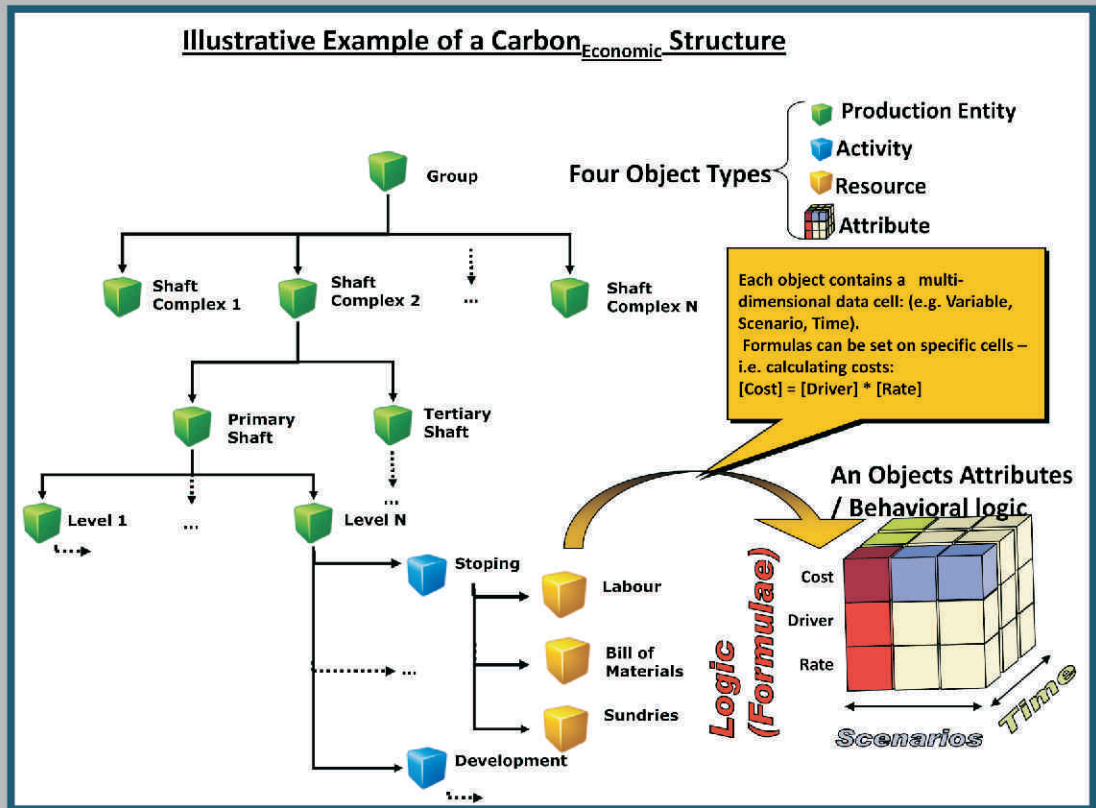
CarbonEconomic is an operational modelling and valuation technology that has been implemented within blue-chip mining companies over the past three years. Cyest has distilled nine years of spreadsheet-based modelling IP (intellectual property) into an all-encompassing modelling solution with an intuitive business user interface.

Using Object Oriented Modelling (OOM) methodologies, a CarbonEconomic modeller can dynamically create an economic model, based on their company's specific operational structure and dynamics – without having to concern themselves with the typical problems found in spreadsheet solutions, such as defining the logic, formula logic errors, aggregation errors, scalability issues, inadequate business rules, finger trouble, multi-user or auditability.

Simply put, CarbonEconomic is embedded with modelling IP, thus allowing users to focus on configuring the model structure to represent the business, running scenarios and analysing the outputs, not building logic that is prone to errors.

CarbonEconomic therefore empowers financial and operational departments (Finance, HR, MRM, Planning and Engineering) to build robust, reliable, scalable and auditable activity-based economic modelling solutions with ease. CarbonEconomic will generate the cost budget and labour complements

by designation and activity for all direct and indirect (shaft, hoisting and surface) mining activities via production drivers and calculated drivers per activity and fixed cost step rules. In addition, the revenue and associated contributions and valuations per entity are also calculated. In this way, a labour and cost budget can be created for a production schedule at the press of the button once all drivers and business rules have been configured.



