

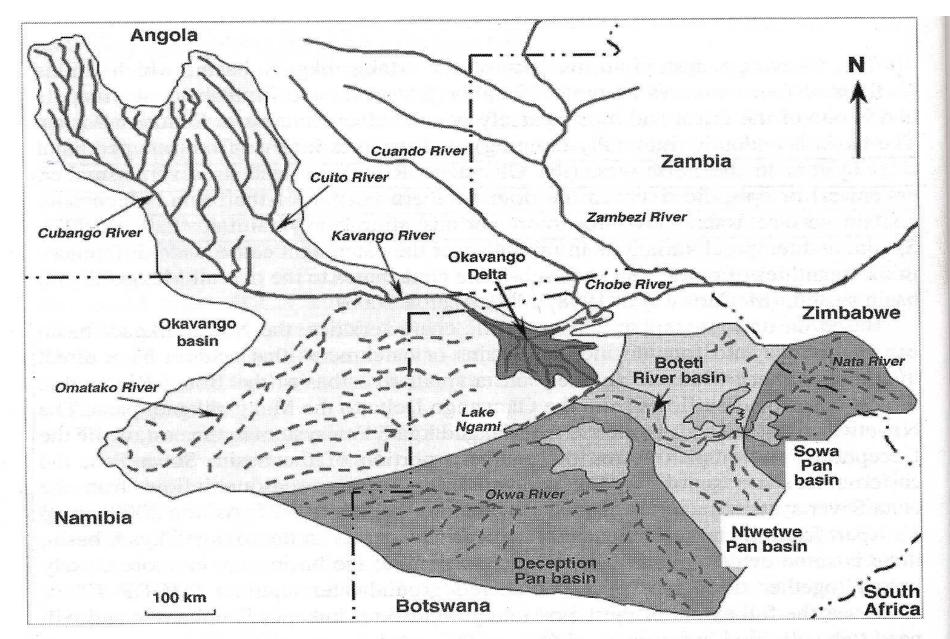
#### Framework Management Plan for Makgadikgadi Wetlands System

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### OUTLINE

- 1. Background
- 2. Development and Environmental issues
- 3. What's in Makgadikgadi Wetland System
- 4. The MFMP area
- 5. The MFMP Process
- 6. The MFMP aim
- 7. Guiding principles for MFMP
- 8. FMP structure and components
- 9. Key maps
- 10. Implementation



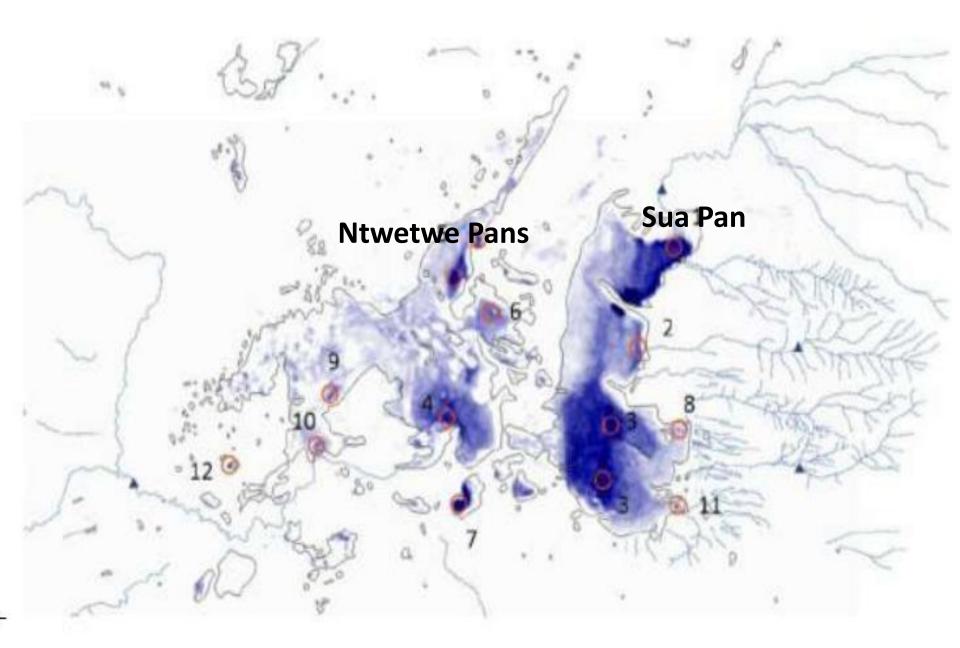
Ephemeral and episodic rivers are shown as dashed lines, while perennial rivers are shown as solid lines.

