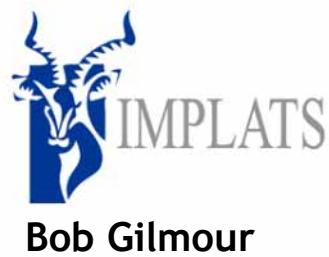


Southern African expansions set to meet growing platinum demand

PDAC
March 2004



Overview

- Historical platinum and palladium demand and supply
- Outlook for platinum demand
- How growing platinum demand will be met?



Historical platinum and palladium demand and supply

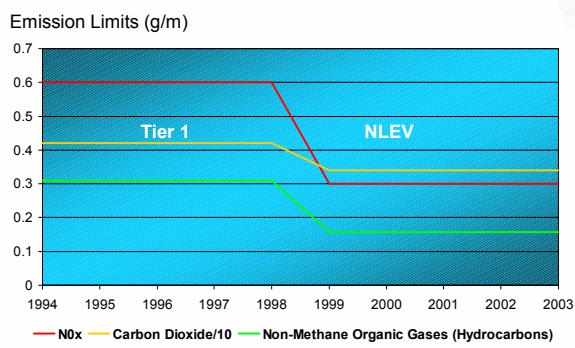


3

Platinum demand

Automotive

- Spread of emission legislation and adoption of stricter standards

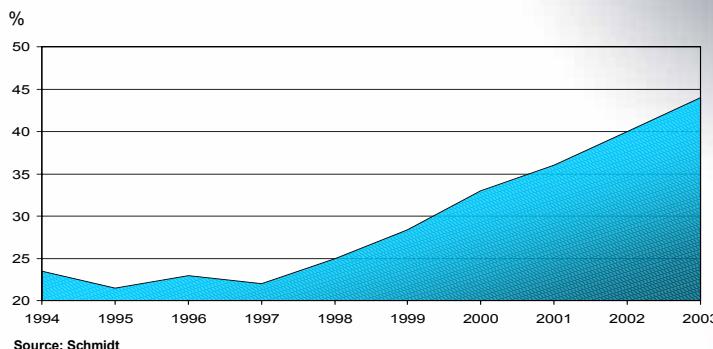


4

Platinum demand

Automotive (cont)

- Diesel share of European new car sales



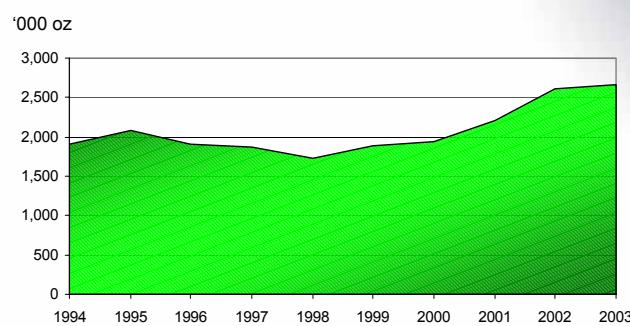
Source: Schmidt



5

Platinum demand

Total Automotive demand



6

Platinum demand

Jewellery

- Consumer desire for white metal

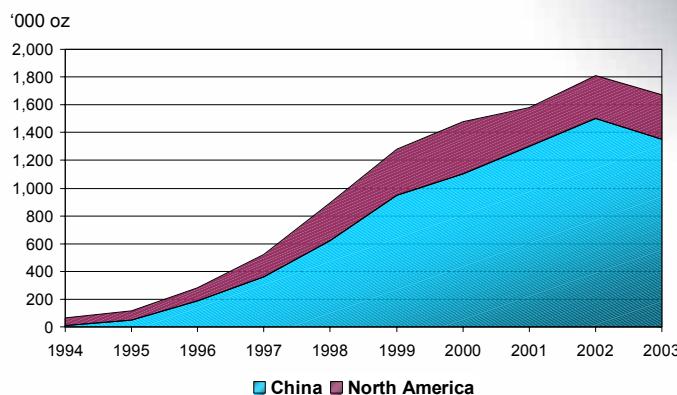


7

Platinum demand

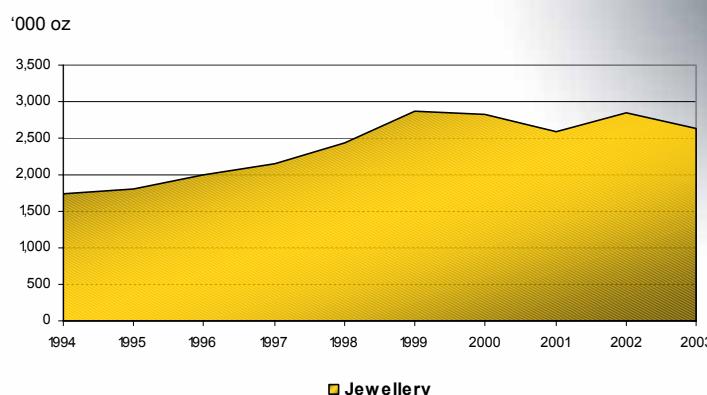
Jewellery (cont)

- New markets



8

Platinum demand



9

Platinum demand

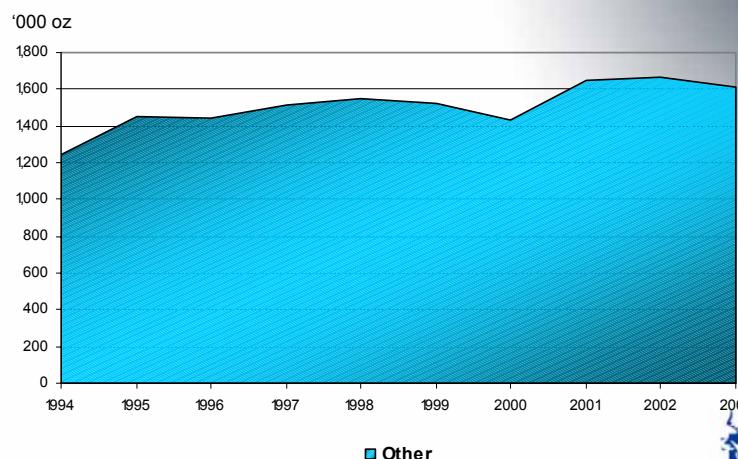
Other

- **Industrial**
 - Expanding applications
 - Economic growth
- **Investment**
 - Price sensitive



