





## Wildlife & Sustainable Rural Development in Namibia: Are There Applications to The Northern Great Plains?

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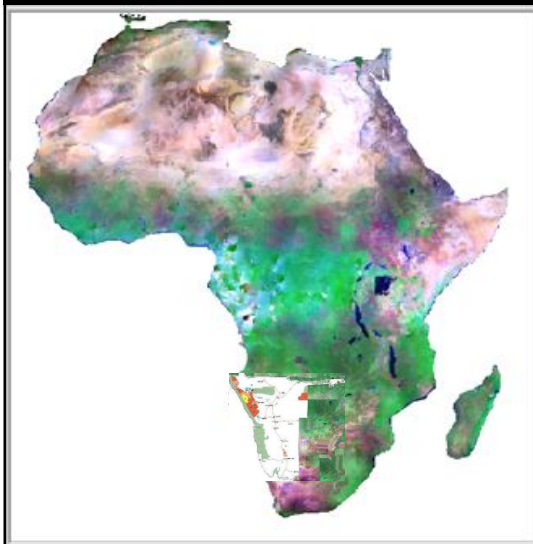


### Key Topics To Be Covered:



- **Setting & Context of Namibia**
- **Shifting Paradigm – Unlocking Indigenous Biodiversity Production**
- **Different Models Used to Promote Conservation**
- **Changing Trends**
- **Lessons Learned**
- **Conclusions**
- **Food for Thought**

## Setting & Context of Namibia



### Namibia:

- 317,888 sq miles
- Pop: 2,000,000
- Density: 6.23 sq mile

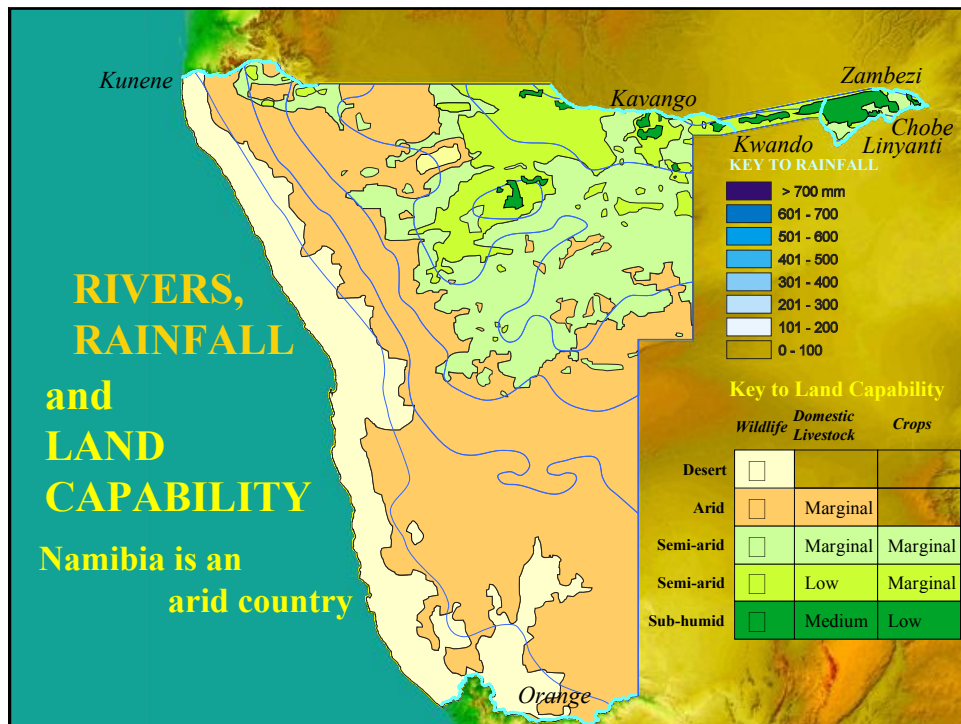
### Nebraska, N. Dakota, S. Dakota, Wyoming:

