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Deep level gold mining challenges

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HARMONY IS A GOLD MINER WITH A GROWING COPPER PORTFOLIO IN PNG

South Africa

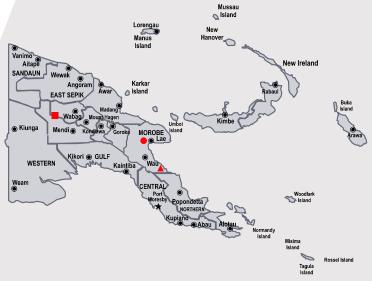


9 underground operations ••

1 open pit mine A

Multiple surface sources •

Papua New Guinea



Kili Teke discovery (100% owned)

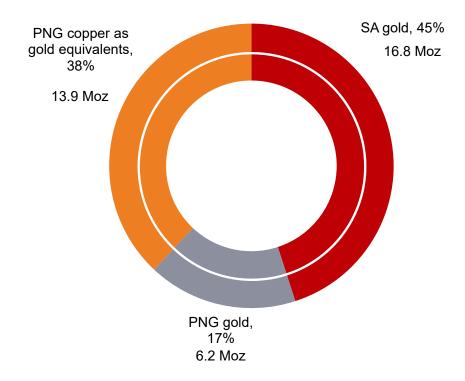
1 open pit mine (50:50 JV) •

Golpu project (50:50 JV) •

Multiple exploration areas (50% and 100%)