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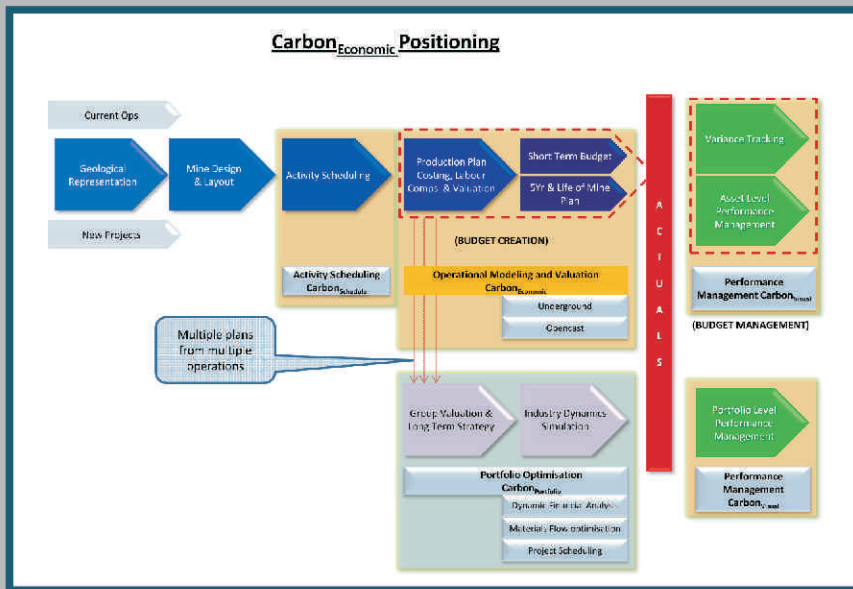


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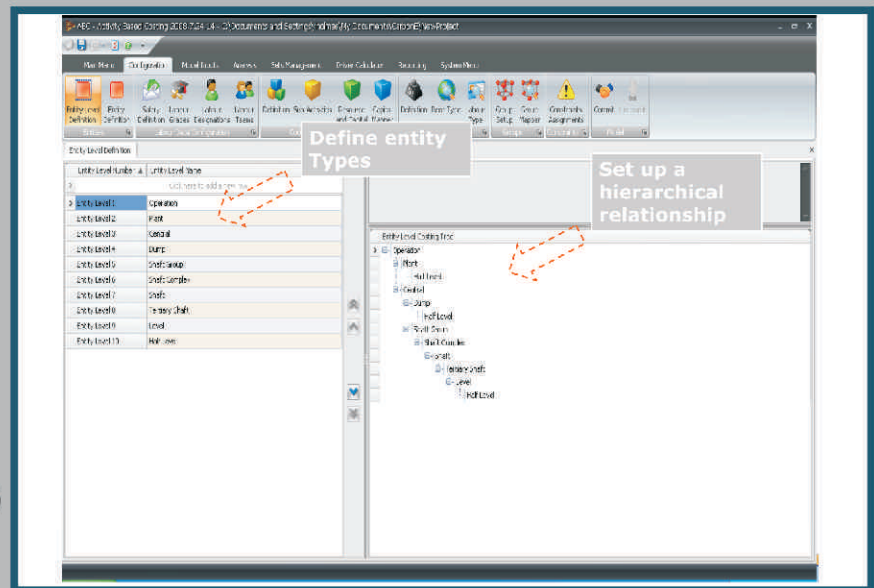


The cost and labour budgets can now be adjusted by tweaking the underlying management levers/drivers such as team efficiencies, team structures and consumptions rates, allowing for robust debate around achievable budgets and the underlying drivers impacting this.



The CarbonEconomic solution integrates into existing mine planning solutions and ERP systems and therefore allows integrated budgeting, planning and forecasting for all-time horizons, from short-term budgeting to life of mine planning. In addition, operational optimisation, what-if analysis and OPEX derivation can be performed.

Cyest Analytics has also utilised this solution over the past three years to do detailed Activity-Based Costing and valuation for capital projects to evaluate different options during trade-off, pre-feasibility and feasibility studies.



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