- 322,404 sq miles
- Pop: 3,629,164
- Density: 11.23 sq mile

## Namibia – A Country of Mixed Land Tenures



- Private Land - 43%
- Communal Land - 41%
- State Land - 16%



## Historical Development of Namibia



- Initially settled in the mid 1800s as a German colony
- Land originally rich in wildlife
- Wildlife populations eroded as land converted to livestock production
- Livestock populations peaked in early 1900s, but crashed with drought of 1930-32
- Livestock populations recovered from 1940s onward, but gradually regressed as overgrazing resulted with bush encroachment and reduced rangeland productivity
- Until late 1960s, cattle production was the major landuse for the productive central savannahs of the country (i.e., farms often sold as “guaranteed game-free”)

## Namibia – A Country of Diversity



## Presence of Africa's Big 5 In Parks & Communal Areas



## Namibia Has Seen Rapid Change Since Its Independence 18 Years Ago



- Independence of Namibia and the end of colonial rule in 1990 resulted with the abolishment of apartheid
- First African nation to adopt conservation of the environment into its constitution
- Namibia has recognized and built upon the comparative advantages of its natural capital
- Rapidly evolving economy and associated changes in land use – moving away from livestock production as predominant land use to integration of wildlife, tourism and indigenous biodiversity into rural development approach
- Considered by many to have the most dynamic and effective conservation / rural development program in Africa

## WHAT ARE NAMIBIA'S COMPARATIVE ADVANTAGES ?



✓ VAST OPEN SPACES AND WILDERNESS AREAS

✓ ABUNDANT AND DIVERSE BIODIVERSITY AND WILDLIFE POPULATIONS that are well adapted to Namibia's harsh climatic and physical conditions, and have extremely high *direct & indirect use value*.



✓ UNCONTAMINATED MEAT AND FISH PRODUCTS



✓ Rich CULTURAL diversities and valuable TRADITIONAL KNOWLEDGE

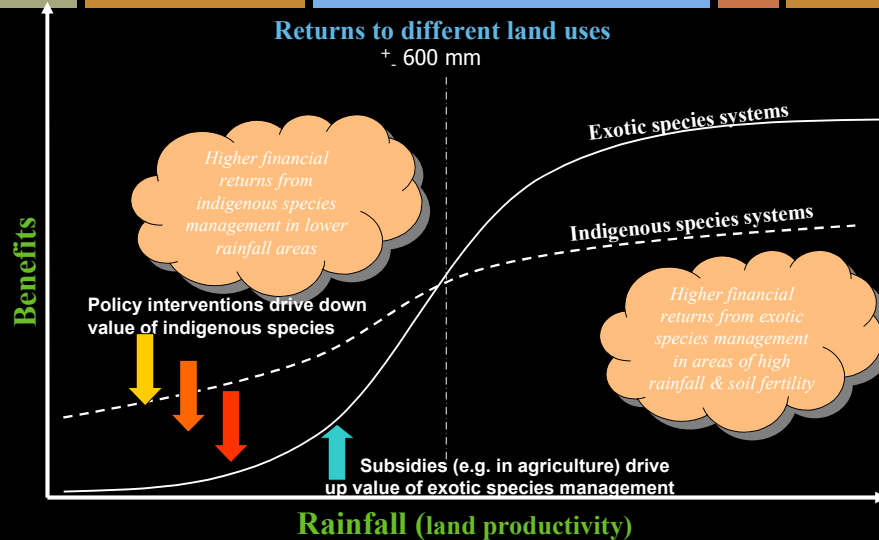
✓ Efficient SERVICE Industries

## How Is Namibia Unlocking and Promoting Its Comparative Advantages?

- Recognition Given to Natural Environmental Limitations
- Policy and Legislative Reform
- Promotion of Innovative Conservation / Development Support Approaches
  - Freehold Conservancies
  - Communal Conservancies
  - Public / Private Conservation Linkages
  - Private Game Reserves
- By Working With Private Sector and Local Communities to Promote Namibia As An International Tourism Destination



## Land Productivity Limitations: Arid & Semi-Arid Landscapes Favor Indigenous Species Production



## Unlocking Opportunities Through Policy & Legislative Reform

### Nature Conservation Ordinance No. 4 of 1975



#### Government Gazette of the Republic of Namibia

NS1.20

Windhoek - 17 June 1996 No. 1333

##### Government Notice

Page

No. 151 Promulgation of Nature Conservation Amendment Act, 1996 (Act 5 Of 1996), of the Parliament .....

