



# Data Sharing and Integration in the ASEAN Region

# OUTLINE



- Types of Data
- Data and skills sharing mechanisms
  - CHM Stakeholders meeting and capacity building
  - Use of GBIF facility
  - Agreements
- Integrating data
  - at the National CHM Level
  - at the regional CHM level
- Recent innovations
  - 5NR Report Generator
- Future prospects
  - User defined analysis
  - Monitoring progress towards meeting the Aichi targets

# Data types: SPECIES

- Species data in DWC format
  - Taxonomic classification
  - Threat Status
  - Growth parameters
  - Collecting Event
  - Common Name/s
  - Synonyms
  - Locality
  - Image

The image shows a screenshot of a web form for entering species data. The form is divided into two main sections: "IUCN Threat Status" and "National Threat Status".

**IUCN Threat Status**

- IUCN Threat Status: Near Threatened (dropdown menu, marked with a red asterisk)
- Year Evaluated: 2011 (text input, with "e.g." to the right)
- Reasons for Change: (empty text area)
- View History: (green button)

**National Threat Status**


- National Threat Status: Not known (dropdown menu, marked with a red asterisk)
- Year Evaluated: 2011 (text input, with "e.g. YYYY" to the right)
- Reasons for Change: (empty text area)
- View History: (green button)

On the left side of the form, there are several labels: "Kir", "Ph", "Cl", "Or", and "Fa".

# Data types: Protected Areas

- National Protected Area Information
- Designation and Legislation
- Protected Area Maps


Biodiversity Information Sharing Service : PA Encoder Form ver. 4.2.1

 **ASEAN Centre for Biodiversity**  
Biodiversity Information Sharing Service

**NATIONAL PROTECTED AREA ENCODER FORM**

ID NPA  Country Code  \*

**National Protected Area Collections** | **Designation and Legislation** | **Protected Area Maps**



No Image Map added yet for Anduki (Conservation).

Record 1 of 1521 Note : \* Required

Biodiversity Information Sharing Service : PA Encoder BETA Ver. 4.2.1

# Data and Skills Sharing Mechanisms: National CHMs

**ASEAN Protected Areas**

**Layers**

- ASEAN Protected Areas (POINTS) 2009  
Protected Areas Without Documented Boundaries
- ASEAN Protected Areas (POLYGONS) 2009  
Protected Areas With Documented Boundaries
- ASEAN Member States (AMS)  
Click area on map to get basic country profile
- Basemap
- Yahoo Road

**AMS CHM Websites**

- Brunei Darussalam
- Cambodia
- Lao PDR
- Indonesia
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Viet Nam

**Biodiversity in the ASEAN Region**

- Priority Areas for Conservation
- Priority Areas for Conservation
- Biodiversity Conservation Initiatives
- Improving Capacities for Biodiversity Conservation
- Who's Who in ASEAN Biodiversity
- Biodiversity Resources

**ASEAN Biodiversity Assessment**

- Ecosystems
- Ecosystems
- Drivers of Biodiversity Loss in the ASEAN Region

**Regional Analyses**

- Graphs and Trends
- Map Overlays
- Specia Reports
- Moving Towards the Aichi Targets

**Growth in area and number of designated protected areas in the ASEAN region, 1950-2010**

**in the ASEAN region, 1950-2010**

Year	Area (km²)	Count
1950	~50,000	~100
1960	~60,000	~150
1970	~100,000	~250
1980	~180,000	~450
1990	~280,000	~750
2000	~480,000	~1,050
2010	~550,000	~1,150



# Data and Skills Sharing Mechanisms: GBIF




Home

About

## Hosted resources available through this IPT

Public resources available through this IPT installation.

