



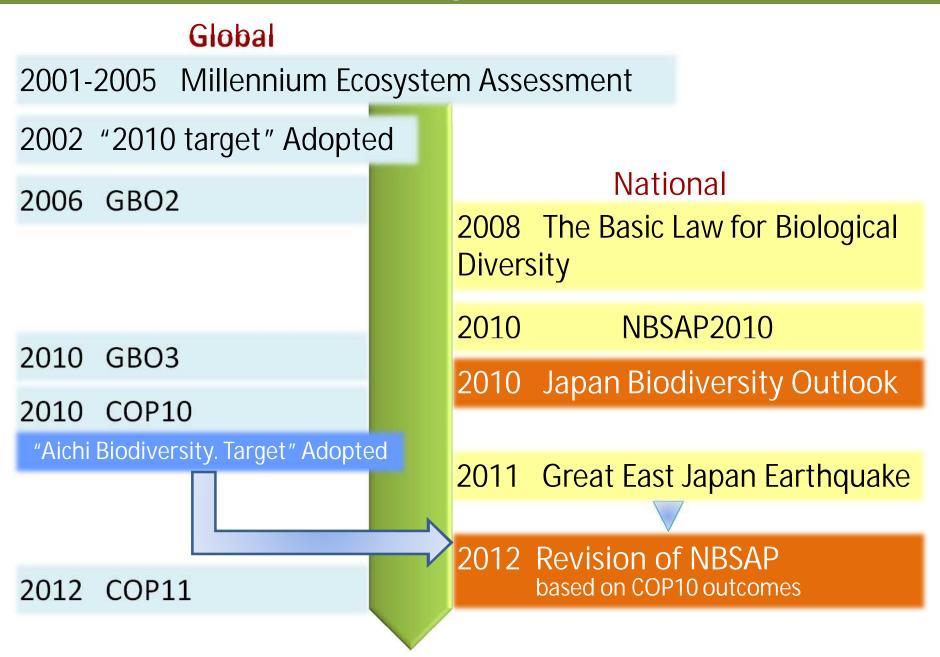
# Japan's experience on National Level Biodiversity Assessment – Finding from Japan Biodiversity Assessment and response through NBSAP–



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# Background



# JBO (Japan Biodiversity Outlook)

## <u>Purpose</u>

- To raise public awareness about "Biodiversity"
- To promote national and regional conservation activities of various stake holders

<u>Target of JBO</u> Biodiversity throughout Japan

- Drivers of biodiversity loss
- State of biodiversity



## <u>Assessment Period of JBO</u> From the latter half of the 1950's to 2010

From the latter half of the 1950's Rapid economic growth

From the latter half of the 1970's Stable economic growth From 1990's Population decrease, Low economic growth

# Assessment Results of JBO

	State and trends		Drivers and trends			
	From Original	Since Late 1950s	Over Use	Underuse	Alien Species	Climate Change
Forests						
Agriculture	-					
Urban	-	1		-		
Inland water						$\bigcirc$
Marine Coastal				-		
Islands				-		

# Summary of Assessment Results

## <u>Results</u>

- Biodiversity has been lost in every ecosystem and is still being lost in
- Freshwater, marine, coastal and island ecosystems are still under severe threat.

## Drivers of biodiversity loss

- Development pressure has the most serious impacts, thought the rate of additional biodiversity loss is slightly reduced.
- 2nd Crisis is still increasing at a slow rate.
- Invasive species pose a great threat.
- Global warming is a serious threat particular to some vulnerable ecosystems.

# Structure of the new NBSAP of Japan

## Part I: Strategy

Basic strategies until roughly 2020

#### Importance of biodiversity and rationales "Realizing a truly enriching society grounded on natural ecosystem"

# Current Situation and Challenges

• 4 crises

• 5 challenges

### Targets

Long-term targets <2050>

In order to halt the loss of diversity, we will take effective and urgent action aimed at the achievement of the national targets of Japan determined according to the attainment of the Aichi Biodiversity Targets.

#### Short-term Targets <2020>

Through the maintenance and recovery of biodiversity and the sustainable use of its components, the current biodiversity in Japan will be enriched further and a society in harmony with nature will be achieved where humans can benefit from ecosystem services into the future.

