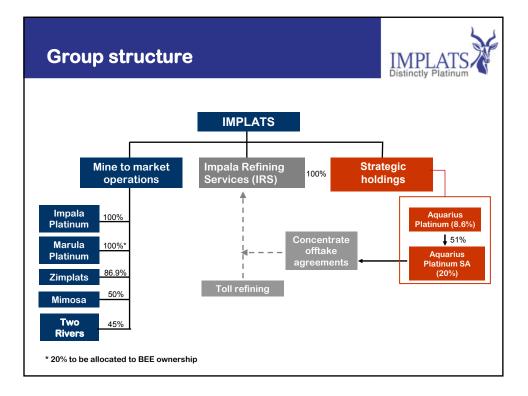


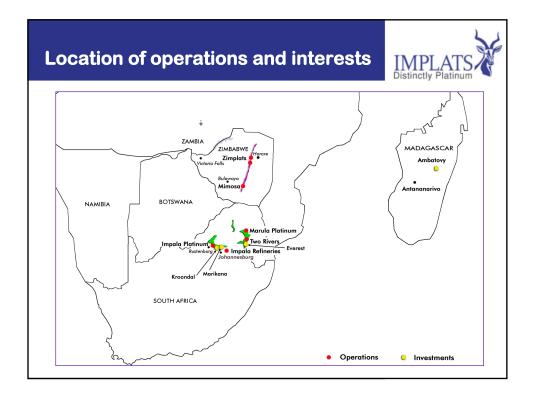
## **Key statistics**

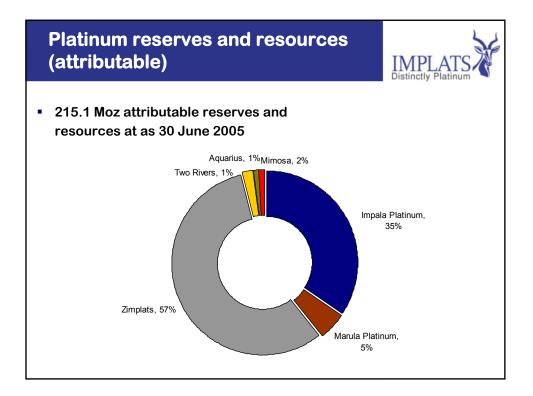


#### Implats

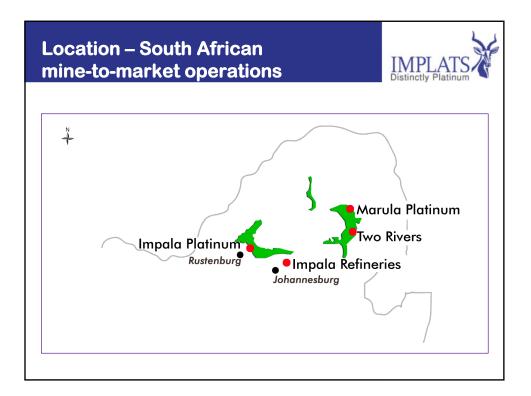
- Has operations located on two prime PGM deposits
  - the Bushveld Complex in South Africa (Impala Platinum, Marula Platinum and Two Rivers Platinum)
  - the Great Dyke in Zimbabwe (Zimplats and Mimosa)
- Impala Refining Services toll-refining and third party processing
- Strategic interests in Aquarius Platinum and Ambatovy













IMPI

## Impala Platinum

Implats' flagship operating unit comprises

- Mining operations on the Impala lease area on the western limb of the Bushveld Complex
  - 13 shafts and five declines
  - Two shafts under development
- Mineral Processes
  - Concentrating and smelting plants
- Refineries
  - Base metal refinery and precious metal refinery

## Impala Platinum

• 30-year life-of-mine at 1.1Moz Pt annually

	FY2005
Tonnes milled (000t)	15,778
Refined Pt production (000oz)	1,115
Cost per Pt oz refined (R/oz)	4,251
No of employees (000)	26.9
Capex (Rm)	1,693