Source: Map redrawn from UNDP/GEF 2001.

#### 1. Background

- MWS located in north-eastern Botswana, south east of the Okavango delta and south of the Chobe river front
- MFMP area is located entirely within Botswana
- The catchment area of Makgadikgadi pans is larger and extends into Zimbabwe in the east and north through the Nata river system.
- It is also linked to the Okavango system through the Boteti river (which has been dry since the 1980s).
- It is divided into the eastern Sua pan and western Ntwetwe pan.
- Sua pan receives seasonal inflows from Nata river system from western Zimbabwe and Mosetse, Lepashe, Semoane, Mosupe

#### **The Pans!**



#### Nata delta – main outflow into Sua pan

#### Semowane delta

#### Mosetse River and Dukwi vet.fence



## 2. Development and Environmental Issues

- Poverty and livelihoods insecurity
- Lack of understanding of resource tends
- Sectoral management, different land tenure regimes, insufficient coordination
- Resource degradation
- Fragmented institutional responsibilities
- Growing number of sectoral and resource conflicts
- Scarce water resource and water quality

# 3. What's in Makgadikgadi Wetland System?

- Mining Soda Ash mine in Sowa, two major diamond mines of Orapa & Letlhakane ( some mineral explorations exist)
- Wildlife and Biodiversity conservation (Makgadikgadi and Nxai Pan National Park) and a number of Wildlife Management areas (WMAs)
- Tourism attractions wildlife, pan dominated landscapes, waterbird aggregations, baobabs, archaeological artifacts and local culture
- Community Based Organizations Nata Conservation Trust, Gaing-O Community, GWEZOTSHA, Ngande, Mokopi Conservation, Gumakotsha.....
- Luxury camps (Jack's camp and Kalahari camps) and lodges (Meno-a-kwena and Leroo la tau, Planet Baobab, Gweta lodge)
- Number of Heritage and archaeological sites are found in the area
- Majority of the population in the area is rural and rely on subsistence livestock and crop production





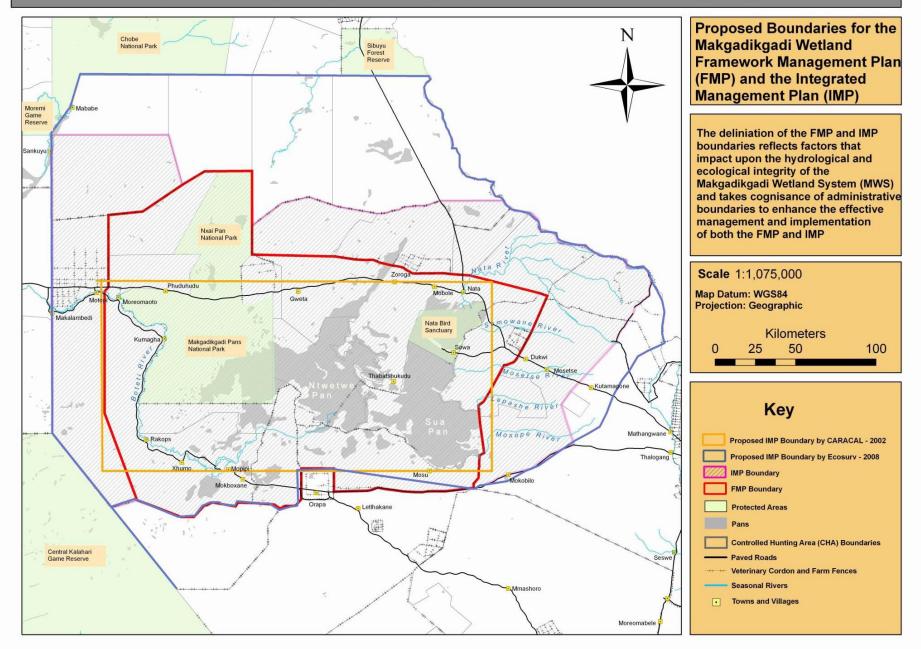
#### **Baobab Island - Thabatshukudu**



#### Lechana pan



#### Project Boundary for the Framework and Integrated Management Plans (FMP / IMP) and previous proposals for the boundary alignment



