# ANGLO AMERICAN PLATINUM CORPORATION LIMITED

#### RUSTENBURG

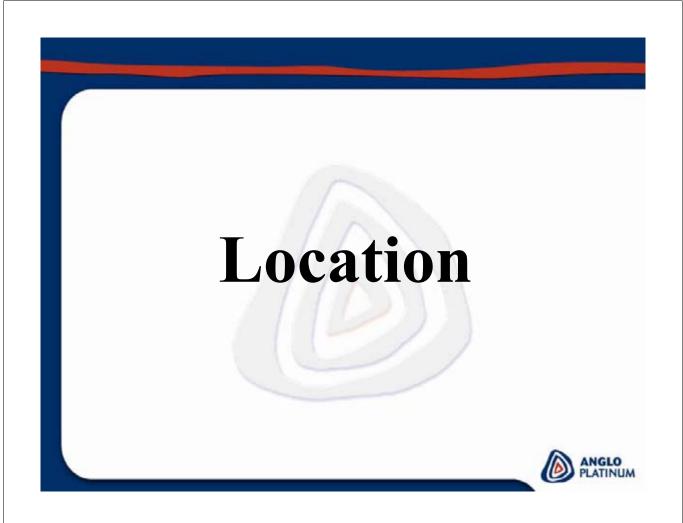
#### ANALYST AND FUND MANAGER VISIT 18 November 2004

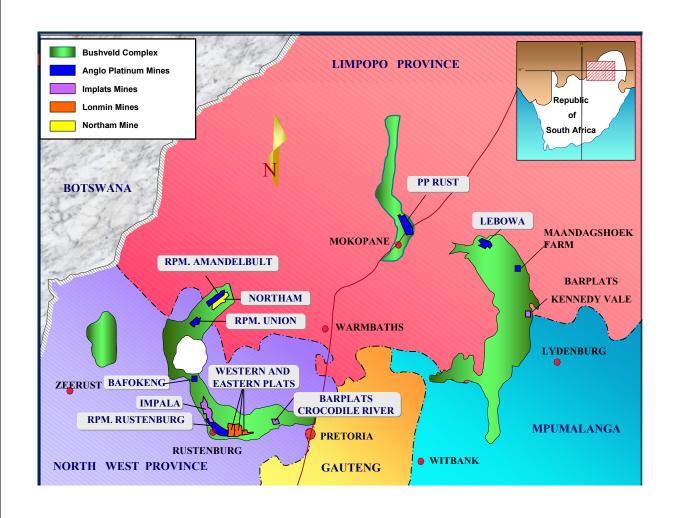


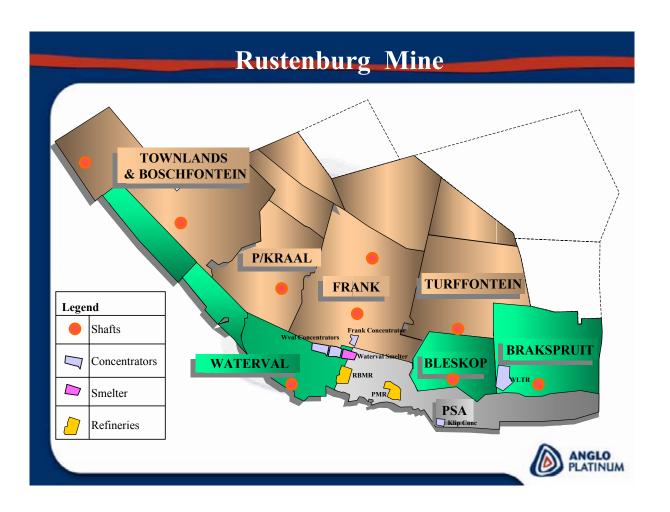
#### Agenda

- Location
- Safety
- Strategy
- Geology
- Resources and reserves
- Shaft and project status
- Production
- Working cost and capital expenditure