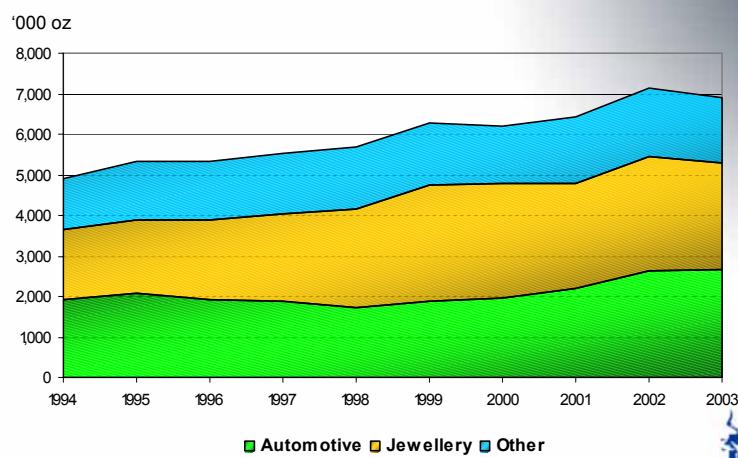
10

Platinum demand



11

Platinum demand

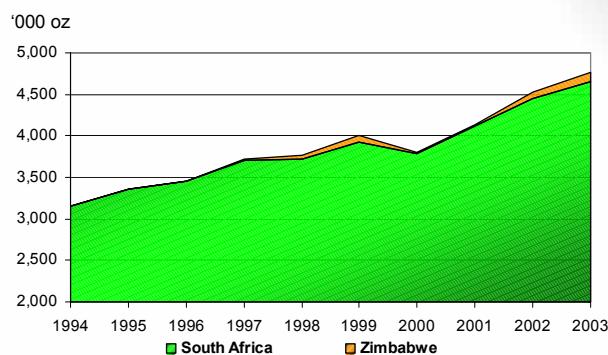


12

Platinum supply

Southern Africa

- South African expansions
- Emergence of Zimbabwe

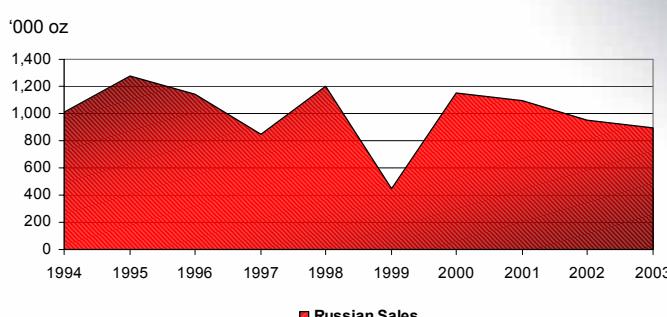


13

Platinum supply

Russia

- Sales erratic

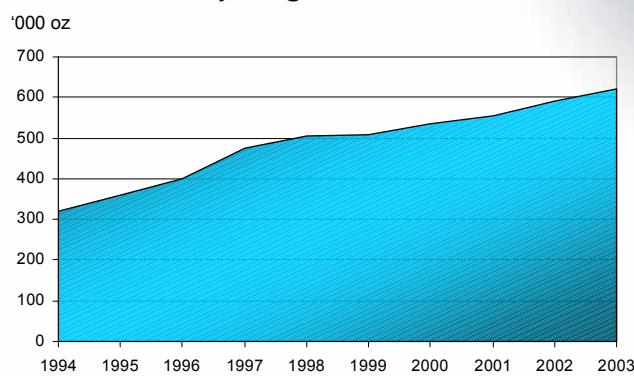


14

Platinum supply

Secondary

- Increase in recycling

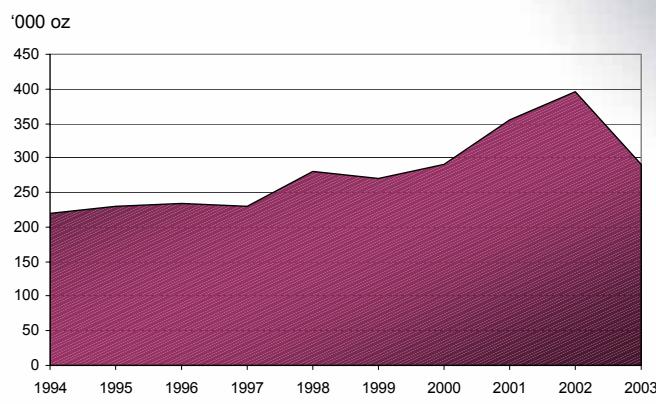


15

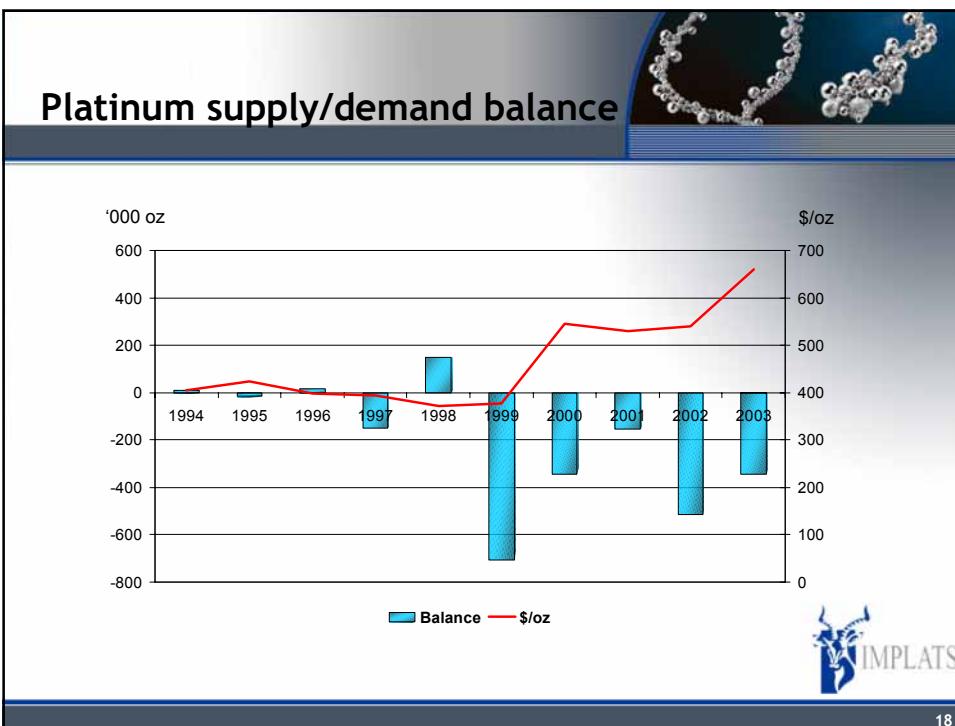
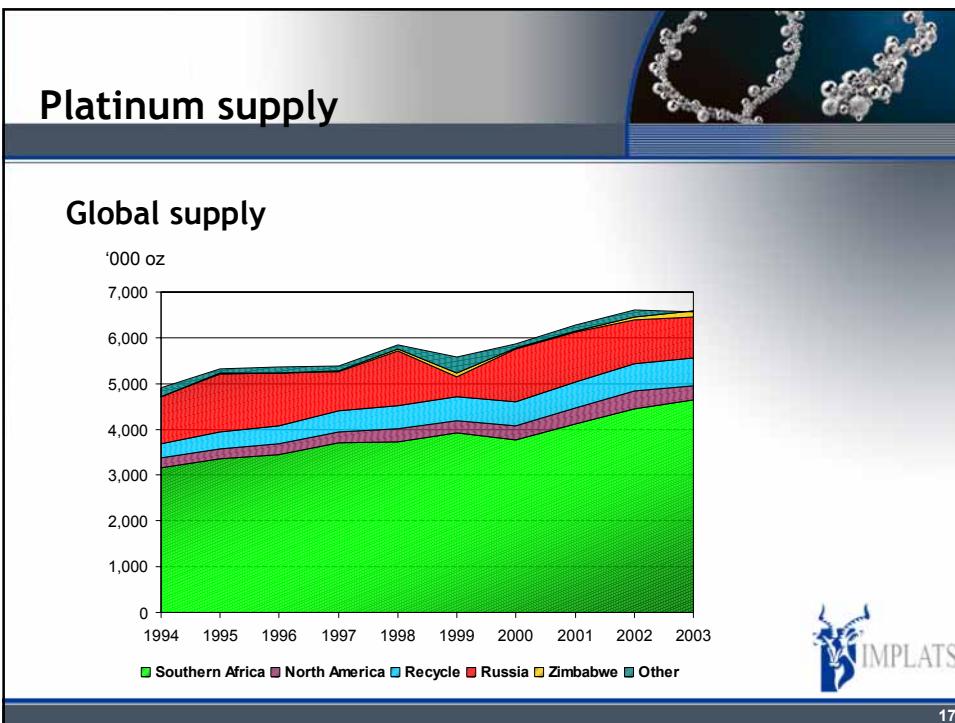
Platinum supply

North America

- Combination of primary and by-product output



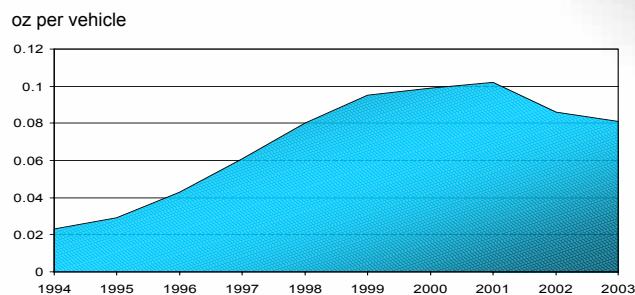
16



Palladium demand

Automotive

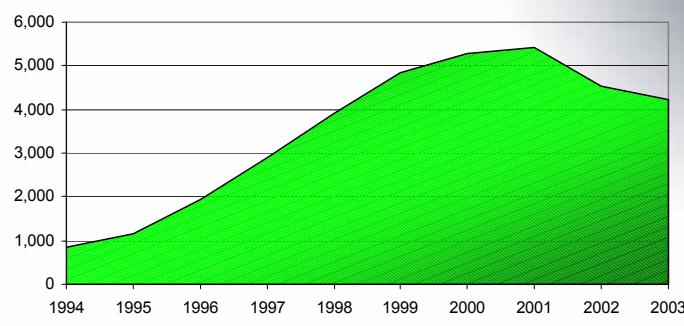
- Legislation
- Substitution for platinum