#### 5. The process

- Public-private sector partnership, multidisciplinary and integrated approach
- Inception (Nov Dec 2009), Analysis & Component development (Jan-July 2010), Synthesis and plan development (Aug – Oct 2010)
- Environment development approach guided by sustainable development, livelihoods and ecosystem approaches
- Potential Scenarios for the area were developed and valuated using Multi-Criteria Analysis (MCA)
- Development of the activity plan and detailed study reports

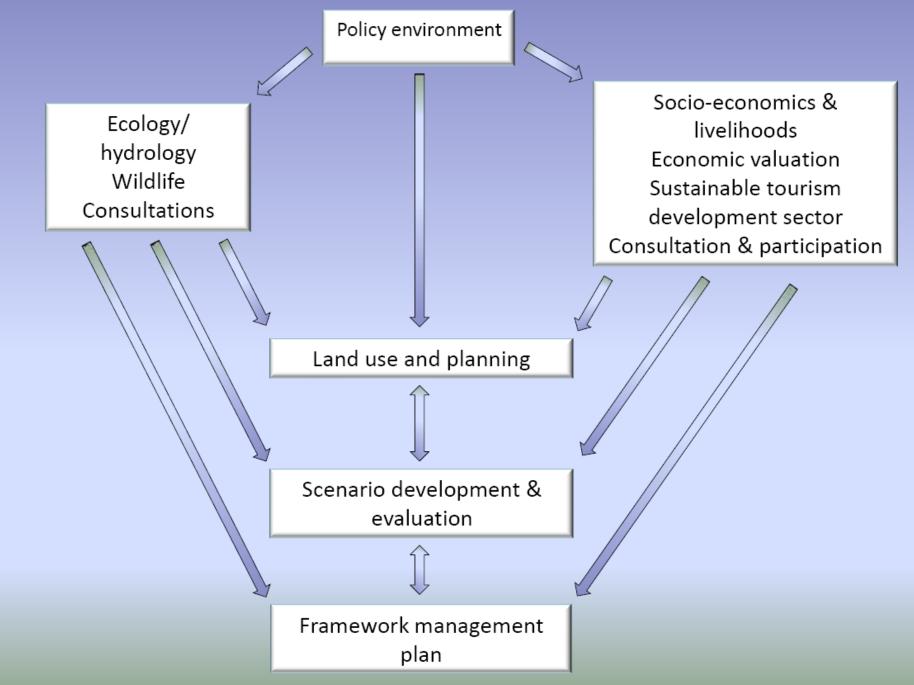
#### 6. MFMP overall aim

• To improve people's livelihoods through wise use of the wetland's natural resources

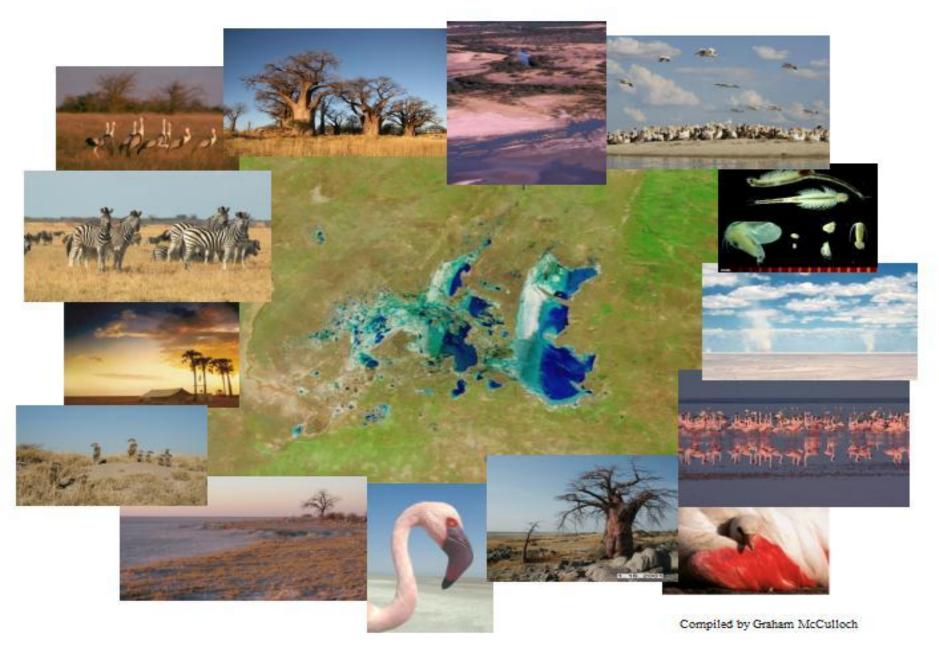
## 7. Guiding principles for MFMP

- Holistic planning must prevail over sectoral planning
- Development must benefit rural livelihoods and the environment
- Special attention is needed for vulnerable groups
- Local stakeholders should be involved in the preparation, planning and plan implementation
- Local population must develop a sense of 'ownership' of the MFMP
- Implementation is a shared responsibility of government, private sector and civil society; and
- Resource conservation and management benefits longterm development opportunities and livelihoods

