





The solution



- Back-to-basics mining plan
- Productivity
 - Re-focused and measured DDT implementation
 - Revised bonus system rewarding quality production















Back-to-basics mining plan



- Improve mining basics
 - Maximising conventional Merensky volumes
 - Focus on 3rd generation Merensky shafts
 - Training of miners on correct mining parameters
 - · Appoint grade control observers for follow-up coaching
 - Supervision at the face with regards to marking, drilling & blasting practices
 - Review stope and strike plots daily with regards to mining panels at correct parameters
 - · Review trends weekly at shaft level













Back-to-basics mining plan



- Improve management information
 - · All panels mined observed & sampled at least three times per month
 - · Reports generated daily for actioning
- Senior management review trends & progress
 - Mid-month & month-end













Back-to-basics mining plan



- Other influencing parameters
 - On reef development metres vs. stoping m²
 - On reef excavation dimensions
 - Sweepings
 - Waste control
 - Ore mix
 - Merensky versus UG2
 - Conventional Merensky versus mechanised Merensky
 - Underground versus opencast

















DDT Scorecard



Primary benefits

- Safety
 - · Remove RDO from danger area
 - Permanent support close to face
 - 70% of roofbolting Merensky teams
 - Reduction in number of FOG's



















DDT Scorecard



Secondary benefits

Reduce physical effort



- Productivity improvement
 - 30% of 290 teams using DDT's
 - Assuming a blast frequency of 19 blast/month
 - Potentially 1.2m advance per blast
 - Achieve better face advance per blast

- X
- 1

Cost per ounce benefit















DDT challenges



- Logistics
 - Spare equipment
 - Maintenance by team
 - Repairs turnaround time
 - Equipment availability
 - Transporting of equipment























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DDT key features and action plans



- Cycle completion
 - Cycle study in progress
 - Team complement setting
 - Re-focus on training (40 teams re-trained)

End Feb 07

- Mining environment
 - Rolling Reef (technical re-design/modifications)
 - Ledging / Vent holings / Bad blast ongoing challenge

Nov 06

- Alignment of incentive scheme
 - Face advance component
 - Quality component (sweepings) team
 - Dilution component supervision

Nov 06













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