

# JICA's Cooperation in Asia on Biodiversity Information Development for Decision Making in Nature Conservation

**GBIF Asia Regional Meeting**

**13 - 14 June 2017**

**Noriaki SAKAGUCHI**

**Japan International Cooperation Agency**



# Overview

1. JICA's Strategy for Forestry and Nature Conservation
2. Importance of Biodiversity Information for Nature Conservation
3. JICA's Cooperation for the Development of Biodiversity Information System
4. Challenges in Developing Biodiversity Information System and Networks



# Strategic Approach of JICA in Forestry and Nature Conservation 2015-2020

Overall Goal	Harmonization between Nature Conservation and Human Activities			
Strategic Theme	Measures for addressing Climate Change through sustainable forest management		Enhancement of livelihood in vulnerable communities through sustainable natural resource use	Biodiversity conservation through management of PAs and their buffer zones
	<b>Mitigation</b> of global warming through REDD+	Eco-DRR by ecosystem function and services <b>Adaptation</b>		
Relevant IEAs	UNFCCC	UNFCCC Sendai Framework for DRR	UNCCD	UNCBD
Approach	Realization of REDD+ in tropical countries	Disaster risk reduction by using ecosystem function and services	Supporting local communities through green economy	Capacity building and community participation for management of PA and buffer zone

# Development of Biodiversity Information as Scientific Basis for Biodiversity Conservation

Existing data from

- Institutes
- Universities
- Ministries
- Researchers

Biodiversity Center of Japan, MOE-J



*Gathering*



Biodiversity Data and Information

*Storing*



Biodiversity Information System

*Utilizing*

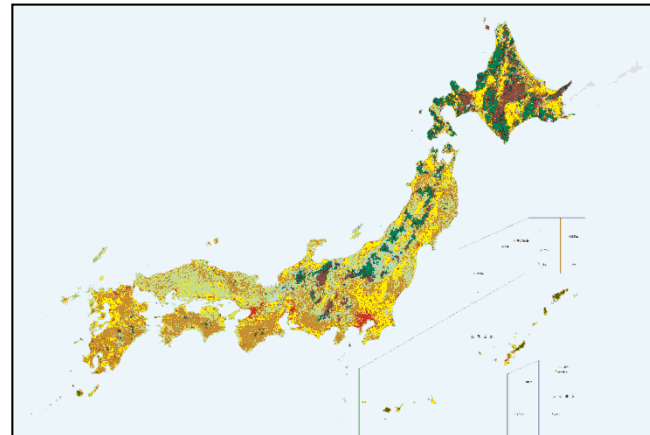


Policy Making

Planning/  
Implementation

- Development and revision of NBSAP
- Designation of PAs
- Natural resources / Ecosystem Management
- Other policies

*Collecting*



Evaluation

- NBSAP, Aichi Targets
- IPBES Assessment
- Ecosystem / Species / Natural resources monitoring



