



Implementation of blue forests science

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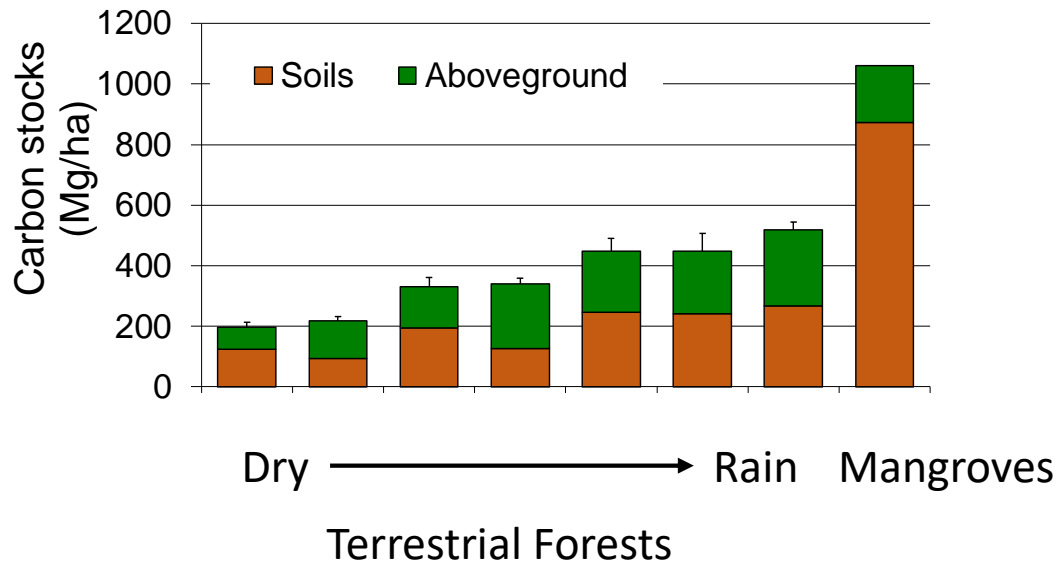
CATIE

Blue Forests Cross-Training Workshop

23 – 26 January 2017, Panama City, Panama

Why Blue Carbon?

- Provision of ecosystem services
- High carbon accumulation rates and storage
- Heavily threatened ecosystems
- Sources of considerable GHG emissions



International Blue Carbon Initiative



- Recognizes value of coastal-marine ecosystems in climate change
- Guiding principles for mitigation, adaptation & policy work in the region



CATIE's “building blocks”

A cohesive package of scientific research & policy promotion

1. Carbon inventories in mangrove & associated ecosystems
2. LULUC geospatial and emissions modeling
3. Social and ecological vulnerability
4. Valuation of ecosystem services
5. Promoting capacities & disseminating knowledge
6. Development of national policy frameworks
7. Promoting regional networks of practice

Regional actions

Action	GT	HN	ES	CR	PA	DR
C inventories	X	X	X	X	X	X
LULUC dynamics	X	X	X	X	X	X
Ecosystem services			X	X		
Valuation			X	X		
Vulnerability				X		
Policy facilitation		X	X	X	X	X
Management/ restoration			X		X	X

Impacts in Central America

- **Technical – Regional**
 - Methods development
 - Capacity building
 - Basic science & data
 - Collaborations (PA, ES, HN)



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Manual Centroamericano para la Medición de Carbono Azul en Manglares

Describe los métodos y buenas prácticas para el
diseño de inventarios forestales de carbono azul
para manglares de Centroamérica.



Impacts in Central America

- **Social** – *Costa Rica, Panama, El Salvador, Honduras*
 - Strengthened national capacities
 - Local communities empowered to conserve mangroves
- **Economic** – *Costa Rica*
 - Preliminary estimate of loss of mangroves natural capital
 - Valuation studies elsewhere
 - Foundation for PES schemes

Impacts in Central America

- **Conservation** – *El Salvador, Costa Rica*
 - Mangroves under sustainable management doubled
 - Strengthened management & restoration projects
- **Strategic** – *Regional*
 - **Blue Carbon** notions increasingly recognized
 - Technical assistance requests increasing
 - Growing number of partners/actors

Growing number of actors

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**CONSERVATION
INTERNATIONAL**



cooperación
alemana

DEUTSCHE ZUSAMMENARBEIT

Implementada por

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

BIOMARCC
PROYECTO Biodiversidad Marina Costera en Costa Rica, Desarrollo
de Capacidades y Adaptación al Cambio Climático.