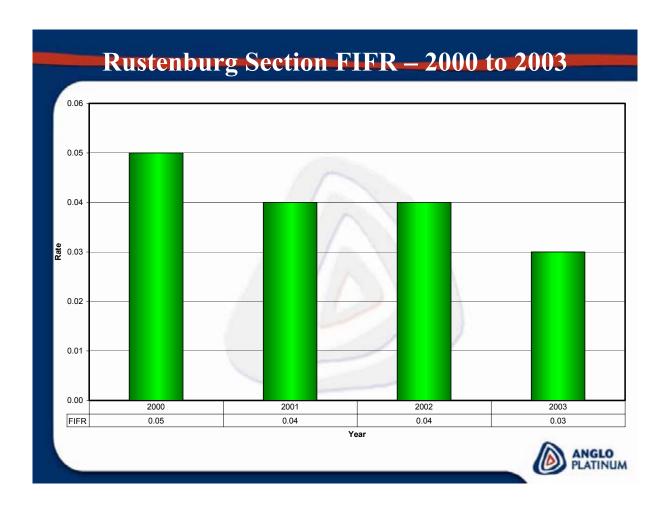


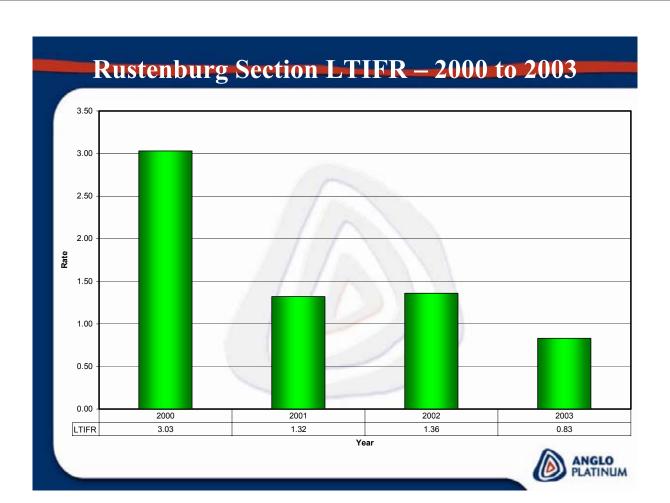












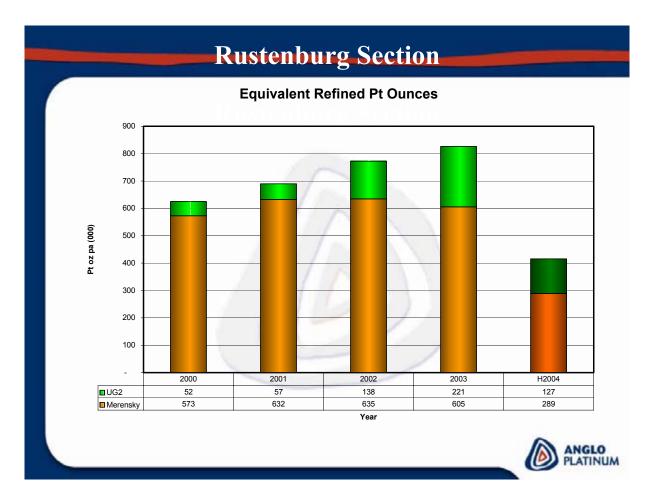
#### **SHE Strategy**

- Total integration of Safety, Health (Occupational Hygiene and Medicine) in terms of
  - Systems
  - People
  - Effort
- Continue with the OTTO campaign
- Behaviour based safety campaign
- Total integrated Risk approach in terms of
  - Risk profile management
  - Enterprise wide risk management



## Mining Strategy





#### **Rustenburg Strategy**

- Rustenburg is One Mine
- Merensky is primary ore body
- UG2 is secondary ore body



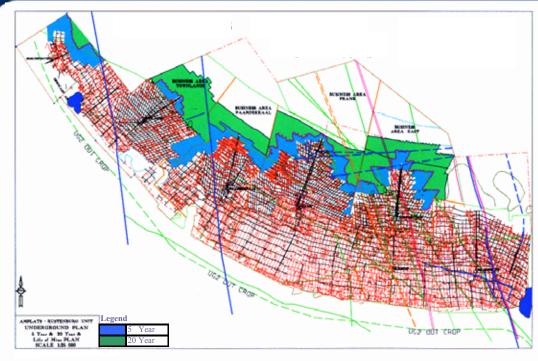
#### **Mining Strategy**

- Maximise value from ore-body
  - NPV, ROCE, cash margin and earnings growth
- Short-term Maximise Merensky
  - Maximise value adding UG2
- Long-term Access deeper Merensky
  - Balanced transition to UG2
- Appropriate mining method per area and ore type
- Maintain flexibility to adjust to macroeconomics

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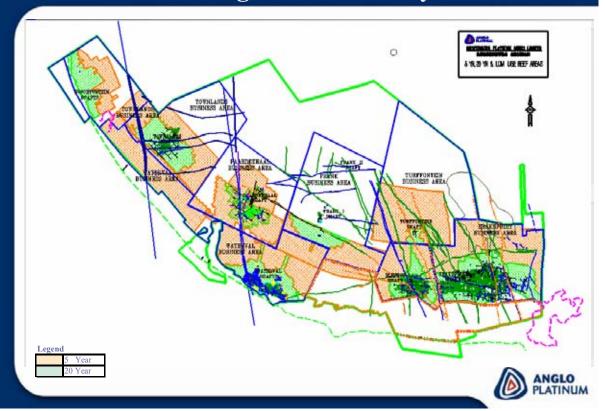


#### Rustenburg – Merensky 5 & 20 yr Plan





#### Rustenburg – UG2 5 & 20 yr Plan



#### **Management Structure**

Organization structure supports strategy

- Fewer management levels
- Split mining and processing
- One Mine Manager for Lower Mine predominantly Merensky
- One Mine Manager for Upper Mine predominantly UG2