# Impala – focus on costs through technology





- Roll-out of drill jigs
- 20% Merensky panels in FY05 60% Merensky panels in FY06 100% Merensky panels in FY07
- Potential for 5-10% improvement in overall mining efficiencies



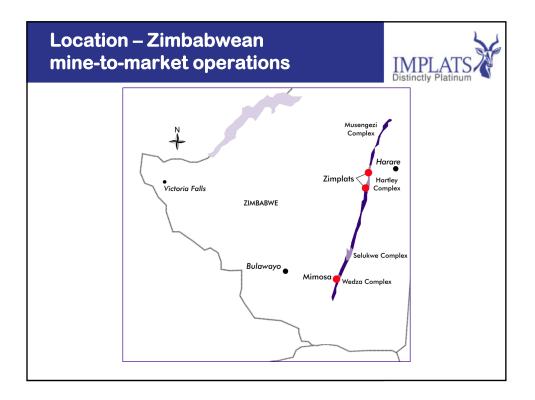
## Marula Platinum



- Change to owner-mining in Dec 2004/Jan 2005
- Further development expenditure of R830 million approved for conversion to conventional mining
- Currently in ramp-up phase
  - Steady state production of 140,000 oz platinum in 2009
- Life-of-mine of 17 years

	FY2005
Tonnes milled (000t)	766
Platinum production in concentrate (oz)	29,800
Capex (Rm)	118





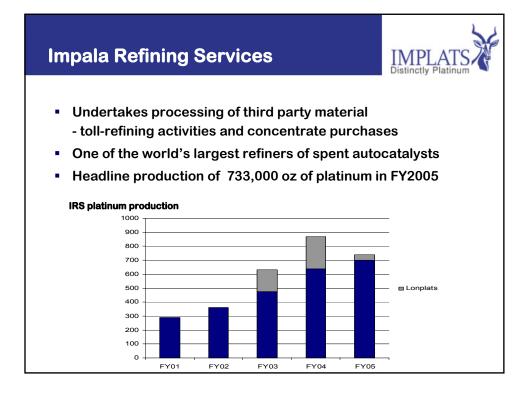
Zimpla	ats				
<ul> <li>Underground expansion approved (US\$46 million)</li> <li>Feasibility study for further expansion to 145,000 Pt oz</li> </ul>					
		FY2005			
	tonnes milled (000t)	2,058			
	platinum production in matte (oz)	86,800			
	cost per Pt oz in matte (R/oz)	6,249			