# Development of Biodiversity Information System in Indonesia

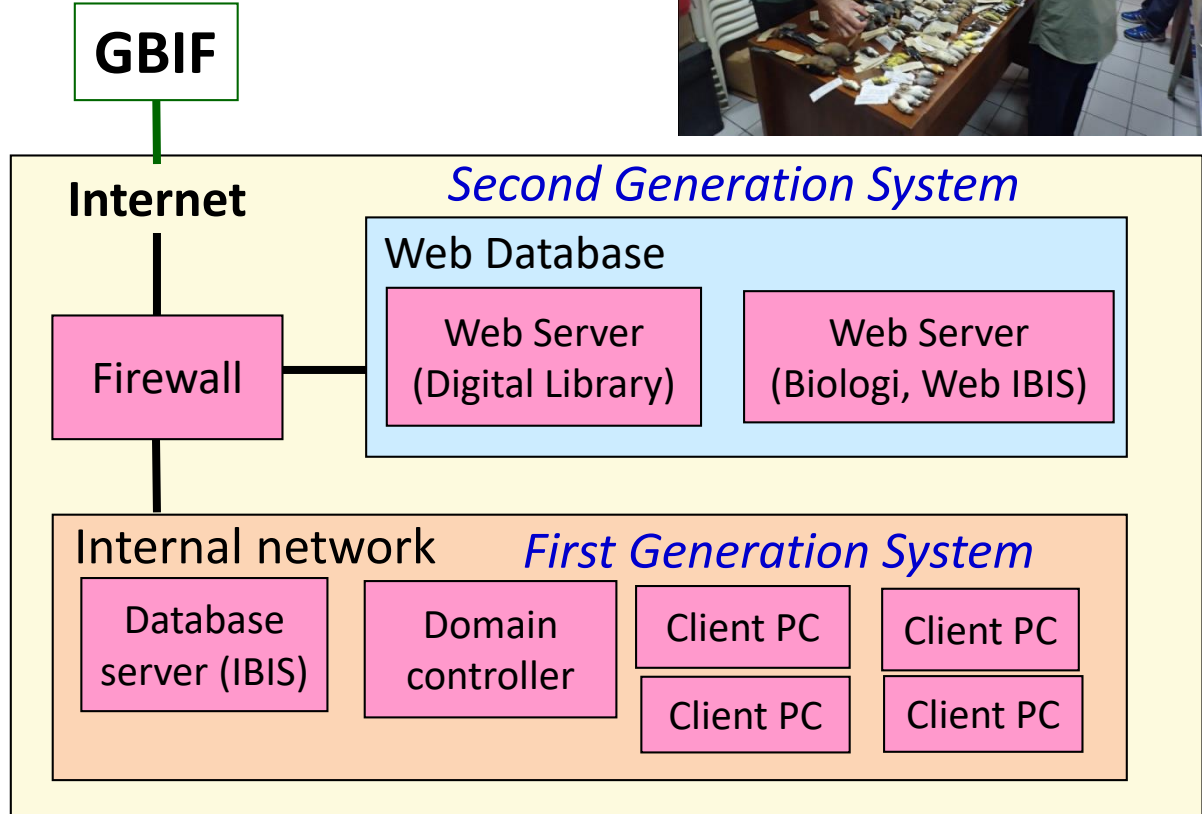


Indonesia has the **richest biodiversity** in the world, since it consists of about **17,000 tropical islands** and crosses a **biogeographical border**.



Biodiversity information system is essential to conserve the mega-biodiversity.

Biodiversity Conservation Project Phase I and II (1995 – 2003)  
Project on Specimen Management in RCB-LIPI (2007 – 2009)





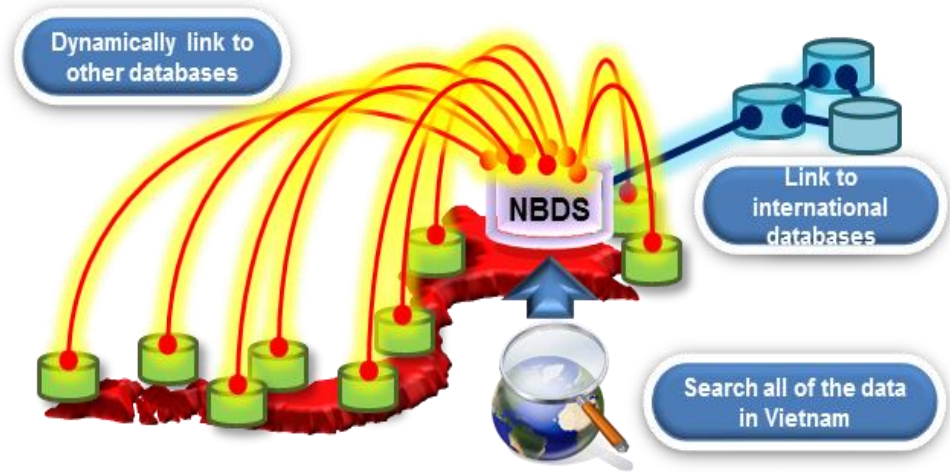
# National Biodiversity Database System (NBDS)



SRNM supports the management of the NBDS in Vietnam which provides comprehensive dataset and information for policy making and implementation on biodiversity conservation.

