



平成26年度（第23回） ブループラネット賞  
受賞者記念講演会

---

2014 Blue Planet Prize  
Commemorative Lectures

ロドリゴ・ガメス・ロボ博士(コスタリカ生物多様性研究所代表)

### 講演スライド集

「生物多様性の価値についての社会認識を  
いかに向上させるか：  
コスタリカ生物多様性研究所の実績」

Dr. Rodrigo Gamez Lobo  
( President, Instituto Nacional de Biodiversidad )

### Slides for the Lecture

“How to promote awareness of the value  
of biodiversity in a society:  
The experience of  
Costa Rica’s National Biodiversity Institute“





How to promote awareness of the value of biodiversity in a society:

The experience of Costa Rica's National Biodiversity Institute



Between continents; between oceans



# Costa Rica

51.000 sq. km continental territory

510.000 sq. km. marine territory

## A biodiversity rich country



# Why a biodiversity institute for Costa Rica?



## National Biodiversity Conservation Strategy

National System of Conservation Areas.  
National Forestry Fund (PES).



INBio, National Universities,  
National Museum, Organization  
for Tropical Studies.

Bioprospecting, Agriculture-  
Agrobiodiversity, Ecotourism.

# INBio was born in 1989



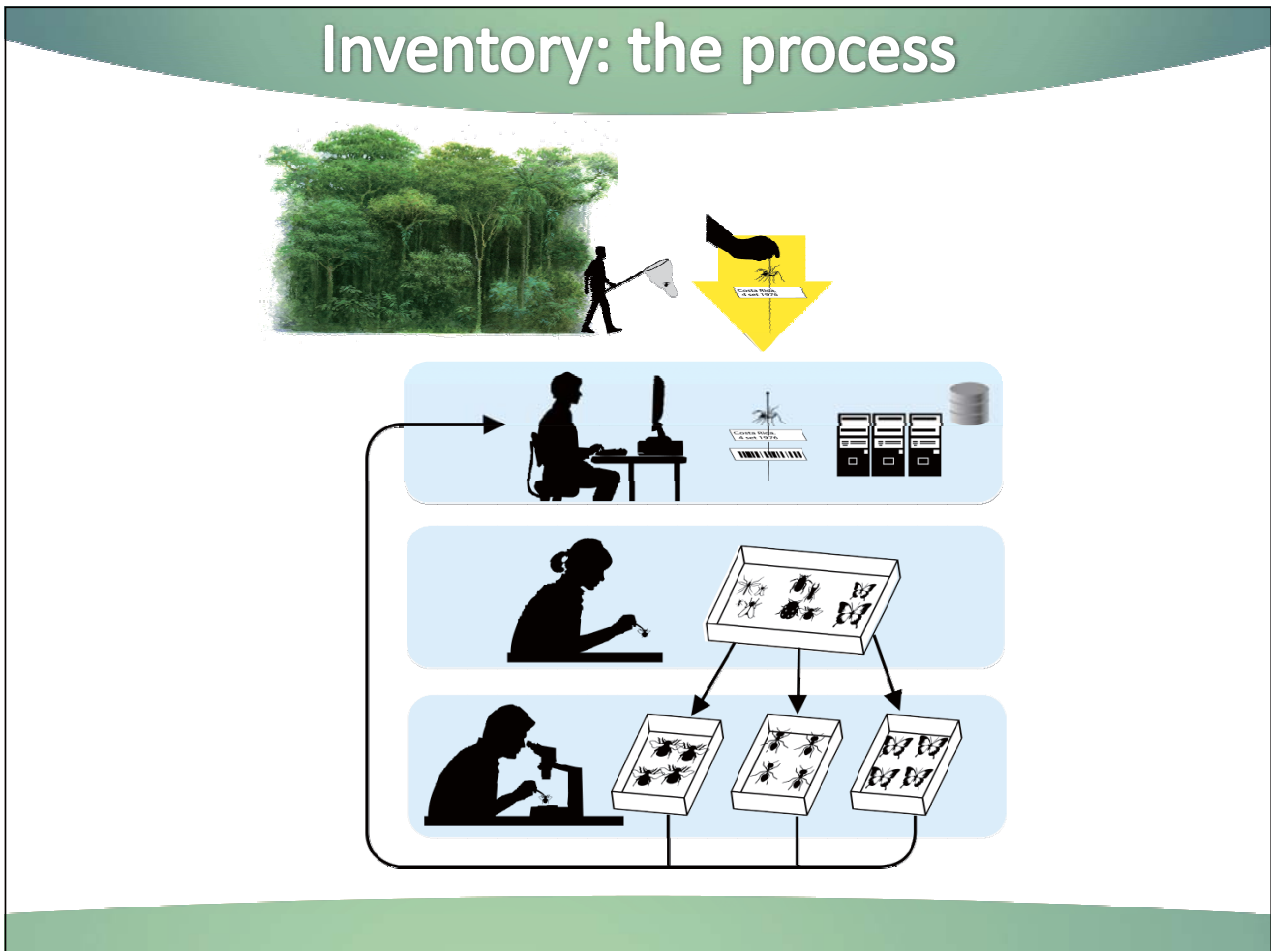
