



BHP BILLITON CASE STUDY: MALARIA

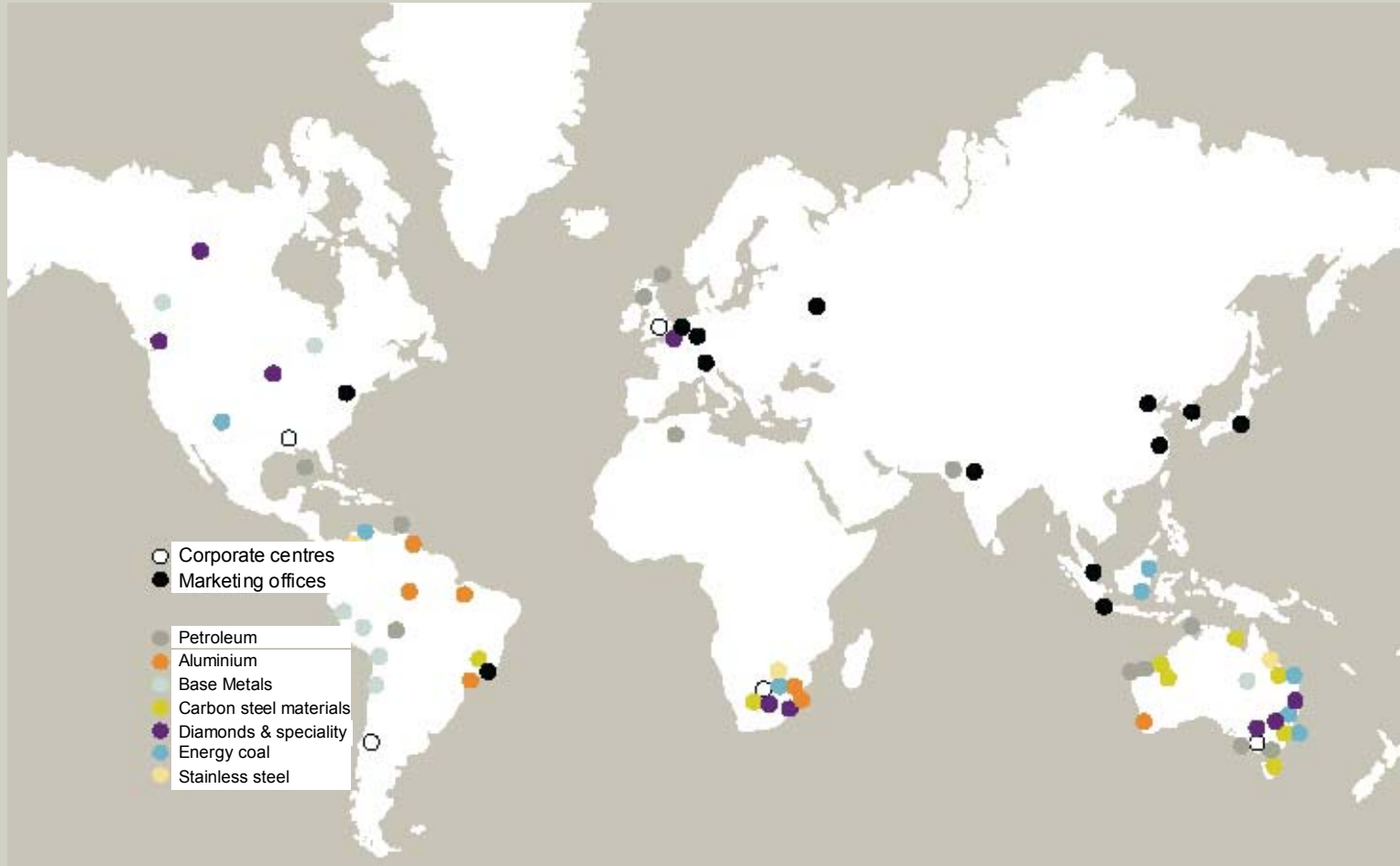
The BHP Billiton Approach

André van der Bergh
Regional Advisor, Southern Africa
Health, Safety, Environment and Communities

Slide 1



BHP Billiton – A Global Footprint



BHP Billiton

World's Largest Diversified Resources Company

- Listings on Australian, London and Johannesburg stock exchanges
- American Depository Receipts listing on the New York stock exchange
- Market capitalisation of about US\$60 billion
- Turnover in 2003 of US\$17,5 billion
- Pipeline of projects at US\$8 billion
- 35 000 employees working in more than 100 sites across 20 countries

