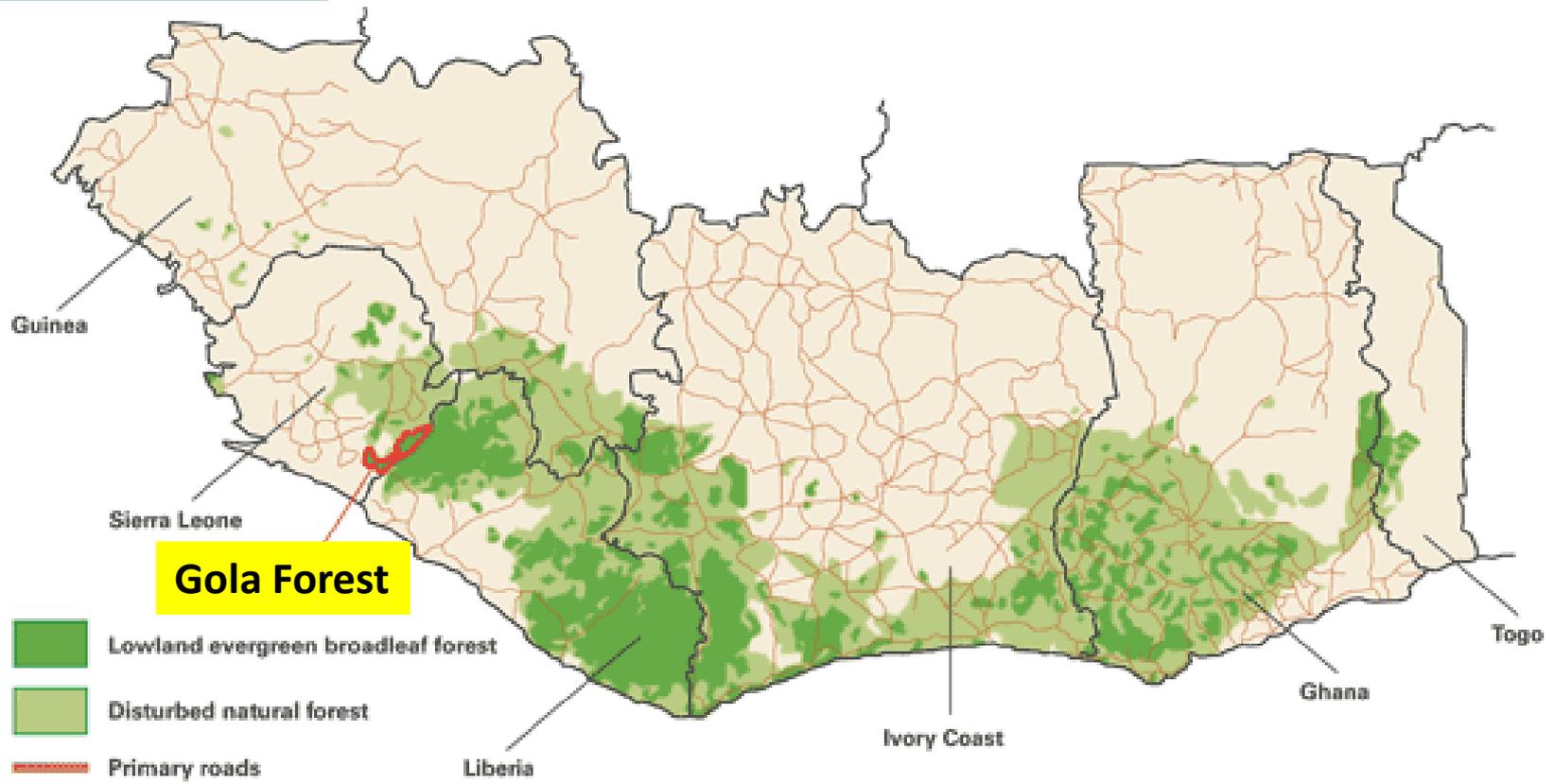


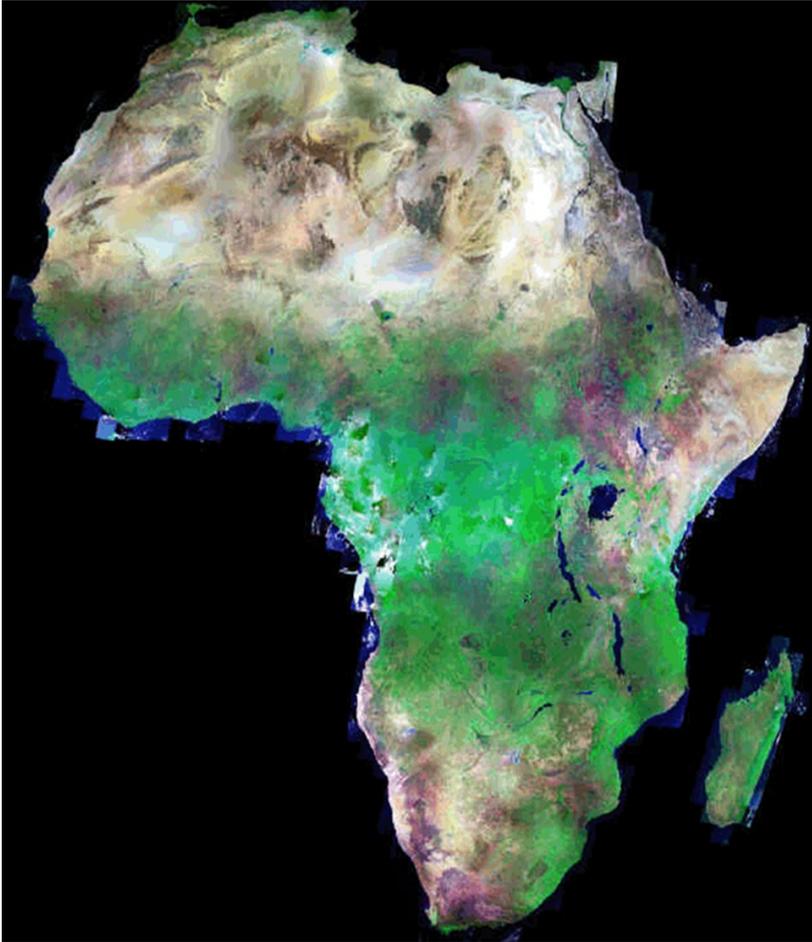
Enhancing cross-scale Linkages for Biodiversity Conservation in Africa

Mohamed Imam Bakarr

AU/ABCG Diaspora and Nature Event - May 21, 2013



Main Messages



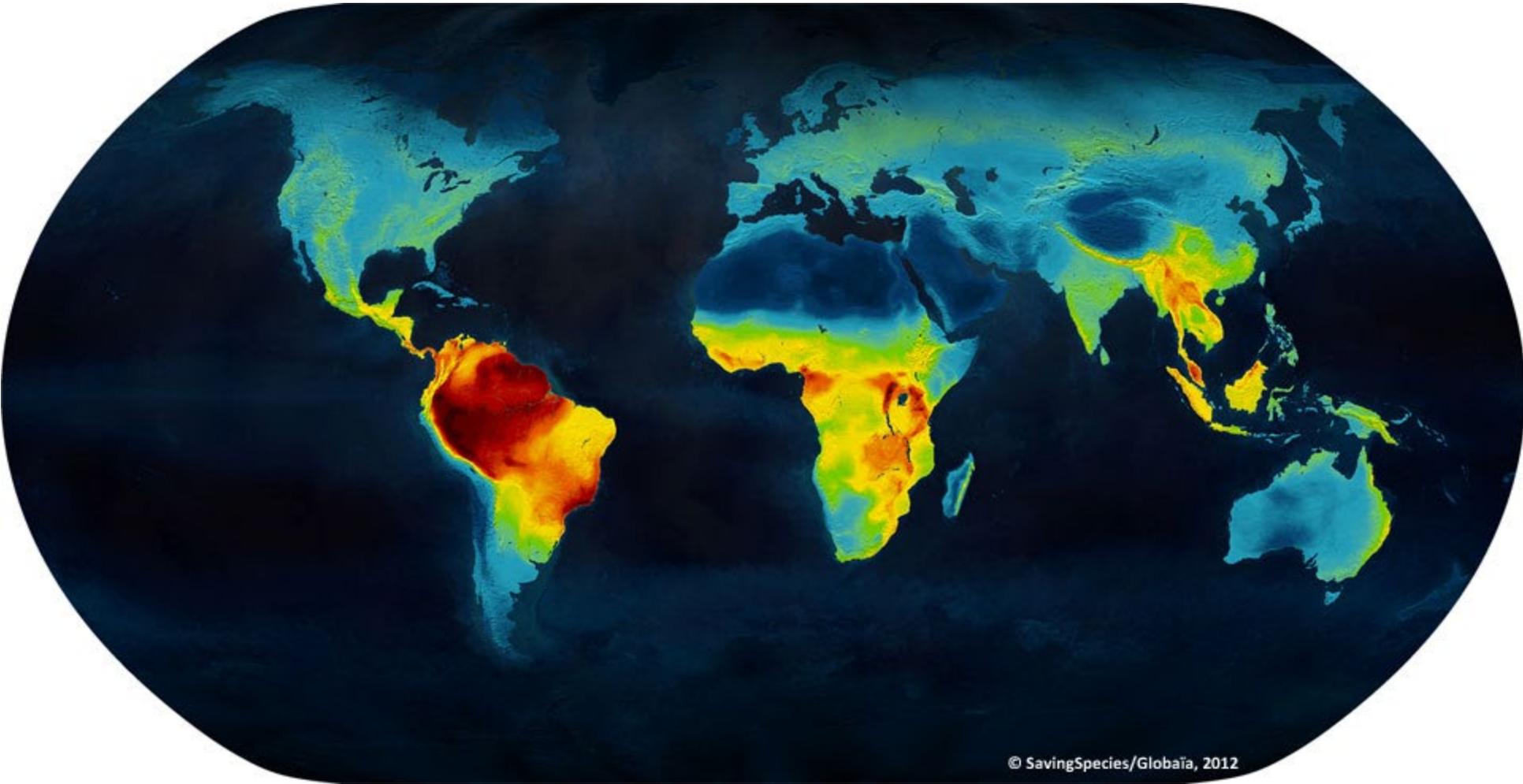
- African Biodiversity – asset for development
- Multi-scale challenges
 - Protected areas
 - Wildlife Exploitation
- Looking Ahead
 - Ecosystem services and Human well-being