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#### Rights granted:

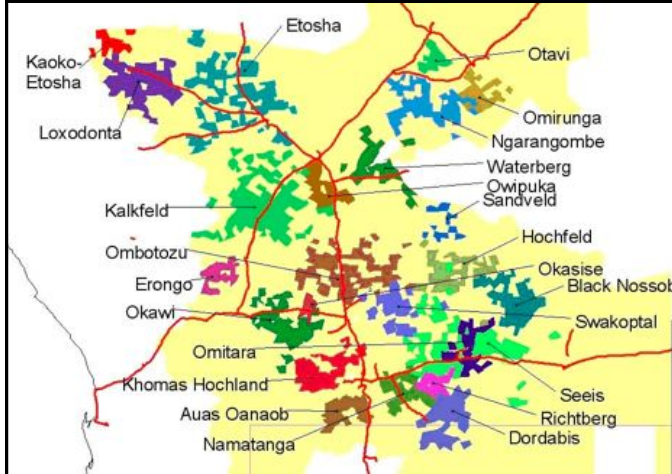
- **Rights of ownership over huntable game**
- **Rights to revenues from the sale of game or game products**
- **Rights over tourism**

## Namibia's Conservation / Rural Development Approaches

- **Freehold (private) Conservancies**
- **Communal Conservancies**
- **Public / Private Conservation Partnerships**
- **Private Nature Reserves**

