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Environment and Natural Resources Management Program Supporting Biological Base for Biodiversity and Ecosystem Services



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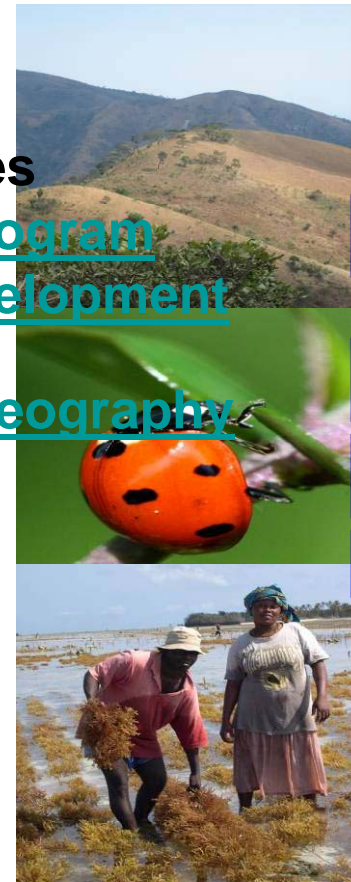
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Biological Base – Our Forests, Biodiversity, and Ecosystem Services



- **OUTLINE**

- Overview: Facts and Figures
- History to USAID's NRM Program
- Guiding Approach and development hypothesis
- Implementation Program Geography Areas
- Results and Achievements
- Ecosystem Services
- Challenges and Problems



Linking Natural Resources, Economic Growth and Good Governance

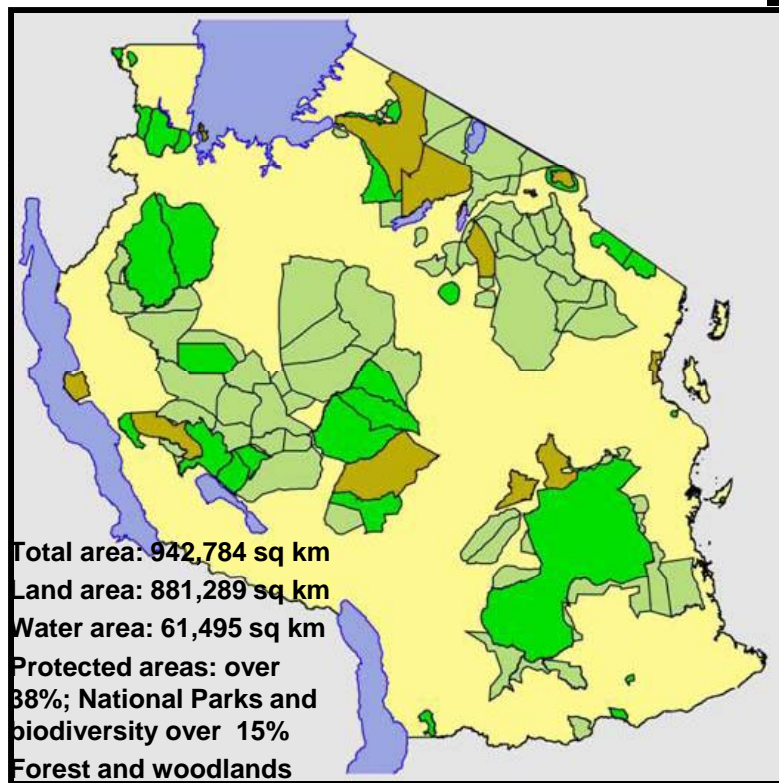


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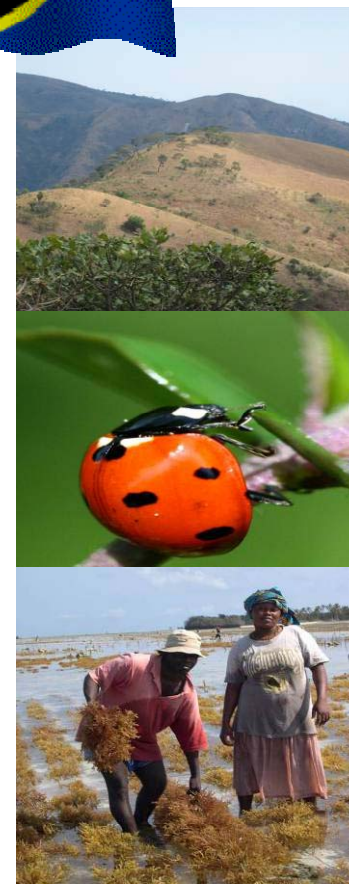
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FACTS SHEET - Tanzania