<u>Logo</u>	<u>Name</u>	<u>Organisation</u>	<u>Type</u>	<u>Subtype</u>	<u>Records</u>	<u>Last modified</u>	<u>Last publication</u>
	<a href="#">Amphibia-Malaysia</a>	Bioinformatics Research Group, Biological Science Department, Faculty of Bioscience & Bioengineering	Checklist	—	103	2012-10-08	2012-04-23
	<a href="#">List of plant names: Huai Kaeo Arboretum, Chiangmai</a>	Department of National Parks, Wildlife and Plant Conservation	Checklist	checklist	202	2012-09-25	2012-04-23

The most recently updated resources are also available as an [RSS feed](#) .

And through formal and informal collaborations:  
FishBase, Birdlife, GBIF, UP, UNEP-WCMC

# Integrating data at the National Level

Current Inventory of Species in Brunei Darussalam

Taxa	Number of Species	Number of Threatened Species
<i>Vertebrates</i>		
Amphibians	55	4
Birds	344	14
Fishes	360	7
Mammals	148	31
Reptiles	5	0
<i>Invertebrates</i>		
Coelenterates	215	0
Crustaceans	57	0
Insects	4	0
Molluscs	305	0
<i>Plants</i>		
Plants	191	100
<b>TOTAL</b>	<b>1684</b>	<b>156</b>

Assessed Species Summary in (Brunei Darussalam)

Taxonomic Group	Endemic	Native	Threatened		
			Critically Endangered	Endangered	Vulnerable
Fish	95	318	0	4	8
Mammals	0	0	2	7	22
Birds	0	0	0	2	12
Reptiles	0	0	0	0	0
Amphibians	0	0	0	1	3
Insects	0	0	0	0	0
Crustaceans	0	0	0	0	0
Molluscs	0	0	0	0	0
Plants	0	0	39	24	37

Current Inventory of Species in Timor Leste

Taxa	Number of Species	Number of Threatened Species
<i>Vertebrates</i>		
Amphibians	0	0
Birds	4	0
Fishes	196	5
Mammals	26	4
Reptiles	2	2
<i>Invertebrates</i>		
Coelenterates	1	0
Crustaceans	43	0
Insects	0	0
Molluscs	150	0
<i>Plants</i>		
Plants	0	0
<b>TOTAL</b>	<b>422</b>	<b>11</b>

Assessed Species Summary in (Philippines)

Taxonomic Group	Endemic	Native	Threatened		
			Critically Endangered	Endangered	Vulnerable
Fish	221	2977	22	10	61
Mammals	96	5	2	10	12
Birds	1	0	11	10	37
Reptiles	0	0	0	0	0
Amphibians	0	0	1	14	32
Insects	0	0	0	0	0
Crustaceans	0	0	0	0	0
Molluscs	0	0	0	0	0
Plants	0	0	34	21	83

# Integrating data: [chm.aseanbiodiversity.org](http://chm.aseanbiodiversity.org)



Biodiversity Information Sharing Service  
(ASEAN Clearing House Mechanism)

Site search...

- HOME
- ACB
- ASEAN HERITAGE PARKS
- CONTACT US
- SITE MAP



## AMS CHM Websites

- Brunei Darussalam
- Cambodia
- Lao PDR
- Indonesia
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Viet Nam

- Biodiversity in the ASEAN Region
- Priority Areas for Conservation
- Biodiversity Conservation Initiatives
- Improving Capacities for Biodiversity Conservation
- Who's Who in ASEAN Biodiversity
- Biodiversity Resources

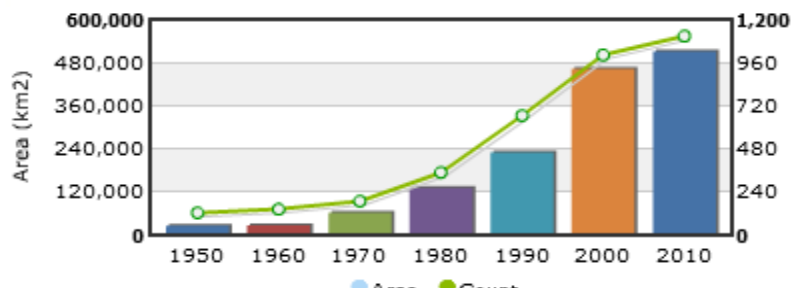
## ASEAN Biodiversity Assessment

- Ecosystems
- Drivers of Biodiversity Loss in the ASEAN Region

## Regional Analyses

- Graphs and Trends
- Map Overlays
- Specia Reports

Growth in area and number of designated protected areas in the ASEAN region, 1950-2010