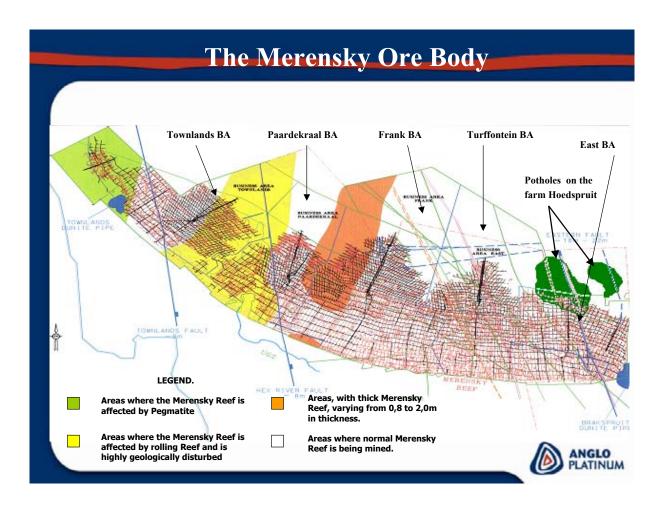
# Geology

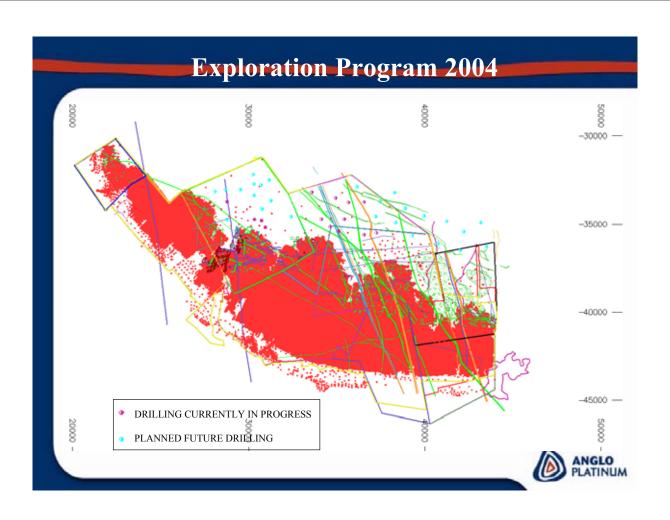


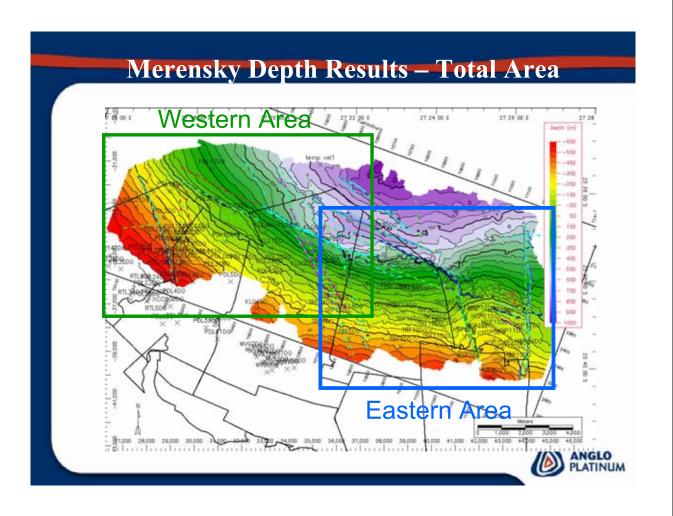
#### **Ore Body Knowledge**

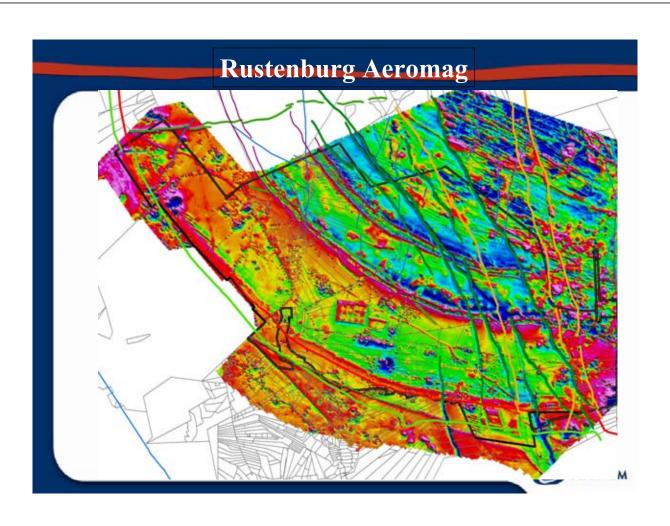
- Increased knowledge of the ore body from an extensive exploration program
- Merensky and UG2 geozones have been clearly delineated











#### **Exploration Program**

- 3D Seismics provided valuable orebody information.
  - F1 fault provides natural boundary between intermediate and deeper area
  - Large potholes identified
  - Graben feature identified
- Extensive exploration drilling is in progress to validate the seismic information
- Aeromag interpretation completed and has been integrated into structure model



#### Resources – 31 December 2003

Ore Body	Category	Tonnage (Mt)	4E Grade (g/t)
Merensky	Measured	-	-
	Indicated	-	-
	Inferred	111.6	6.28
	Total	111.6	6.28

Ore Body	Category	Tonnage (Mt)	4E Grade (g/t)
UG2	Measured	13.1	5.92
	Indicated	7.2	5.73
	Inferred	285.1	4.69
	Total	305.4	4.76

Ore Body	Category	Tonnage (Mt)	4E Grade (g/t)
Tailings	Indicated	140.6	1.03



#### Reserves – 31 December 2003

Ore Body	Category	Tonnage (Mt)	4E Grade (g/t)
Merensky	Proved	19.3	5.56
	Probable	14.3	5.55
	Total	33.6	5.56

Ore Body	Category	Tonnage (Mt)	4E Grade (g/t)
UG2	Proved	26.9	4.22
	Probable	115.7	4.10
	Total	142.6	4.12



#### Prill Splits

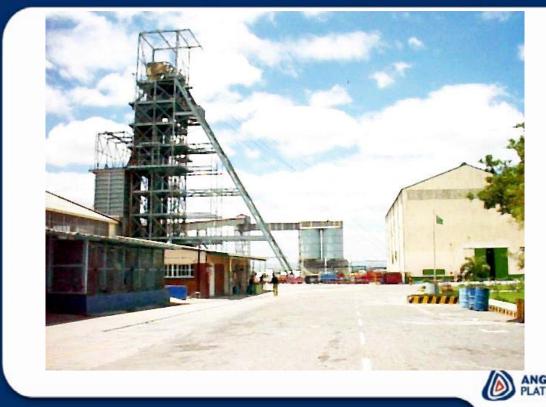
	<b>Prill Splits</b>	Merensky	UG2
4E	Platinum	63.00%	53.67%
4E	Palladium	28.05%	32.83%
4E	Rhodium	4.10%	9.28%
4E	Gold	4.91%	0.74%