19

Palladium demand

'000 oz



■ Automotive

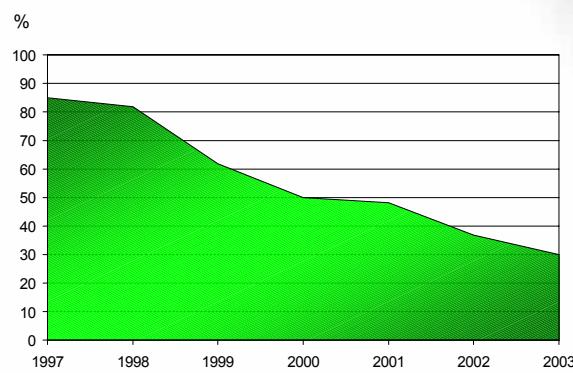


20

Palladium demand

Electronics

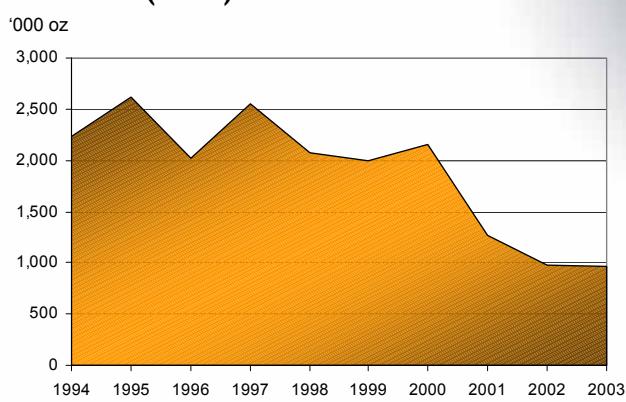
- Substitution by nickel in MLCC's