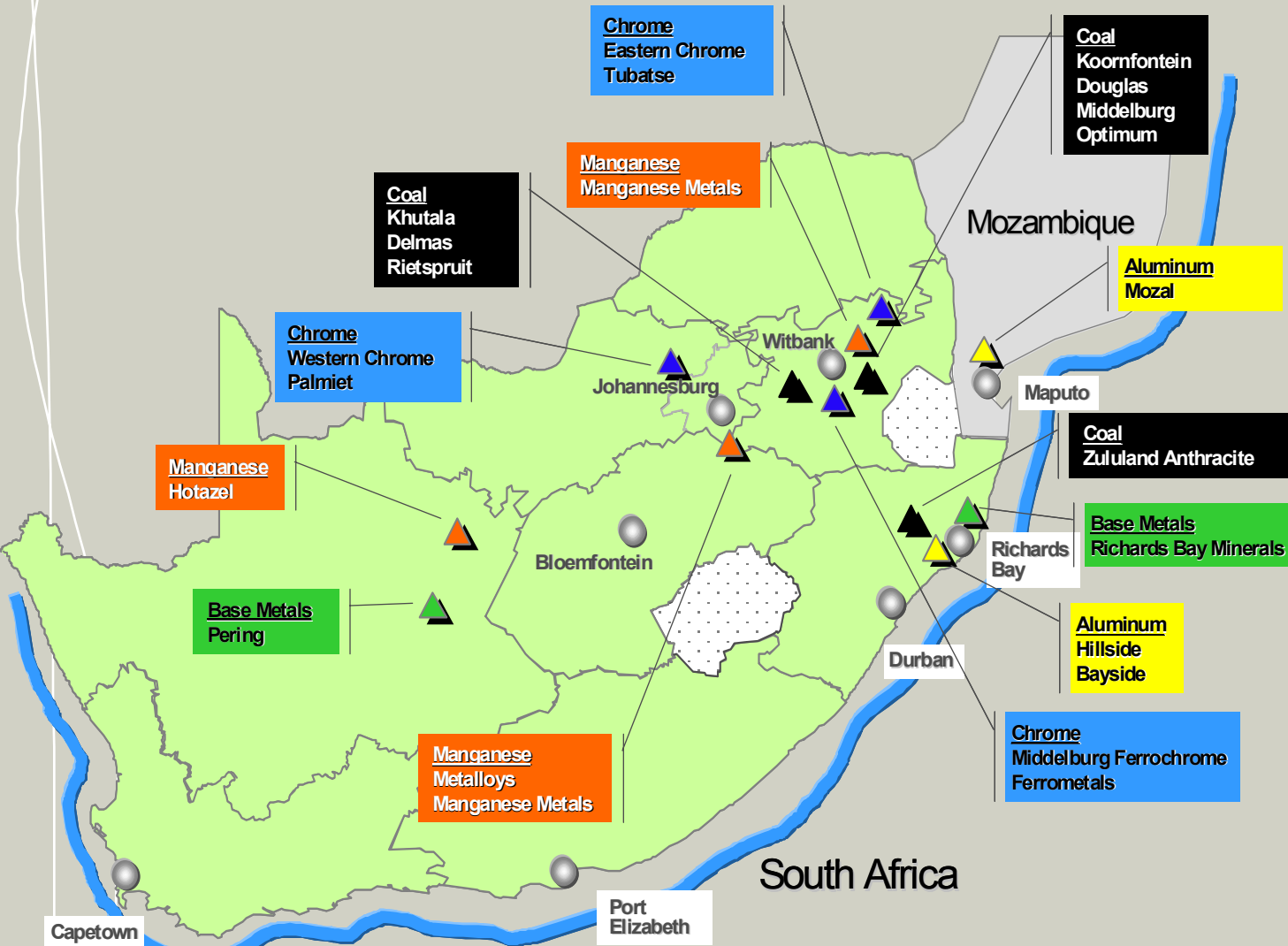
BHP Billiton Vision

We aspire to be not only the premier supplier of natural resources and related products, but one of the world's best companies – creating value and delivering superior, sustainable returns to our shareholders

Values

- **Safety & environment** – An overriding commitment to health, safety, environment responsibility and community (“Zero Harm”)
- **Integrity** – Doing what we say we will do.
- **High performance** – The excitement and fulfillment of achieving superior business results and stretching our capabilities
- **Win-win Relationships** – Having relationships which focus on the creation of value for all parties.
- **The courage to lead change** – Accepting the responsibility to inspire and deliver positive change in the face of adversity.
- **Respect for each other** – The embracing of diversity, enriched by openness, sharing, trust, teamwork and involvement.