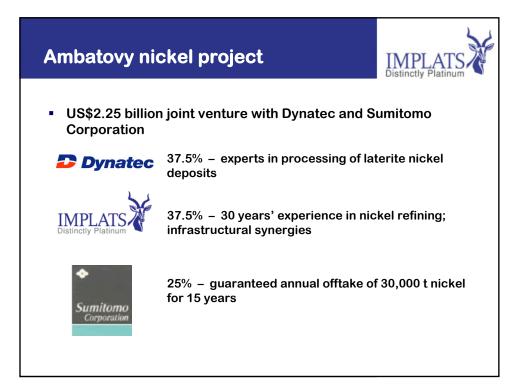


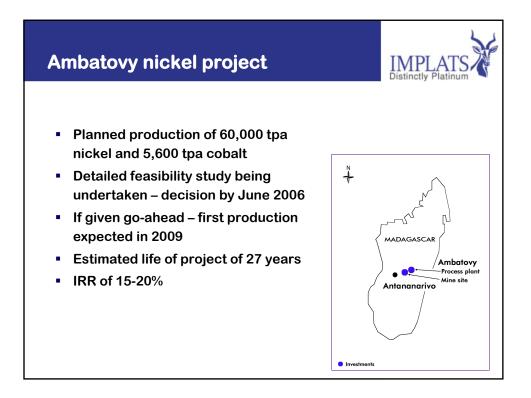
#### Expansion to 80,000 Pt oz approved

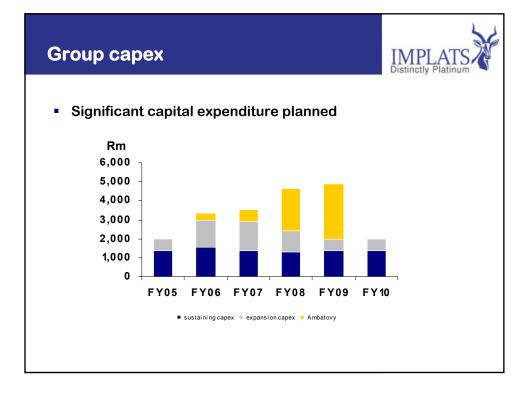
Mimosa

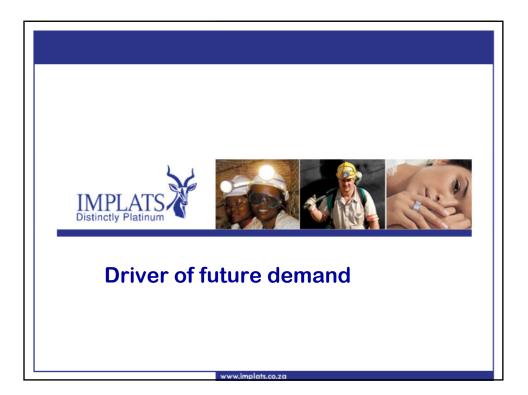
	FY2005
tonnes milled (000t)	1,424
platinum in concentrate (oz)	66,700
cost per Pt oz in concentrate (R/oz)	5,472