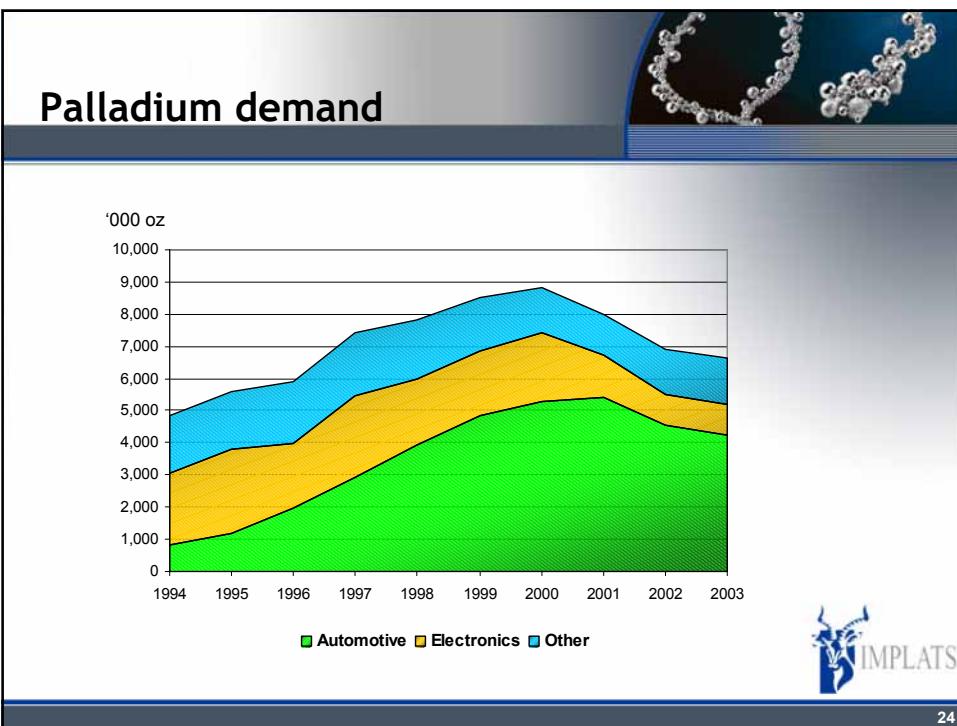
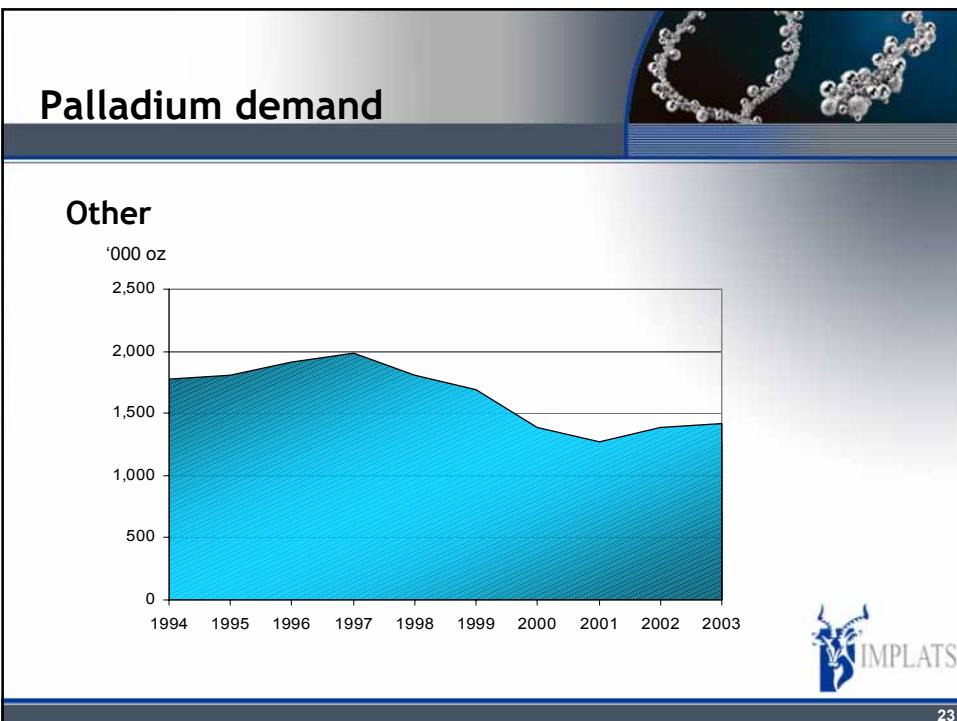
21

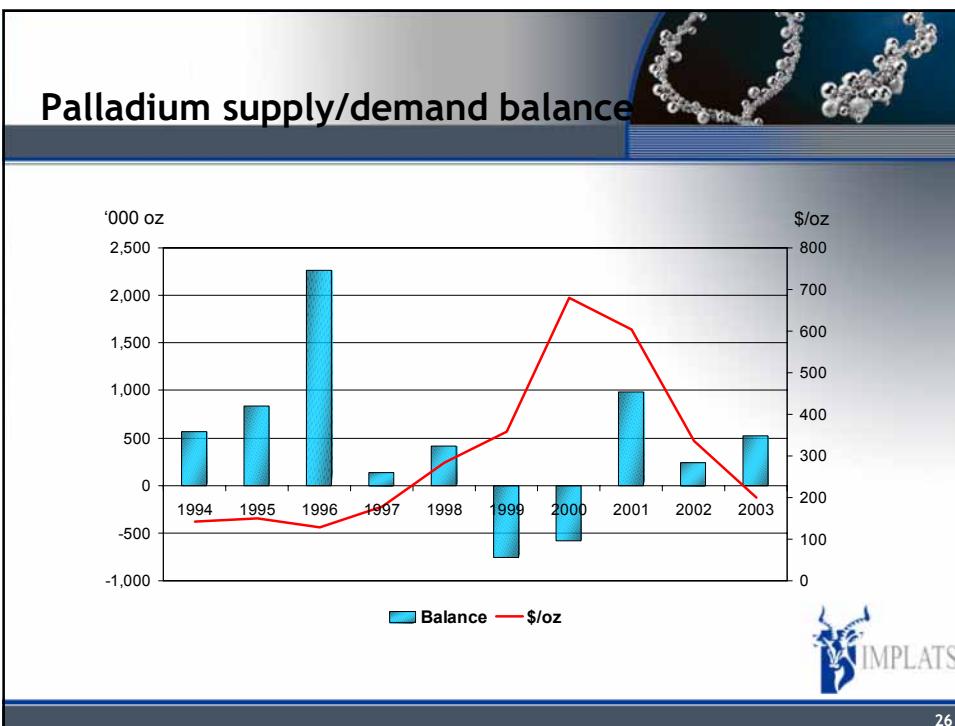
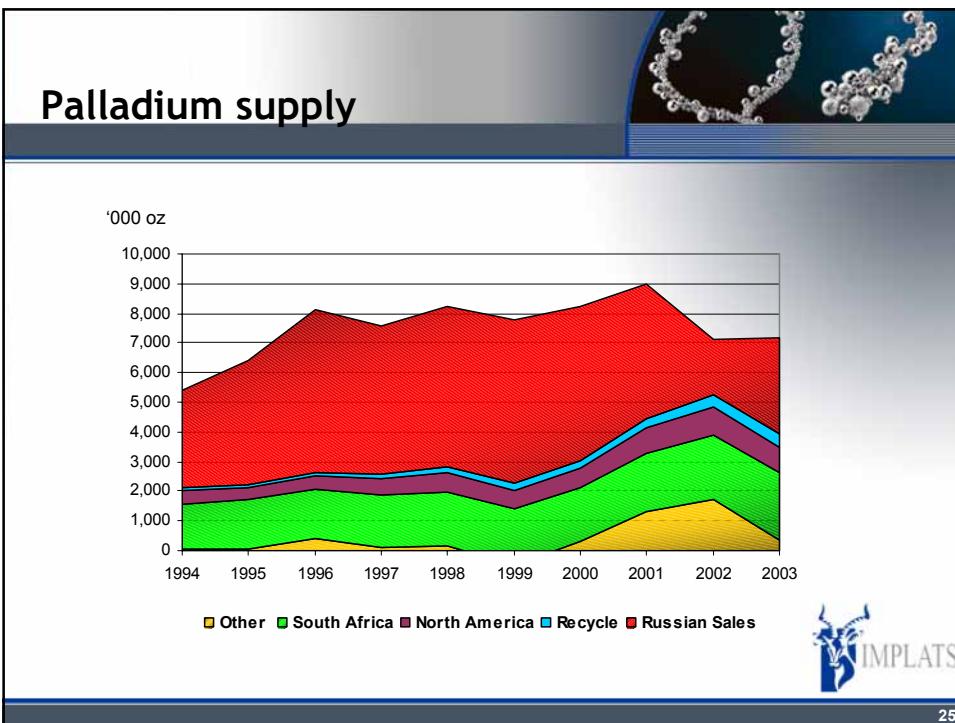
Palladium demand

