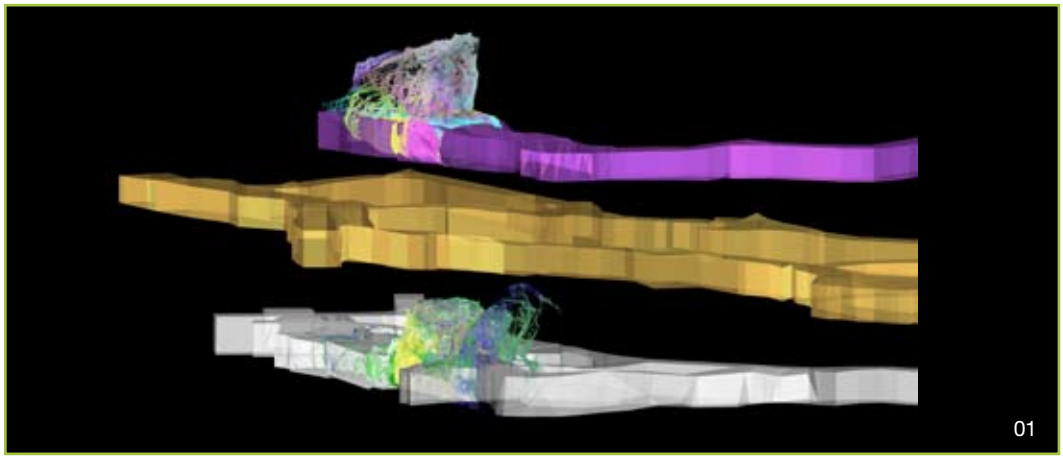
Survey Data Underground

The Maptek I-Site™ 4400CR laser scanner and I-Site Studio™ software are leading the drive to improve results in underground survey.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The I-Site scanner and Studio processing software are easy to use. Receiving training on site allowed our surveyors to pick up tips on how best to use the technology to attain the desired results and ultimately improve our workflow.

Chris Moffatt, Chief Surveyor
Randgold Resources

Randgold Resources, an African focused mining and exploration company, bought a Maptek I-Site 4400CR laser scanner in December 2008 for underground stope and open pit modelling, and monthly reconciliation of underground workings and ore stockpiles at the Loulo mine in Mali.

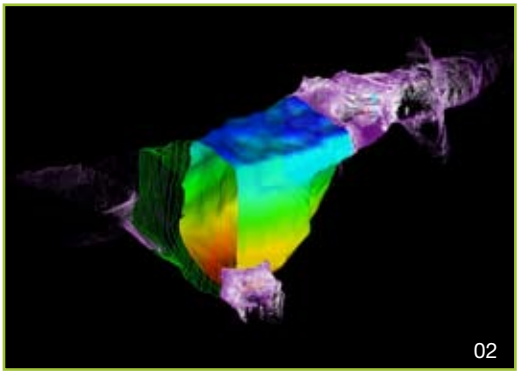
Randgold has 80% and the government of Mali a 20% interest in Loulo. Current mining is from 2 open pits, Yalea and Gara; underground mining has commenced at Yalea while construction of the second underground mine at Gara has begun.

Maptek delivered advanced training in I-Site Studio software to 2 surveyors on site in September 2009, observing first-hand the improvements to mine survey tasks brought by laser scanning.

Where safety, accuracy and time limitations were previously a barrier, the I-Site 4400CR helps to produce prompt results. Stope models, stockpile volumes and pit models are now created on demand without extensive prior planning.

For underground scanning, the scanner is mounted to a T-frame and suspended at various angles over the working edge of a drive.

The entire operation benefits from the survey data obtained by the I-Site 4400CR from underground, open pit and stockpiles. Data is fed into mine planning and volume reconciliations for stockpile management.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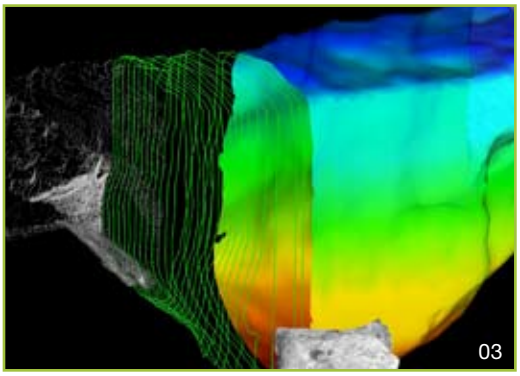
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01 Scanned underground stope
02 I-Site surveyed drive and stope
03 Modelled stope profile

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