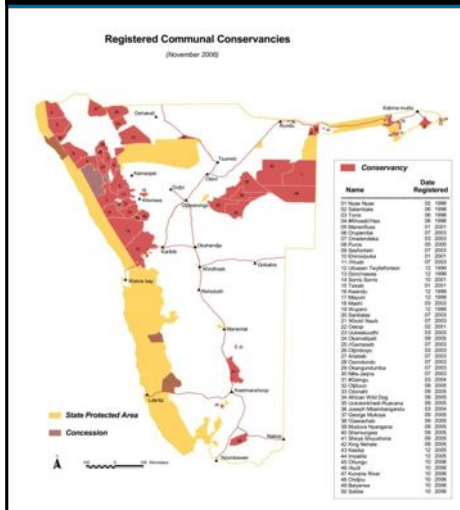


## Freehold Conservancies - CANAM

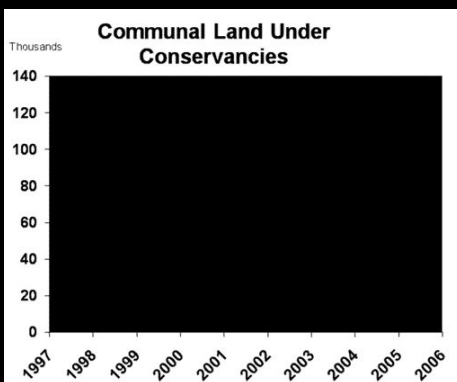


- 23 Freehold Conservancies
- 415 Member Farms
- Covering 3.5 million hectares

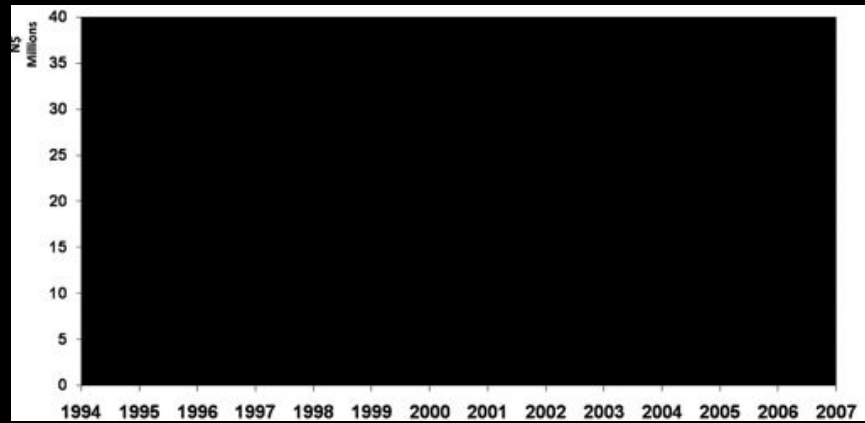
## Communal Area Conservancies



- 50 Conservancies gazetted to date
- 11,827,600 Hectares

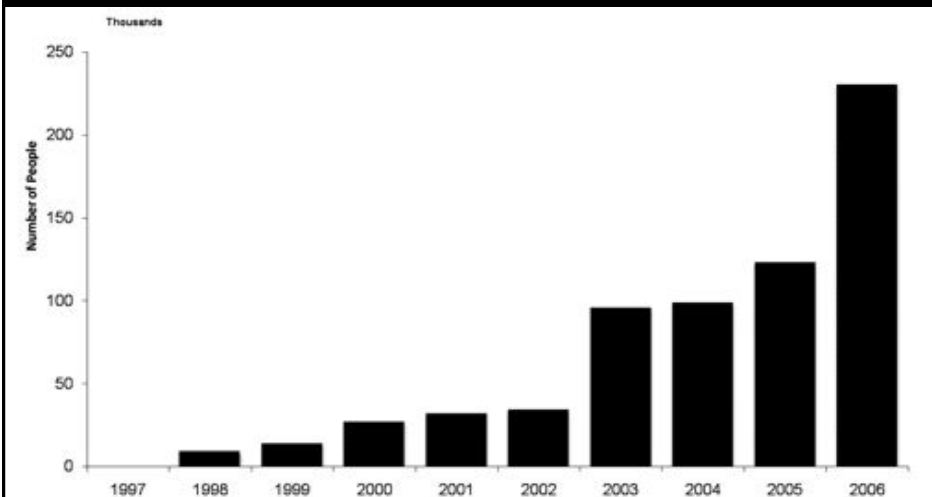


## Financial Program Benefits Are Growing



**US\$5,147,059**

## 1 in 8 Namibians Participates in A Conservancy



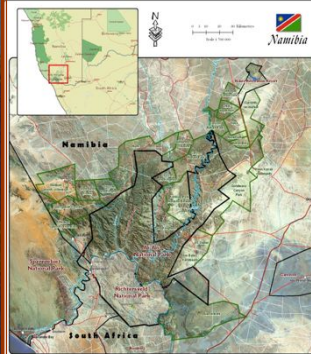
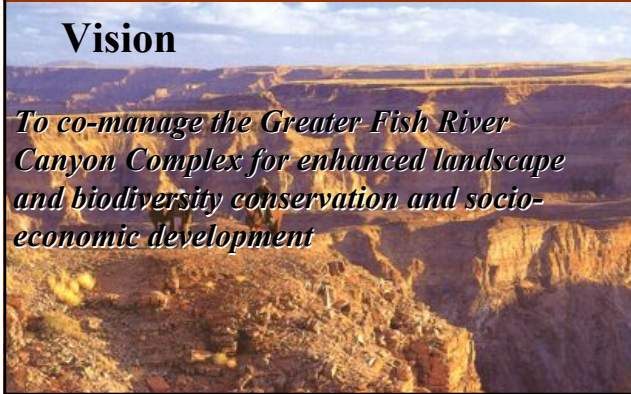
- >80 Communities mobilized into representative governance bodies
- Additional 70,000 people in emerging conservancies

