# Day 1 – Mon 27 August

| | |
|---|---|
| 14:00 | Introduction:<br>Indicators and their uses |
| 14:30 | short discussion:<br>Difference between targets and indicators |
| 14:40 | group exercise:<br>“defining purpose of indicators” |
| 15:30 | *Break* |
| 16:00 | group exercise: “target setting” |
| 17:00 | Plenary report back and lessons learnt |
| 17:30 | finish |

# Day 3 – Wed 29 August

| | |
|---|---|
| 14:00 | Indicators and Monitoring:<br>What makes a successful indicator? |
| 15:00 | group exercise:<br>“Calculate and communicate indicators” |
| 16:00 | *Break* |
| 16:30 | Plenary report back and lessons learnt |
| 17:30 | Finish |

# Session objectives (1)

- Understand:

  **Indicators relating to targets**

- Explore:

  **information /data needs and availability**

- New ideas:

  **experiences from neighbouring countries**

# Session objectives (2)

- Understand:

  ***"Indicators are purpose dependent"***

- Introduce:

  **BIP *Biodiversity Indicator Development Framework***

- Collaborate:

  **national, regional, global**

# Indicators and their uses

## CBD Regional workshop for the Middle East and North Africa
## On updating NBSAPs
## 27 Aug 2012

**Dr Damon Stanwell-Smith**
***UNEP World Conservation Monitoring Centre***
***Cambridge, UK***

# Biodiversity Indicators Partnership (BIP)

- **CBD-mandated collaboration**
- **Over 40 organizations working globally**
- **Secretariat based at UNEP-WCMC**

Biodiversity Indicators Partnership

# 2007-2010 Programme

**A framework to assist indicator developers**

**Guidance Documents**

**National Indicators web-portal**
**www.bipnational.net**

## What is an indicator?

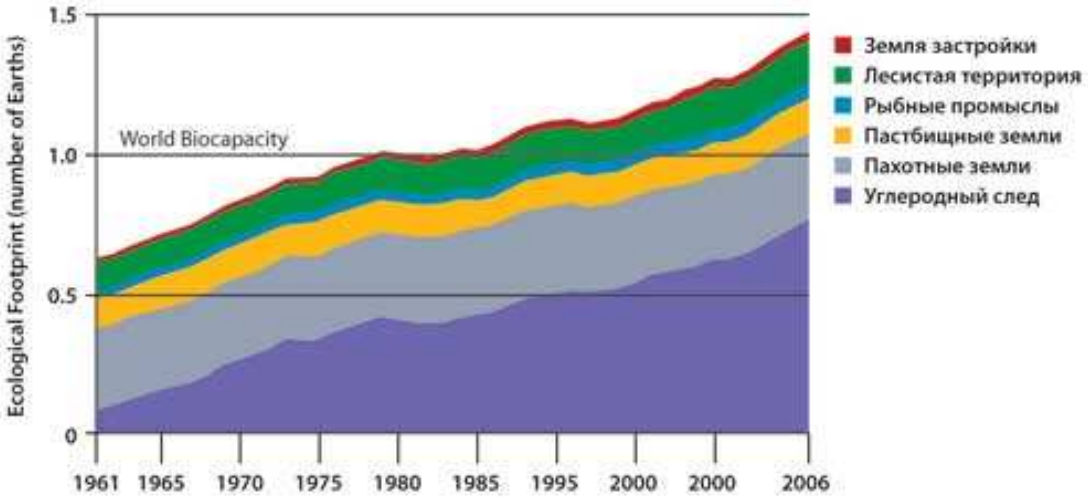
*"A measure based on verifiable data that conveys information about more than itself"*

## Indicators are purpose dependent...

*"interpretation depends on the purpose or issue of concern"*

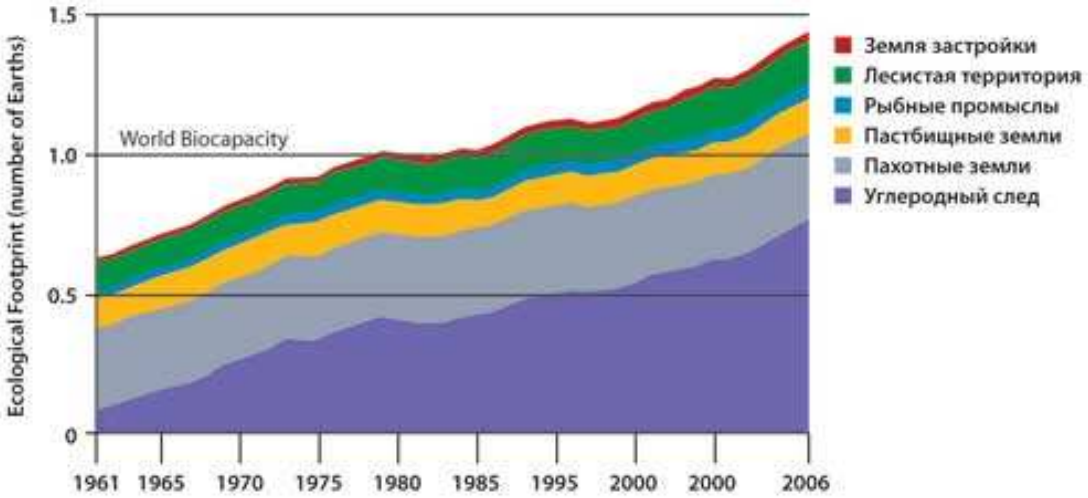
# What is an indicator?