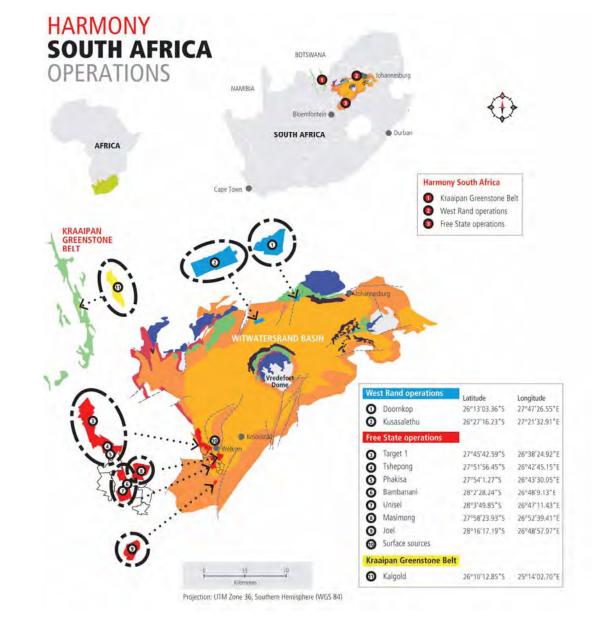


QUALITY RESERVES (GOLD EQUIVALENT) SPLIT



- ◆ Total reserves of 36.9 Moz
- ◆ Total resources of 105.2 Moz

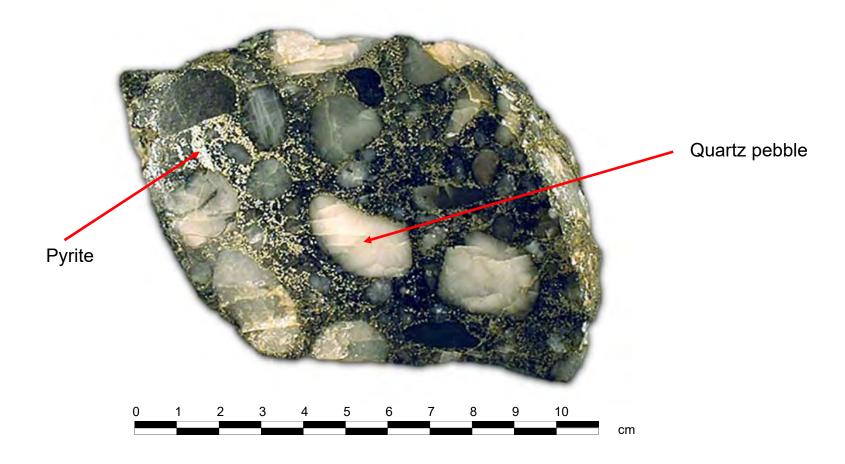






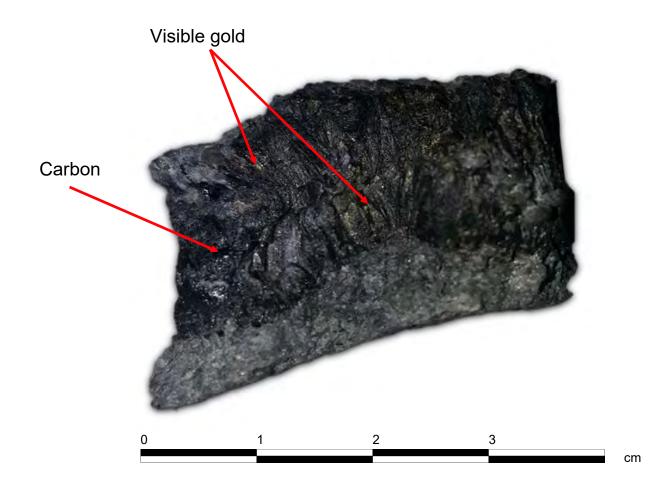


GOLD BEARING WITWATERSRAND CONGLOMERATE





GOLD BEARING WITWATERSRAND CONGLOMERATE





WITWATERSRAND SUPERGROUP

- 2 900 million years old
- About an 8km thick sedimentary sequence
 - represents the preserved remains of a massive inland lake
 - in which silt and gold deposits from alluvial gold settled
 - forming the gold-rich deposits that South Africa is famous for
- Gold concentration by sedimentary processes unique in contrast to most of world's gold deposits that occur in quartz and carbonate veins in fault zones
- Witwatersrand Basin remains the world's largest gold resource
- Gold discovered in 1886, Johannesburg
- ◆ To date the Wits Basin has produced more than 2 billion ounces of gold





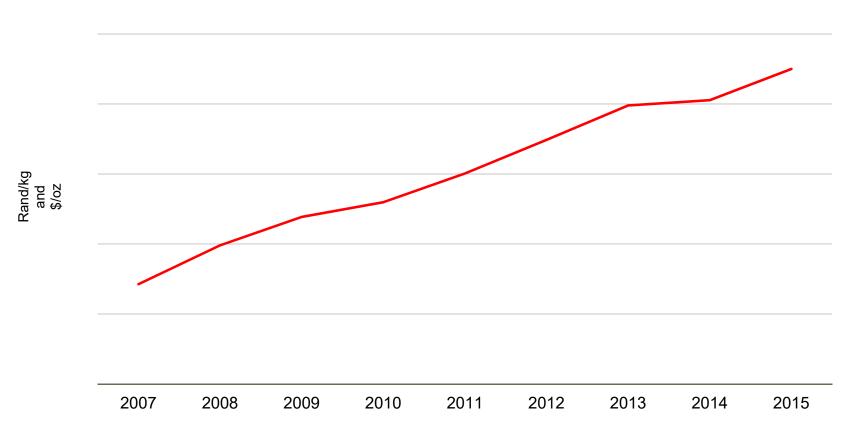
ANATOMY OF A DEEP LEVEL UNDERGROUND GOLD MINE