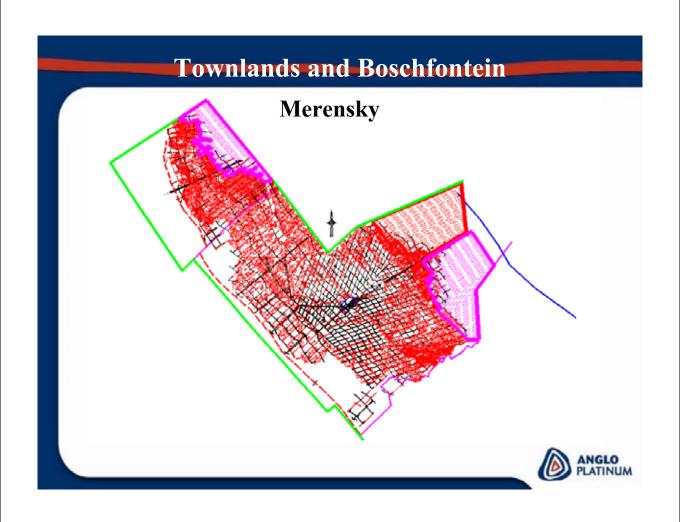


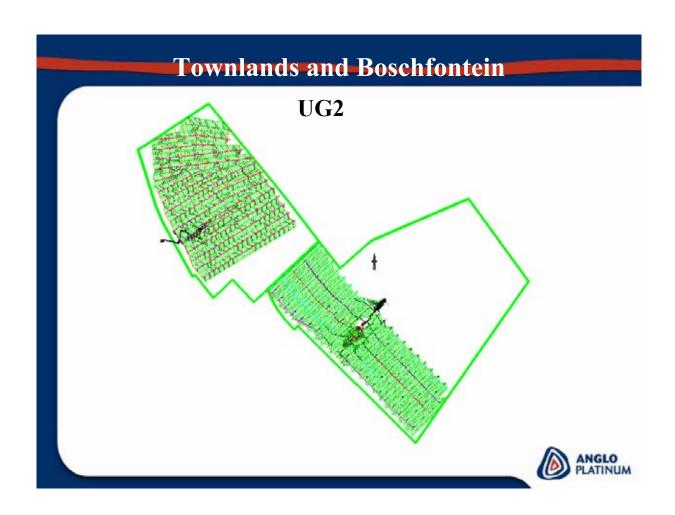
# Shaft and Project Status



#### Townlands and Boschfontein







#### Townlands and Boschfontein

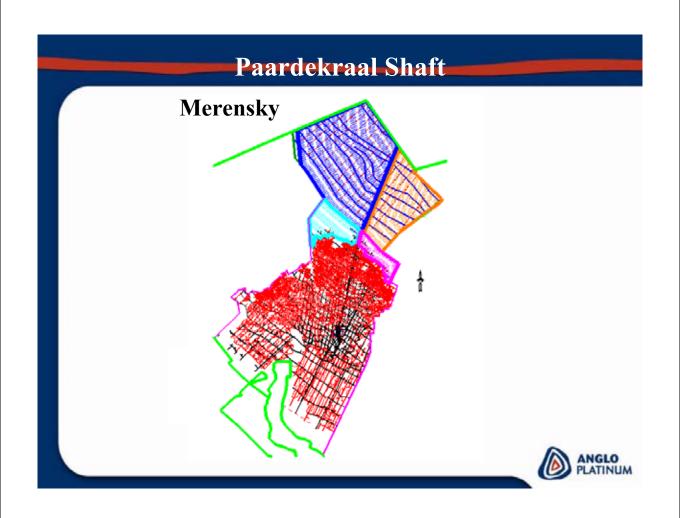
- A successful business model balanced Merensky and UG2 mining
- Applied lessons learnt from UG2
- Smooth change over from Merensky to UG2 in medium to long term
- Life of Shaft Merensky 10 years
- Life of Shaft UG2 42 years