African Biodiversity: Foundation for the Future

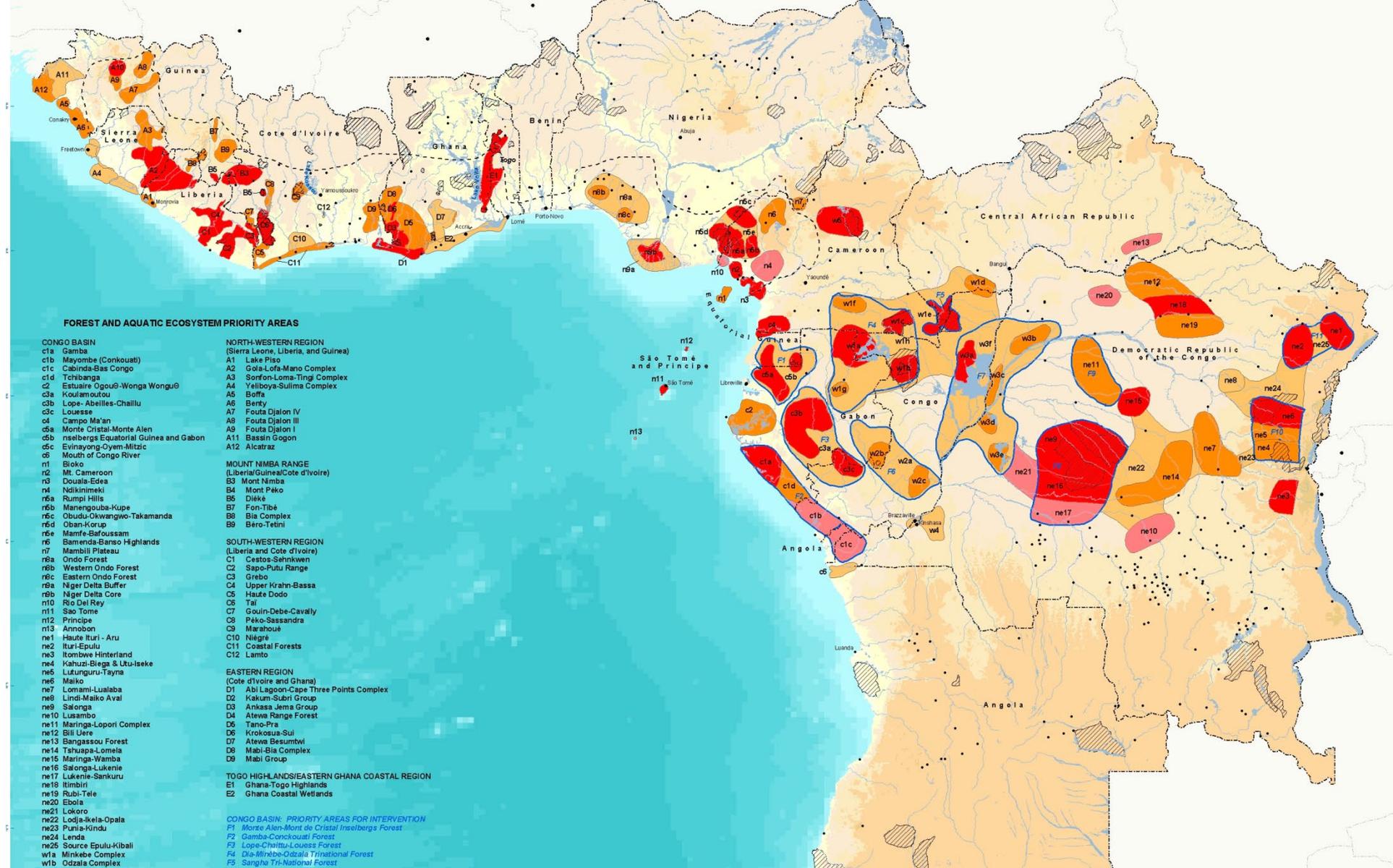
Biodiversity Support Program



Global Distribution of Vertebrate Species



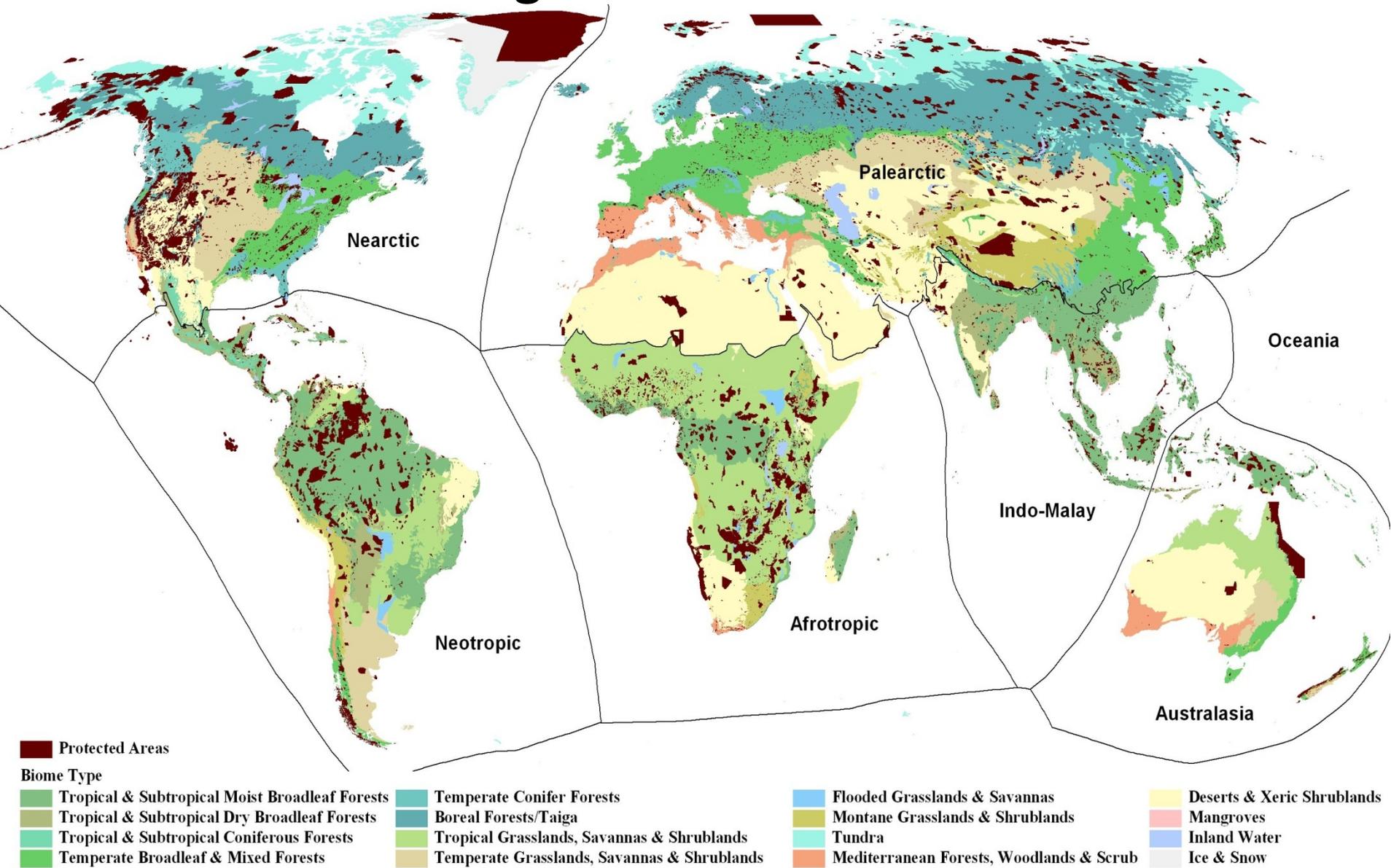
Source: <http://savingspecies.org/2012/stunning-new-biodiversity-maps-show-where-to-prioritize-conservation/>



