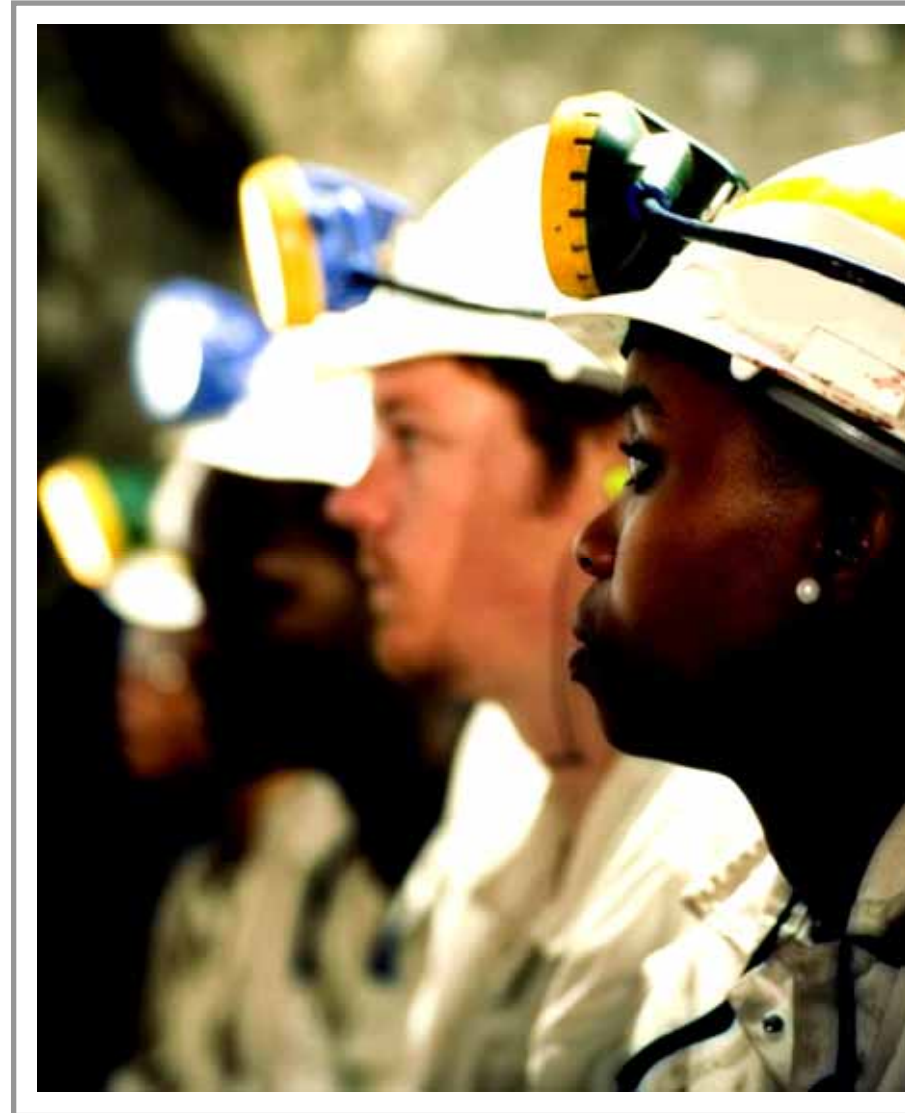


# MMMA PRESIDENTIAL VISIT TO TANZANIA

PRESENTED BY: Bezzly Maiwashe

24 October 2008



*Empowering our people, growing our production*

# CONTENTS



- Motivation to take part
- Background to Tanzania
- Geita gold Mine (AngloGold-Ashanti)
- Bulyanhulu gold Mine (Barrick)
- Bugwazi gold Mine (Barrick)
- Lessons Learned



# MOTIVATION TO TAKE PART



- The opportunity to learn more and gain experience and knowledge
- Enhance my leadership skills by learning from other peers outside South Africa
- I enjoy travelling, so I will work hard and play hard at the same time
- Opportunity for me to broaden my horizons
- Observe so that I could bring solutions to the problems we encounter presently
- This will in the process be empowering me as a young, upcoming metallurgist.







