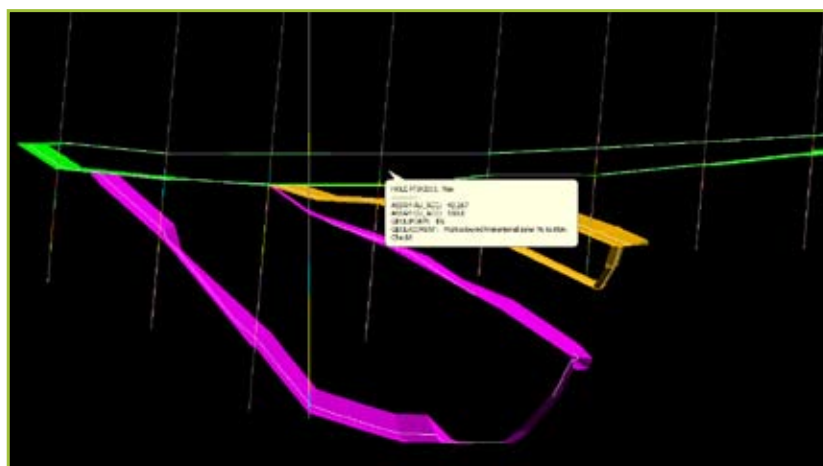


## The Maptek Vulcan™ advantage

The ‘stronger for longer’ story in the mining industry reflects a fundamental shift in the world economy. The most populated nations on earth, China and India, are examples of this shift as they move from a rural economy to integrated industrial societies.



### THE VULCAN DIFFERENCE

- Widely used by both small and large enterprises
- Leads to better understanding of your mine and orebody
- Exploration and project acquisition

This process began in Europe in the 19th century with the invention of labour-saving machines which dramatically increased the efficiency of human endeavour.

The discovery of oil in the 1860s in Pennsylvania led to low-cost kerosene lighting becoming available, which in turn fostered a rapid expansion in literacy levels and education.

The social shift created by wise use of the earth’s mineral wealth improves everyone’s life and brings the world closer together.

The development and application of Maptek Vulcan™ 3D mining software is another example of how the desire to be more efficient compounds the advantages of technology at every stage of the industrial process.

This paradigm can be applied at all levels. Vulcan is a great differentiator in the market place. Companies who use Vulcan

understand their mines and orebodies better than those who are not privileged to have access to this all encompassing miner’s toolkit.

And it is not just the domain of big companies.

### Exploration

Small, nimble exploration companies such as those of the Havilah Resources group have made stunning progress using Vulcan both in exploration and in project acquisition.

At Kalkaroo in northeastern South Australia, Havilah Resources used Vulcan to assess the acquisition of the exploration tenement, and in only a few hours of studying existing drillhole data, developed an understanding of the copper occurrences that had been missed by others.

Subsequently, more than 100 million tonnes of ore have been defined with the resource remaining open laterally and at depth.

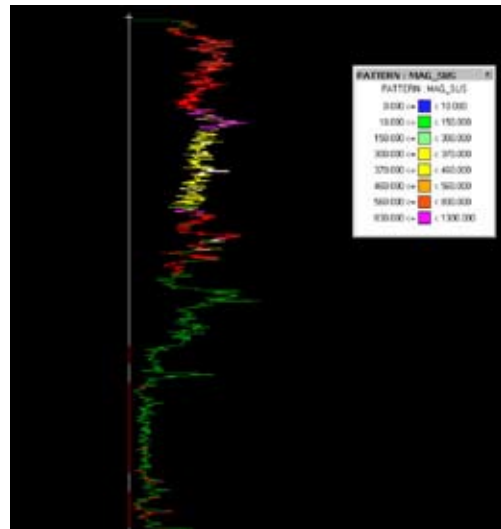
Curnamona Energy, a listed uranium explorer, has exploited the vast public databases in South Australia, extracting historic information and using Vulcan to predict palaeochannel uranium occurrences.

Special features of Vulcan have been instrumental in this process.

### Visualise drillhole data

Images from external databases can be linked to current work on-screen for review and analysis. Hovering the mouse over a drillhole retrieves information from the database and displays it on a datatip popup.

Dense geophysical data can be displayed against drillholes stored in another database, without impacting on speed and usability (below).



### Integrate seismic and other data

Geothermal Resources is exploring for hot, dry rock resources in South Australia. Vulcan software has delivered success by allowing the geologists to integrate seismic data with gravity and magnetic data to reveal high quality heat targets.

Vulcan is the perfect integration platform for all types of spatial geological data. The 3D display enhances visual understanding of very complex relationships, and to the quick-witted geologist sitting in front of the screen, exploration targets come to life.

### Speed and efficiency

The speed of this assessment process gives a powerful advantage to the Vulcan user, and can transform a small company into a significant player by bringing the opportunities to light ahead of the competition.

Global change will only accelerate, fuelling the demand for efficient production of resources. Maptek is playing a key role in improving mine performance and delivering sustainable benefits in the development of mineral resources throughout the world.

### TESTIMONIAL

'Vulcan users are winners in the race to profitable resource development. This can apply equally to the small explorers and the very big companies as they evaluate joint venture and acquisition targets.'

Put smart people in front of a Vulcan screen and you will see dramatic improvements in mine performance and profits.'

*Bob Johnson  
Chairman  
Havilah Resources*