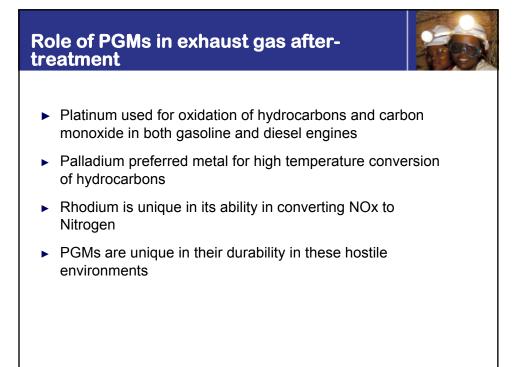


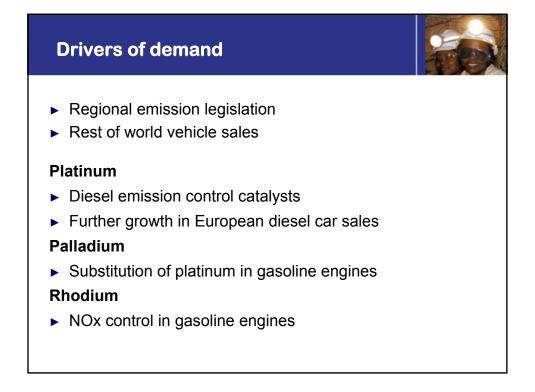


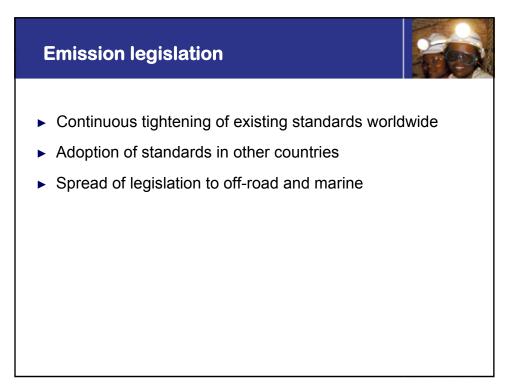


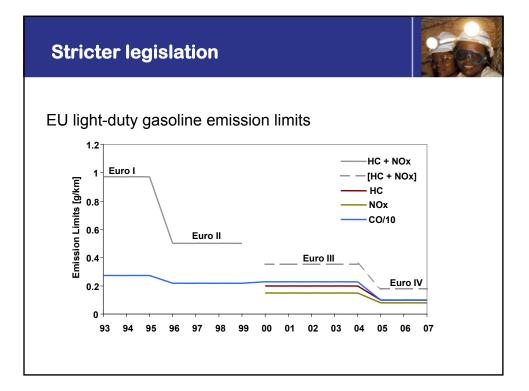


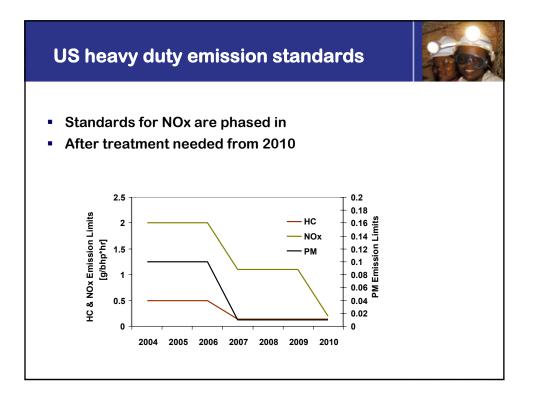




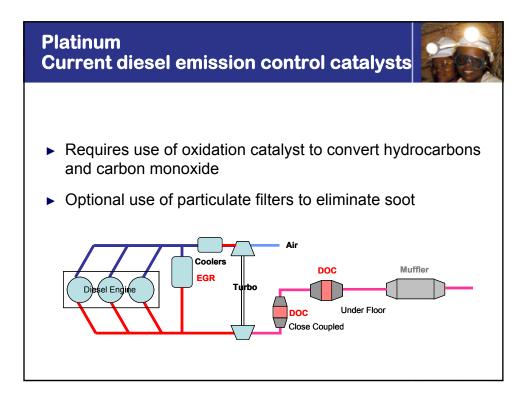


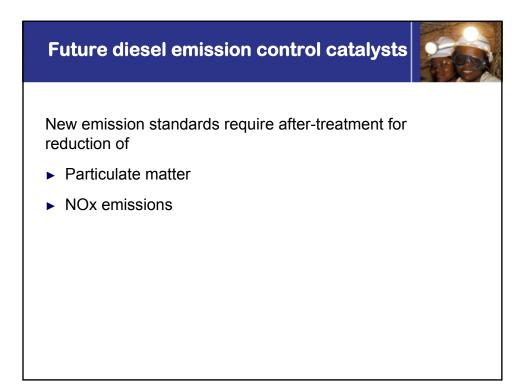


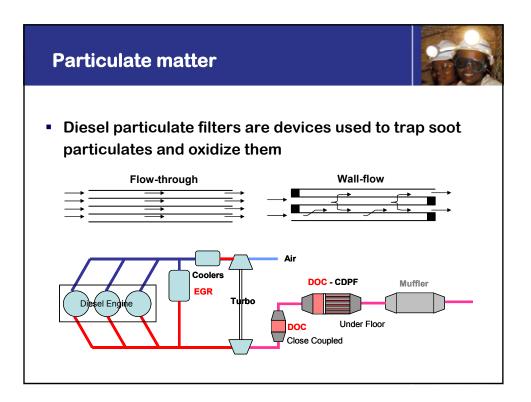


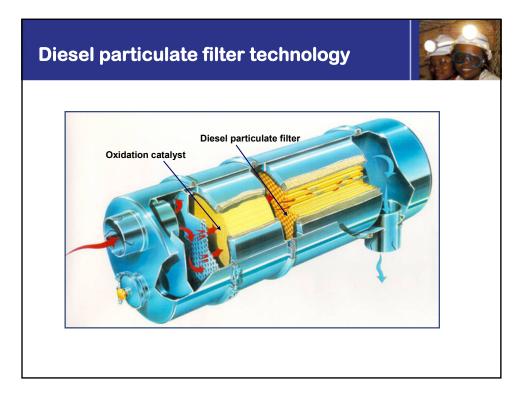


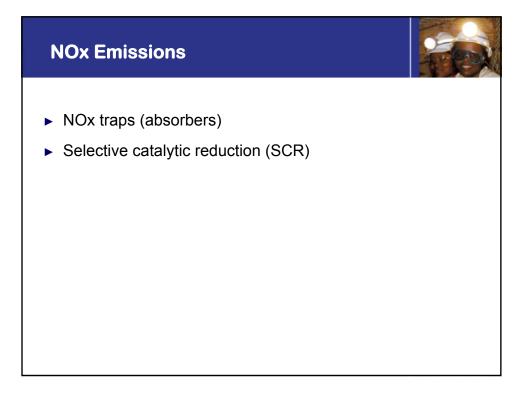


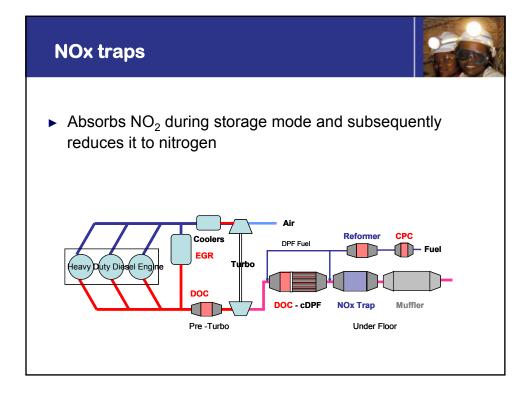