© Harmony | Extending the life of Witwatersrand ore bodies

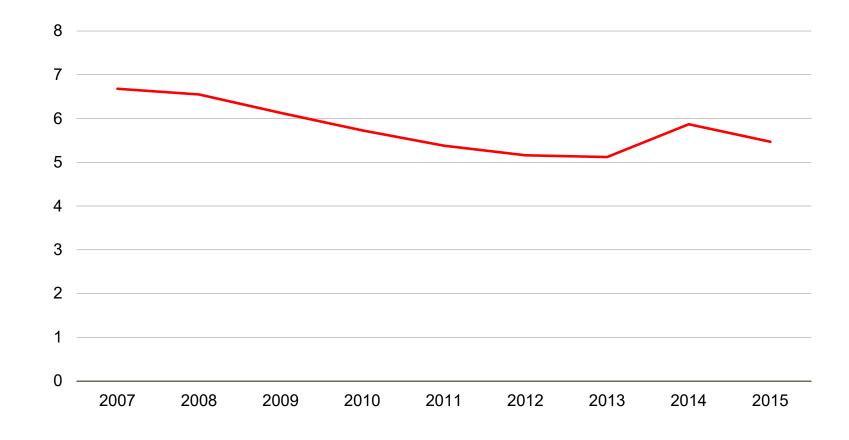
TREND OF INCREASE IN UNIT COST





DECLINING UNDERGROUND GRADES AND DEPLETING RESERVES

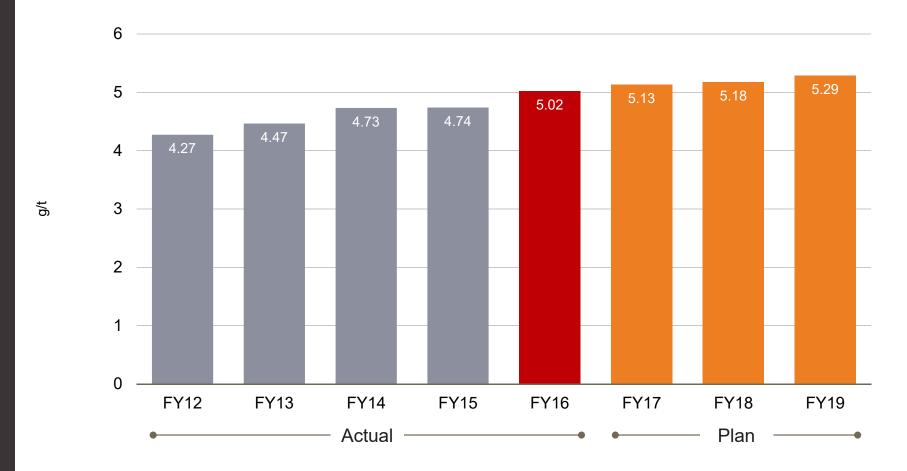
Underground recovered grade – SA gold mining industry





