

GE.View an online tool for assessing Grade Engineering® opportunities

PROJECT P1-004

To use predictive modelling of heterogeneity to identify Grade Engineering opportunities in the WA gold industry from public domain data.

To develop the potential of the vast Geo.View database by focussing on increasing the value of the collection by applying Grade Engineering tools to add an extra dimension, potentially revealing new economic opportunities for the industry. The system will allow users to assess and rank opportunities on a deposit-by-deposit basis

This will take the technology to TRL4 status.



Research collaboration

This research is being lead and managed internally by members of CRC ORE's Innovation Delivery Group. Technical specialists from a number of our participant research organisations are contributing their expertise in discipline-specific areas..



GE.View is a development project extending the breadth of previous CRC ORE research findings into a new sector and enabling wider dissemination of our central Grade Engineering® philosophy and approach.

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Timing: March 2016 – September 2017
Participants: Minerals Research Institute of Western Australia (MRIWA), CRC ORE Innovation Delivery Group

CRC ORE

Background & aims

The Western Australian government has developed and published a unique and comprehensive collection of geological data from historical and active mines in WA. The Geo.View web portal is a GIS-based system used to query and visualise geology and resource-related data sets including drill holes and assay information. CRC ORE has recognised the potential of this vast database and is focused on increasing the value of the collection by applying Grade Engineering® tools to add an extra dimension, potentially revealing new economic opportunities for the industry.

The project aims to extend Grade Engineering® concepts into the WA gold industry, allowing users of a new web portal (GE.View) to assess and rank opportunities on a deposit-by-deposit basis. The new portal and approach form a key component of CRC ORE's engagement with the WA gold industry and is a central platform for a future industry hub providing Grade Engineering® services in Western Australia.

Focus on outcomes

- Database compilation and data mangling for Geo.View sourced information.
- Development and extension of CRC ORE's heterogeneity indices.
- Linking heterogeneity indices with Grade Engineering® opportunity preliminary assessments, highlighting the most appropriate coarse separation lever(s) on a deposit-by-deposit basis.
- Industry workshops, education and training.
- New on-line web portal for preliminary Grade Engineering® evaluation.