Conservation Priorities in Western and Central Africa
(Courtesy of CI and WWF-US)

PROTECTED AREAS....

Global coverage of Protected Areas in 2003



Source: Rodrigues et al. 2004; *Nature*

Vth World Congress on Protected Areas

Durban, South Africa

Build comprehensive PA Systems

Management
effectiveness

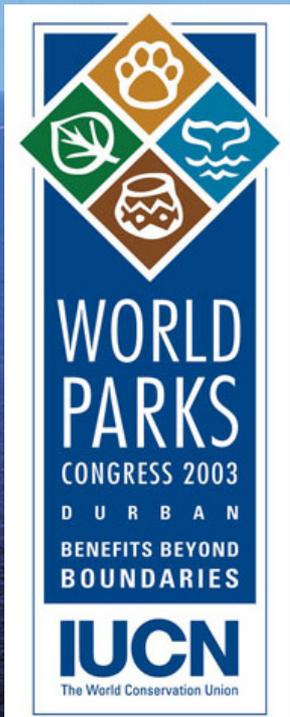
Capacity building

Finance &
Resources

Building awareness
& support

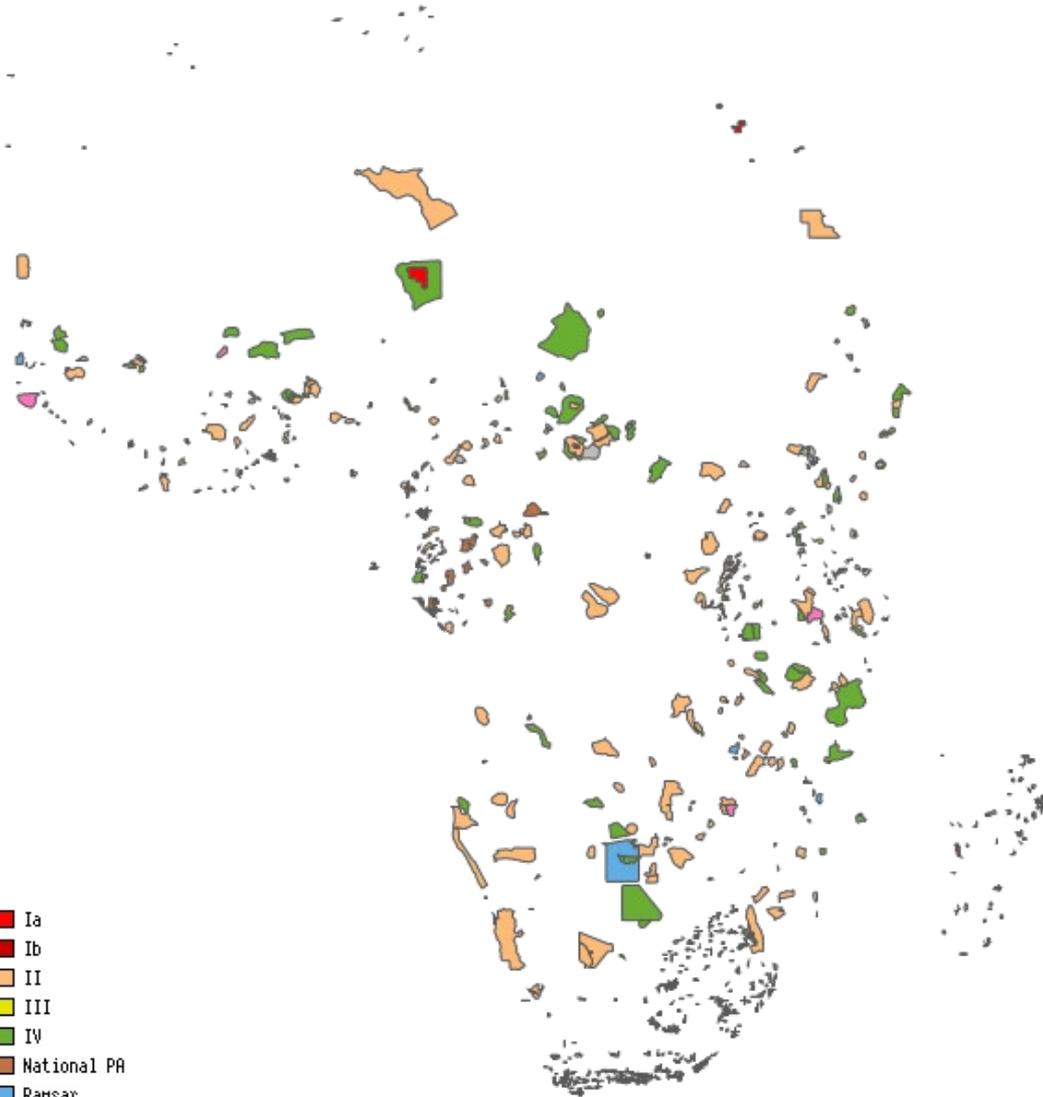
Governance

Linkages in the
Landscape

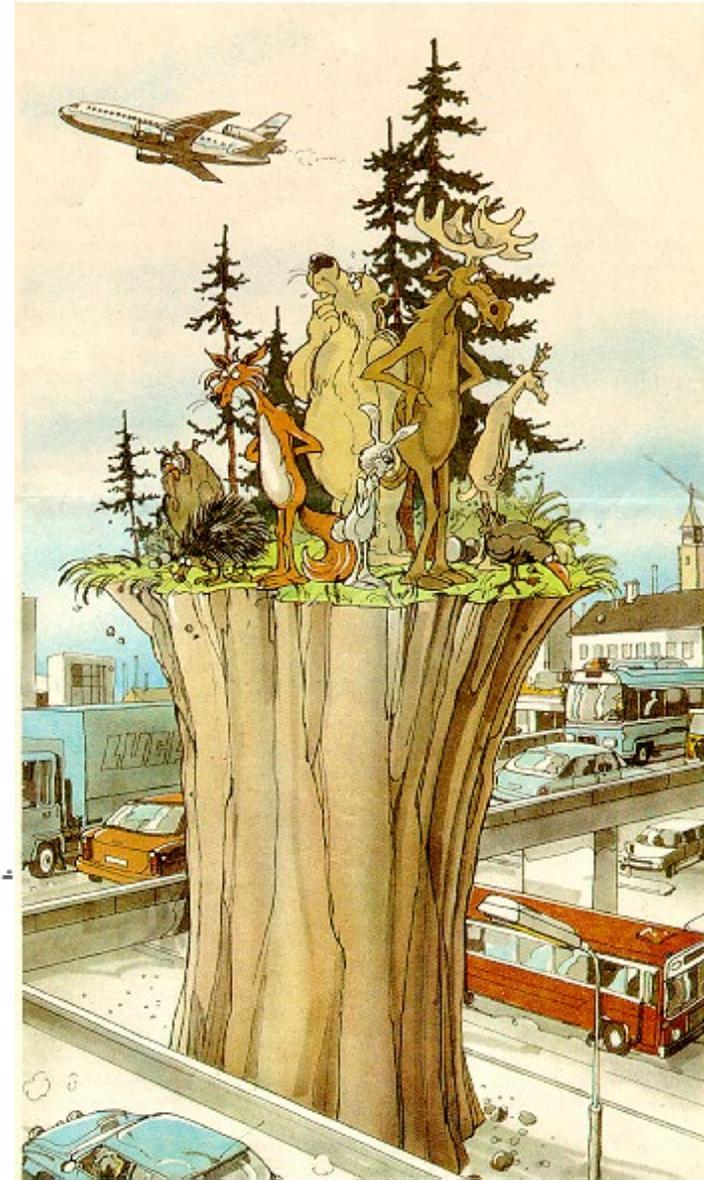


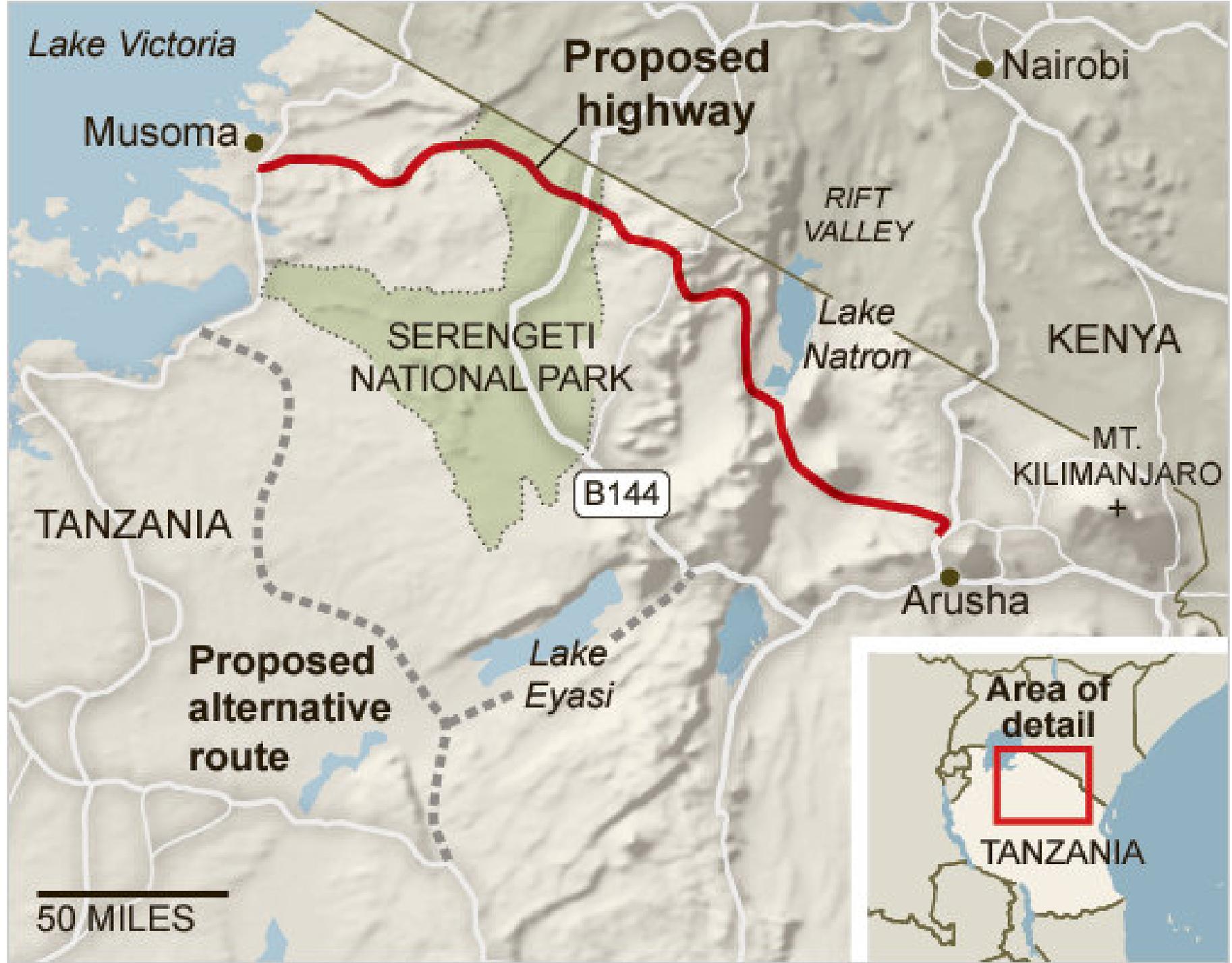
8 - 17 Sept 2003

African Protected Areas

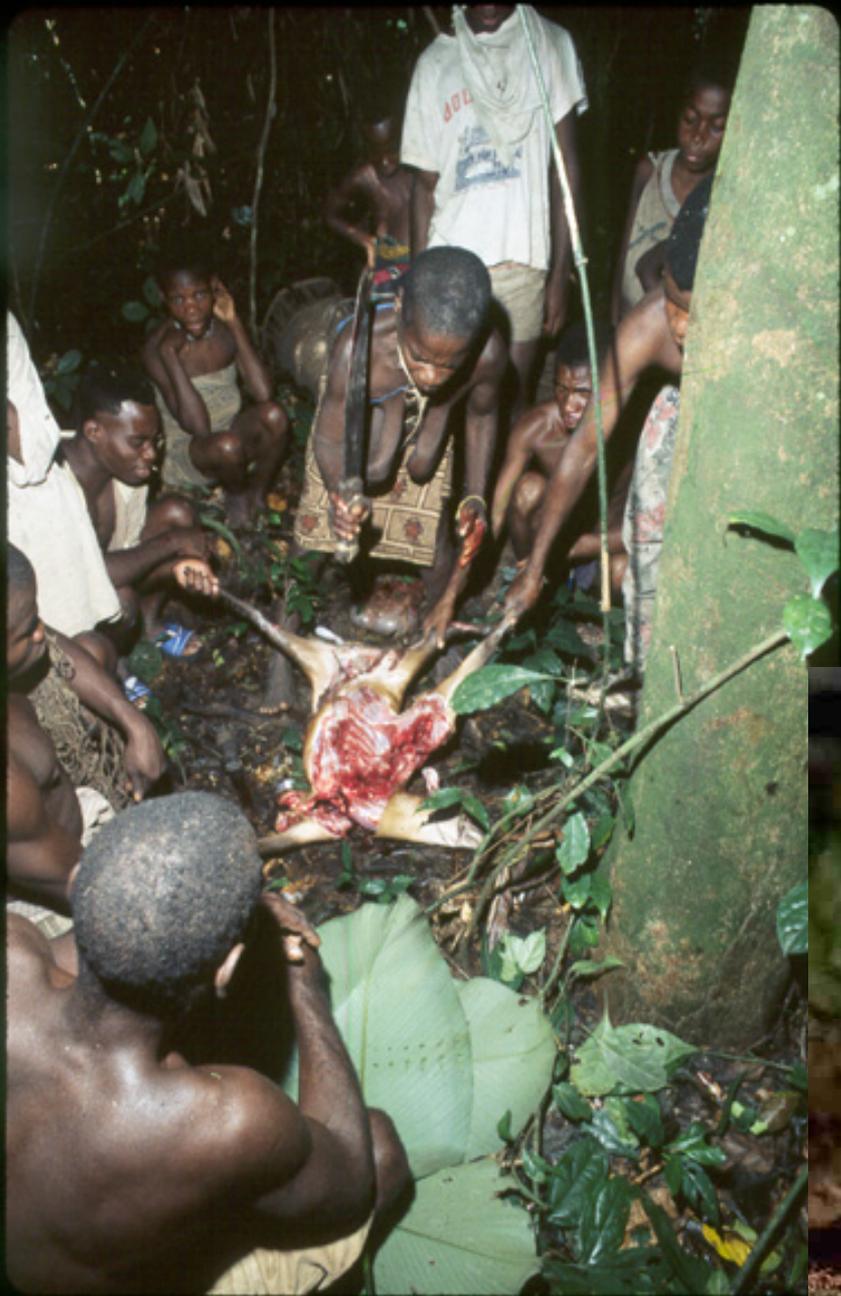


- Ia
- Ib
- II
- III
- IV
- National PA
- Ramsar
- UNESCO
- Unset

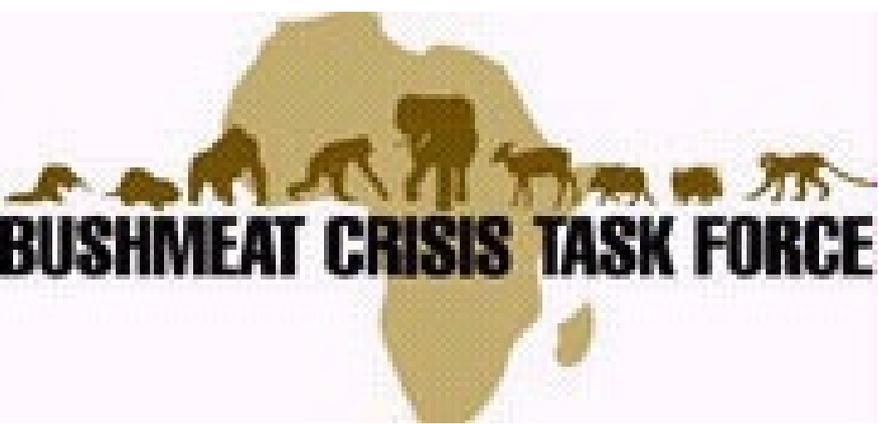




WILDLIFE EXPLOITATION....







