Science informing policy and setting the stage for responsible ecotourism in the Gran Caldera Scientific Reserve, Equatorial Guinea



Bioko Biodiversity Protection Program

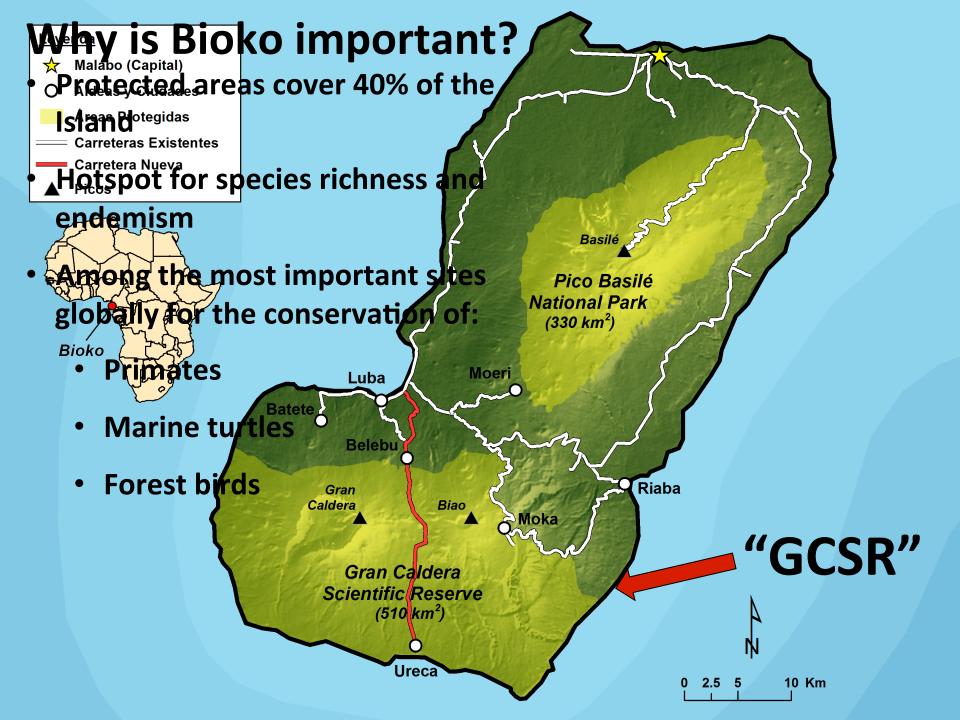




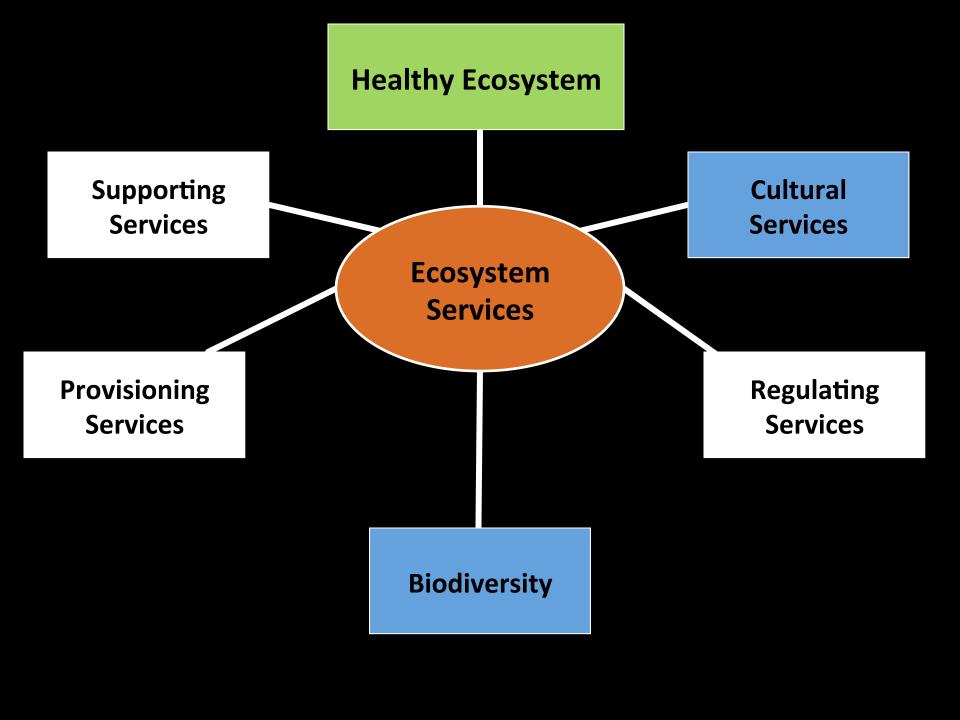












### Why is Bioko's biodiversity important?



**Monkeys:** High densities of seven species of endangered monkeys live in Bioko's forests.

"Bioko Island is the single most important place in Africa for primate conservation action."