BHP Billiton – Southern African Operations



- ±17000 employees in southern Africa
- ±12500 from previously disadvantaged communities

The Mozal Aluminium Smelter

- 506 000 t.p.a. primary aluminium smelter, built over two phases
- Over US\$2 billion capital investment
- Mozambican export earnings climb from US\$220 to over US\$1 billion
- In 2001 Mozal contributed 55% of exports and 20% of imports
- Mozal contributed 4,6% to Mozambique's economic growth of 14,8% in 2001

Why is business interested in managing malaria?

- Main beneficiaries are tourism, business, governments and communities
- Increasing evidence that malaria management is a positive precursor to development
- Boundaries of responsibilities – a partnership approach
- Costs of malaria to business include:
 - Reduced productivity (absenteeism, morale)
 - Medical (evacuations, treatment)
 - Unattractive destination for skilled employees
 - Discourages establishment of small supporting business
 - Replacement recruitment and training

The management of malaria is good for business
and the communities in which it operates

Beluluane Village School: 1999



- No roof, electricity and water
- No classes when raining
- 130 pupils
- Grades 1-5
- Up to 20% daily absenteeism (malaria)



“HOW”

- Site spraying in communities
- Industrial theatre for employees and community
- Chemical debate
- Joint forces with LSDI
 - 73 spray operators trained in 2000
 - 944 spray operators trained in 2003
 - Day one 100 km² was sprayed
 - Today we are spraying approximately 20 000 km²
- Initial funding R5 million from Mozal

Source: MRC

Lubombo Spatial Development Initiative (LSDI)

In July 1999 President Mbeki, President Chissano and King Mswati III signed the General Protocol which established a platform for regional cooperation, development and delivery.

In October 1999 the Lubombo Malaria Protocol and tri-national malaria programme was launched.

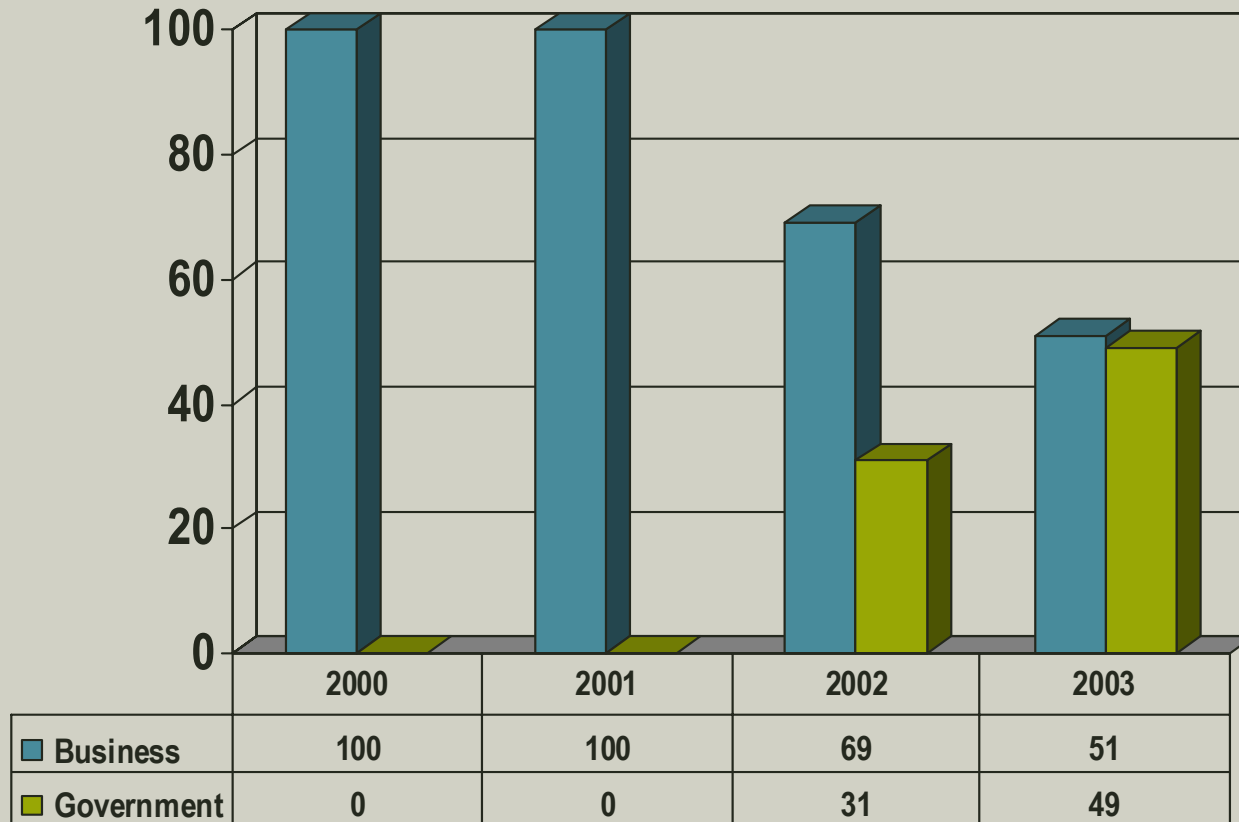


“HOW”