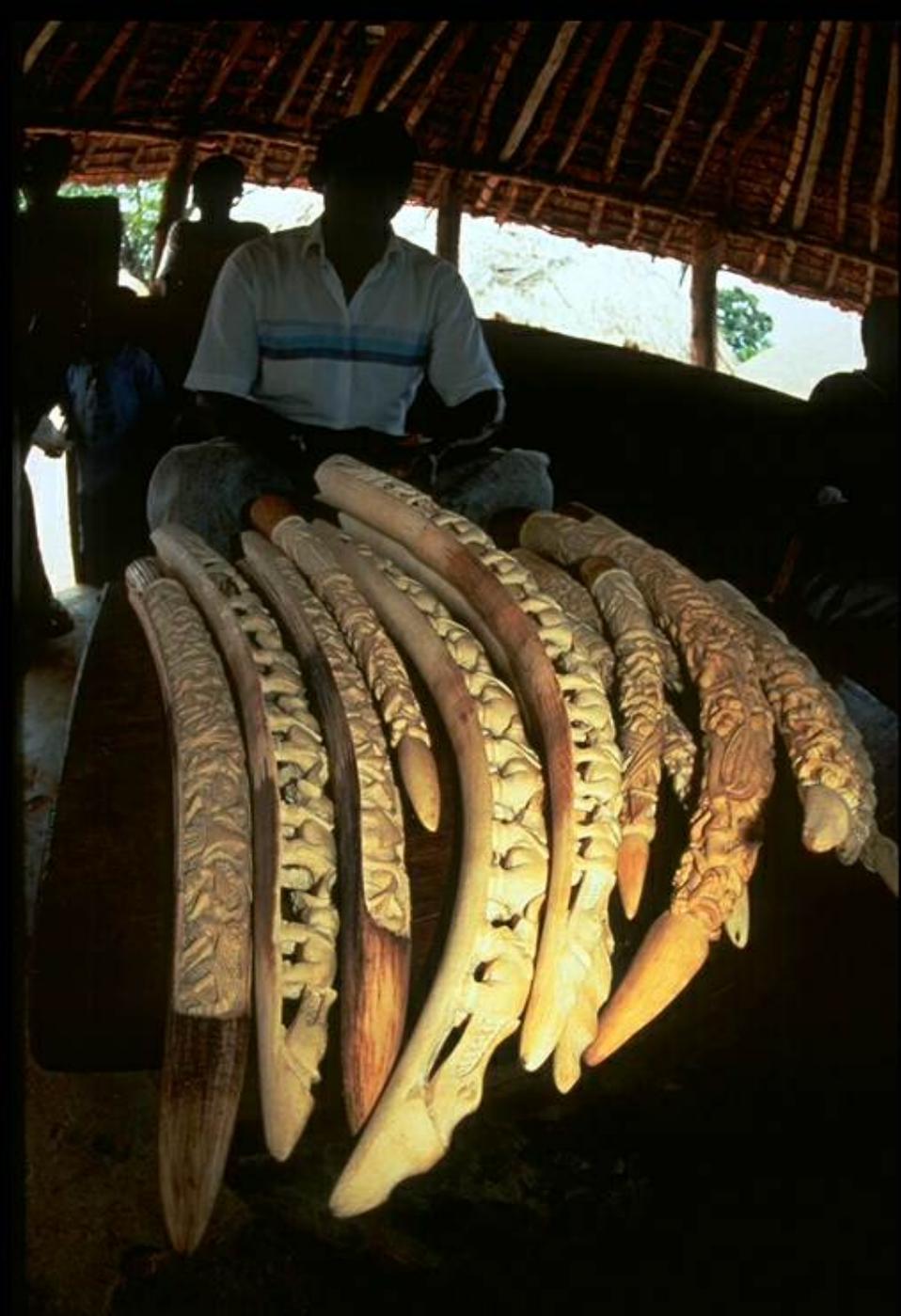
HUNTING AND BUSHMEAT UTILIZATION IN THE AFRICAN RAIN FOREST

Perspectives Toward a Blueprint for Conservation Action

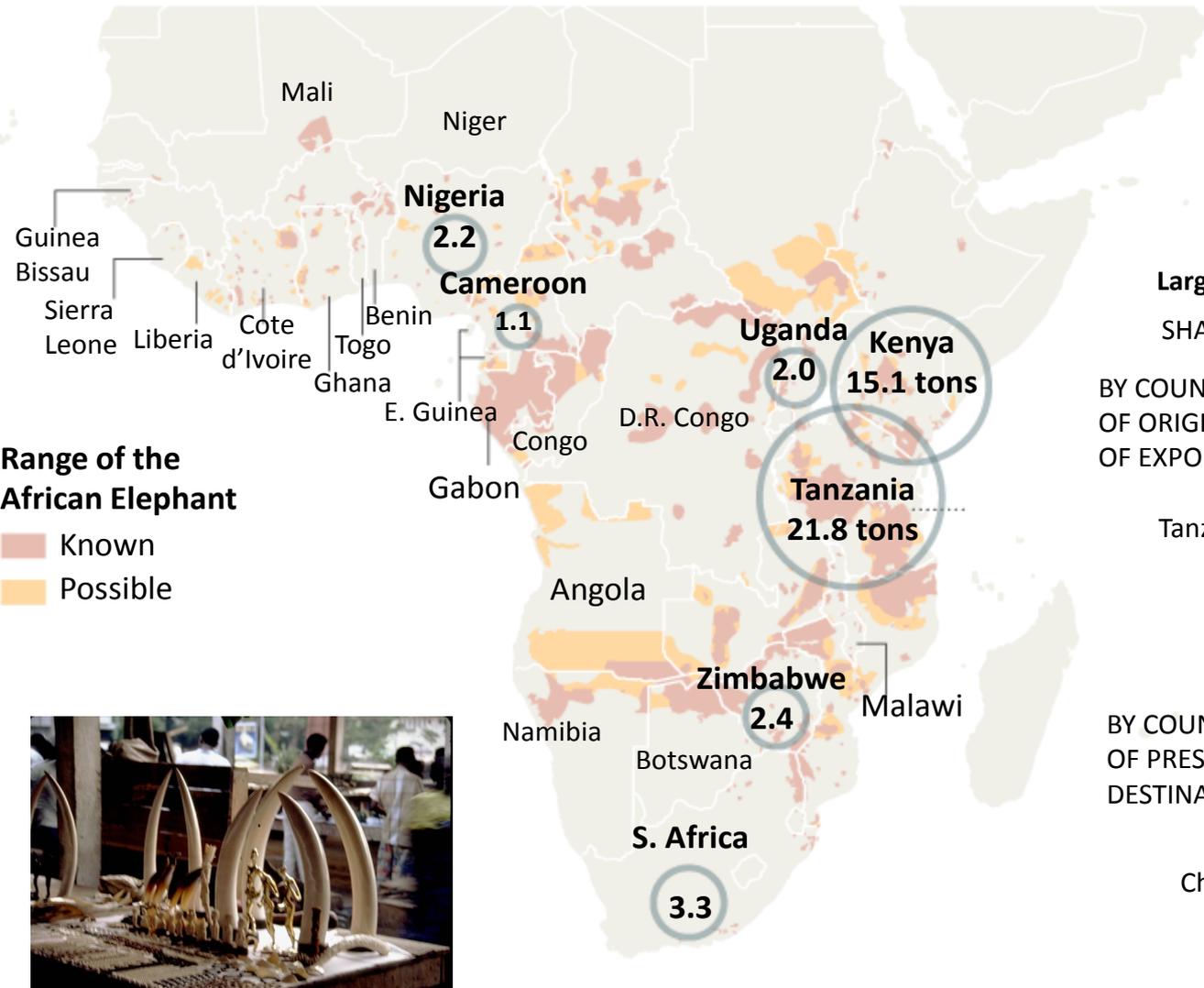


Mohamed I. Bakarr
Gustavo A. B. da Fonseca
Russell Mittermeier
Anthony B. Rylands
Kristen Walker Painemilla