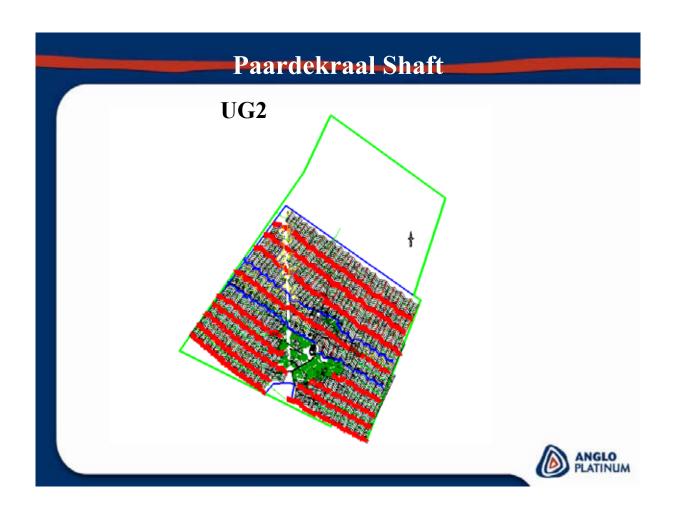


#### **Paardekraal Shaft**





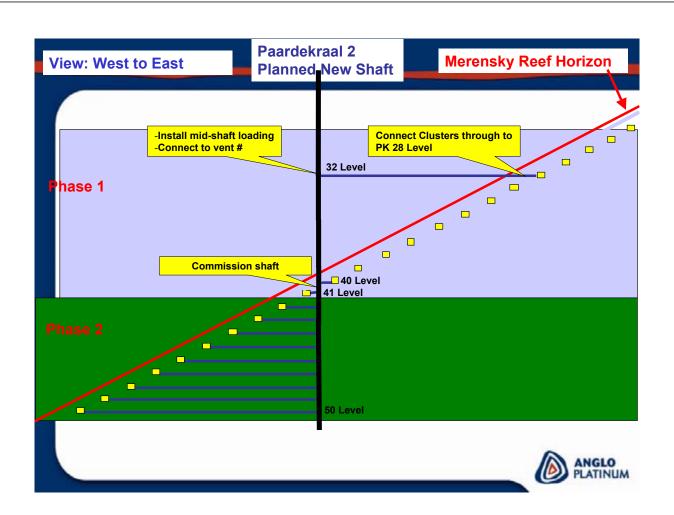


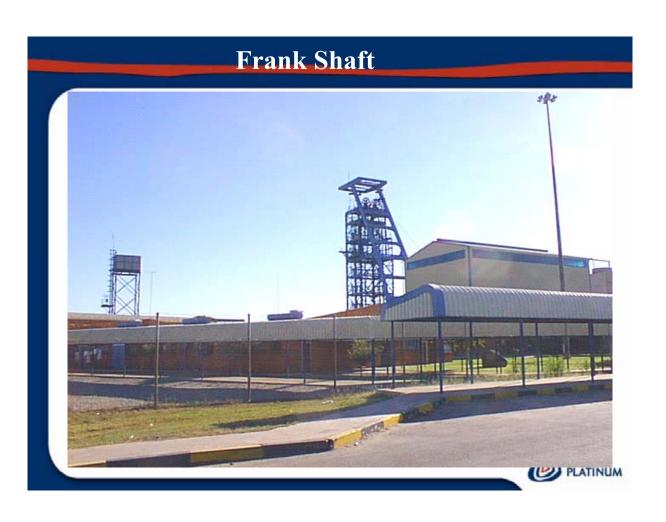


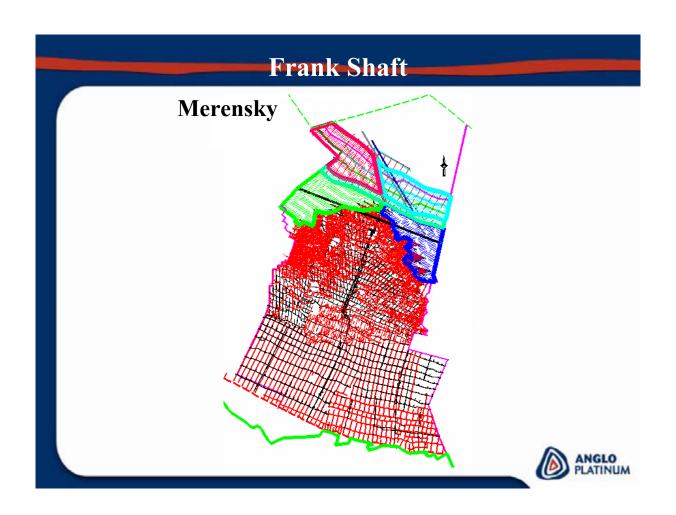
#### Paardekraal Shaft

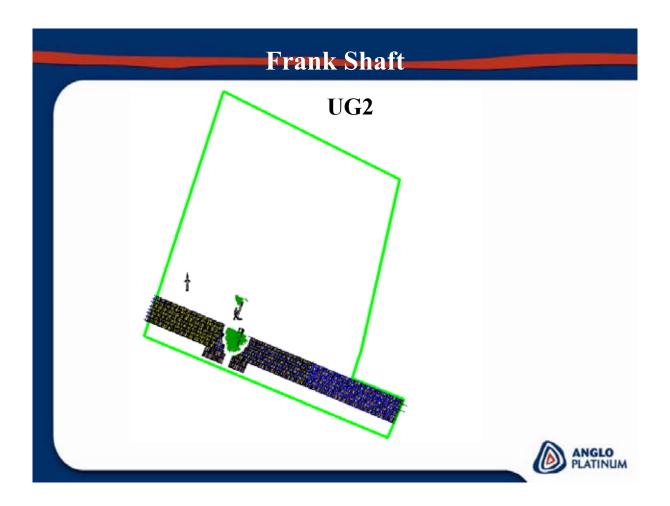
- Paardekraal extension to 28 level under way
- Planning in place for Paardekraal 2 Shaft
- Below 28 level Paardekraal strike extends to Townlands western boundary
- Paardekraal to increase Merensky and to supplement with UG2 to fill shaft at 200 ktpm







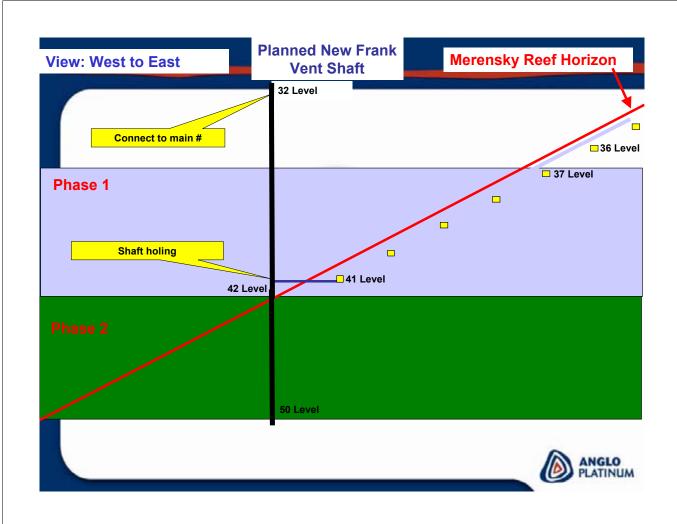




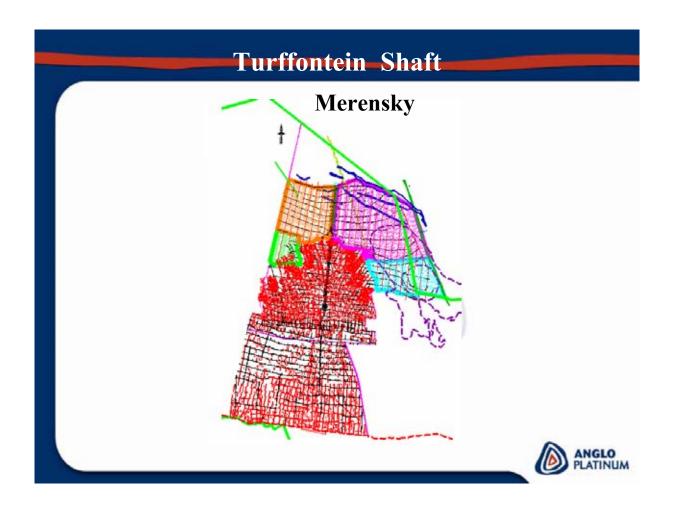
#### Frank Shaft

- Extend Merensky mining to 37 level
- Merensky mining layout changed from Down dip to Breast
- Merensky Replacement Shaft pre-feasibility complete
- UG2 mining layout changed from Bord and Pillar to Hybrid
- Reduced UG2 production to 40 ktpm because of increase in Merensky production