- Total area: 942,784 sq km
- Land area: 881,289 sq km
- Water area: 61,495 sq km
- Protected areas: over 38%; National Parks and biodiversity over 15%
- Forest and woodlands cover about 34,000 sq km



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FACTS SHEET - Natural Resources



- **Soils, water, minerals, fisheries, wildlife and forests, hydropower, tin, phosphates, iron ore, coal, diamonds, gemstones, gold, natural gas, nickel**
- **Contribution of over 70% to national GDP**

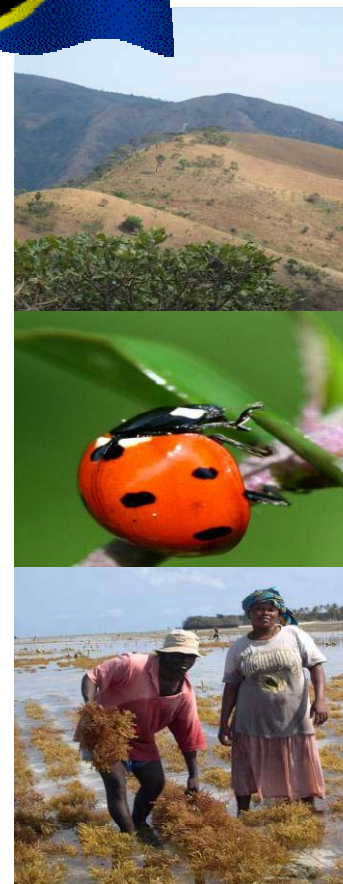


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FACTS SHEET - Main employment s



- Eighty-five percent of Tanzanians depend entirely on the management of natural resources for their livelihood.
- Important for sustainable development and Poverty reduction initiatives



HISTORY of USAID Engagement in Sector



- **THE EVOLUTION**
- **1997 - SO2: Foundation established for environmentally sound natural resources management in Tanzania**
- **2000 – SO8: Improved conservation of Coastal Resources and Wildlife in target areas**
- **2005 – S013: Biodiversity Conserved using a livelihood driven approach in targeted landscapes**



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HISTORY of USAID Engagement in Sector – Cont'd



- USAID NRM program supports both site specific biodiversity conservation and cross cutting policy projects in support of Mission Objective of Improving the Quality of Life in Tanzania.
- The Program contributes results to MKUKUTA – National Strategy for Growth and Poverty Reduction
- Supports government initiative in Biodiversity hotspot conservation and management



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THE GUIDING APPROACH



Biodiversity
Natural Resources
(Nature)

Economic Benefits &
Poverty Alleviation
(Wealth)

Governance
(Community Empowerment)
(Power)



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THE GUIDING APPROACH – cont'd



- Socio- economic benefits as entry point to build consensus, acceptance and support for improved natural resource management
- Socio-economic benefits from natural resources foster inclusion of all players as equal partners
- Tangible benefits as incentives for sustainable utilization and continued monitoring of natural resources.
- Ability to make better NRM choices



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RESULTS FRAMEWORK



Policies and laws that balance conservation and development applied

Participatory **landscape level conservation** practiced

Conservation enterprises generate increased [and equitable] benefits from sustainable use of NR

SO13:
Biodiversity Conserved in targeted landscapes using livelihood driven approaches