Electronics (cont)



22





Outlook for platinum demand

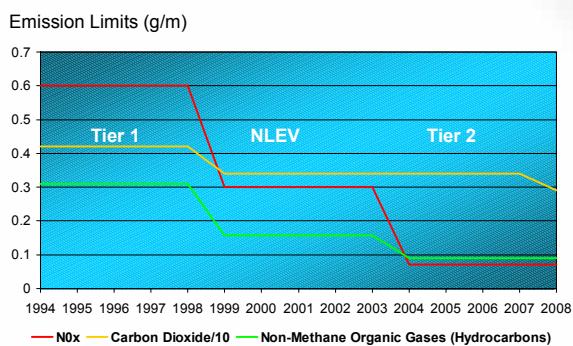


27

Outlook for platinum demand

Automotive

- Adoption of stricter legislation



28

Outlook for platinum demand



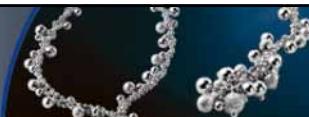
Automotive (cont)

- Ongoing expansion of light duty diesel market
- New legislation covers heavy duty vehicles - mainly diesel
- Growth in rest of world vehicle sales



29

Outlook for platinum demand



Jewellery

- Resilient market underpinned by strong consumer demand
- New market development
 - India
 - South East Asia
 - Middle East
- Bridal