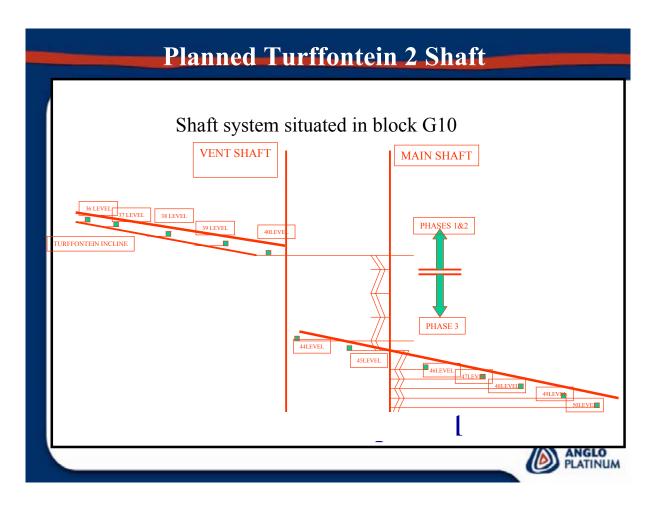


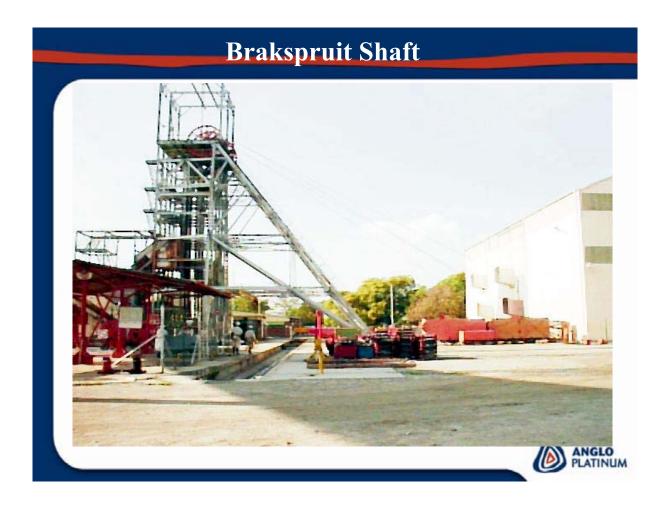


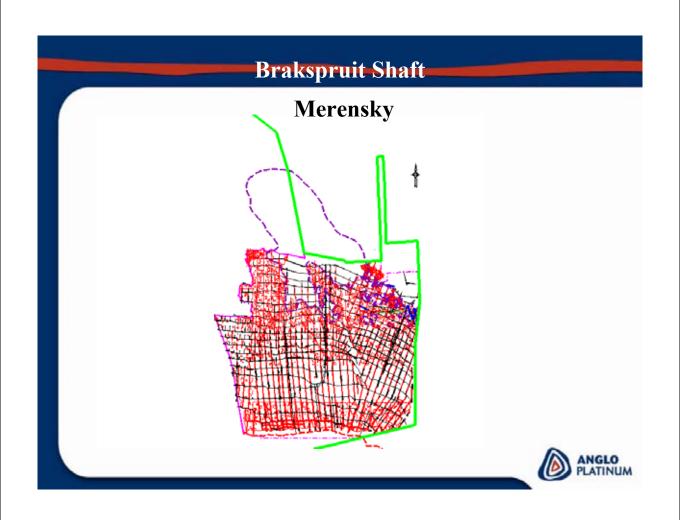
#### **Turffontein Shaft**

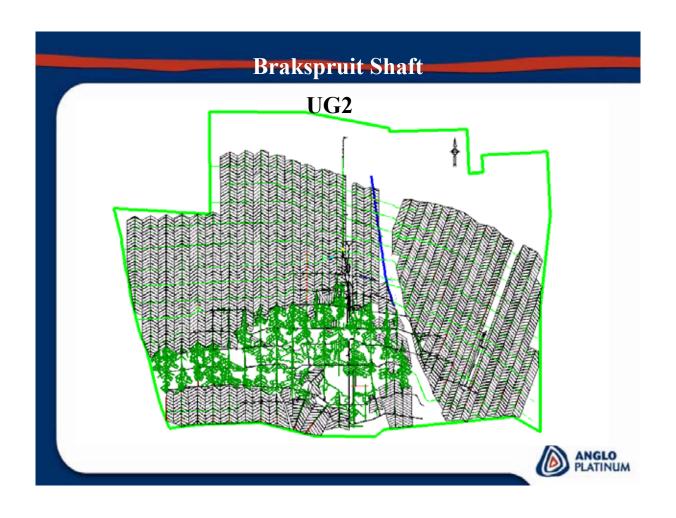
- Has highest Merensky in situ grade at Rustenburg
- Planned reduction in half levels to optimise production and to reduce cost
- Turffontein 2 Shaft planned as a medium to long term project









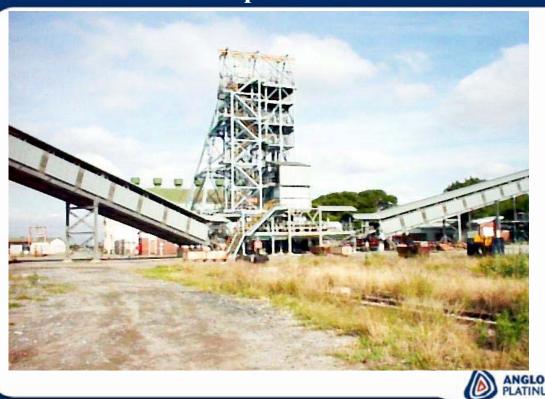


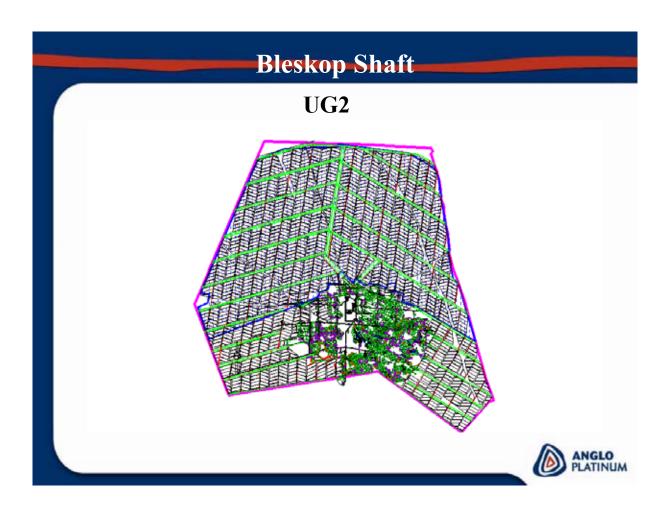
#### **Brakspruit Shaft**

- Mine more Merensky in short term
- Life of Merensky is less than 2 years
- Merensky from pothole area
- Merensky and UG2 is mixed, no separate storage facility
- UG2 reserves for medium to long term
- Push Merensky to gain time to develop concentrated UG2