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Bio

IMPLEMENTATION
Program Geography



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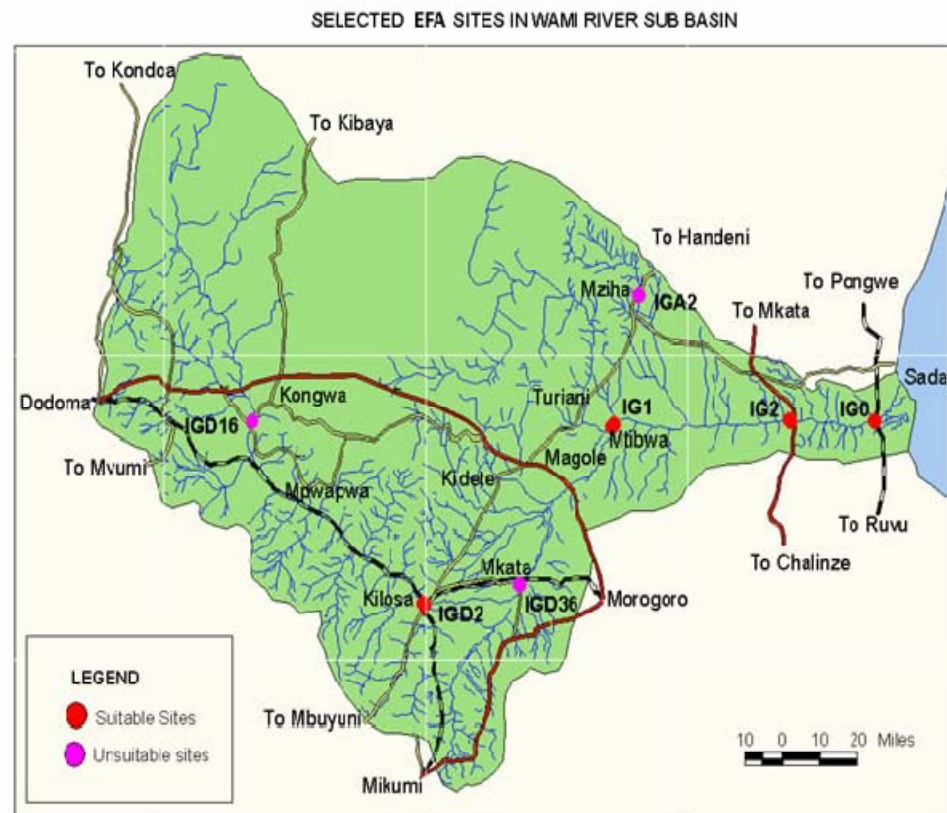


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Wami River Basin Profile



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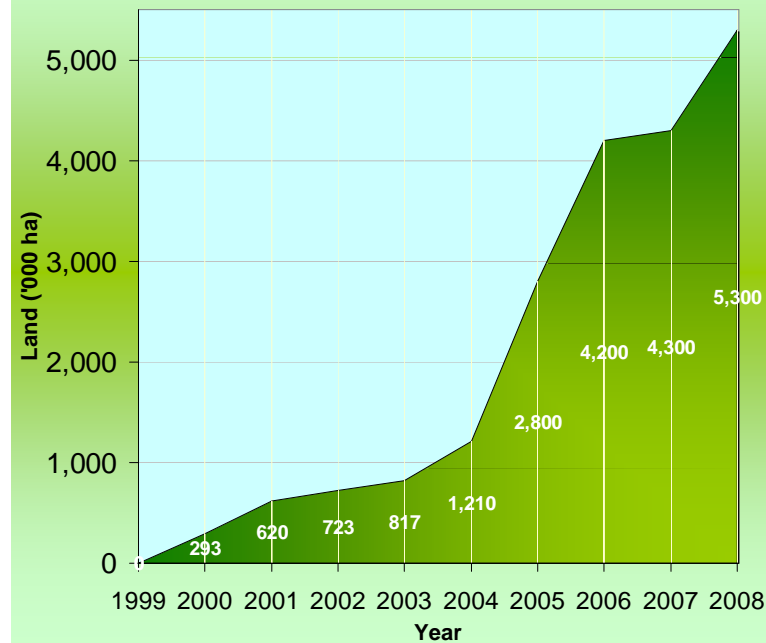


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Results and Achievements



**LAND UNDER CONSERVATION MANAGEMENT
1998-2008**



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Results and Achievements cont'd



- Over 6.3million hectares under improved conservation; average =588,000 ha annually
- Tanzania's current Annual rate of deforestation is estimated at 400,000* ha *(National Forests Policy 2002)
- Without USAID's targeted investments in critical areas this rate would be higher.