# The main actors



# From nature to society



# Inventory: the process



# Inventory: the results



- An innovative inventory methodology
- Over 3.6 million specimens collection
- 29.413 species for Costa Rica, 3.702 new to science
- 30.000 < DNA barcoded specimens
- Scientific publications
- A library of the wild biodiversity of the country

# Biodiversity informatics: the process





# Biodiversity informatics: the results

**National and International Partners**

**Biodiversity Informatics**

**Other Sources of Information**

**Inventing and Monitoring**

- Atta, the biodiversity information management system
- A 100% digitized barcoded systematic collection
- A Costa Rican Encyclopedia of Life
- Over 21,000 page views per day

# Education/bioliteracy: the process



# Education/bioliteracy: the results



Inventing and Monitoring

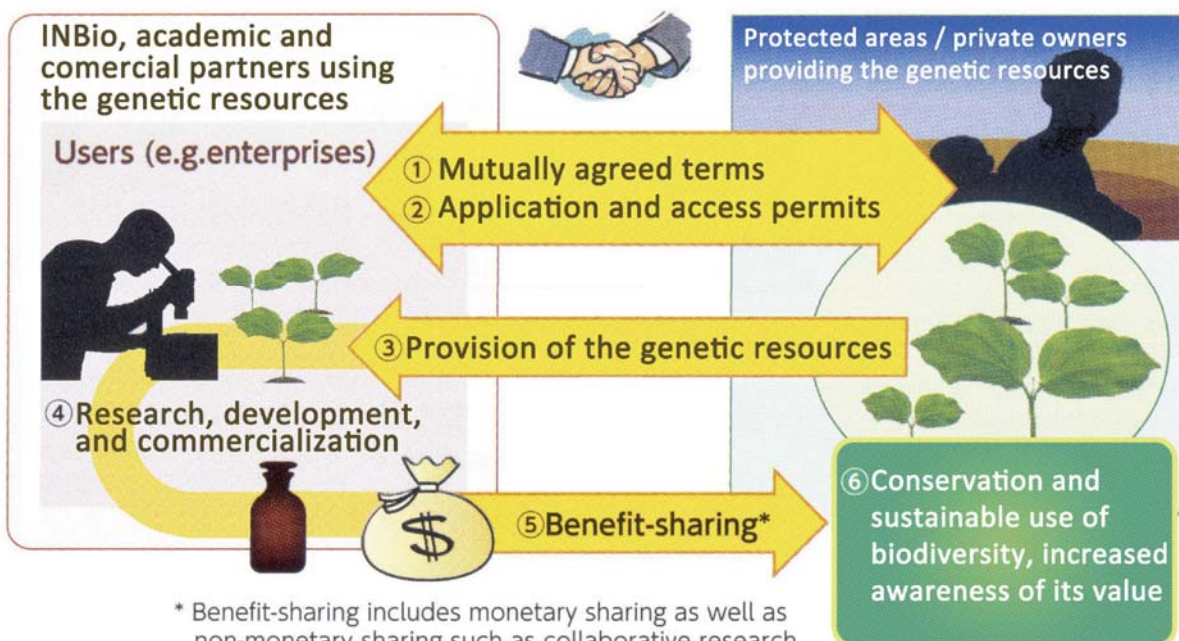


Bioliteracy

- Training in biodiversity management (teachers, tourist guides, entrepreneurs)
- 1.452.204 visitors to INBioparque (Costa Rica's population 4.5 million)
- Virtual communities of learning / Workshops
- Citizen science activities (Bioexplorer, Apps, Bioblitz)
- Books, field guides-ecotourism, educational materials
- Social networks and mass media reports