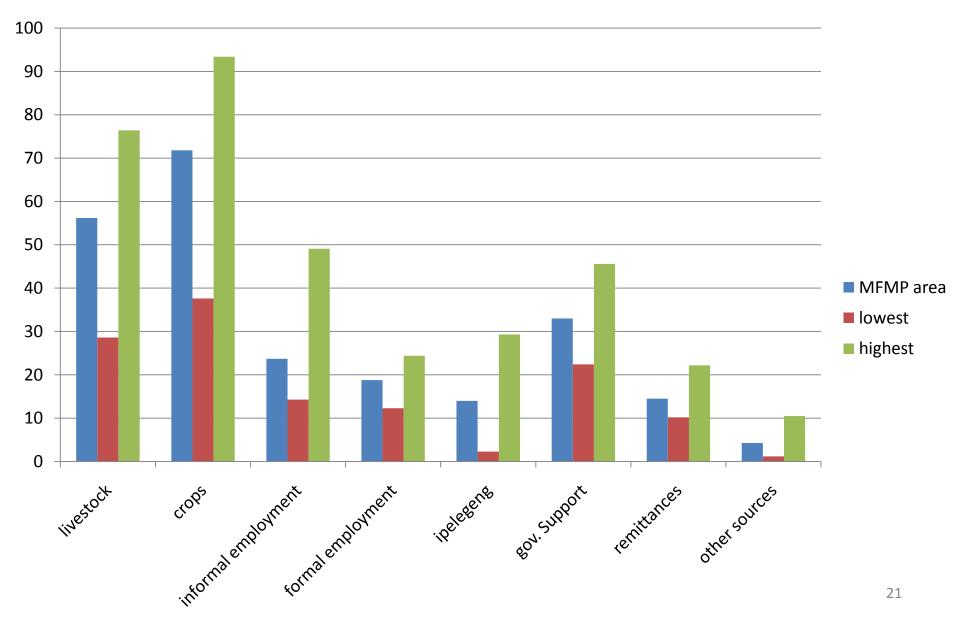
#### Figure: FMP structure and components



#### Inventory update in 2010!



### Main sources of livehoods (% HH)



Issue	Challenges
Heavy reliance on crop production	How to improve livelihood returns & productivity?
Livestock production	Retaining access to livestock production Improving benefits/ productivity and rangeland conditions.
Reliance on government support	Can this be sustained in future? Does it create dependency? How is it best targeted?
Shortage of employment	Employment creation in private sector
Livelihood dependency on natural resource	Sustainable management of communal natural resources Drought and climate change adaptations
Low livelihood security	Economic diversification (e.g. Mining, tourism & CBNRM) Increasing returns from crops and livestock (Self-) employment creation Increasing access to livelihood sources