- Site spraying in communities
- Industrial theatre for employees and community
- Chemical debate
- Joint forces with LSDI
 - 73 spray operators trained in 2000
 - 944 spray operators trained in 2003
 - Day one 100 km² was sprayed
 - Today we are spraying approximately 20 000 km²
- Initial funding R5 million from Mozal

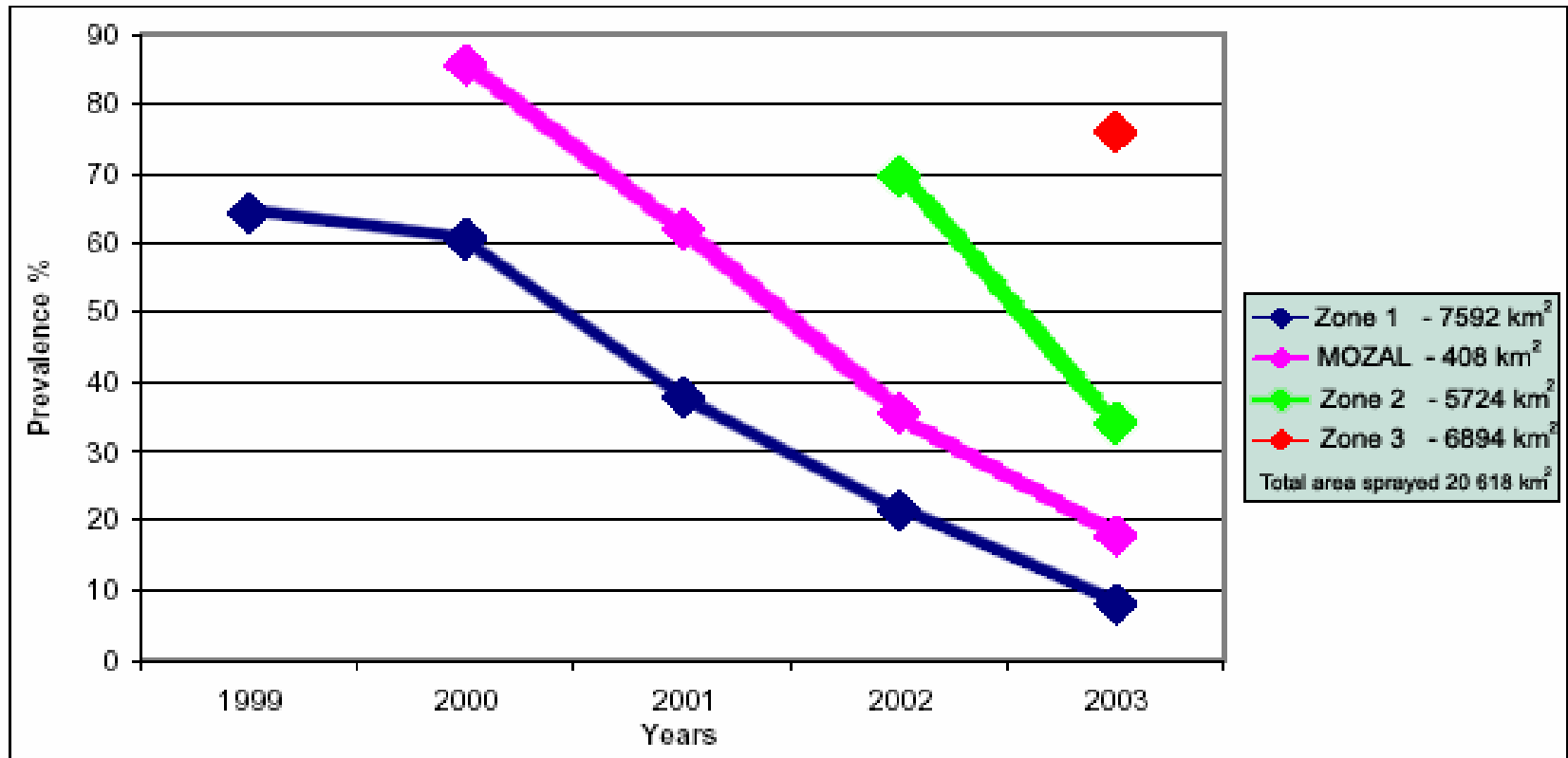
Source: MRC

Partnership Funding for the LSDI



Source: MRC

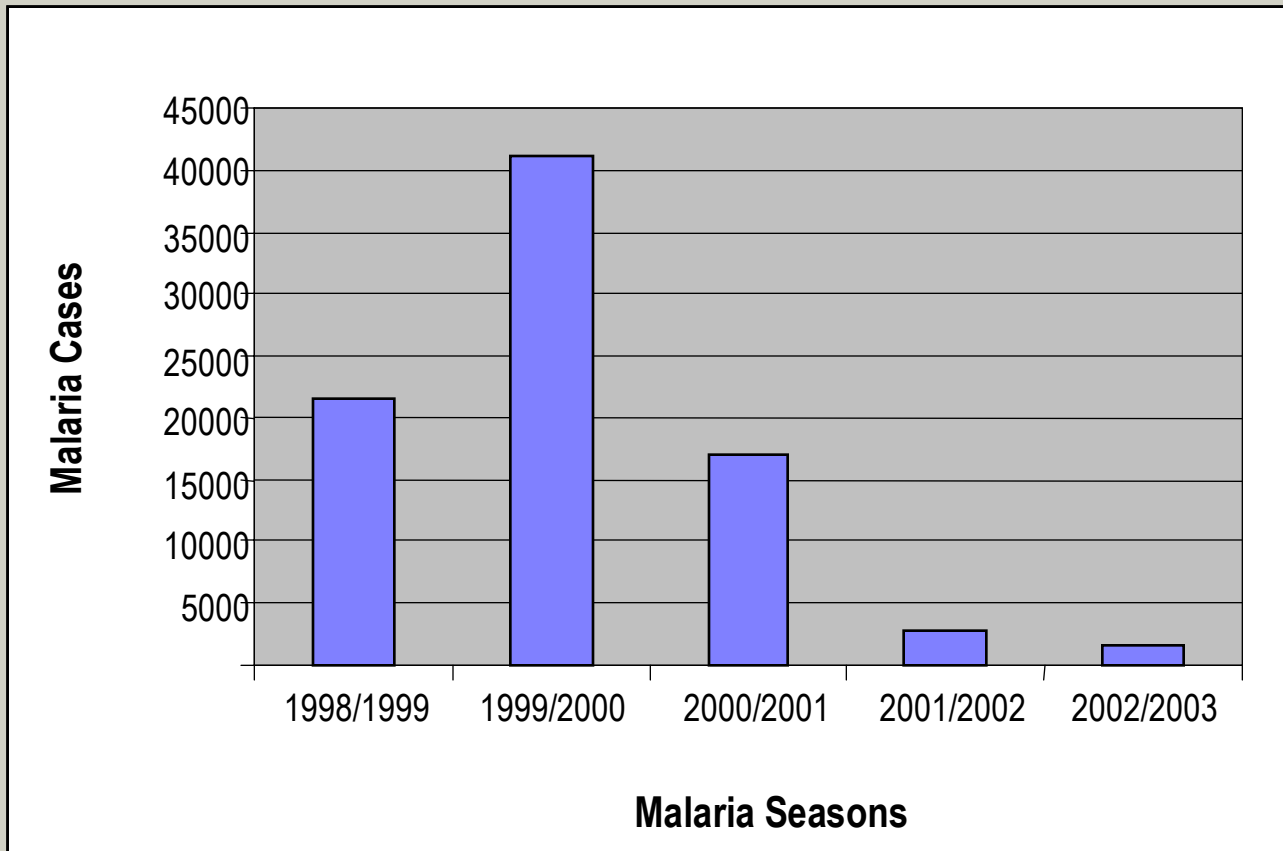
Malaria Prevalence



Malaria parasite prevalence in children aged between 2 & 15 years in the four malaria control zones in Mozambique prior to, and following malaria vector control