## Temporal

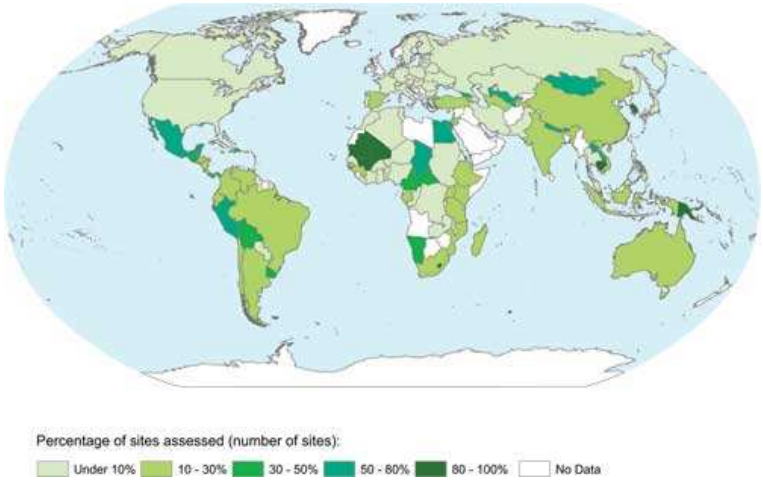


# What is an indicator?

## Temporal




## Spatial



# What makes a successful indicator?

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**Scientifically valid**

**Based on available data**

**Responsive to change in issue of interest**

**Easily understandable**

**Relevant to user's needs**

**Used!**

# What makes a successful indicator?

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**Easily understandable**

**Relevant to user's needs**

**Used!**

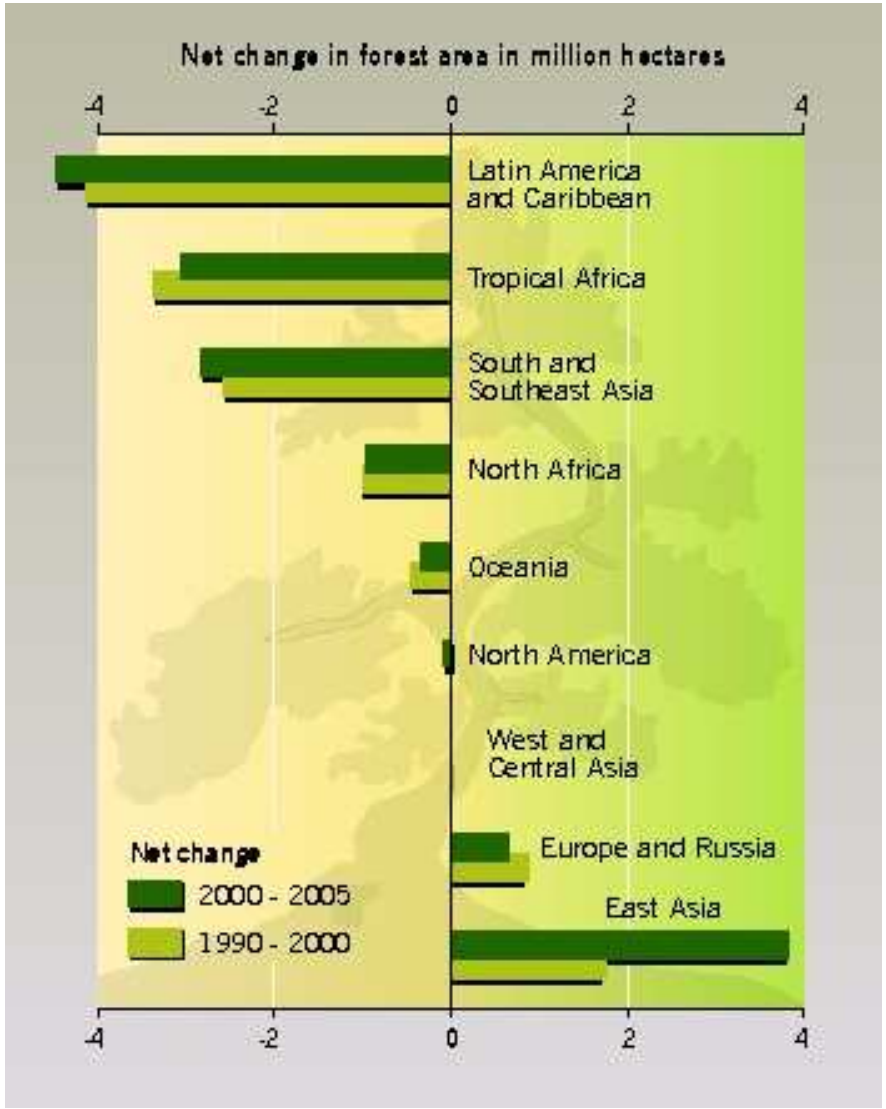
# Obstacles to successful indicators

- Lack of resources (funding, expertise, data)
- Insufficient stakeholder/audience consultation
- Project-based data collection and/or management
- Data utilised not sensitive to change
