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Sirovision®: a proposed solution for the implementation of a digital geological mapping and modelling system at AngloGold Ashanti's Moab Khotsong Mine

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Time:

A considerable reduction in mapping time was recorded, i.e. manual mapping of 4 hours replaced by Sirovision® process of 1½ hours (166% improvement).

- Geological data archive:

A full 3-D record of the rock face exposure can be kept for future reference. Consistent electronic recording of geological attributes to a database will enable simple retrieval and analysis of data.

- Accuracy:

A 20% increase in accuracy is reported, based on the consistent mapping by the system, as opposed to the varied physical skills and capabilities of individual geologists.

- Exposure:

An increase of 122% in the amount of exposure mapped is achieved. This is because the camera rig can capture the full picture (4 m high) from the bottom to the top of the excavation, whereas a geologist is limited to approximately 1.8 m height for accurate observation and recording of data.