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MARN

Ministerio de Medio Ambiente
y Recursos Naturales



Al servicio
de las personas
y las naciones

 **blueforests**



Ciudad del Saber
PANAMA
City of Knowledge

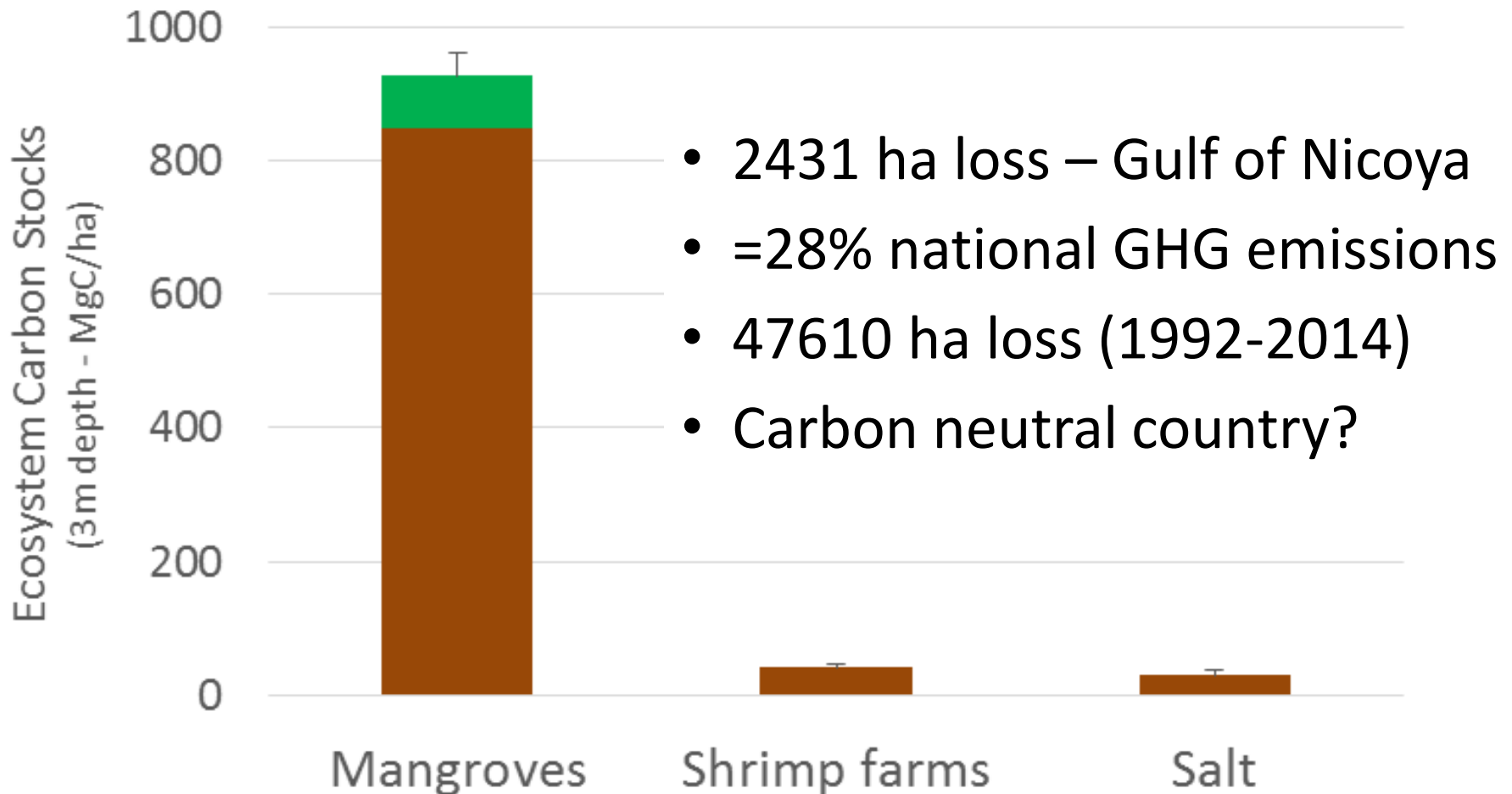
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BANCO DE DESARROLLO
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Lessons learned

- The power of data – Costa Rica example



Lessons learned

- The power of data
- “Champions” are needed
- Need to develop basic knowledge and “shared language”
- Emphasis on mitigation is limiting
 - Local needs at odds with global/regional priorities
- Need to promote collaborations to broaden impacts

Specific needs

Science

- Methods
 - Long-term stocks vs. fluxes
 - Local capacity
- MRV systems (REDD+)
 - AD & EF
- GHG inventories
- Restoration know-how

Policy & finance

- Decision makers understand and internalize topic
- Policy instruments & financial mechanisms
 - NAMA, REDD+?
- Options & cost analyses

Challenges and way forward

- Continue enhancing technical capacities
- Projects need to be designed and implemented
 - Mitigation & Adaptation goals + Restoration
 - Strengthen local livelihoods & development
 - Financial mechanisms
- Promoting political understanding and buy-in
- Policy frameworks are lacking to facilitate implementation



¡The future is blue!

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