#### The MFMP Plan- Volume 1

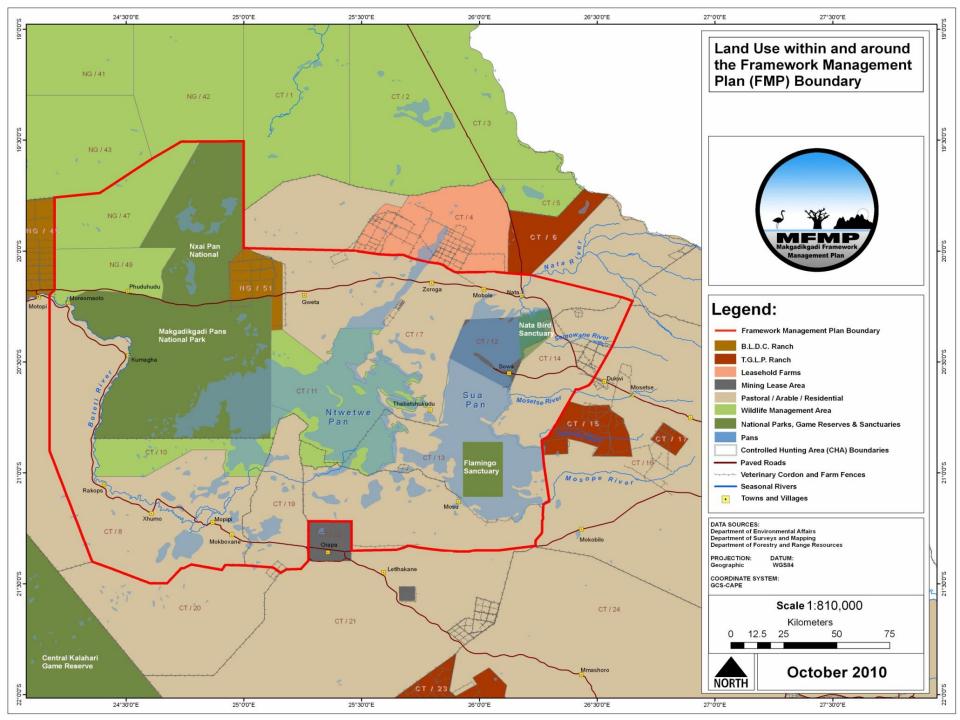
The main plan for Makgadikgadi area, describes the people, natural resources, current land use, economic value, tourism & heritage, consultations, policy environment and possible management scenarios, activities & costs and a detailed monitoring plan.

– Categories of activities : management of natural resources, waste management and pollution control, fire and hazard management, drought management and climate change, biodiversity hotspot management, land use and fencing, water use, economic sectors and livelihoods, livelihoods improvement, institutions and governance, education, knowledge and awareness, environmental monitoring and research, Funding.