#### **Bleskop Shaft**

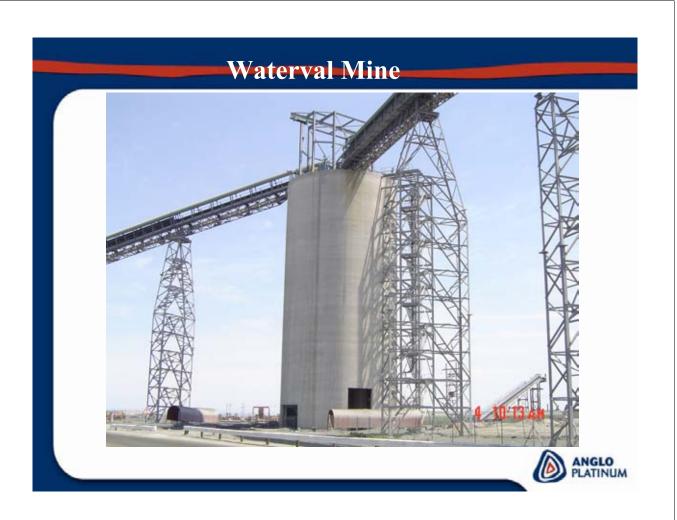


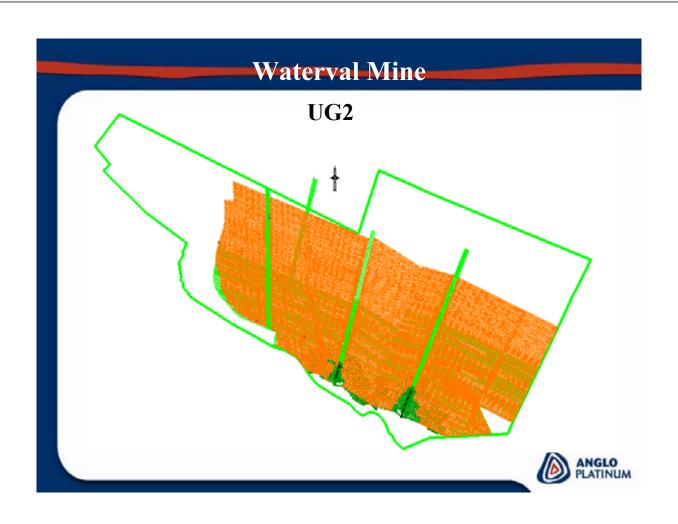


#### **Bleskop Shaft**

- Change from mechanized bord and pillar to hybrid mining layout
- Conversion to new layout almost complete
- Change over to conventional intended to reduce unit cost and improve head grade



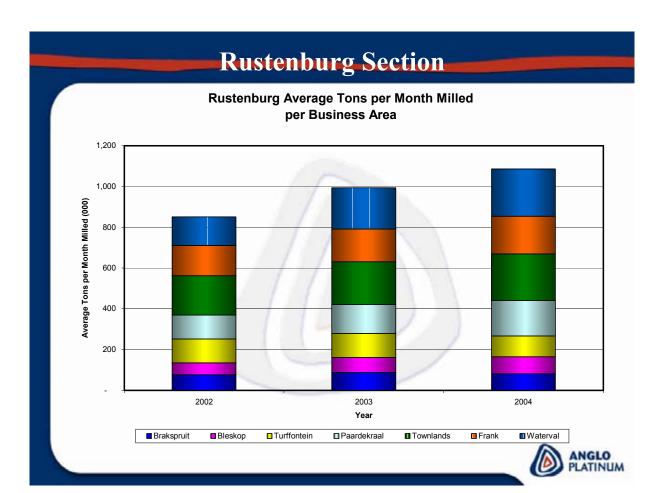




#### Waterval Mine

- Need to optimize Decline spacing
- Board and Pillar mining layout with a T-cut implemented
- XLP project in progress showing positive results to further reduce dilution





#### **FEBRUARY 2004**

#### **Rustenburg UG2 Phase 1**

Capex (Rm):

Announced (2003 money) 1,500 Spent to end 2003 (actual) 1,325 Remaining (2004 money) 25

Forecast production profile:

Tons milled per month 400,000
Pt oz per annum 360,000
Pd oz per annum 210,000

Steady state in 2007

#### Comments:

- Dilution of head grade due to safety standards
- Ore sorting plant being commissioned



#### **FEBRUARY 2004**

#### Rustenburg UG2 Phase 2

Capex (R m):

Announced (2003 money) 3 700
Spent to end 2003 (actual) 775
Remaining (2004 money) 3 150

Forecast production profile:

Tons milled per month 400 000
Ptoz per annum 306 000
Pd oz per annum 167 000

Steady state in 2009

#### Comments:

- Need for second concentrator being investigated
- Included in overall review of Rustenburg production
- Boschfontein East development slowed down



#### Project Background and Status

• UG2 Phase 1

• Announced in September 2000

• Brakspruit, Bleskop, Paardekraal 200 ktpm

• Waterval mine 200 ktpm

• 395 000 Pt oz pa revised to 360 000 Pt oz pa

Currently UG2 Brakspruit 36 ktpm

• Bleskop 78 ktpm

• Paardekraal 83 ktpm

• Waterval 210 ktpm

Currently UG2 300 000 Pt oz pa



#### **Project Background and Status**

#### UG2 Phase 2

• Announced in December 2002

• Frank and Townlands 150 ktpm

• Boschfontein East & West 245 ktpm

• 306 000 Pt oz pa by 2007 (Under review)