# Bioprospecting: the process

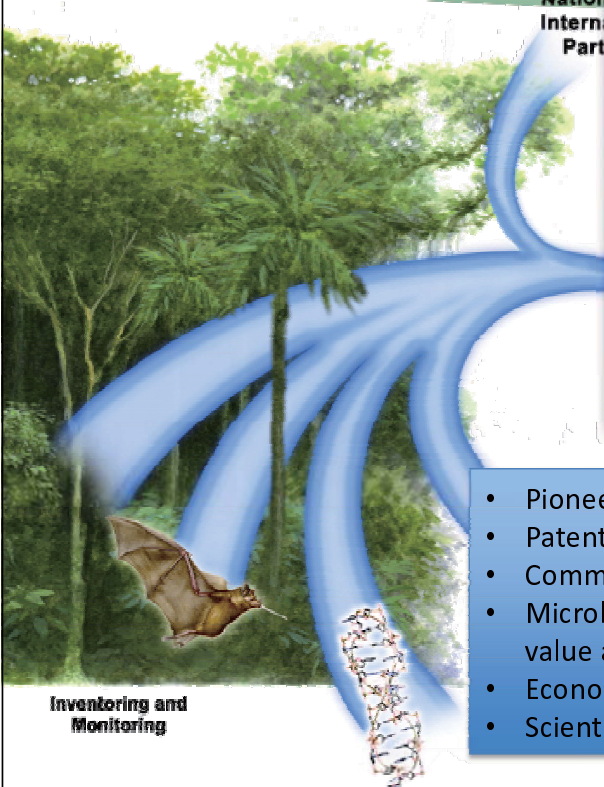
Scheme of access and benefit-sharing (ABS) in relation to genetic resources



\* Benefit-sharing includes monetary sharing as well as non-monetary sharing such as collaborative research and technology transfer.

Modified from The National Biodiversity Strategy of Japan 2012-2020

# Bioprospecting: the results



Inventing and Monitoring

Nation  
Intern  
Part



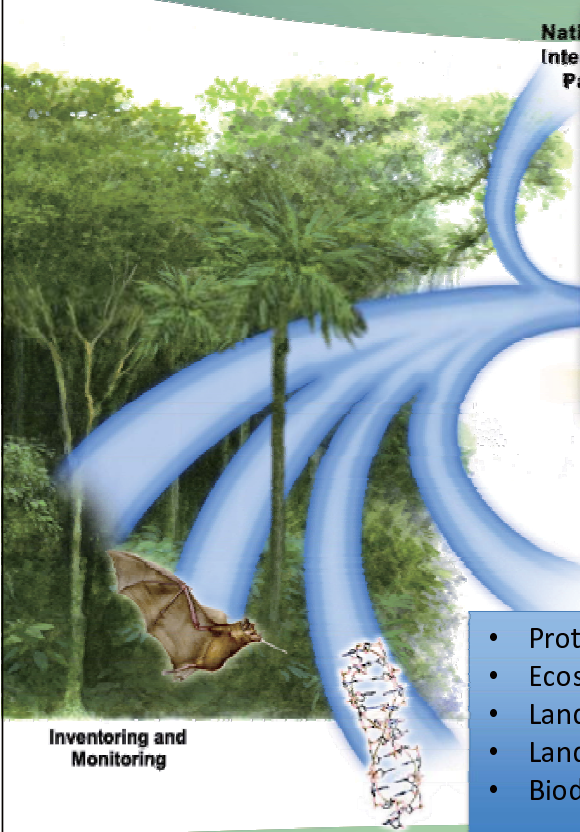
Bioprospecting

- Pioneers in access and benefit sharing (ABS)
- Patents and milestone payments
- Commercial products in the market
- Microbial isolates / extracts with high information value added
- Economic benefits shared with protected areas
- Scientific publications