CENTER
FOR APPLIED
BIODIVERSITY
SCIENCE
AT CONSERVATION
INTERNATIONAL



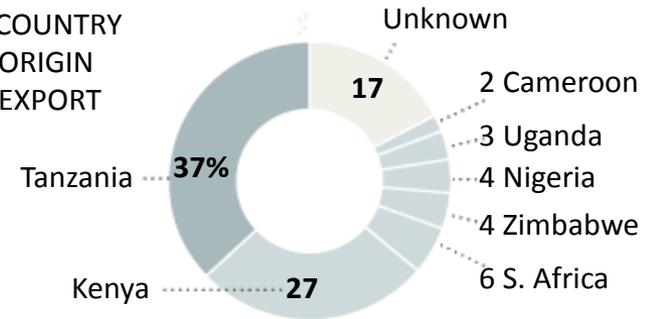
Africa and the Illegal Ivory Trade



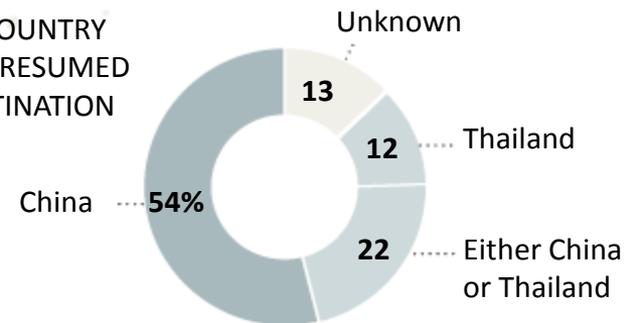
Large-scale ivory seizures, 2009-11

SHARE OF SEIZED SHIPMENTS BY WEIGHT

BY COUNTRY OF ORIGIN OF EXPORT



BY COUNTRY OF PRESUMED DESTINATION

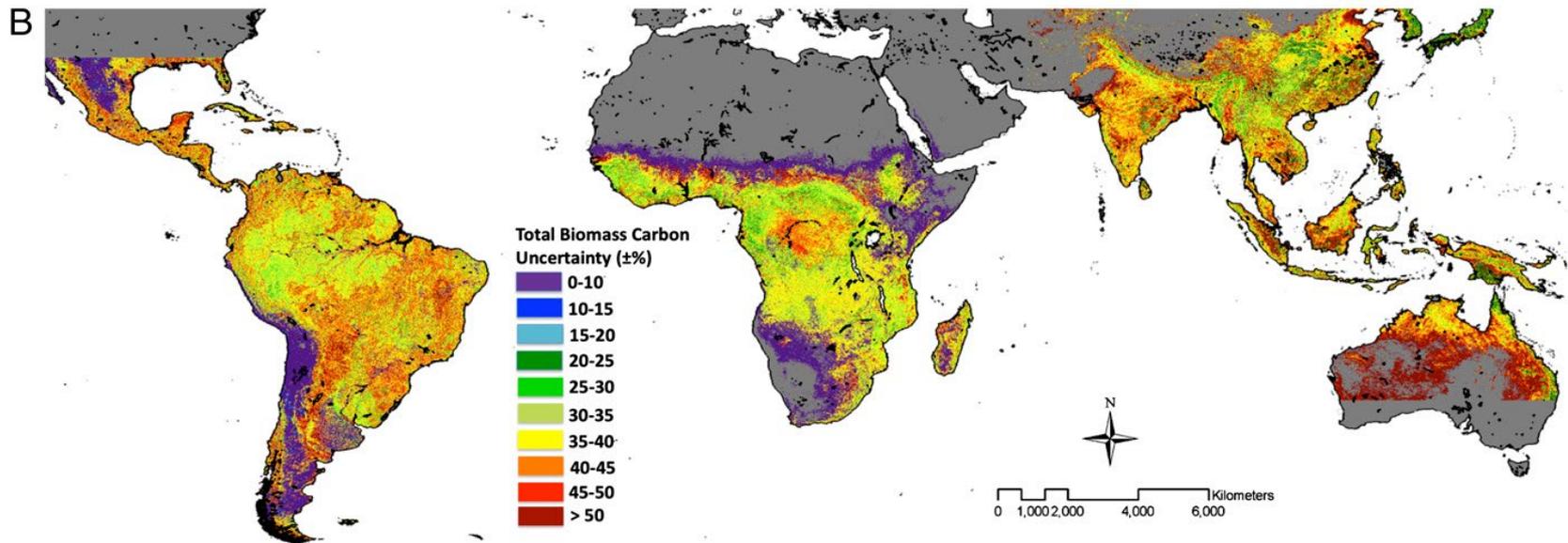
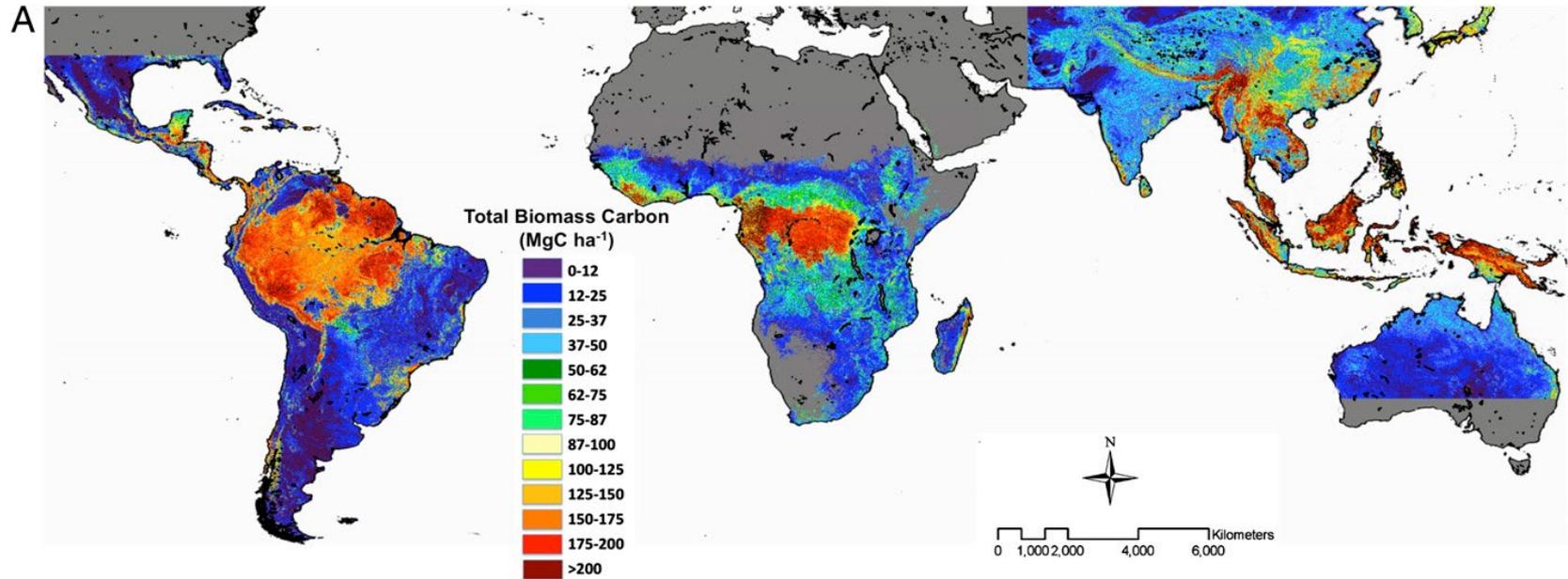


LOOKING AHEAD.....African Biodiversity

→ Human well-being in Africa; and

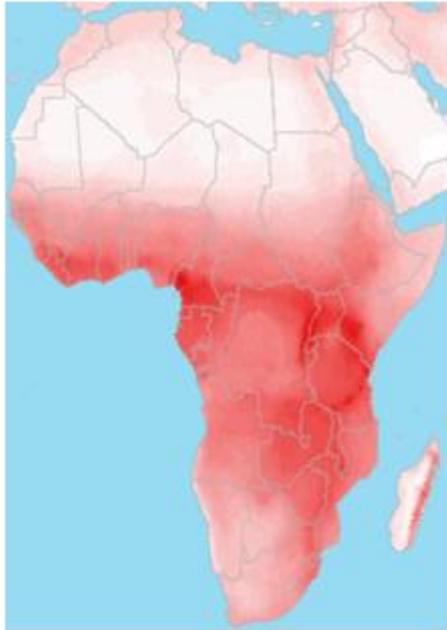
→ Safeguarding the Global Environment

Carbon Stored in Earth's Tropical Forests



Source: NASA/JPL-Caltech/UCLA/Winrock International/Colorado State University/University of Edinburgh/Applied GeoSolutions/University of Leeds/Agence Nationale des Parcs Nationaux/Wake Forest University/University of Oxford; (Source: Saatchi et al. 2011 PNAS)