## Public / Private Partnerships

# Greater Fish River Canyon Complex

### Vision

*To co-manage the Greater Fish River Canyon Complex for enhanced landscape and biodiversity conservation and socio-economic development*



Greater Fish River Canyon Complex

## Removing Barriers & Creating Scale



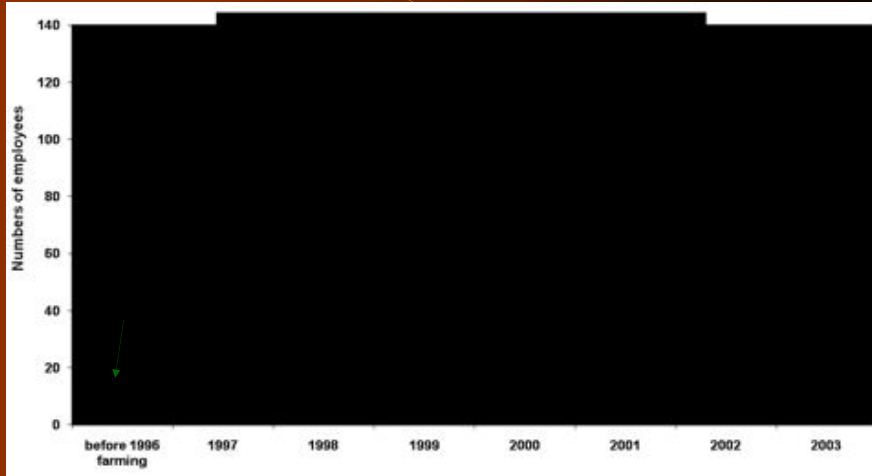
## A Private Initiative – Gondwana Nature Reserve



## Best returns on land - financial results: Karas region

Item	Communal livestock	Freehold livestock	Tourism
Financial gross income per hectare (N\$)	4.71	15.00	165.00
Net cash income per hectare (N\$)	0.93	0.48	23.00
Livelihoods income (N\$)	1.08	3.27	19.00
Financial rate of return	5.5%	9.8%	12.9%

## Job creation: farming versus tourism



## A Paradigm Shift Is Occurring As Namibia Taps Its Comparative Advantages

- Indigenous Biodiversity Has Now Passed Agriculture In Terms Of Namibia's Gross Domestic Product



## Agricultural Production - 2005

Commodity	Output value (million N\$)	
	Commercial	Communal
Cattle	637.1	5.8
Small stock (sheep & goats)	285.1	
Other livestock (pigs, dairy, karakul, hides & skin)	258.2	
Crops (cereals, grapes, etc)	188.7	154.5
Other agriculture		290.0
Construction for agriculture	59.0	
<b>TOTAL</b>	<b>1,878.4</b>	

## Indigenous biodiversity-based production - 2005

Commodity (Commercial only)	Output value (million N\$)
Trophy hunting	316.0
Live game sales	14.3
Wildlife viewing	2,700.0
Fuel wood sales	63.0
Charcoal	75-100
Selected plant products	21.6
<b>TOTAL</b>	<b>3,200</b>

## National level

Total gross annual output of whole agricultural sector (large & small stock, and crops) – commercial and subsistence sectors	<b>N\$1,878 million</b>
Total gross annual output of non-agricultural natural resource based “sector” ( tourism, trophy hunting, wildlife products, indigenous plant products, etc i.e. indigenous biodiversity) – commercial sector only	<b>N\$3,200 million</b>

**Indigenous biodiversity production systems have overtaken agricultural production systems and exceed them by a factor of at least two times**

## Livestock numbers on private land 1971 - 2001 (Based on MAWRD stock census data)

	1971	1981	1991	2001
<b>Cattle ('000)</b>	<b>1,800</b>	<b>1,400</b>	<b>1,300</b>	<b>910</b>
Decline (%)		22%	7%	30%
<b>Overall decline (%)</b>				<b>49%</b>
<b>Small stock ('000)</b>	<b>4,550</b>	<b>4,350</b>	<b>3,500</b>	<b>2,700</b>
Decline (%)		4%	20%	23%
<b>Overall decline (%)</b>				<b>41%</b>