- An after-thought to a wider process of strategy development and target setting

Biodiversity Indicators Partnership

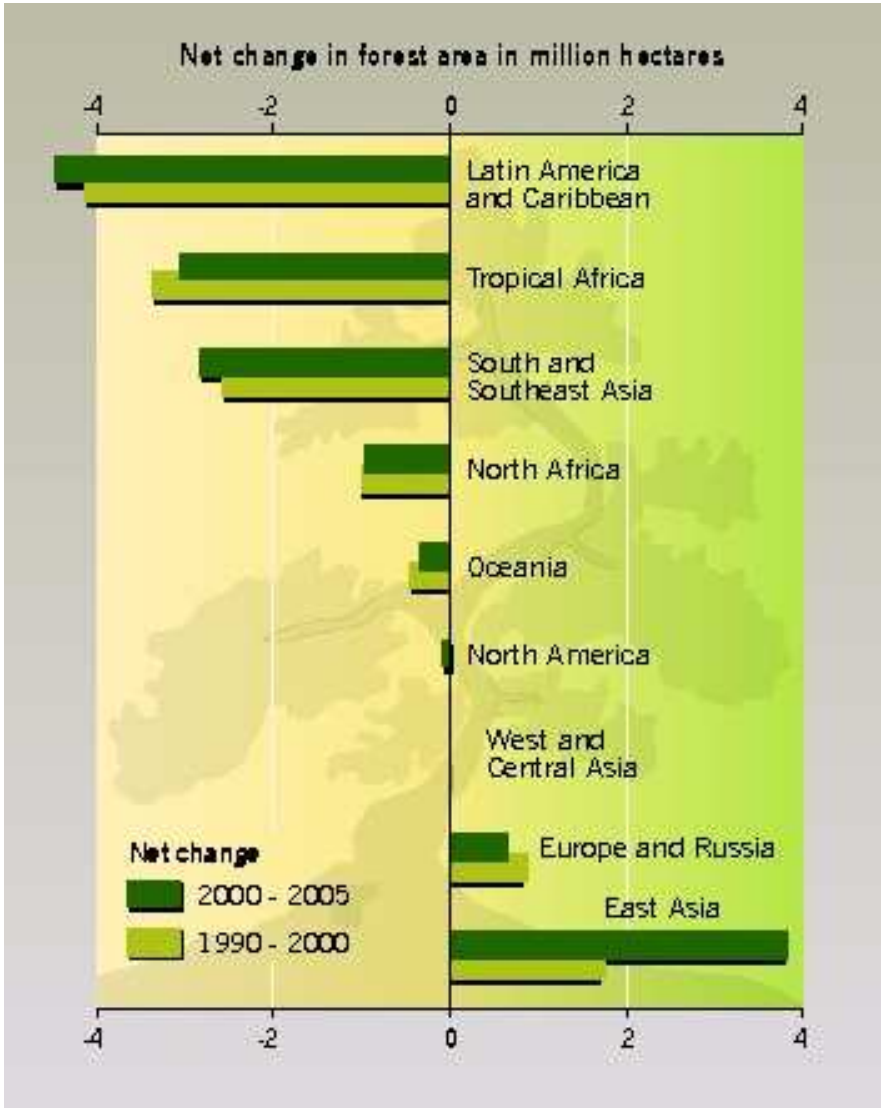
UNEP WCMC

## Net change in forest area over time...



## Net change in forest area over time...

- *availability of forest resources?*
- *progress in forest conservation?*
- *intensity of threats to forest ecosystems?*
- *investment in plantations?*
- *change in soil cover and erosion?*
- *change in forest carbon sequestration?*
- *conservation status of forest-dependent species?*
- *.....*



# Multiple purposes of indicators

- **Track progress in achieving targets**

## Multiple purposes of indicators

- **Track progress in achieving targets**
- **Guide policy design & implementation**