Long-term Perspective (100 years) Grand design for national land in a society in harmony with nature

#### **5 Basic Strategies**

- I. Mainstreaming Biodiversity in our daily life
- II. Re-building sound relationship between man and nature in local communities
- III. Securing linkages among forests, countryside, rivers and the sea
- IV. Taking action with global perspective
- V. Strengthening Scientific Basis for Policy Making <New>

Part II: Roadmap for the achievement of the Aichi Biodiversity Targets 5 Strategic goals / 13 national targets / 48 Key action goals

> Part III: Action plan Roughly 700 specific measures / 50 numerical targets

# National Targets related to resilience

#### A-1:

Achieving the "mainstreaming of biodiversity across society"

#### B-1:

Reduce the rate of loss of natural habitats, as well as their degradation and fragmentation

#### **B-**2:

Engage in agriculture, forestry, and fisheries that ensure the conservation of biodiversity in a sustainable manner

#### **B-3**:

Improve the state of contamination from nitrogen and phosphorous, conserve aquatic organisms and increase their productivity, and maintain water quality and habitats

#### B-4:

Identify invasive alien species based upon the results of examinations of the enforcement status for the Invasive Alien Species Act, and lay out the order of priority for controlling these invasive alien species, etc.

#### B-5:

Promote initiatives for minimizing human-induced pressures

#### C-1:

Appropriately conserve and manage 17% of inland areas and the like, and 10% of ocean areas and the like

#### <u>C-2:</u>

Prevent the extinction of threatened species, and maintain the genetic diversity of crops and livestock animals, etc.

D-I:

Strengthen the benefits received from biodiversity and ecosystem services through the conservation and restoration of ecosystems

#### D-2:

Restore at least 15% or greater of degraded ecosystems, thereby contributing to climate change mitigation and adaptation

D-3:

Ratify the Nagoya Protocol on ABS and implement domestic measures

E-1: Promote policies based on the NBSAP

#### E-2:

Have traditional knowledge be accorded respect, strengthen scientific grounds as well as the connections between science and policy, and effectively and efficiently mobilize the funds needed to achieve the Aichi Biodiversity Targets

# Examples of indicators at national level

<u>Strategic Target B:</u> <u>Advance initiatives geared towards minimizing human-induced</u> <u>pressures that degrade ecosystems and promote their sustainable</u> <u>use.</u>

Related indicators

- Percentage of wetlands restored in particularly important water systems
- Percentage of tidal flats restored

Strategic Target D:

<u>Strengthen the benefits obtained from biodiversity and ecosystem</u> <u>services.</u>

Related indicators

- Surface area covered by forest plans
- Total number of participants in regional community activities related to the conservation and management of regional resources, such as agricultural land and water

# Five Basic Strategies of NBSAP

1. Mainstreaming Biodiversity in our daily life

2. Re-building sound relationship between man and nature in local communities

3. Securing linkages among forests, countryside, rivers and the sea

4. Taking action with global perspective

5. Strengthening Scientific Basis for Policy Making <New>

- Promotion of National Survey on Natural Environment
- Conduct Japan Biodiversity Outlook (Comprehensive assessment on biodiversity)
- Enhancing the science-policy interface

Biodiversity

## Sanriku Reconstruction (Fukko) National Park Initiative Reformation of natural parks in the disaster affected area



Contribute to the recovery of disaster-affected areas by establishing a new type of National Park, which will be closely connected with disaster prevention/mitigation and revival of fishery industry

# Thank you for your attention.

# Extra slides

# Function of ESABII

# Capacity building

- Terrestrial plants
- Marine biodiversity (corals)
- Brackish and freshwater fish
- CITES appendices species

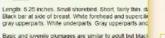
## **Biodiversity information**

- Migrant birds
- Threatened mammal species
- Threatened vascular plant species
- Red data information





# Kentish plover Common Name Kentish plover Species name Charadrus alexandrinus Family Charadrus Charadrus Discl.ds International Genus Charadrus Escription Charadrus USSS



#### lasic and juvenile plumages are similar to adult but b

#### Ecology Behavior

#### Birdi. de International

Although some populations of this species are sedentary coastal populations are fully migratory and have distruclis breeding grounds chelpf from March to Cochoes 3 dis southward migration peaking in Septembert. The specie densities of 0.5 to 20 pars per hectare (acceptional) up other species (e.g. Least Tern Sterna antiliarun)12. Out hocks of 23-35 individuals 1, 6, and occasionally in larger species flocks4.

#### Habitat

World Bird Info Chiefly sea coasts, but also open flats near brackish or si depressions Usually on sand silt or dry mud with even su



#### Range

Figure-2: Occurrence overview of Kentish plove





# **AP-BON**

## Asia-Pacific Biodiversity Observation Network



Biological interactions





## East and Southeast Asia Biodiversity Information Initiative

## Goal

Contribute to the implementation of the Strategic Plan\* for the CBD

\* Strategic Plan 2011-2020

## Means

Particularly by addressing the Target 19 of the new Strategic Plan through:

 Raising taxonomic capacity
 Development of biodiversity information system

## Target area