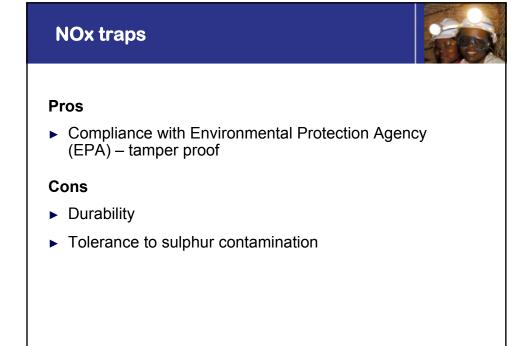


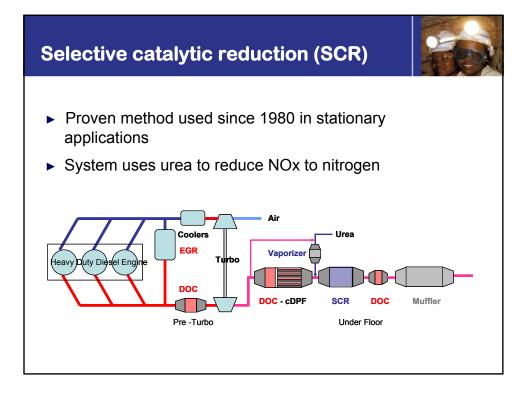












## Selective catalytic reduction (SCR)



#### Pros

- Can meet ultra-low NOx limit
- Allows improved fuel economy

#### Cons

- EPA has no clear regulatory control over urea compliance in USA
- Lack of urea infrastructure

## Selective catalytic reduction (SCR)



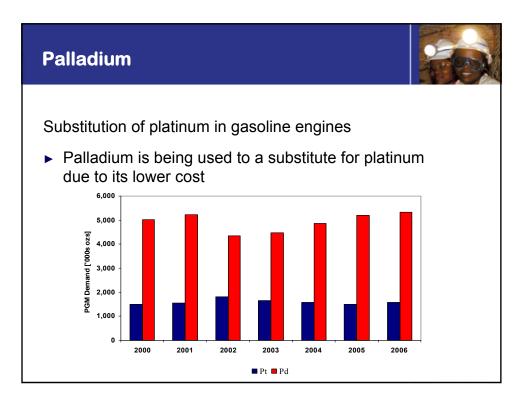
#### Pros

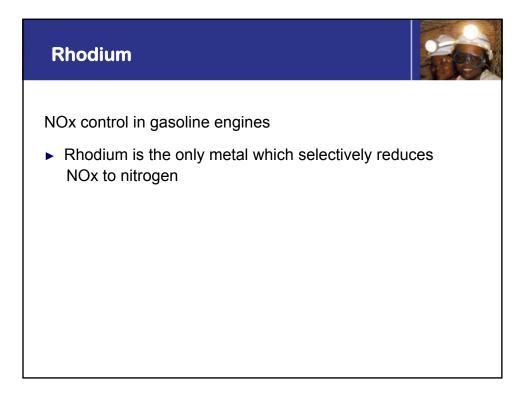
- Can meet ultra-low NOx limit
- Allows improved fuel economy