30

Outlook for platinum demand



Fuel cells

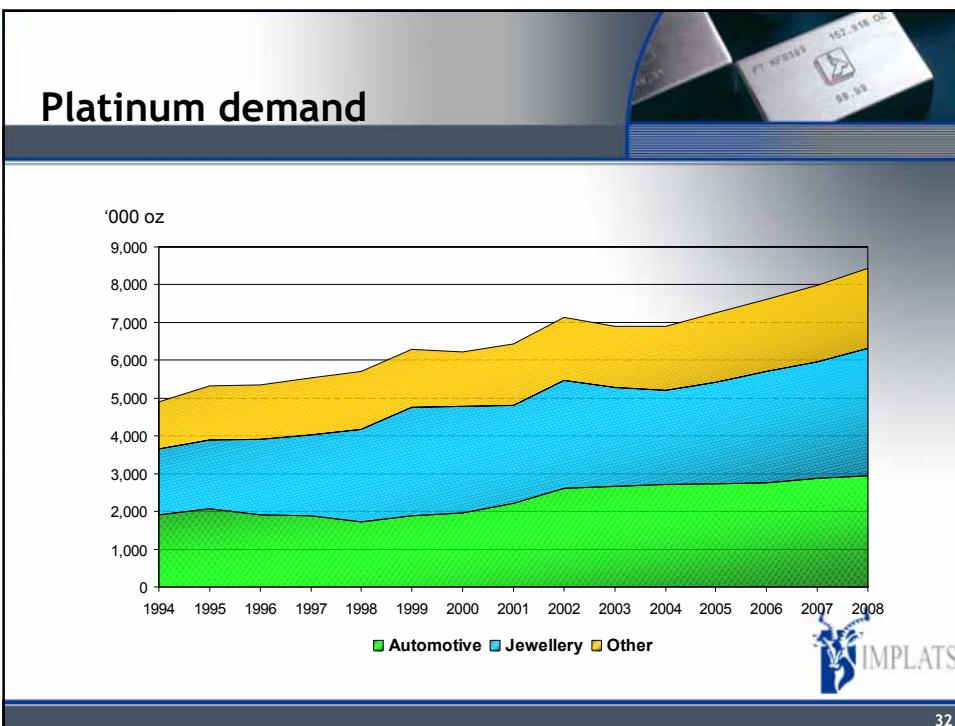
- Commercialisation starting



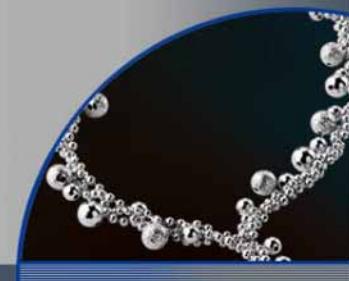
Ultimatecarpage.com

IMPLATS

31



**How will growing platinum
demand be met?**



by Southern African expansions



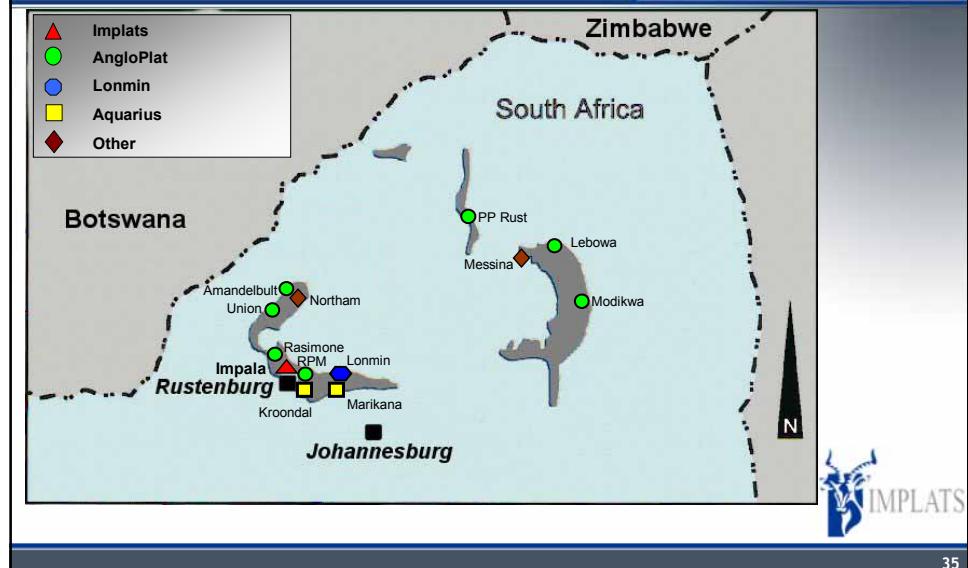
33

**South Africa/Zimbabwe
operations**



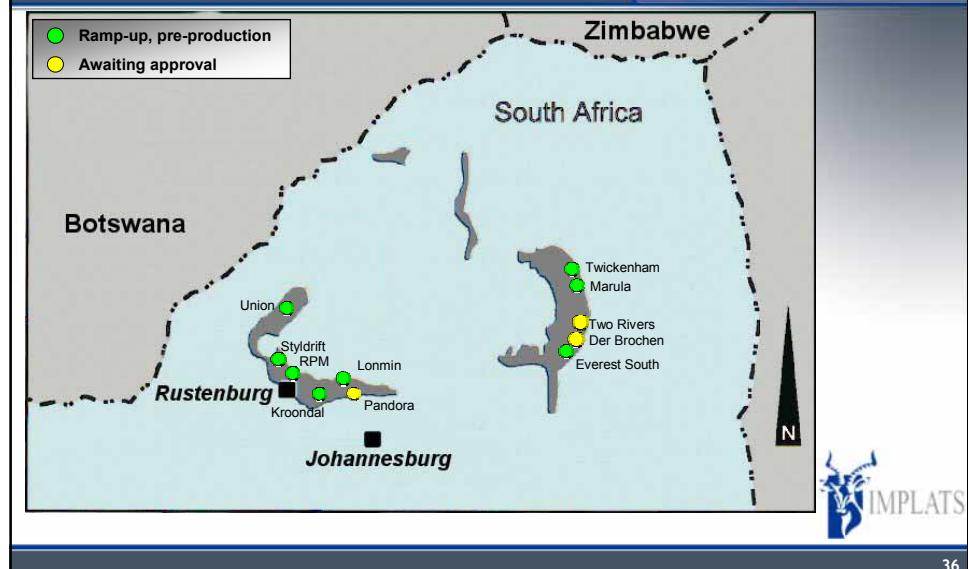
34

Bushveld Complex South Africa - existing operations



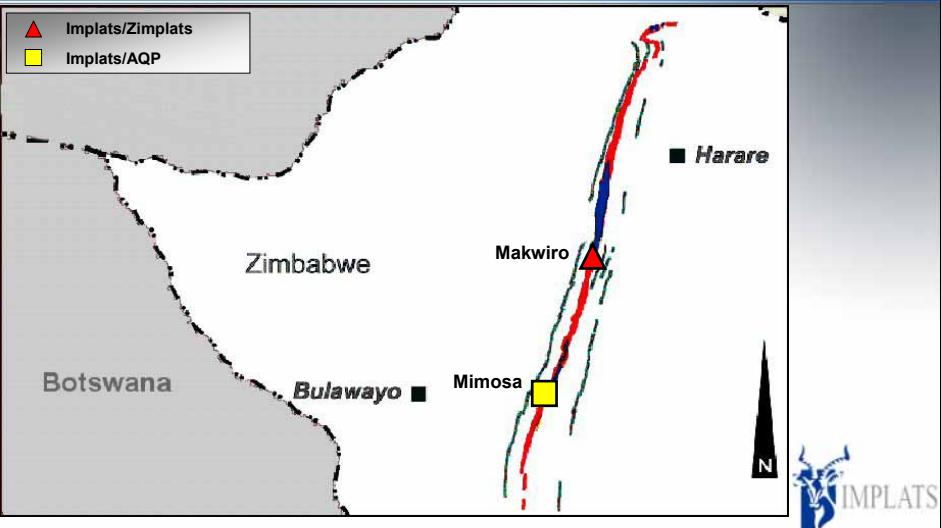
35

Bushveld Complex South Africa - expansion projects



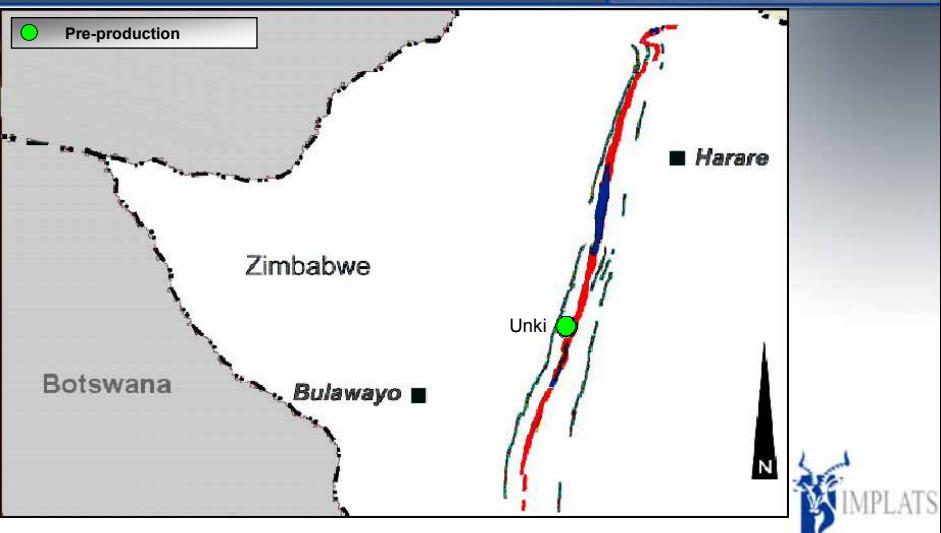
36

Great Dyke Zimbabwe - existing operations



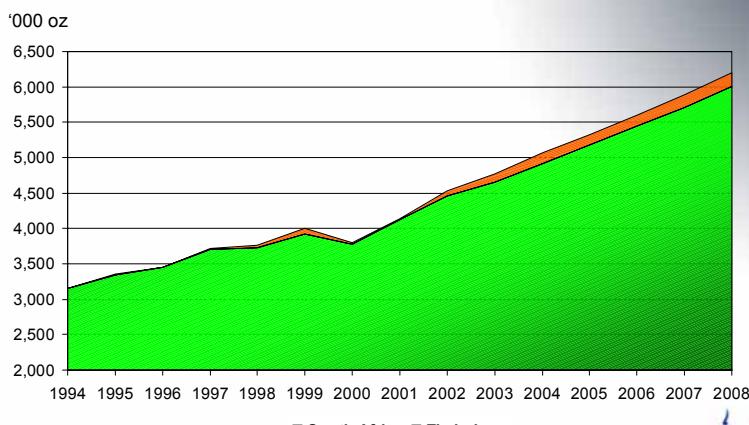
37

Great Dyke Zimbabwe - expansion projects



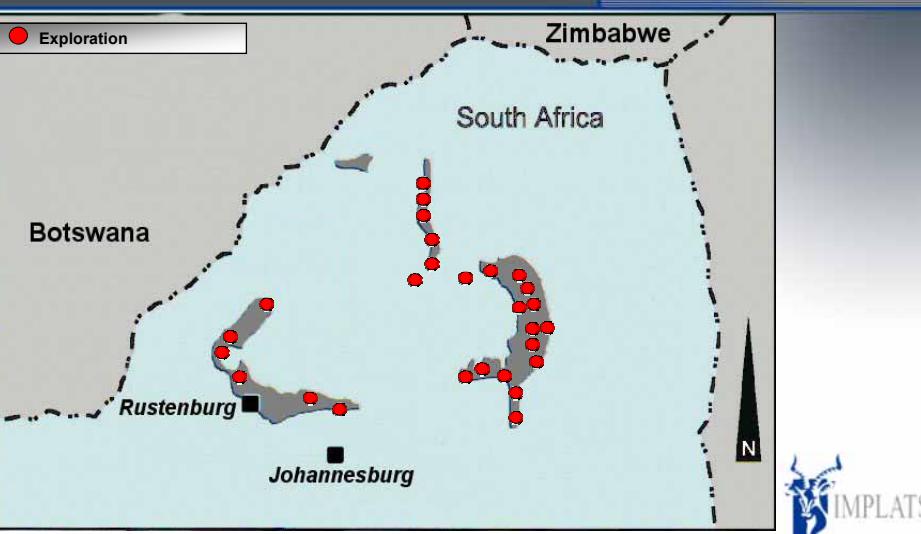
38

Southern African platinum supply



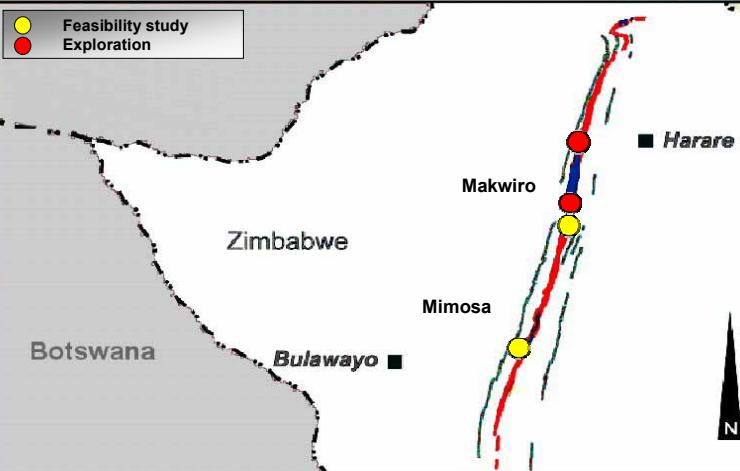
39

Bushveld Complex South Africa - expansion projects