Source: MRC

Malaria Cases

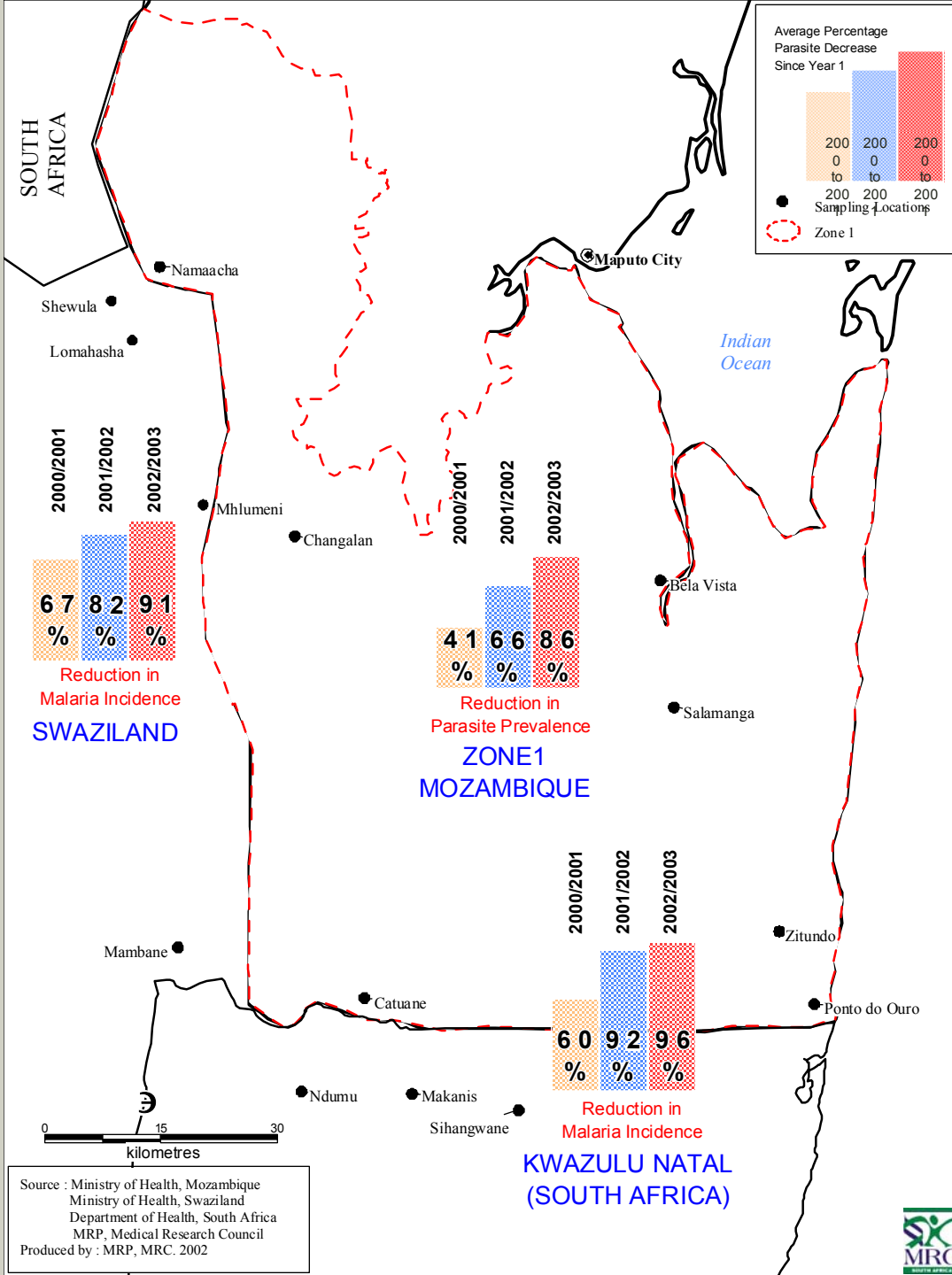


Seasonal KwaZulu-Natal malaria case totals

Source: MRC

Regional Reductions in Malaria

Regional Reductions in malaria compared to baseline indicators in 1999/2000 malaria season



Source : Ministry of Health, Mozambique
 Ministry of Health, Swaziland
 Department of Health, South Africa
 MRP, Medical Research Council
 Produced by : MRP, MRC. 2002



Impact of Vector Control Programme (Estimated)

	Mozal I	Mozal II	% change per million hours
Million hours	26	14.5	
Recorded cases	6000	997	-70%
Medical evacuations	300	40	-77%
Fatalities	13	1	-86%

Beluluane Village School: 1999



- No roof, electricity and water
- No classes when raining
- 130 pupils
- Grades 1-5
- Up to 20% daily absenteeism (malaria)



Beluluane Village School: 2004



- 420 pupils
- Additional grades progressively
- Water/electricity/ablutions
- Sports field
- MCDT built three additional schools
- Malaria parasitaemia reduced by 80%

Ministry of Environmental Affairs and Tourism

Media Statement

04 December 2003

MINISTER MOOSA ANNOUNCES MAJOR GREEN INVESTMENT FOR GREATER ST. LUCIA WETLAND PARK, SA'S FIRST WORLD HERITAGE SITE

“R432 million investment to go towards the improvement of the lives of local communities”

“The Greater St Lucia Wetland Park, South Africa’s first World Heritage Site, is set to become an international model of the way in which the protection of wilderness can contribute to the alleviation of poverty and benefit social groups way beyond their boundaries –,” added Minister Moosa.