• Currently UG2 Frank 38 ktpm

• Townlands/Boschfontein 68 ktpm

Currently UG2 100 000 Pt oz pa



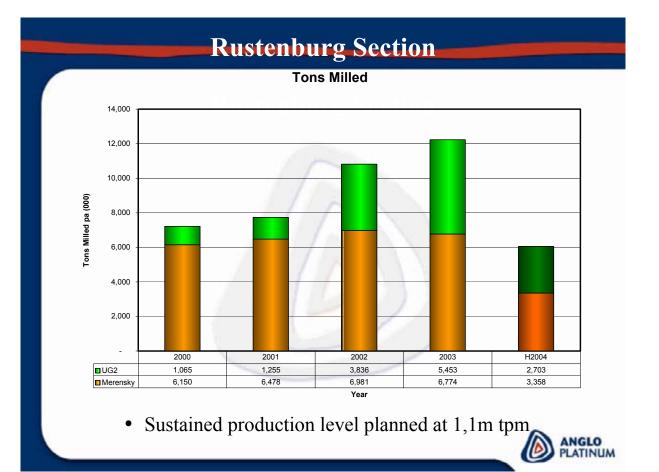
#### **Major Projects**

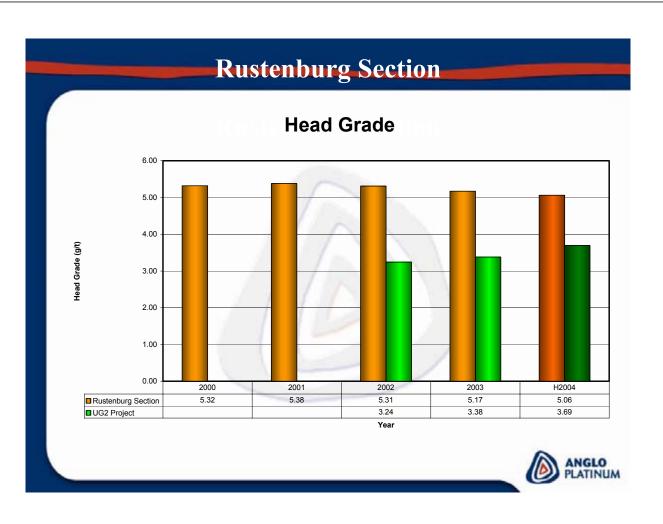
- Current strategy alters nature of UG2 phase 1 and Phase 2 projects as announced
- Capital focus on concentrating flexibility and infrastructure utilisation
- Some UG2 volume growth
- Decisions on capex and volume composition after 2006 not final



### **PRODUCTION**





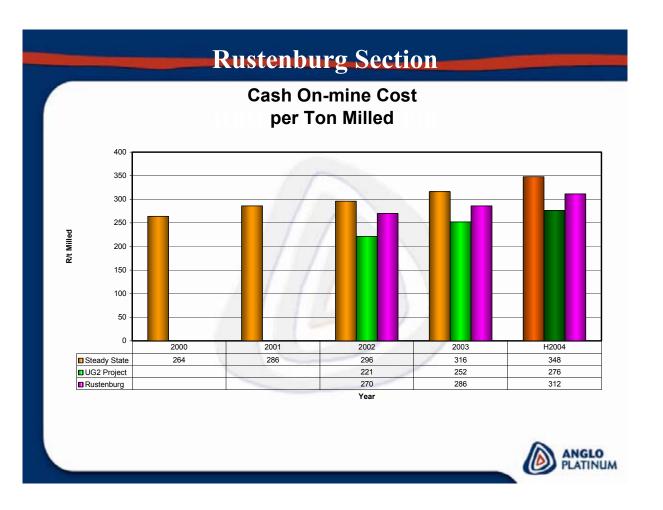


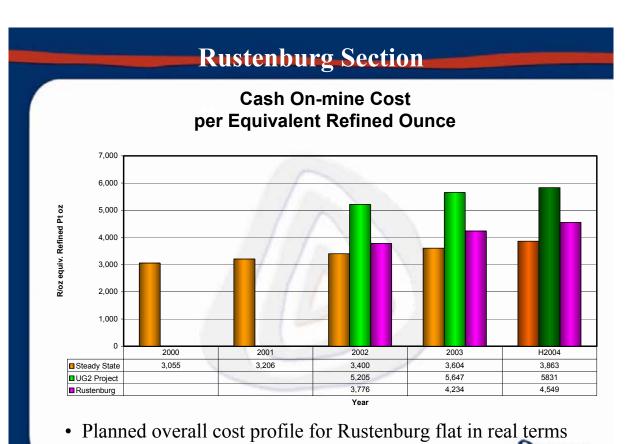
#### **Rustenburg Section Equivalent Refined Pt Ounces** H2004 **□**UG2 ■ Merensky

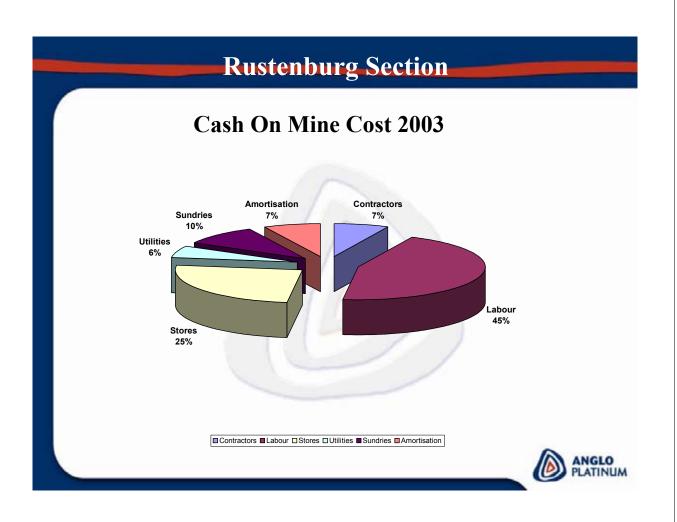
• Sustained production level planned at 900-1 000 koz pa from 2006

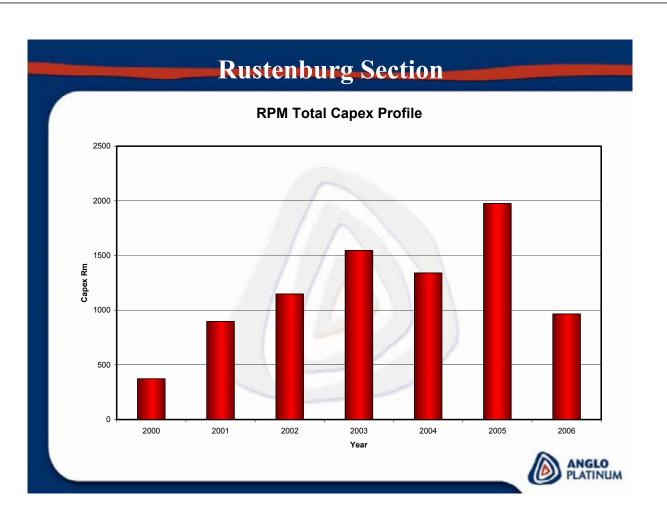
# **Operating Costs**











#### Capex

• Ongoing capex R800m - R1bn pa

• 2004 - 2006

Concentrating upgrade R1050m

Capacity

Cost efficiency

- Recovery

- Flexibility

- Boschfontein UG2 R600m

Turffontein Merensky
 R400m

Note: Concentrating upgrade removes need for additional 400 ktpm UG2 concentrator.

#### **Key Business Issues**

- Improved Safety performance
- Unit cost reduction
- Maximize value of UG2 & Merensky production



# Questions?