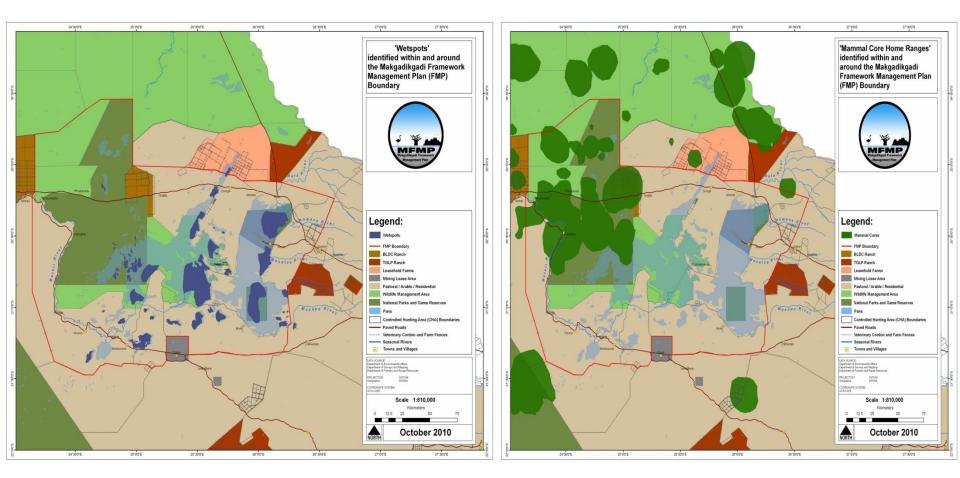
### The MFMP - Volume 2

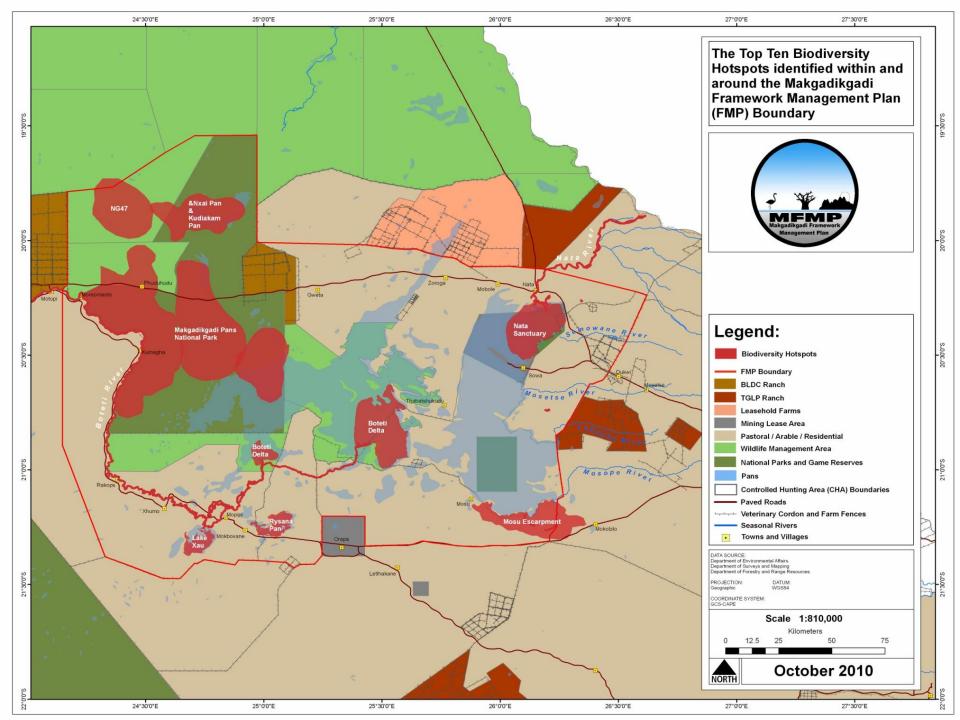
- Detailed reports on ecology, hydrology, wildlife, economic valuation, tourism and policy environment.
- An update of the Site Inventory on the current status, trends in the physical and biological characteristics of the system
- Targeting relevant for implementers, communities, NGOs, planners and researchers

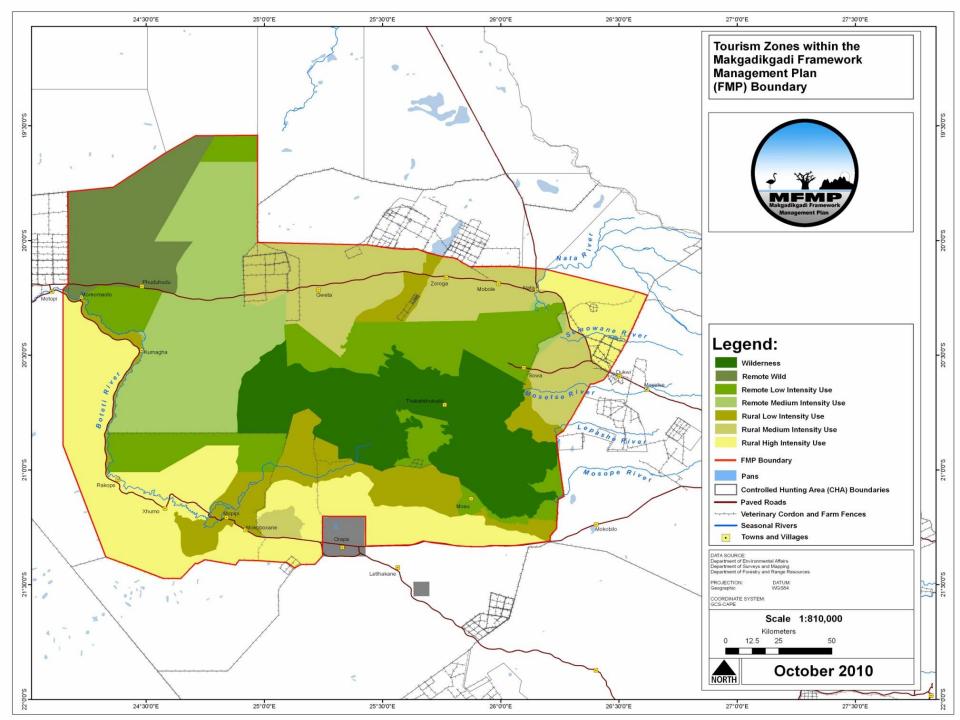
#### 9. KEY MAPS!