Ecosystem Services and Human Well-being



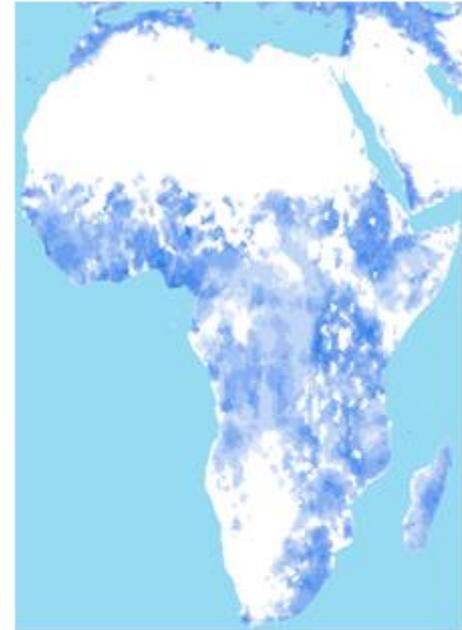
Species richness
(all mammals, amphibians, turtles, and threatened birds from CI/IUCN/BirdLife)



Threatened endemics
(mammals, amphibians, turtles, and birds; summed range-size rarity; WRT analysis)

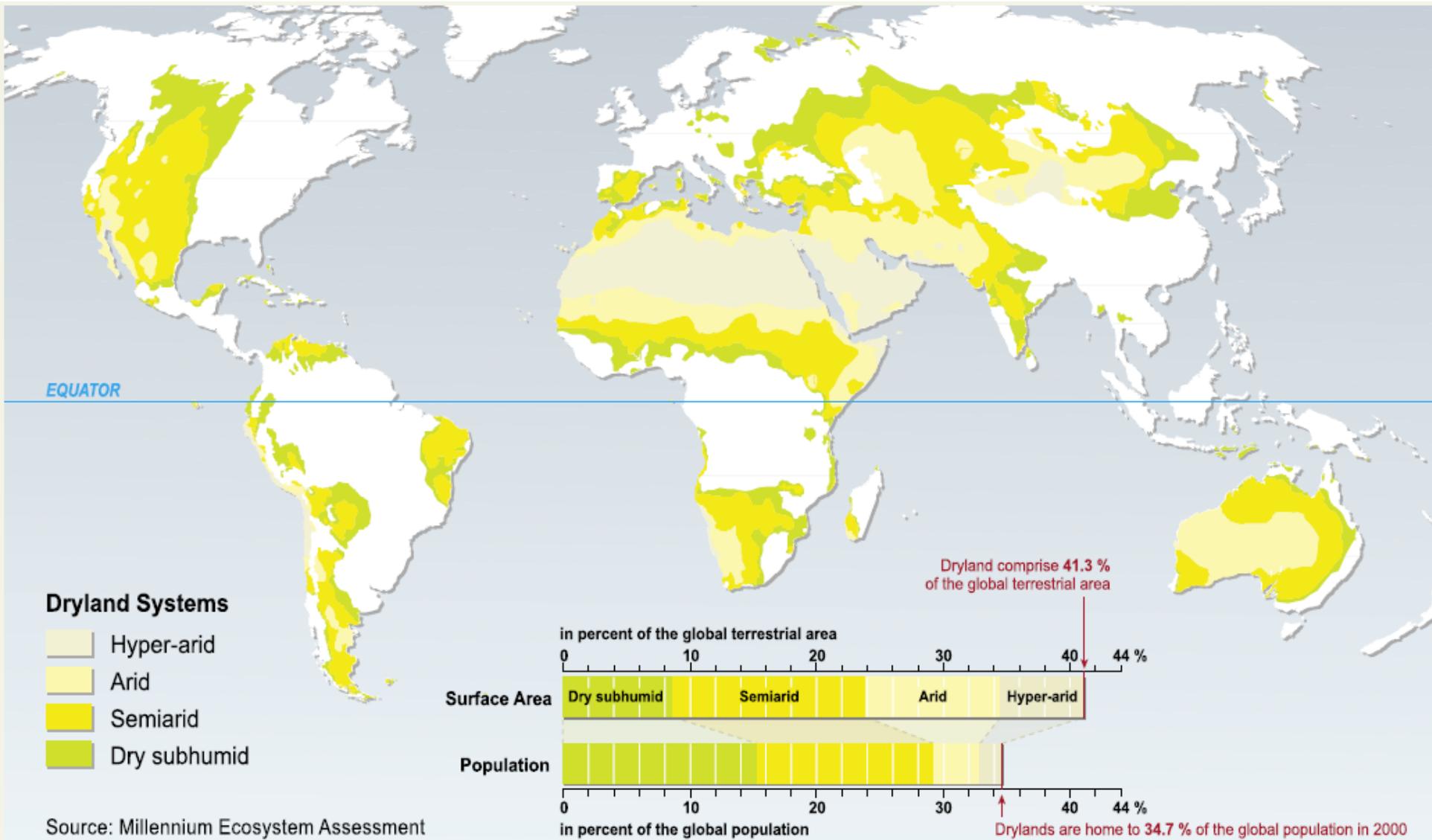


Malnourished children
(# children/area; CIESIN)



Freshwater service
(clean water delivered to downstream human populations by natural habitats; WRT analysis)