-- IUCN/SSC Primate Specialist Group



**Nesting sea turtles:** Four species of sea turtles nest on the ~12 miles of Bioko's southern beaches, including many leatherbacks and green turtles.



**Frogs:** Bioko's deep mountain valleys and high rainfall are very conducive to frog speciation. Frogs are also very sensitive to changes in climate.

# How does biodiversity create a healthy ecosystem?

1. Large numbers of healthy primate, bird, and small mammal populations

2. Bigdiversity a broad area for seed dispersal

3. Greater plant success and diversity



# **Negative Cascading Effects**



Increased hunting activity in GCSR



Decreased primate populations



Decreased seed dispersal (over area and species)



Decreased biodiversity



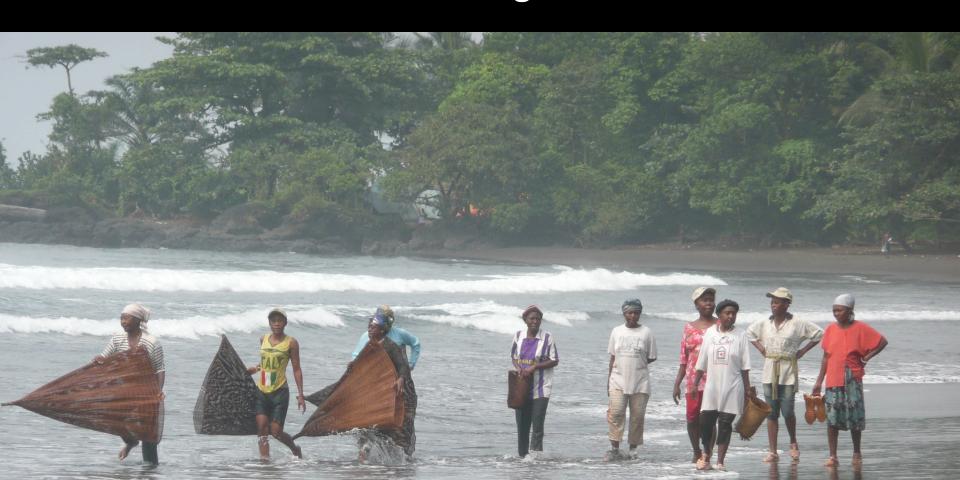
Degradation of ecosystem services



Collapse of local communities



- Abudant food resources
- The last traditional Bubi village is in the GCSR



 The Bioko Biodiversity Protection Program (BBPP) employs and trains local citizens as biomonitors



 Serves as a venue to teach the public about the value of protecting their ecosystem



 A focal point for collaboration for the National University of Equatorial Guinea (UNGE) to create leaders of the next generation knowledgeable in conservation





- Moka Wildlife Center
  - Several annual university courses and educational outreach for school-aged children



- Two seasonal camps on the GCSR beaches
  - Primate censuses, monitoring of nesting turtles & other research projects





Ecotourism



Micro-enterprising







# Translating ecosystem services to improve GCSR protection



Bioko Biodiversity Protection Program Strategic Plan

July 2014









#### El Futuro de la Reserva Científica de la Gran Caldera

Traduciendo la ciencia en la normativa para desarrollar un plan de manejo eficaz para la Reserva Científica de la Gran Caldera



Versión 1.0 - Mayo 2015









OPORTUNIDADES PERDIDAS: EL RAPIDO DETERIORO DEL ESTADO DE LA CONSERVACION DE LOS MONOS DE LA ISLA DE



Un informe preparado por el Programa de Protección de la Biodiversidad de Bioko (BBPP), en el marco







Work with UNGE to advise the Government of Equatorial Guinea on best conservation practices

- Improve international engagement
  - Creating new partnerships with international research and educational organizations to promote regional cooperation





# A promising future

Low human population density

Steep, intact habitat

Successful academic partnership

Increasing Gradual Report of the Act of the





### Acknowledgements







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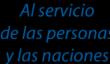










































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The towns of Ureca and Moka. All of our students, volunteers, collaborators, friends, and partners.

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