Advanced Blasting Technology

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But...



Orica in Asia

Global Mining Services HQ in Singapore







Agenda

- Electronic Detonators
- How are Orica's Customers using Electronic Detonators in Blast Based Services projects
 - Open Cut Coal
 - Open Cut Gold
 - Underground Gold



Electronic Detonators



• Thru seam blasting



















Thru-seam:





- Minimise environmental impacts
- Minimum coal height down to 200mm
- Develop accurate coal model
- Increase % of resource recovered
- Increase capitalisation of coal reserves
- Eliminate capital requirement for wash plants





Open cut gold



Open cut gold

• Consider the following example;



- Typical gold mine blast
- 3m x 3m pattern, 6m bench height



Open cut gold

- 14 holes
- 3m x 3m x 6m x 14 holes
 - 760 BCMs
 - 1,800t
- @ 3 g/t
 - 5,400g
 - 180 oz
- @ 1500 USD/oz

- <u>\$270,000 USD per blast</u>



Underground gold







Conclusion

- Electronic detonators are just one tool in an expanding tool box
- Apart from the right tools you also need,
 - The right people to operate the tools; the "knowledge"
 - A willingness to look past the drill and blast process to realise the value of using these tools