#### Cons

- EPA has no clear regulatory control over urea compliance in USA
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### **Implications for PGMs**



#### Platinum

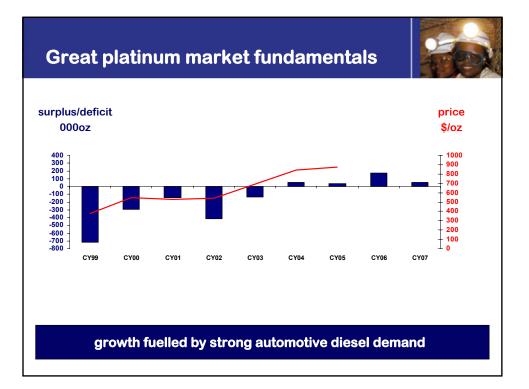
Increased diesel vehicle sales and the use of catalysed particulate filters could result in demand approaching 5 million ounces by the end of the decade

#### Palladium

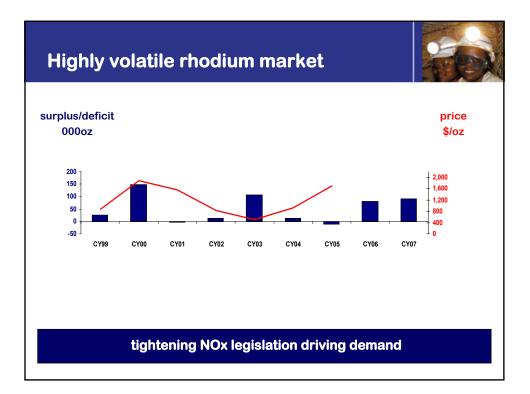
 Aided by strong Asian vehicle sales, demand set to exceed its previous peak of 5.5 million ounces

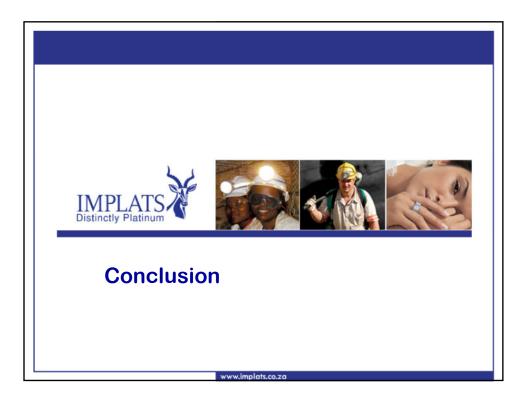
#### Rhodium

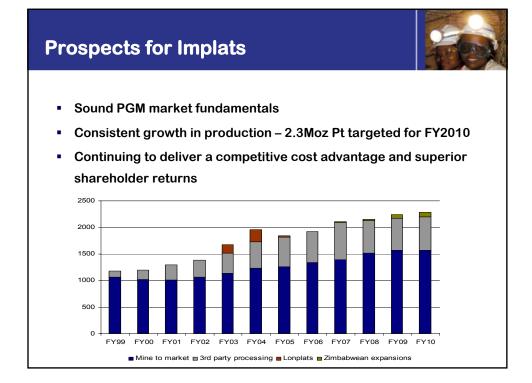
 Increased loadings in response to stricter legislation is forecast to result in demand reaching 900,000 ounces by 2010

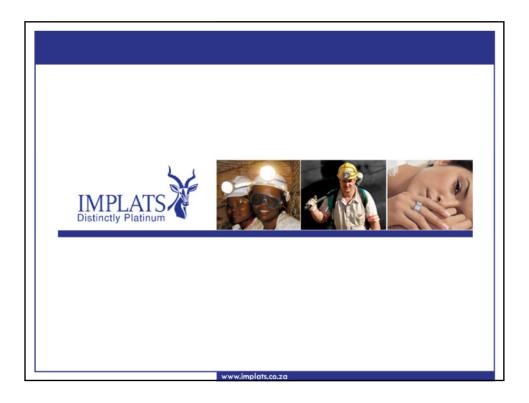












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