Harmony | Extending the life of Witwatersrand ore bodies

....UNDERGROUND RECOVERED GRADE AT HARMONY INCREASING







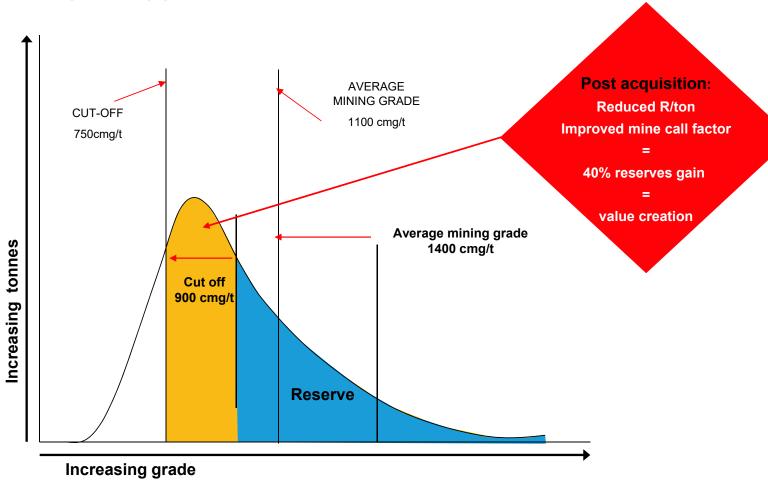
HARMONY'S APPROACH TO DEAL WITH INCREASING COST AND DECLINING GRADES

- Ore reserve management
- Cost management
- Disciplined mining



ORE RESERVE MANAGEMENT

Cut-off and average mining grade



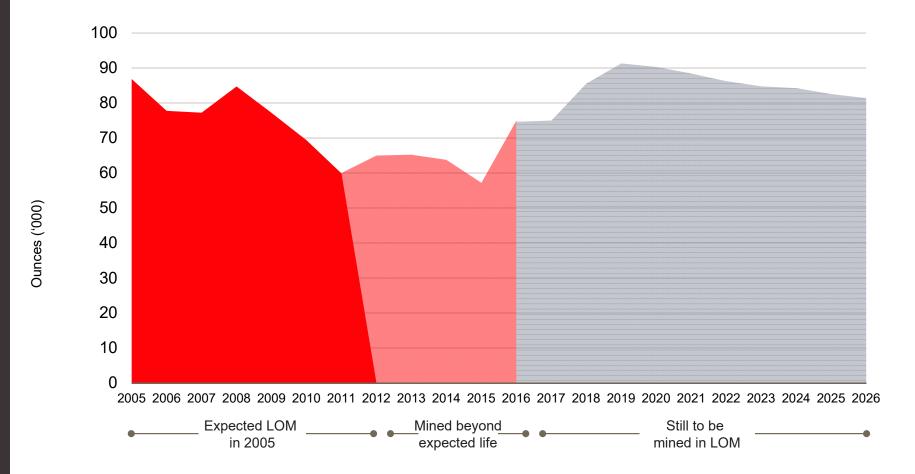


HARMO

EXTENDING THE ECONOMIC LIFE

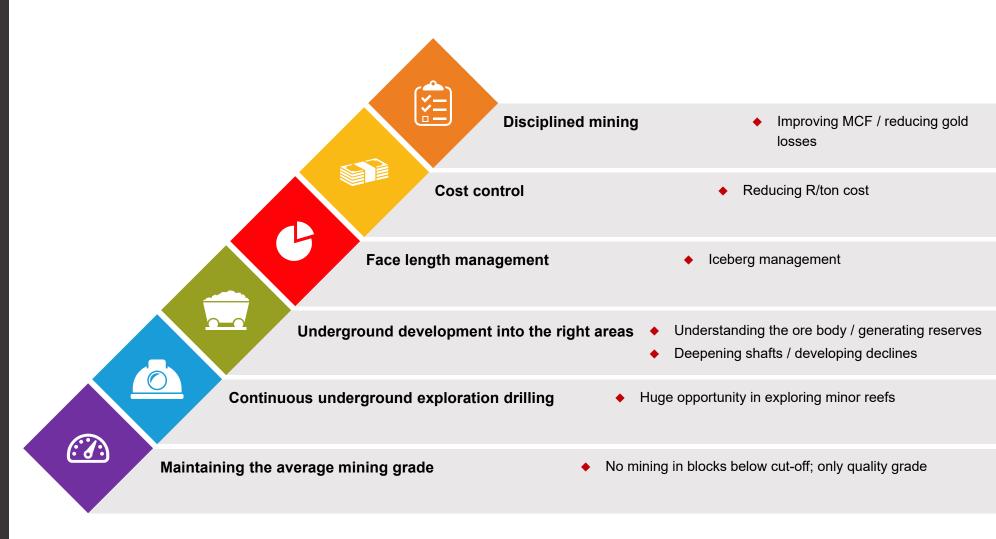
Increase in reserves

(Actual example of one of Harmony's operations)



HARMONY

WHAT MAKES THE DIFFERENCE?





MORE UPSIDE

- Significant resources to be converted to reserves in the Witwatersrand
- Harmony's approach to ore reserve management, cost control and disciplined mining has shown it is possible to increase the margins and extend the economic life of Witwatersrand ore bodies