Accommodation Concessions

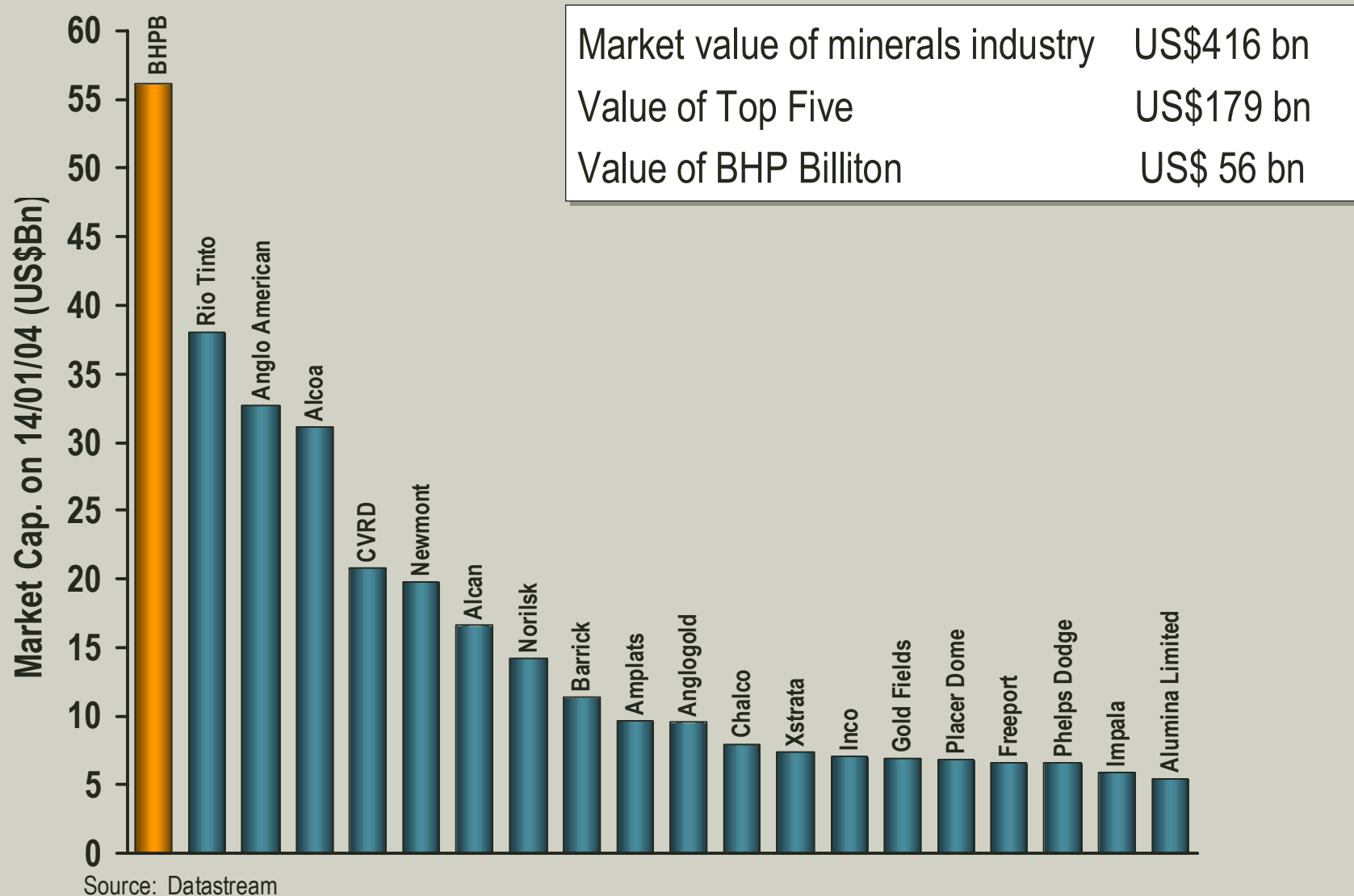
Concession	Preferred Bidder	Concession period	Beds	Capex investment	Direct jobs	Projected concession fees
Amanzimyama	IL Leisure	15yrs	24	R20m	45	R17m
Cape Vidal Beach	Lubombo Hotels	30yrs	600	R231m	500	R258m
Cape Vidal						
Bhangazi	IL Leisure	15yrs	50	R29m	99	R66m
eNkovukeni	Wilderness Safaris	15yrs	12	R3m	22	R4m
KwaDapha Complex		15yrs	74	R26m	87	R29m
Ndolozi A	Akani Leisure	20yrs	50	R49m	56	R36m
Ndolozi B	Akani Leisure	20yrs	10	R21m	33	R25m
Perrier's Rock	Halycon Hotels	20yrs	64	R54m	81	R64m
TOTAL			884	R432m	923	R501m

Conclusion

- “Zero Harm” extends into our communities
- BHP Billiton is committed to developing communities in which we operate - partnerships
- Triple bottom line approach
- The sustainability of our operations are dependant on the support of the surrounding communities.