## <KEY AREAS OF WORK>

- Consolidation of biodiversity data and information scattered all over the country
- Capacity building on biodiversity data collection and management
- Development of biodiversity monitoring system for terrestrial ecosystem
- Linking NBDS with the international biodiversity database system (GBIF)

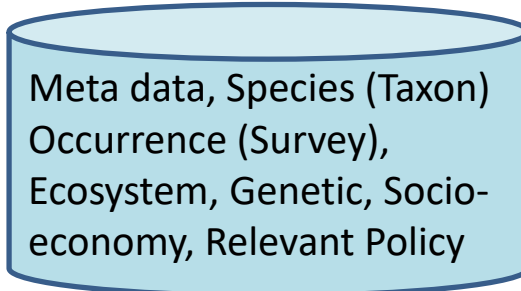


NBDS training in Ba Vi NP



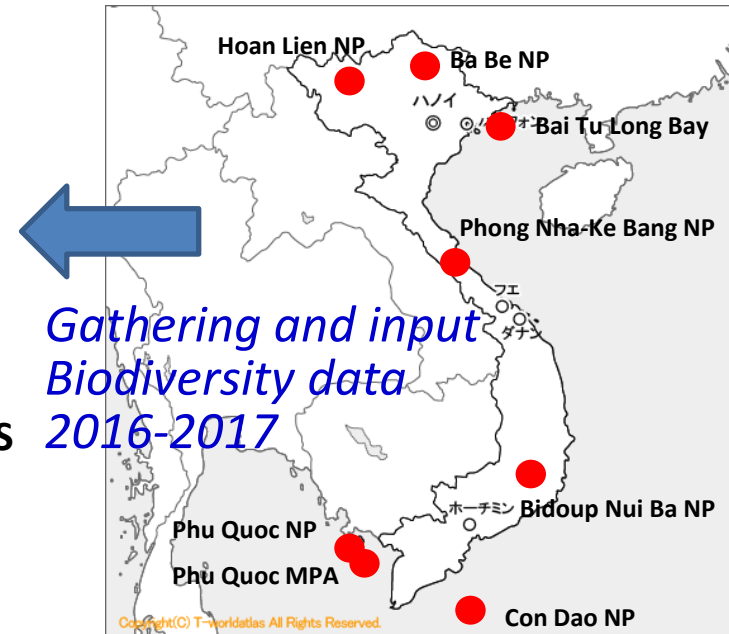
NBDS training in HCMC

## Data Structure of NBDS



Data collected and stored by NBDS Project (2011 – 2015)

- Biodiversity data in Xuan Thuy NP
- Data on Red Book Vietnam



# Development of biodiversity monitoring system for terrestrial ecosystem

SNRM supports the development of biodiversity monitoring system for terrestrial ecosystem through pilot activities in LB-BR.

## <KEY ACTIVITIES>

- A series of biodiversity basic surveys
  - ⇒ Around 1000 species (plant, mammal, fish, bird, amphibian, reptile and insect) were recorded including some probable new species. ---- **Data input to NBDS**
- Identification of indicator species for biodiversity monitoring
- Development of biodiversity monitoring manual or guideline
- Development of LB-BR vegetation map
- Review of patrol method to introduce more efficient and effective way



Biodiversity basic survey



Analyzing species information



Discussion on monitoring method

# Challenges on Development of Biodiversity Information System and Networks

## Data Collection

- No systematic data collection all over the nation--- Indicator taxonomic groups, methodology, period, area
- Lack of human resource and capacity for data collection

## Gathering and sharing existing data

- Most of data aren't digitized.
- Sectionalism in bureaucracy
- Lack of site information at which the necessary data are stored.

## Biodiversity Information System

- Lack of budget and capacity necessary for the system management
- Undeveloped environment and facility for information networking

## Utilization of Biodiversity information for Decision Making

- Insufficient scientific information to be utilized in policies for biodiversity
- Necessity of gap analysis between policies and biodiversity information





**CAM ON BAN !!**