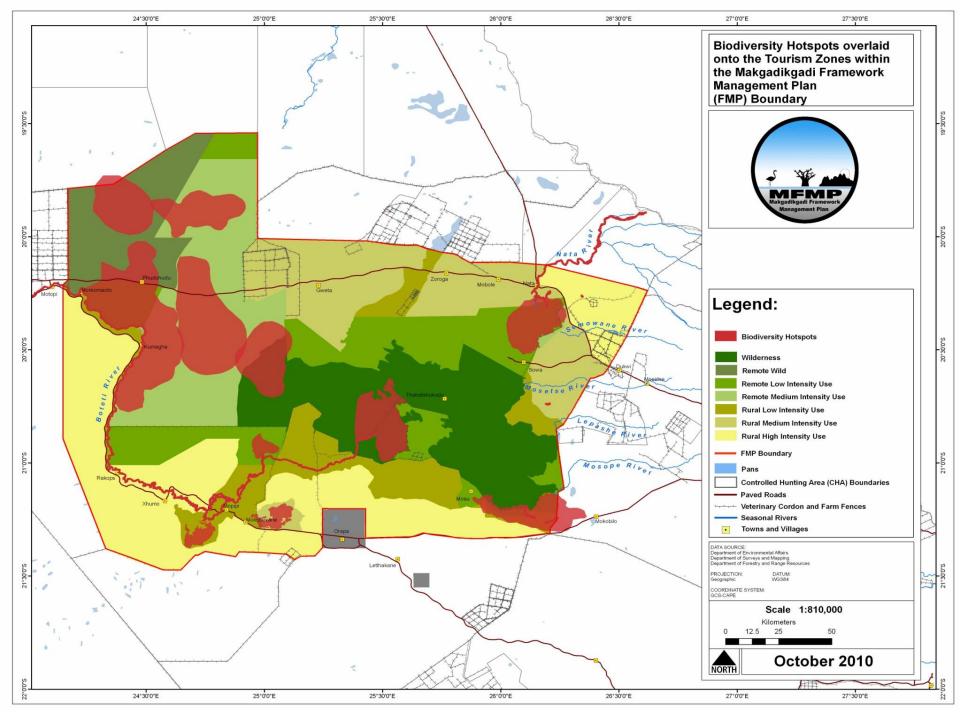


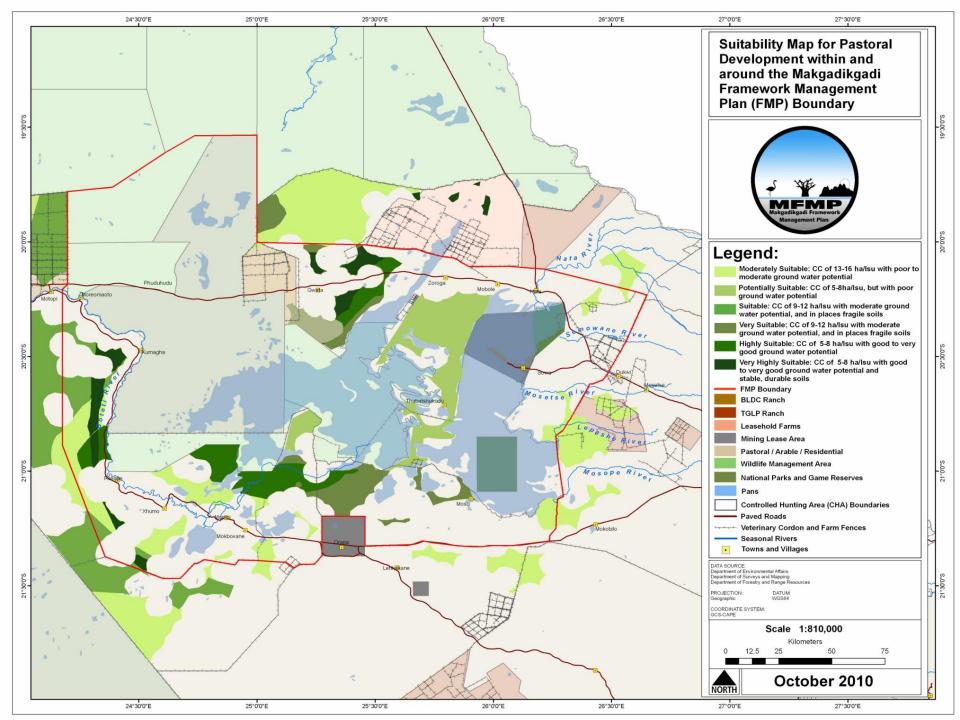
## The Biodiversity Hotspots were initially identified through an extensive analytical assessment of key wetland areas and wildlife habitats