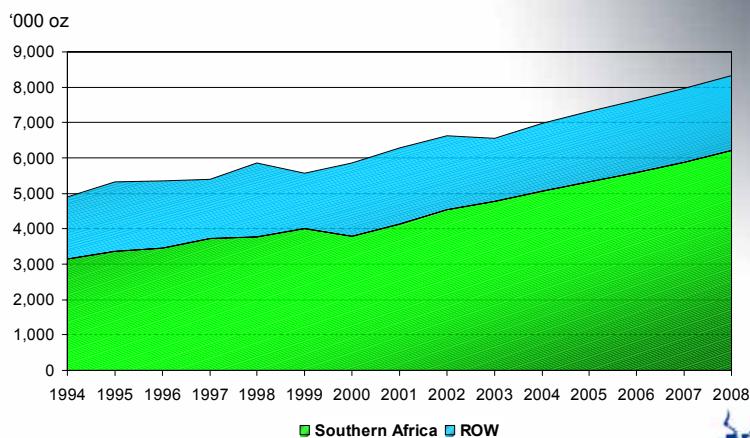
40

Great Dyke Zimbabwe - expansion projects



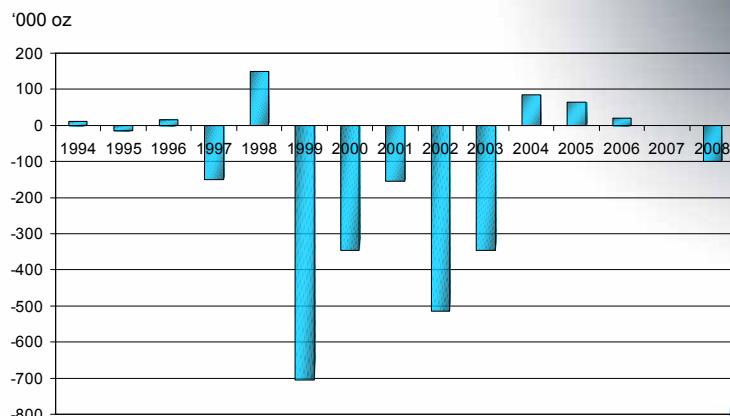
41

Global platinum supply



42

Platinum supply/demand balance



43

Outlook for palladium demand

Automotive

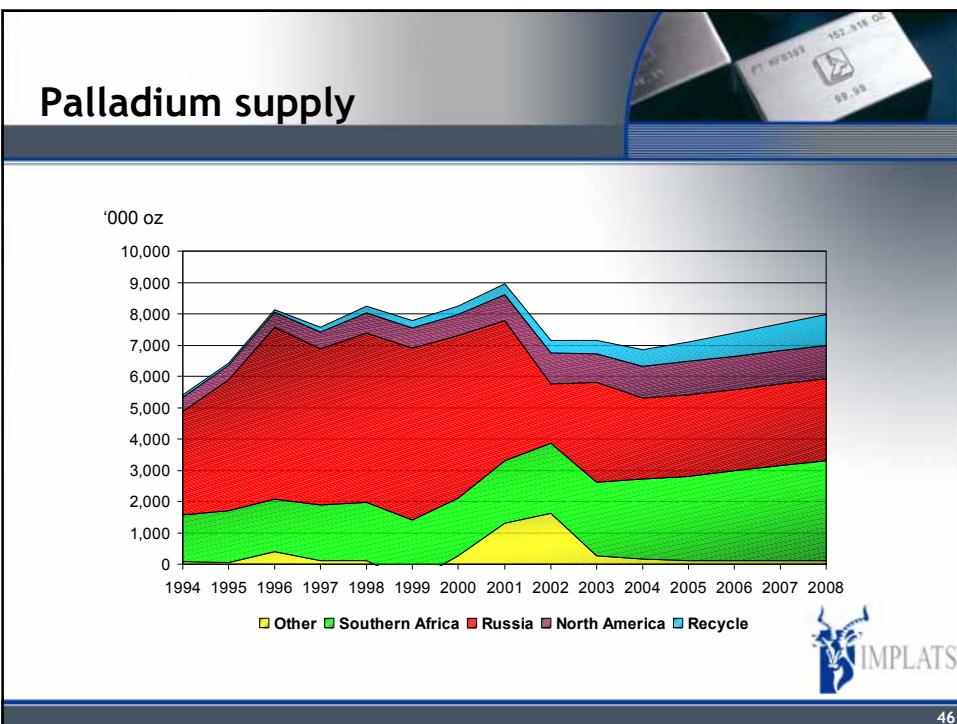
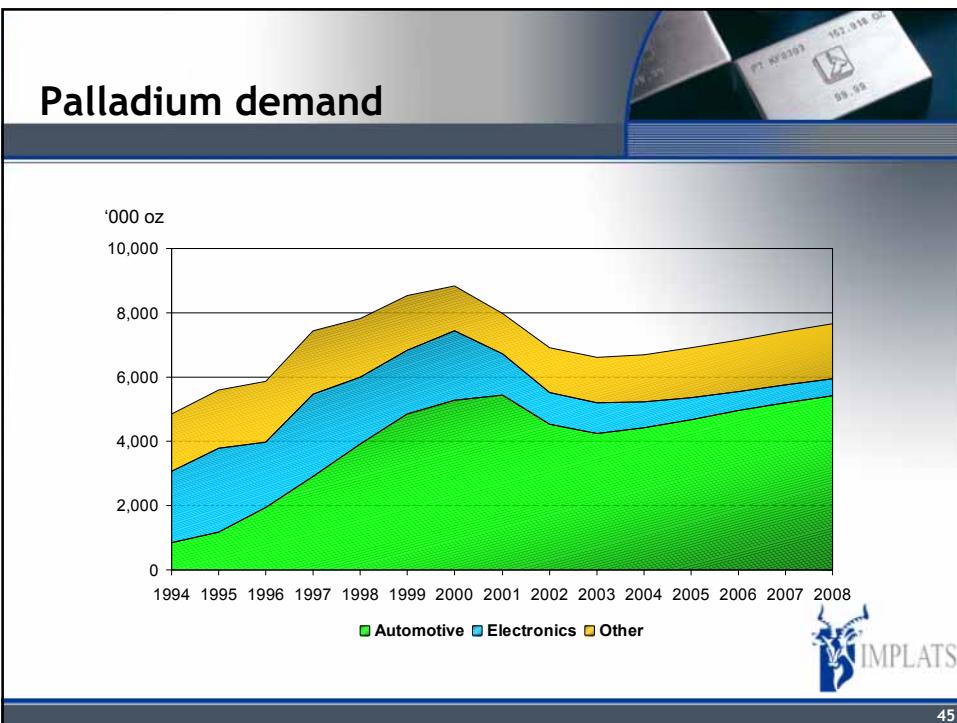
- Legislation
- Substitution of platinum

Electronics

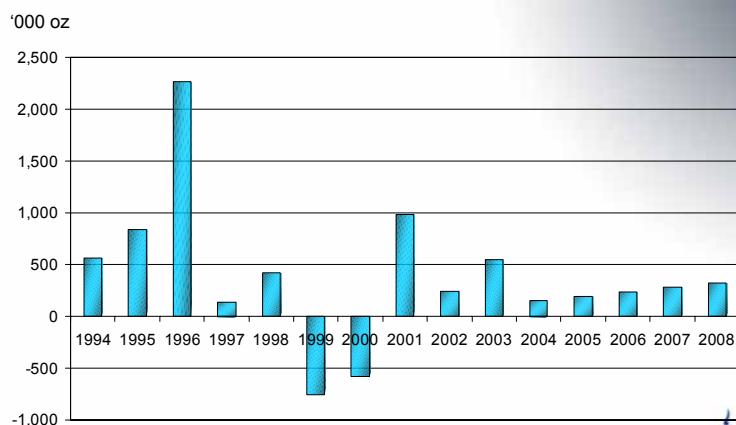
- Ongoing miniaturisation and thrifting



44



Palladium supply/demand balance



47

Conclusion

Platinum

- Fundamentals remain firm
- Growing demand met by Southern African expansions

Palladium

- Increasing demand in automotive industry and new applications provide positive longer term outlook



48



Disclaimer

This presentation may contain certain forward-looking statements concerning Implats' operations, economic performance and financial condition, and plans and expectations. These statements, including without limitation, those concerning the economic outlook for the platinum group metals (PGM) industry and market, expectations of PGM prices, production, the commencement and completion of certain exploration and production projects, may contain forward-looking views. Such views involve both known and unknown risks, assumptions, uncertainties and other important factors that could materially influence the actual performance of the company. No assurance can be given that these will prove to be correct and no representation or warranty express or implied is given as to the accuracy or completeness of such views or as to any of the other information on this website. Implats' future results may differ materially from past or current results, and actual results may differ materially from those projected in the forward-looking statements.