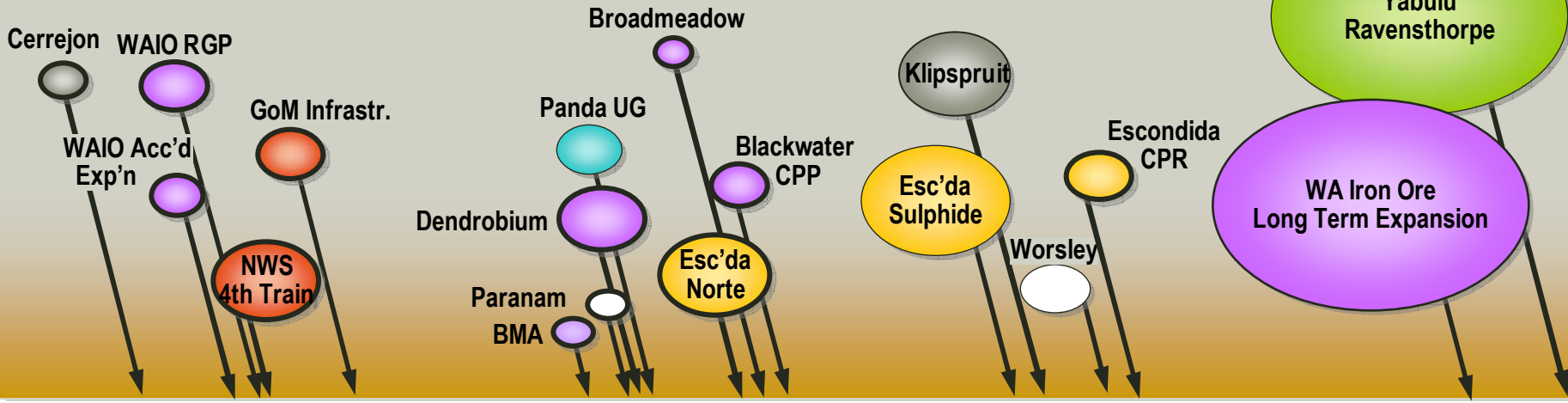
“RISKS CAN BE MANAGED”

The largest company in a consolidating sector



Deep inventory of projects

BROWNFIELD



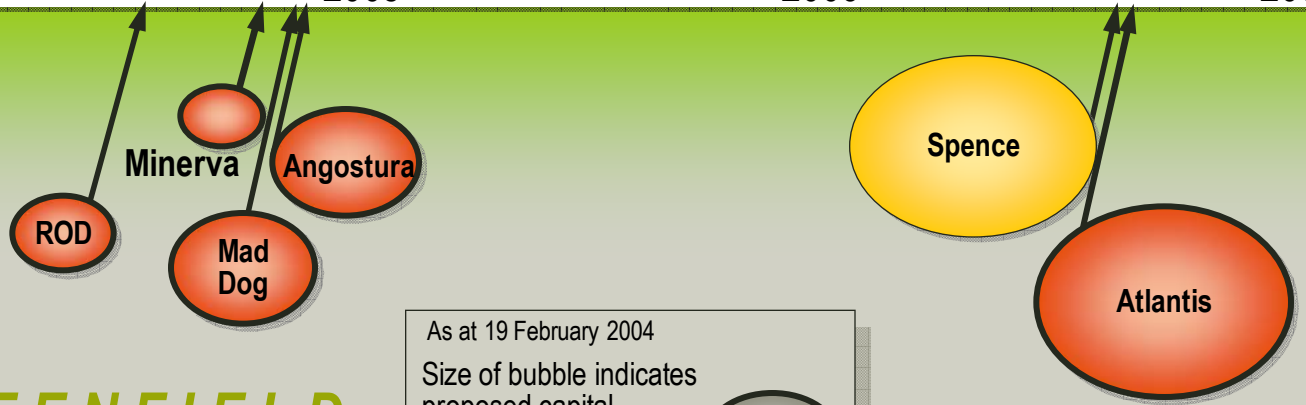
CY2004

2005

2006

2007

GREENFIELD



- Aluminium
- Base Metals
- Carbon Steel
- Energy Coal
- Nickel
- Petroleum
- Diamonds

As at 19 February 2004
 Size of bubble indicates proposed capital expenditure; bold outer border signifies sanctioned project
 \$US 200m