# Conservation/biodiversity management: the process



## Conservation/biodiversity management: the results



National  
International  
Partners

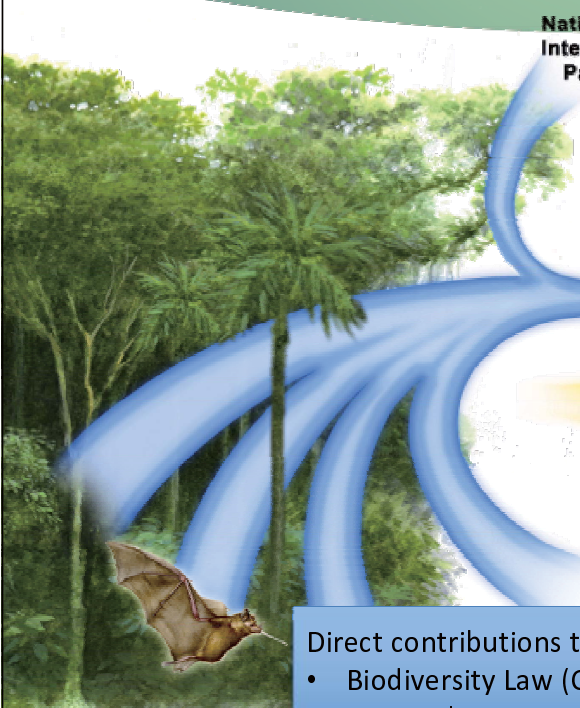


**Biodiversity Management**

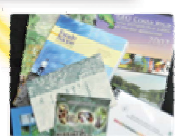
**Inventing and Monitoring**

- Protected areas management plans
- Ecosystem services assessment
- Landscape/trail interpretation for ecotourism
- Land use planning and community development
- Biodiversity in agricultural/urban ecosystems

## Information for policy and legislation



National  
International  
Partners

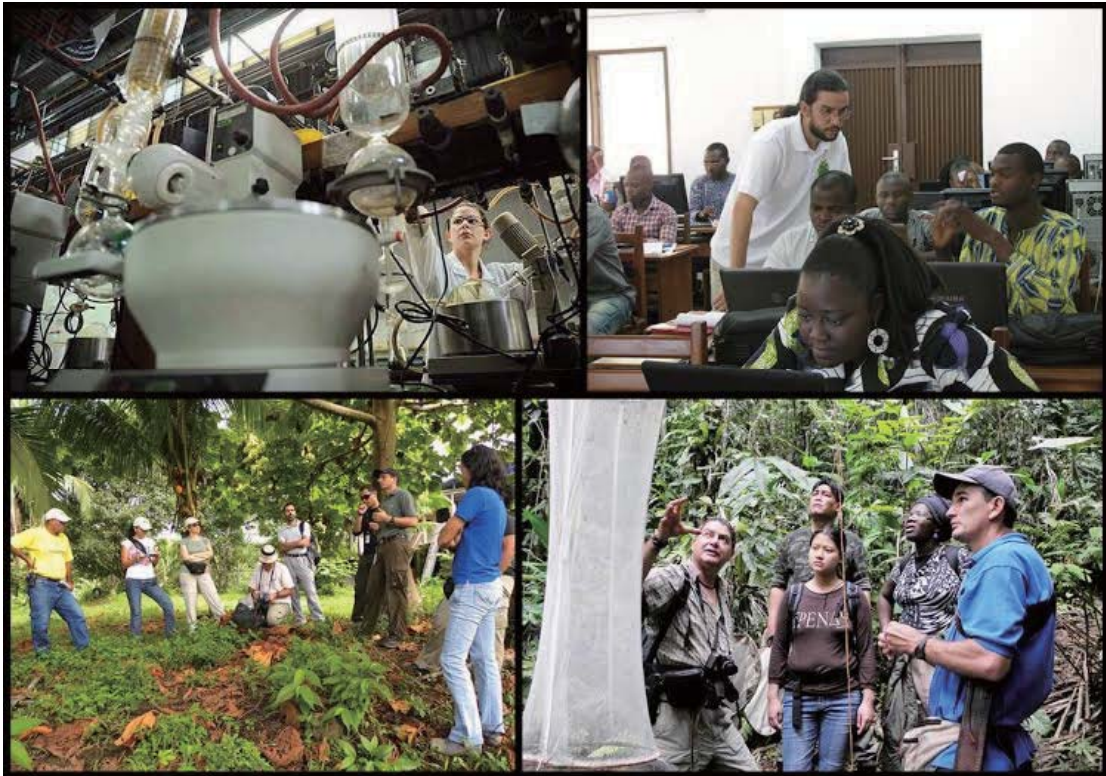


**Policy and Legislation**

**Inventing and Monitoring**

- Direct contributions to:
- Biodiversity Law (COP 10 Award)
  - National Conservation Strategy
  - Conservation policies (Government/Congress)
  - State of the Nation Report

## Technical assistance and capacity building



Sharing knowledge and experience: 45 countries

## International collaboration:

- Developing knowledge
- Sharing knowledge and capacity building



## Key factors of success

- The idea: at the right time, in the right place.
- Sustained political governmental endorsement.
- Capacity: individuals, institution and the national enabling environment.
- Intellectual collaboration of the scientific community.
- Financial support of philanthropic, bilateral and multilateral agencies.
- Costa Rica`s accomplishments in conservation / green agenda.



## Key lessons

1. Shared dreams forges commitment and teamwork.
2. If love for nature is cultivated, people learn and act.



Muchas gracias

Thank you

ありがとう