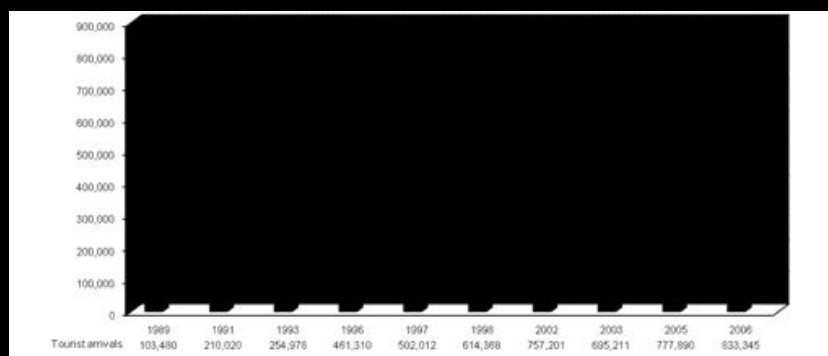


## Live Sale Values (N\$)

Springbok –	N\$ 750	
Oryx / Kudu –	N\$ 1,750	
Giraffe –	N\$ 10,000	Cattle – N\$3,000
Roan –	N\$ 80,000	Goats – N\$ 400
Sable –	N\$ 90,000	
Buffalo –	N\$105,000	
White Rhino –	N\$160,000	



## Number of Tourist Arrivals To Namibia: 1989-2006



- Massive growth in Tourism Sector since 1989
- Now over 800,000 visitors a year
- 6.9% growth projected for next 10 years
- 72,000 tourism related jobs
- Estimated 16% of GDP

## Increasing Number of Foreign Hunters To Namibia: 1994 - 2006



- A hunter spends between US\$8,000 - \$10,000 per trip in Namibia

## Conversion To Wildlife & Tourism Is Leading To Large Landscape Linkages, Strengthened Ecosystem Health, and Enhanced Rural Development in Namibia



### Land Under Conservation:

1990 - 12%  
2008 - 38%

## Lessons Learned

- Foreign and/or national subsidies can perversely affect resource values
- Enabling policies must be in place to allow rural communities to realize enhanced resource values
- Linkages must be made between benefits acquired and resource management
- Conservation can be enhanced by harnessing values at different points of the marketing chains
- Benefits derived from natural resources must be competitive with other land uses for resource users to have the incentive to conserve them
- Effective conservation requires a paradigm shift

## Conclusions:

- The development of IBD production systems will often out-perform traditional farming systems in arid areas of Africa
- The strongest incentives for wise and sustainable use of wildlife and IBD and their long-term conservation are created by these resources having a high and tradable value – the higher the value the better
- The best way to operationalize an incentive-based approach is to devolve rights over wildlife and other IBD to the lowest appropriate operational level – farmers, land-owners, communities, custodians of the land, etc.
- Policy reform is critical to unlocking increased values of wildlife & IBD
- Wildlife-based tourism can generate greater employment than extensive livestock production
- Wildlife-based tourism can be a viable rural development approach if appropriate attractions and markets are developed
- The integration of wildlife-based tourism with agriculture in Namibia has proven to be an effective livelihood enhancement strategy, by jointly increasing income and reducing risks

## Food For Thought:

- What are the competitive advantages of the Great Plains States?
- Are there policy changes that could be made in the Great Plains States that would unlock increased returns to landowners from wildlife and indigenous biodiversity production?
- Are there emerging markets or under-developed markets that could be tapped ?
- Are there market trends that reflect anticipated increased demands for indigenous biodiversity?
- Will rising agricultural production costs make wildlife and tourism a more competitive landuse?