# Integrating data at the regional level

  Biodiversity Information Sharing Service  
(ASEAN Clearing House Mechanism)

Site search

HOME    ABC    ASEAN HERITAGE PARKS    CONTACT US    SITE MAP

**SEARCH**

**TAXONOMIC TREE**

- Animalia**
  - Phylum Acanthocephala
  - Phylum Annelida
  - Phylum Arthropoda
  - Phylum Brachiopoda
  - Phylum Bryozoa
  - Phylum Chaetognatha
  - Phylum Chordata
  - Phylum Cnidaria
  - Phylum Ctenophora
  - Phylum Echinodermata
  - Phylum Echiura
  - Phylum Hemichordata
  - Phylum Kamptozoa
  - Phylum Mollusca
  - Phylum Nematoda
  - Phylum Nematomorpha
  - Phylum Ochrophyta
  - Phylum Placozoa
  - Phylum Platyhelminthes
  - Phylum Porifera
  - Phylum Priapulida
  - Phylum Rotifera
  - Phylum Sipuncula
- Plantae**
  - Phylum Angiosperms
  - Phylum Bryophyta



# Integrating data at the regional level

## ASEAN Biodiversity Assessment

Ecosystems

Drivers of Biodiversity Loss in the ASEAN Region

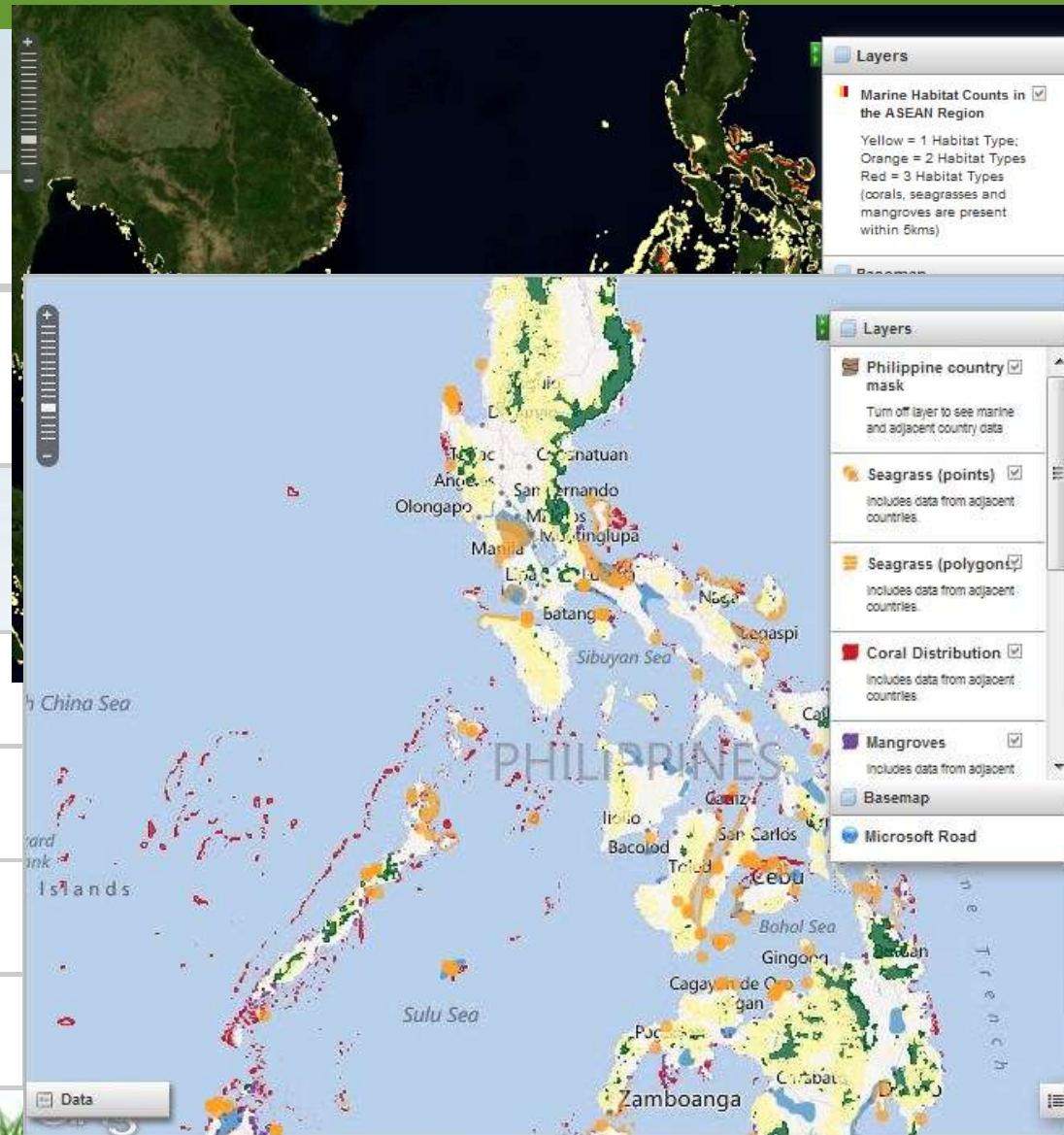
## Regional Analyses

Graphs and Trends

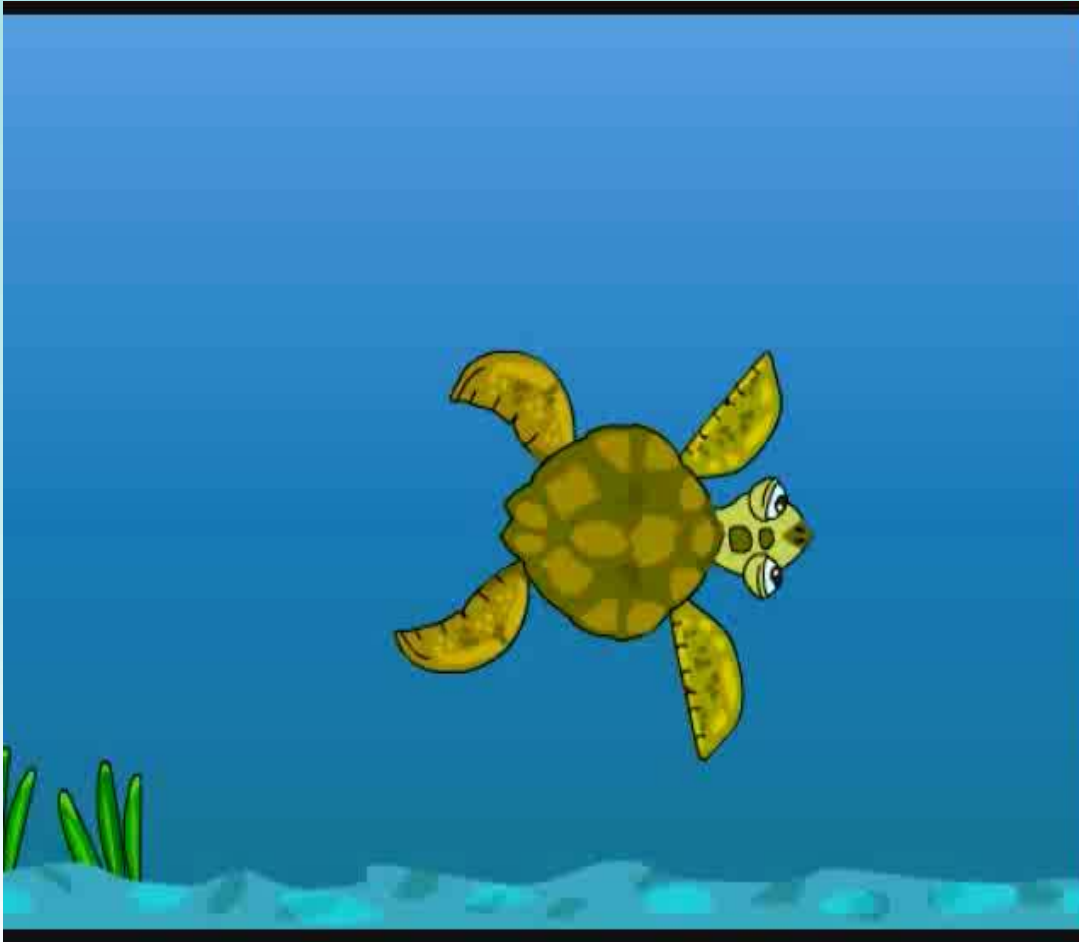
Map Overlays

Special Reports

Moving Towards the Aichi Targets



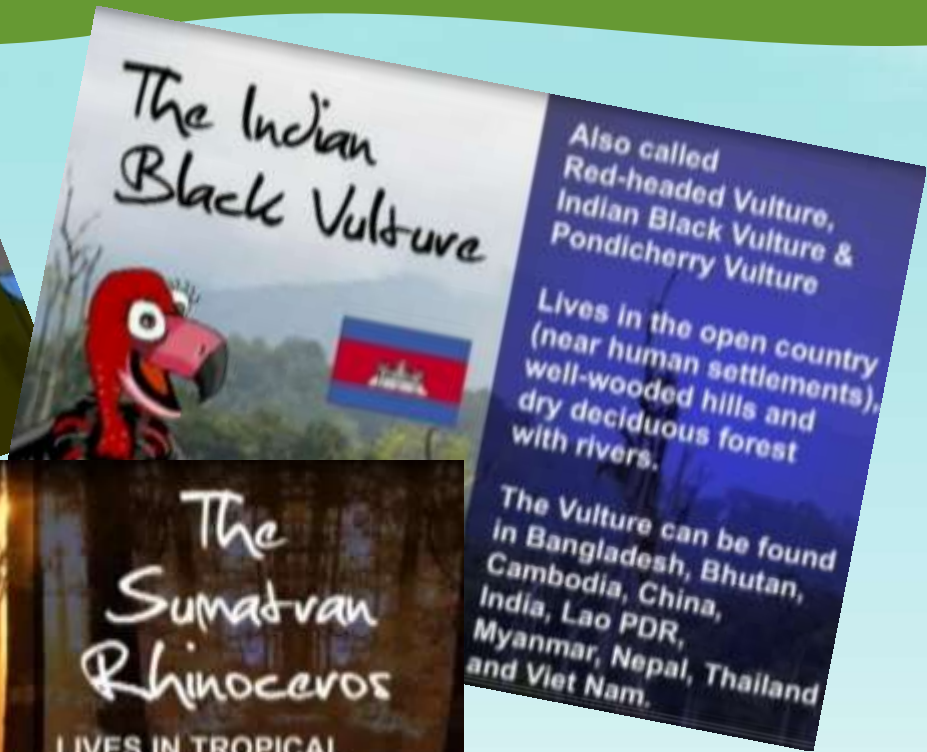
# Integrating data for non-technical audiences



Knowledge  
Products



# Integrating data for non-technical audiences



Knowledge Products



# Recent Innovations

Temporary url: <http://122.54.75.181/templates/regionalchm/5nr/log.php>

## Draft 5nr MEA Report for Philippines

Title : Test 5NR Report

Country : Philippines

Encoder : BIM Administrator

Date Published : 2012-09-27

## Main Report

### Part I: An Update on Biodiversity Status, Trends and Threats and Implications for Human Well-Being

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**Q1: Why is biodiversity important for your country?** Please elaborate on the importance of biodiversity by highlighting contributions of biodiversity and related ecosystem services to human well-being and socio-economic development, using information from completed and ongoing biodiversity assessments or studies. Where possible provide estimates of economic, social and cultural values (the economic value can be presented in monetary terms or, for example, in numbers of people supported). Also highlight a few examples of exceptional biodiversity and ecosystems in the country.

