



| IUCN                                     | SUSTAINABILITY - A CHANGED WORLD                                 |
|--|--|
| Sustainability<br>speaks directly to     | CHANGING HOW PUBLIC COMPANIES DO BUSINESS                        |
| societal &<br>financial values           | DRIVERS  |
| i.t.o. the need to<br>protect the future | Global financial crises  |
| by providing for                         | Climate change   |
| the needs of the<br>present while not    | Ecological overshoot   |
| compromising the                         | Improved understanding of dependence on the                      |
| ability of future<br>generations to      | <u>environment</u>   |
| meet their needs                         | <ul> <li>Greater stakeholder expectations</li> </ul>             |
| Brundfland Report (1987)                 | <ul> <li>Impact of reputation on business performance</li> </ul> |
|  | Population growth  |
|  | Have to learn to make more with less                             |

### **STAKEHOLDER / PUBLIC EXPECTATIONS**

### OF BUSINESSES/ACTIVITIES IMPACTING ON OUR HERITAGE...

- No profits at the expense of the environment, human rights, a lack of integrity or society
- Adequate controls monitor and manage risks and opportunities
- Benefits are linked to overall performance which includes social, environmental and financial aspects
- Interactive communication with strategic stakeholders
- Business practices are sustainable





| COLOUR MORPHS   |           |   |  |  |  |  |  |  |
|---|-----------|---|--|--|--|--|--|--|
| Species   | Varieties | Names*  |  |  |  |  |  |  |
| Springbok   | 4         | Black, White, Copper, Coffee                              |  |  |  |  |  |  |
| Impala  | 6         | Black, Saddled, Black-backed, Grey, Blac<br>White-flanked | k nosed,   |  |  |  |  |  |
| Blue<br>wildebeest  | 2         | Golden, King  |  |  |  |  |  |  |
| Blesbok   | 8         | White, Yellow, Copper, Skilder, Woolly, Re<br>Top Deck    | re, Yellow, Copper, Skilder, Woolly, Red, Speckled,<br>Deck    |  |  |  |  |  |
| Kudu  | 4         | White, Black, Brown, Zebra-striped                        |  |  |  |  |  |  |
| Eland   | 1         | Skilder   | 40% (10/26) co   |  |  |  |  |  |
| Red<br>hartebeest   | 1         | King  | traded antelop<br>have colour r                                |  |  |  |  |  |
| Gemsbok   | 4         | Skilder, Gold, Cardinal, Scimitar                         | 69% (18/26) common<br>traded antelope have<br>been genetically |  |  |  |  |  |
| Plains zebra  | 1         | Golden  |  |  |  |  |  |  |
| Klipspringer  | 1         | Spotted   | manipula   |  |  |  |  |  |
| * Unlike livestock colour variants not accurately described |           |   |  |  |  |  |  |  |

### WHAT IS SELECTIVE BREEDING ??????

Definition selective breeding: Deliberate selection of and breeding for selected animal traits, usually in controlled conditions.

 Coat colour & pattern, horn & body size
 Simple inheritance, recessive genes, more predictable (e.a. coat colour)

Quantitative features, complex inheritance (e.g. horn length, body size) • E.g. German Shepherd hip dysplasia





**CBD:** The fundamental <u>requirement for the conservation</u> of biological diversity is the <u>in-situ conservation</u> of ecosystems and natural habitats and the maintenance and recovery of viable populations of species in their <u>natural surroundings</u>.

**DOMESTICATION:** (Latin domesticus: "of the home") the process whereby a population of living organisms is changed at the genetic level, <u>through generations of selective breeding</u>, to accentucte traits that ultimately benefit the interests of humans.



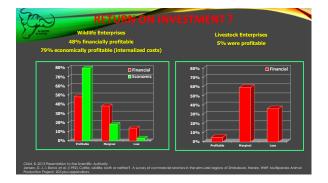


## SUMMARY OF BIODIVERSITY RISKS

- Genetics
   Habitat Loss
- Habitat fragmentation
- Predator persecution
  Animal Welfare

- Domestication
  Loss of parasite/disease resistance
- Disruption of evolutionary processes
- Diversion of scarce conservation
- resources Veterinary risk

# **GENETIC RISKS**



### 2012 GAME AUCTION TRENDS

WILDLIFE INDUSTRY

| • | 18200 animals traded - R960 M |
|---|-------------------------------|
| • | Animals of outstanding trophy |
|   | quality and colour variants   |
|   | achieved exceptionally high   |

prices – 80% • Colour variants and spits = 6% of animals sold, 16% of turnover or R155 million in turnover – this is a 5% growth

rate

# Game price stampede

SA's wildlife industry is seeing a boom in prices paid for superior breeding animals - but it is a boom subject to deeply divided opinions among game experts

Ices has become the for Horison, a buffalo bull. Sold in 2012 life industry in its to a syndicate of three buyers, Horison atta best of breed and the previous record for a buffalo bull. Sold in 2012 is the sole of the soles at the 2005 record of R165 000, "They have a sole at the 2005 record

imals from t tractive spec But not al experts are c rising prices

To achieve <u>competitive success</u>, a game farmer must possess a <u>competitive advantage</u> in the form of either <u>lower cost</u> or <u>differentiated products</u> that command <u>premium prices</u> (Porter, 1985)

### **TRENDS – SELECTIVE AND INTENSIVE BREEDING**

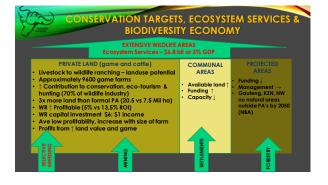
| Less expensive to keep animals in camps                              |                  |              |                           |
|--|------------------|--------------|---------------------------|
| Smaller property sizes required lower investment                     | Asset            | Trend        | Growth on<br>investment % |
| cost   | White Blesbok    | ↑            | 71                        |
| Significant income potential - ECONOMIC VALUE                        | Yellow Blesbok   | ↑            | 446                       |
| <ul> <li>High investment growth – unique and rare product</li> </ul> | Golden Gemsbok   | ↑            | 499                       |
| offerings (83% ROI)  | Blackback Impala | ↑            | 130                       |
| <ul> <li>Out compete JSE ASI and DJ (Fin Mail, 2013)</li> </ul>      | Black Impala     | ↑            | 49                        |
| • Branding critical – SA compared to East African (Not               | Black Springbok  | ↑            | 80                        |
| proudly South African)   | Copper Springbok | ↑            | 48                        |
| As colour variations become more common, prices                      | White Springbok  | ↑            | 19                        |
| decrease   | Golden Gnu       | 1            | 11                        |
| • Niche market hunting specimens – price instability                 | White Kudu       | $\downarrow$ | 64                        |
| WHO BENEFITS ?   |                  |              |                           |











### CONCLUSION

### Ramaphosa rakes in millions for impala

### Separate 1204 & 12081 By Dashare Findle

as called on white landowners to keep faith the constitution – and keep on investing in sair farms.

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- Wildlife financial commodity
- Responsibility constitutional and moral
   Wildlife Industry can play a huge role in conservation and the GREEN ECONOMY

Challenge ....converting the value of wildlife resources into positive land use outcomes contributing to biodiversity conservation and economic development in a socially responsible manner that will benefit current and future generations

### WHERE TO FROM HERE.....

- Make sure its about triple bottom line profits for all
- Improve profitability models for extensive areas
- Incentives for achieving national conservation targets
- Investigating a premium game meat export system
- Promote as driver in the biodiversity economy
- Highlight risks impacting on extensive wildlife systems
- Green certification for extensive systems and hunters