Results and Achievements cont'd



- By 2008, 12 WMAs out of the 16 under pilot were gazetted
- 6 WMAs have entered into business agreements worth over US\$ 3 million while other 8 are receiving over US\$ 250,000 annually from hunting fees;
- Conservation areas and knowledge have increased with species diversity improving;
- Living conditions in some rural areas with WMAs have improved (social services provided).





Results and Achievements – cont'd



Policies and Laws that integrate conservation and development applied:

- Facilitated and supported the development of a principal framework law on environment (EMA # 20 Cap 191 of 2004) of the laws of the country;
 - Formulation of key regulations
 - ICM action planning
- Supported the formulation and operationalization of the wildlife management area (WMA) regulations under the Wildlife Conservation Act
 - Supported and guided the WMA process and now 12 WMAs given Authorized Association (AA) status and
 - 8 WMA have been issued with user rights





Results and Achievements – cont'd



Policies and Laws that integrate conservation and development applied

- Resulted in secure land tenure and property rights for local communities through land use planning resulting in areas being demarcated and with a legal managing authority and titled;
- Formulation of National integrated coastal management (ICM) strategy
 - Supported the establishment of the first and only Coelacanth Protected Area in East Africa
 - Formulated Guidelines for (ICM)



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Results and Achievements – cont'd

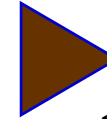


Conservation enterprises generate increased and equitable benefits from sustainable use of natural resources:...

- creation of new conservation enterprises that generate increased economic wealth
 - Expansion of micro business enterprises into tour guiding, beeswax, sunflower oil/palm oil
- increased income generation from non-traditional income generation activities



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Ecosystem Services



- Biodiversity Conservation -
 - ✓ WMA
 - ✓ Ecotourism
- Watershed services
 - ✓ DAWASCO in Eastern Arc
- Carbon Sequestration
 - ✓ Efficient stoves
 - ✓ reforestation
- Water quality
- Pristine and natural Conditions

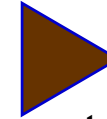


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Ecosystem Services – cont'd



- **Increased base flow in rivers**
- **Reduced storm flow off the land**
- **Reduced sediment yields in runoff**

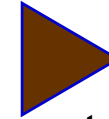


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Clean Water



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CHALLENGES - ENCHROACHMENT



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Key Issues/Challenges



- **Definition: What is ES and what is not an ES?**
- **Benefits capture /Trade offs not well analyzed**
- **Equity Issues/Negative spin offs for non participants**
- **Attribution: particularly biodiversity**
- **Lack of science: hydrology studies to support WS**
- **Lack of Capacity/Institutions /High transaction costs**
- **Few legal and policy changes have been made to accommodate ES as tradable commodity,**

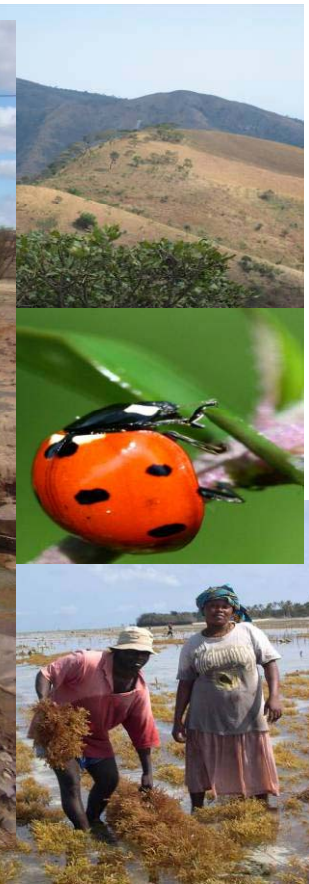




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From this!



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To This!



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