This is a test \_09\_27\_2012 (01)<sup>1</sup>

**Q2: What major changes have taken place in the status and trends of biodiversity in your country?** Focus on changes that have occurred, or that have become known, since the fourth or last national report was prepared. The analysis or synthesis should provide a succinct overview of biodiversity status, trends and threats sufficient to inform decision-makers, rather than an exhaustive assessment of these issues. There is no need to repeat detailed descriptions of your country's biodiversity that were provided in the fourth or previous national reports. However, countries that have not presented a comprehensive analysis of the status and trends of biodiversity in their previous reports could do so in this report. Where possible, show changes in biodiversity or other trends over time and use quantitative indicators (with technical details of the indicators provided in an annex). Also draw upon expert qualitative assessments. Illustrate trends with charts, graphs, figures and tables. Where possible, analyze how actions taken (i.e., actions described in part II) have resulted in changes in biodiversity. Use case-studies to illustrate general points. The case-studies should demonstrate significant reductions in the loss of biodiversity (or a specific component) within a defined scale, and a clear rationale of how this is linked to the actions taken. The case will be most useful if it contains lessons that are more widely applicable.

This is a test \_09\_27\_2012 (02)

**Q3: What are the main threats to biodiversity?** (Or, what are the main causes of the negative changes described in the answer to question two?). For the main biomes and/or components of biodiversity, describe the main direct drivers of biodiversity loss (pressures) and the main indirect drivers (underlying causes) and relate these to the relevant economic sectors. Be specific about the direct drivers (e.g., "dynamite fishing", "coastal development"), but also categorize them (habitat change, climate change, overexploitation, invasive species, pollution), with some detailed analysis.

**Q4: What are the impacts of the changes in biodiversity for ecosystem services and the socio-economic and cultural implications of these impacts?** Describe the impacts of declining biodiversity and ecosystems on human well-being, livelihood, poverty reduction, etc. Consider all relevant and significant ecosystem goods and services.

**Optional question: What are possible future changes for biodiversity and their impacts?** Describe plausible future scenarios for biodiversity in terms of underlying causes, pressures, impacts on biodiversity and implications for human well-being. For example, compare what might happen under "business as usual" policies with what might happen with greater investment in biodiversity and