Hyper-arid ← People → Sub-humid



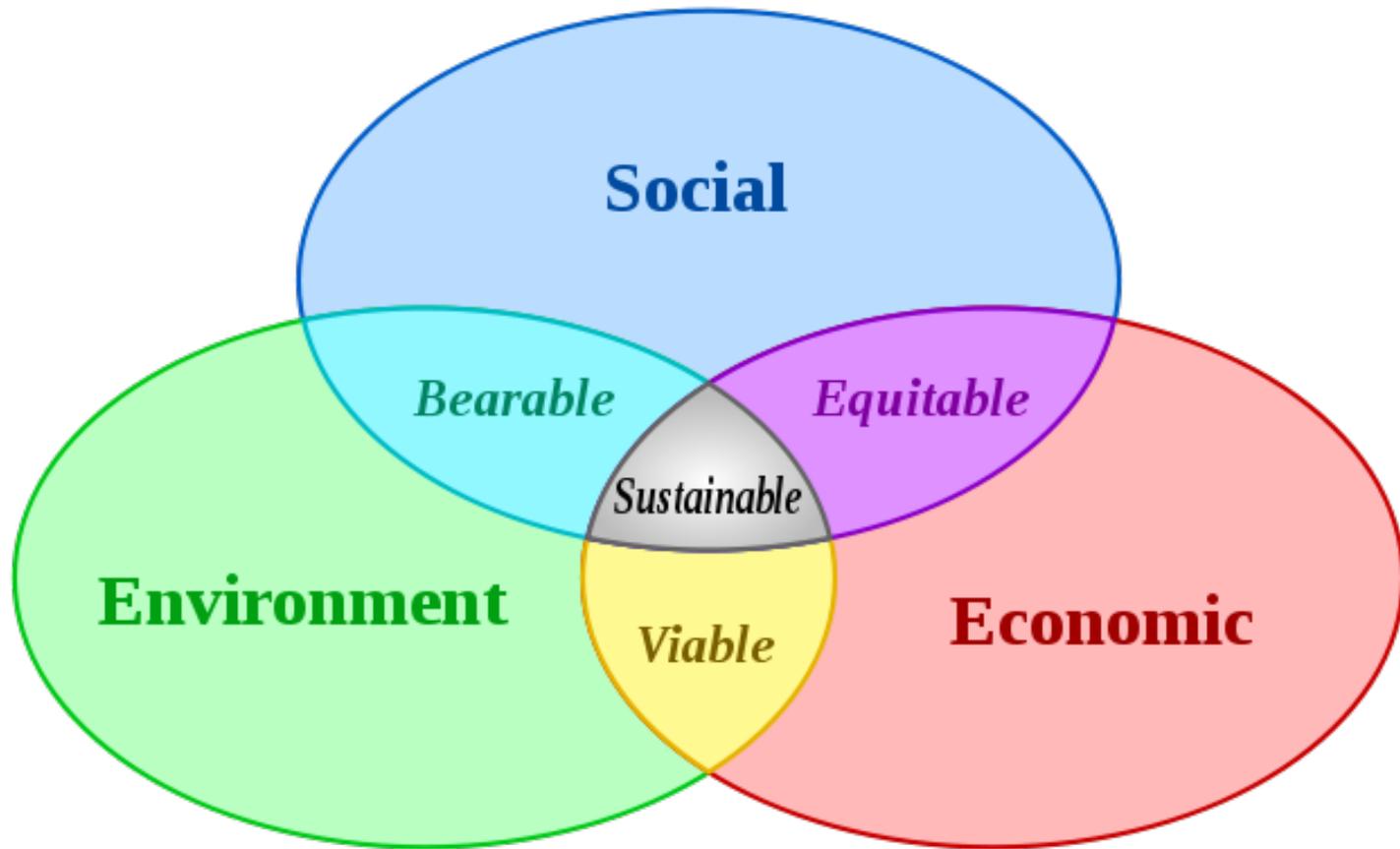
The Great Green Wall Initiative



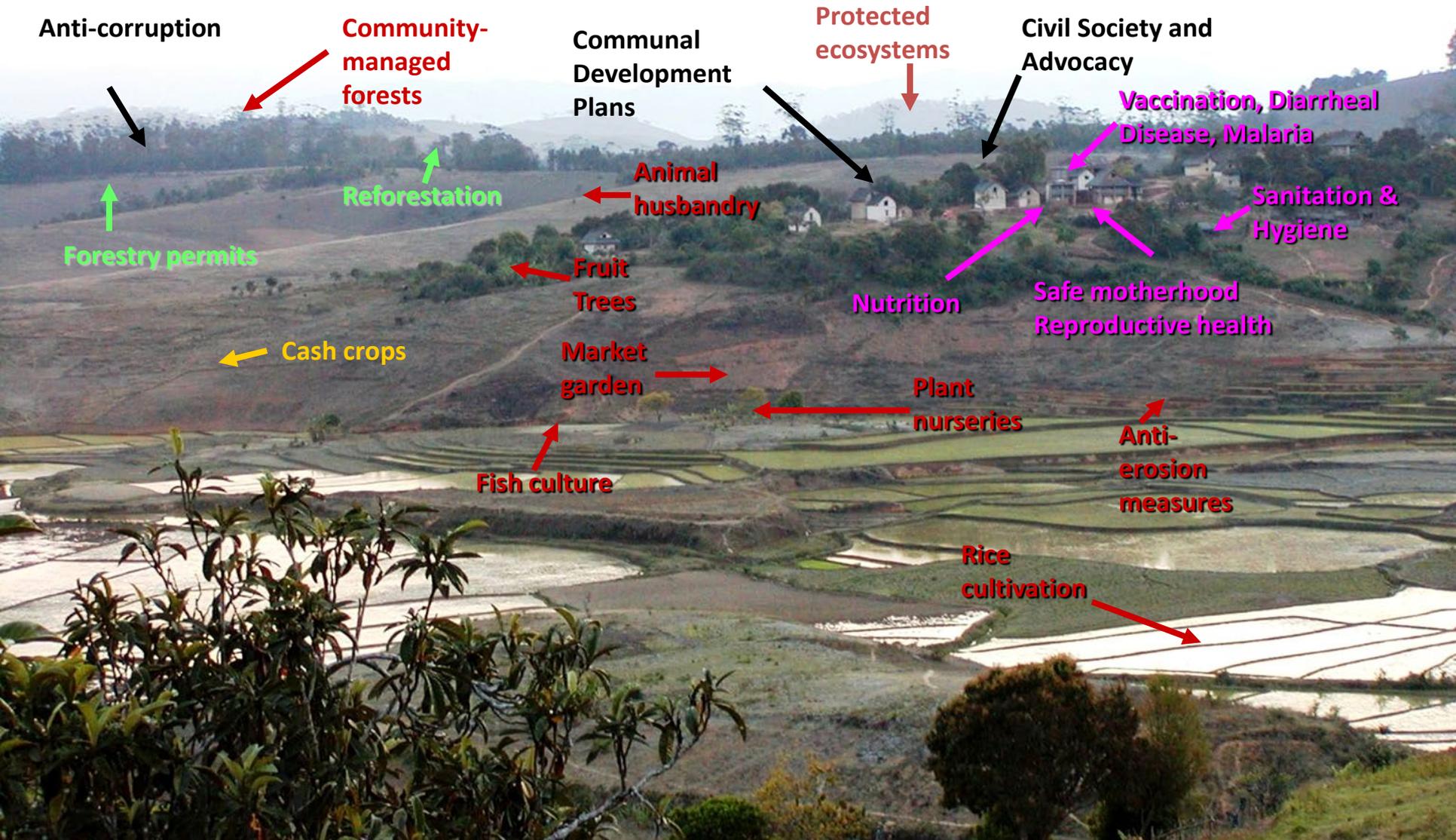
Resilience is key → “Integrated” approaches

- sustain ecosystem service flows
- diversify land use
- safeguard high value species
- protect ground and surface water resources
- traditional/indigenous practices

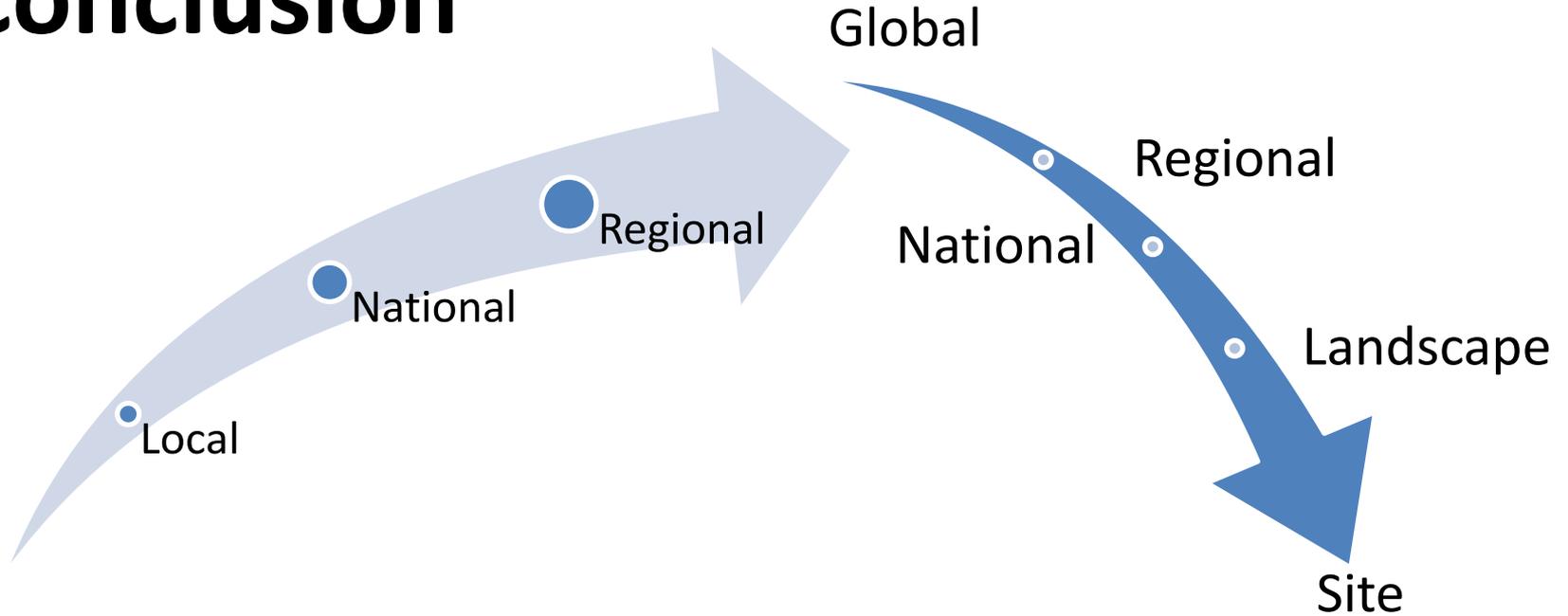
Coupled Human-Ecological Systems



Holistic Approach at Landscape Level



Conclusion



BRIDGING ACROSS SCALES.....

.....ROLE FOR THE DIASPORA