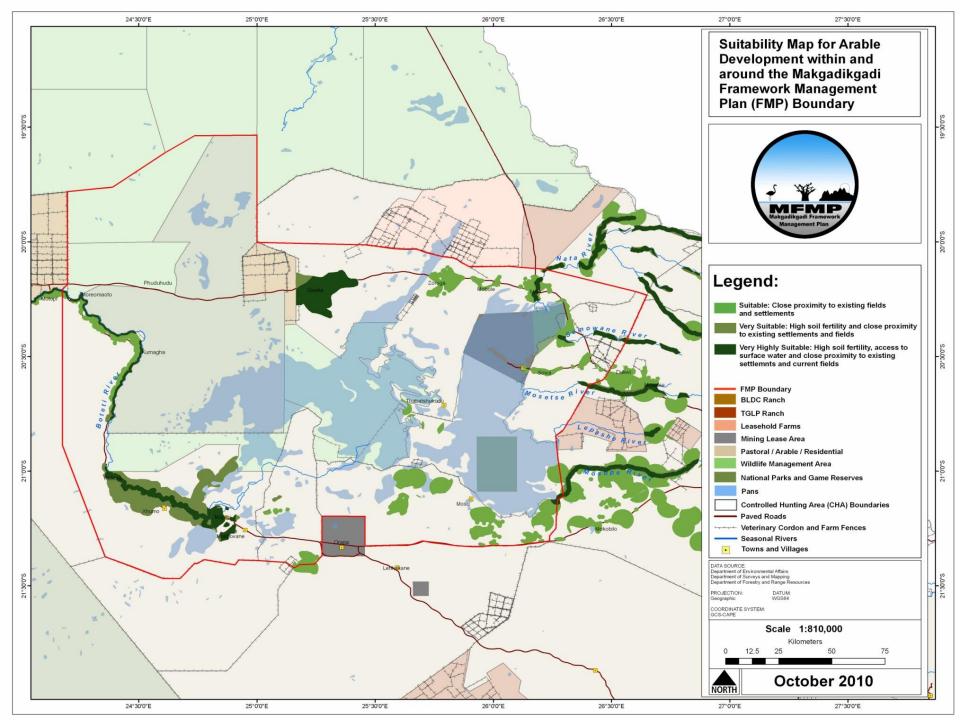


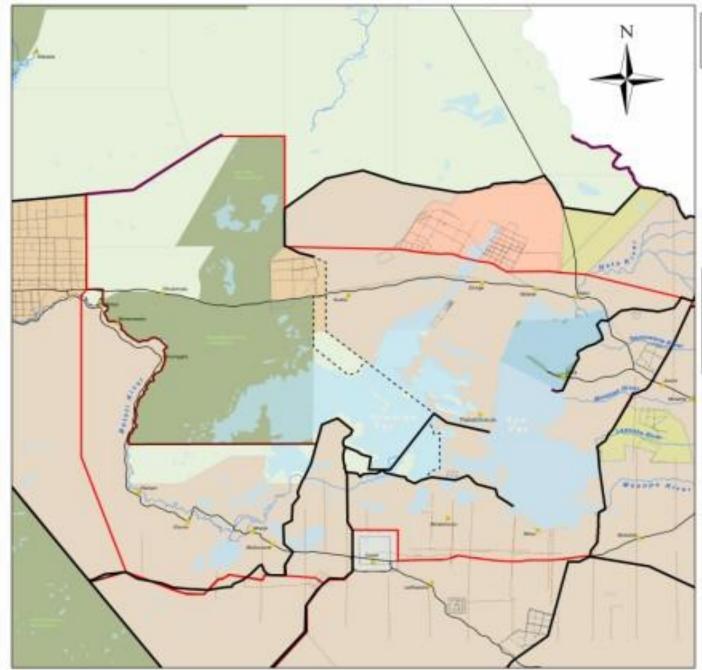












Fence alignments within the Framework Management Plan (FMP) Boundary



### **10. Implementation**

- DEA coordination unit
- 3<sup>rd</sup> round of Consultation Feedback on the results and the planned activities
- Mainstreaming FMP activities in for Central including Boteti & Tutume sub districts Strategic Plans
- MFMP launch on the 4<sup>th</sup> June 2011 during WED
- Collaboration with ongoing projects (KAZA, BLB (PAs), CBOs etc)
- Monitoring of Boteti river flow
- DGS and DNMM Mokobilo fossilized sedimentary rocks
- Collaborate with ongoing research in the MFMP area
- Explore more funding opportunities

#### Way forward: Better livelihoods & resource conservation – Integrated NR management - IMP







## THANK YOU! www.mewt.gov.bw

"Tsela tshweu go ya Makgadikgadi"