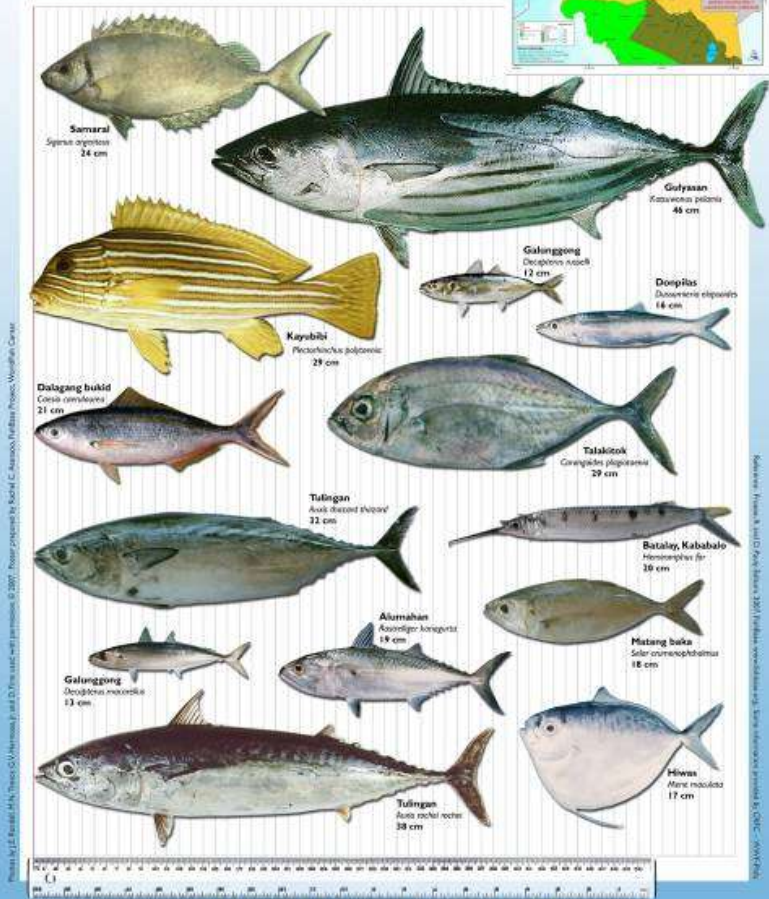
# Future Prospects

Enable a user-generated poster to inform the size selection of commercially important fish species to avoid population over fishing

Target Audiences:

- Fishers
- Middle Men
- Grocery Operators
- Consumers

Size at Maturity for Some Commercial Fishes of the Verde Island Passage Marine Biodiversity Conservation Corridor



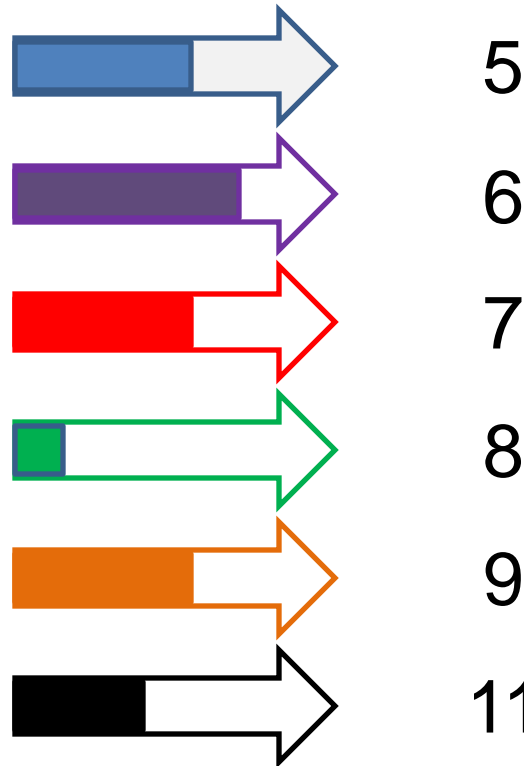
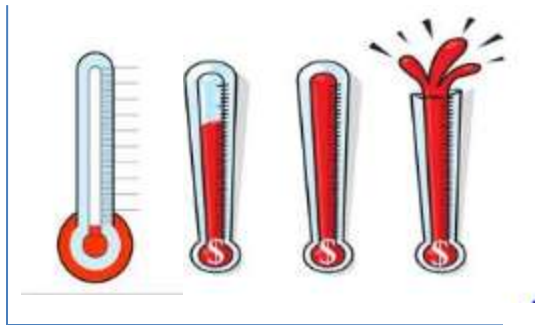
Smaller Fish Cannot Reproduce!!!



# Future Prospects



Concept: Development of visual tools for monitoring progress towards meeting the Aichi targets



# Partnering with ACB



Possible Objectives	Implementation	Target Partners
Data organization at the local level	Orientation / Training	CHM Implementation Community
CHM Development	Technical Support	CHM Focal Points; CHM Implementation Community
Data Sharing for research / Policy Preparation	MOU / MOA	Academe / Government Organizations
5 NR Preparation	Orientation / Training on the use of the 5NR report generator; Stakeholder meetings facilitation	Government Focal Points; Assisting NGOs
KM Products Development	Collaborative Design, Design Execution of KM products: videos, etc.	NGOs, GOs, Educational Organizations / Groups





**Thank You**