# BACKGROUND TO TANZANIA



- Official Languages – Swahili/ English
- Currency – T shillings ( 1 Rand = 129 Tsh)
- Religion
  - Christianity (40%)
  - Islamic (35%)
  - Others (25%)
- Population – 39.4M
- Eastern Africa and occupies 945,1 thousand sq.km
- 2460 km from Johannesburg to Dar es Salam



# BACKGROUND TO TANZANIA

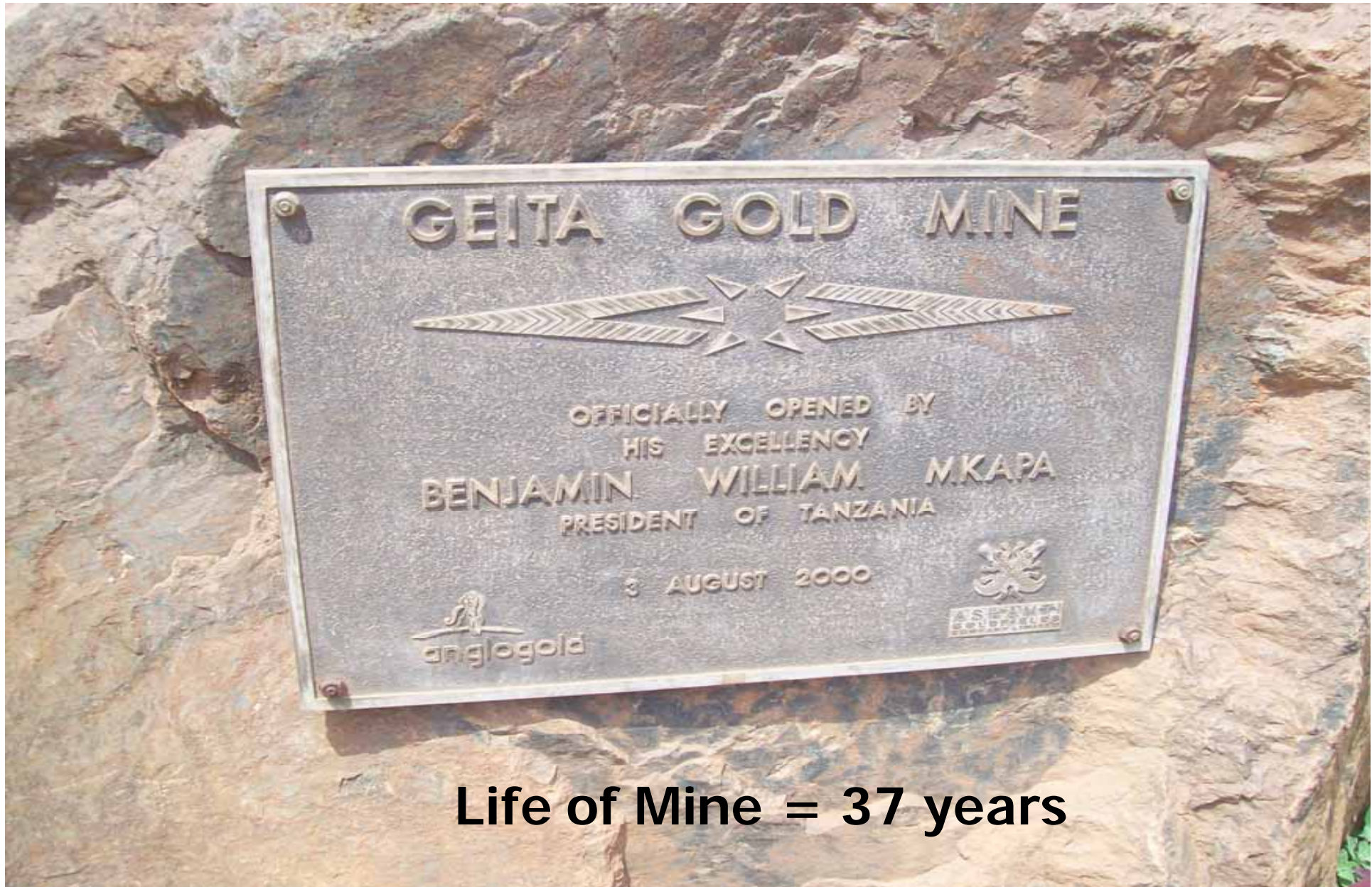


- Economy
  - GDP: US\$ 12bn
    - Agriculture
    - Hunting
    - Forestry
    - Mining – 2.7%
- New mining policy 1997
- Minerals they mine
  - Gold, Ferrous Metals, Diamonds, Tin-tungsten, Coal, Gemstones





# GEITA GOLD MINE (ANGLOGOLD-ASHANTI)



**Life of Mine = 37 years**

# GEITA GOLD MINE (ANGLOGOLD-ASHANTI)



***SAFETY, SAFETY,  
SAFETY***



# GEITA GOLD MINE (ANGLOGOLD-ASHANTI)



- Total Geita Resources
  - 111.25 M Tonnes
  - 4g/t Head Grade
  - 20:1 strip ratio
- Process
  - Non-Refractory, Gravity, CIL
  - Throughput: 600 t/hr
  - Grind: 80% -75microns
  - Recovery: 83 to 93%
  - Produced 14.61 Moz since Y2000
- Reagents
  - Cyanide Consumption: 0.54kg/t
  - Lime Consumption: 1.5kg/t (10.5 pH)



# GEITA GOLD MINE (ANGLOGOLD-ASHANTI)



- Challenges
  - Pit Stability, Ore Variability
  - Water supply, Equipment Supply
  - Power Generation– 3 M litre diesel/month



# GEITA GOLD MINE (ANGLOGOLD-ASHANTI)



- Community involvement
  - Geita town infrastructure
  - Construction of a girl's boarding school
  - Expansion of the Orphanage



# BULYANHULU GOLD MINE (BARRICK)



**LIFE OF MINE: 25 Years**

# BULYANHULU GOLD MINE (BARRICK)



- Barrick Core Values
  - Behave Like an Owner
  - Act with a Sense of Urgency
  - Be a Team Player
  - Continually Improve
  - Deliver Results



# BULYANHULU GOLD MINE (BARRICK)



- Production
  - Gravity, flotation, CIL
  - Throughput: 120t/hr
  - Tails Grade: 1.6g/t (flotation), 0.7g/t (CIL)
  - Flotation Product: 15% Cu, 230g/t Au
  - Gold: 20,000 oz/month
  - Cyanide Consumption: 4.5g/t



# BUGWAZI GOLD MINE (BARRICK)



- Rain water Harvesting into a covered 2 Million m<sup>3</sup> dam
- Open Cast Mining
- Head Grade: 2.6g/t
- Process: Gravity, CIL
- Total Costs: \$400 Million

*Still Under Construction*



*Empowering our people, growing our production*

# BUGWAZI GOLD MINE (BARRICK)



- Community
  - Bugwazi town Infrastructure
  - Currently building 200 Houses
  - Building of 2 Schools
  - Accommodation for employees
  - Creating Entertainment facilities



# LESSONS LEARNED



- Differences in terms of the Process
  - CIL and Gravity Concentration
  - Paste thickening at Bulyanhulu
  - Lined Tailings Dams
- Challenges
  - Remote locations
  - Water
  - Power
  - Artisanal Mining



# LESSONS LEARNED



- Differences in terms of Culture
- Influence that South Africa has on Tanzania
  - Experience & Technology
  - Sports, Music, Shops

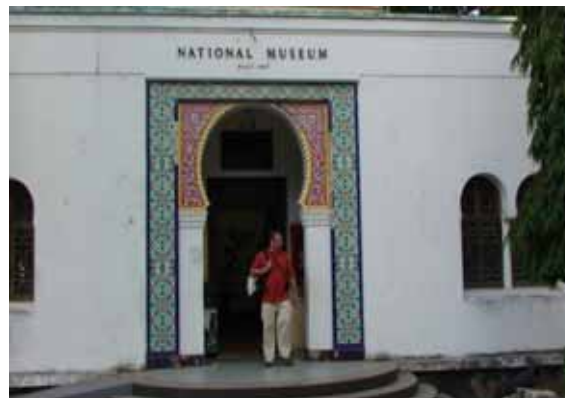


*Empowering our people, growing our production*

# LESSONS LEARNED



- Tourist Attractions
  - Zanzibar
  - Mount Kilimanjaro
  - National Museum
  - Hotels



# LESSONS LEARNED

---

- Alternate Building and Scaffolding systems
- Seasons: rains in March-May and October-December





***ASANTE SANA (THANK YOU VERY MUCH)***