  ***Highlight where action is needed***

  ***Adaptive management***

## Multiple purposes of indicators

- **Track progress in achieving targets**
- **Guide policy design & implementation**

  ***Highlight where action is needed***

  ***Adaptive management***

- **Build support**

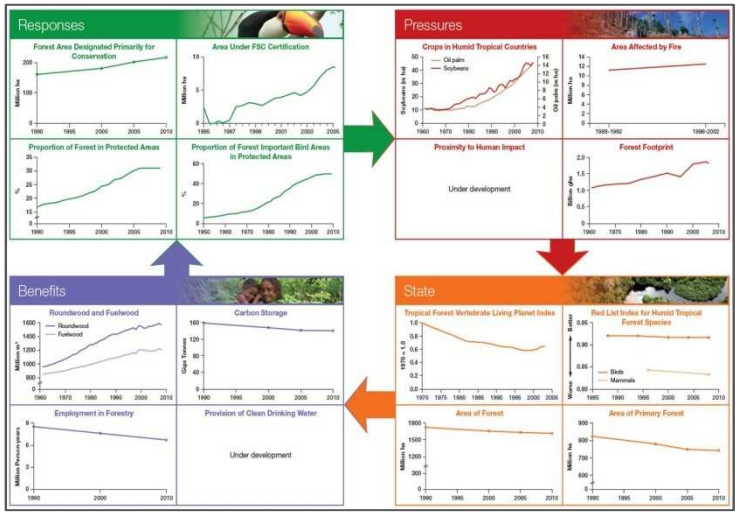
  ***Communicate simple messages***

# Multiple purposes of indicators

## How are indicators used?

### dashboards

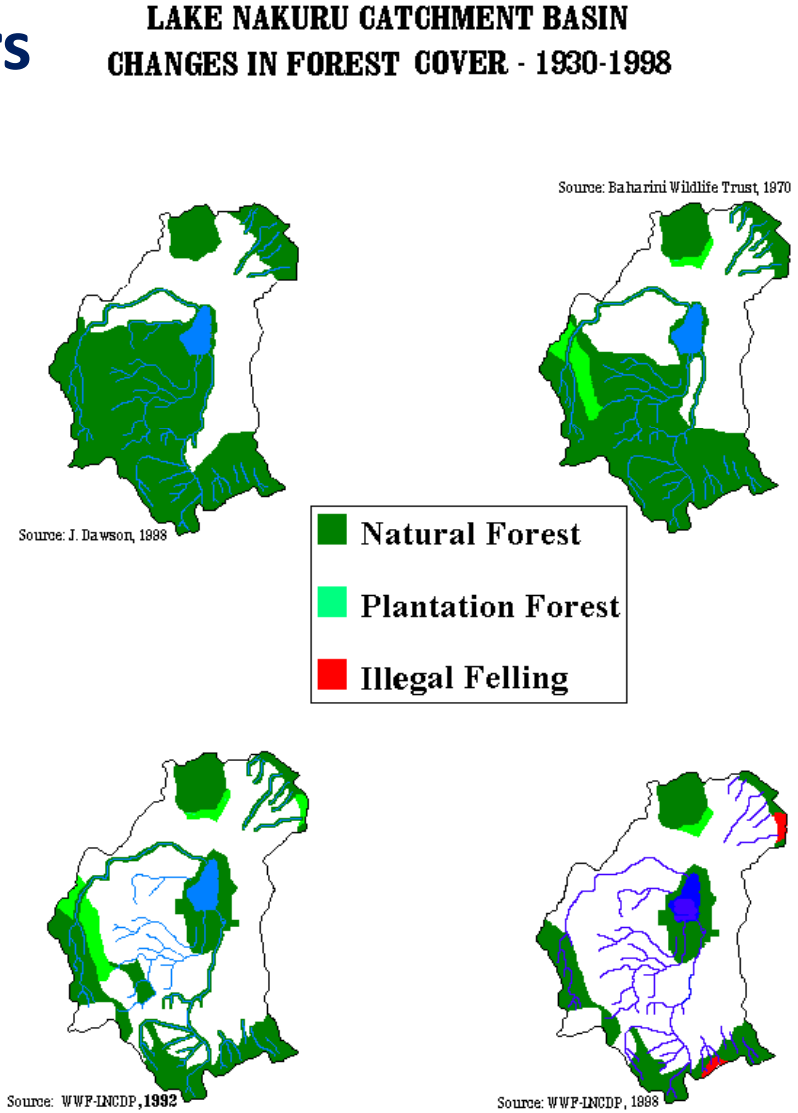
### linked...




### warnings

# Multiple purposes of indicators

## *e.g. The Policy making cycle*



# Multiple purposes of indicators

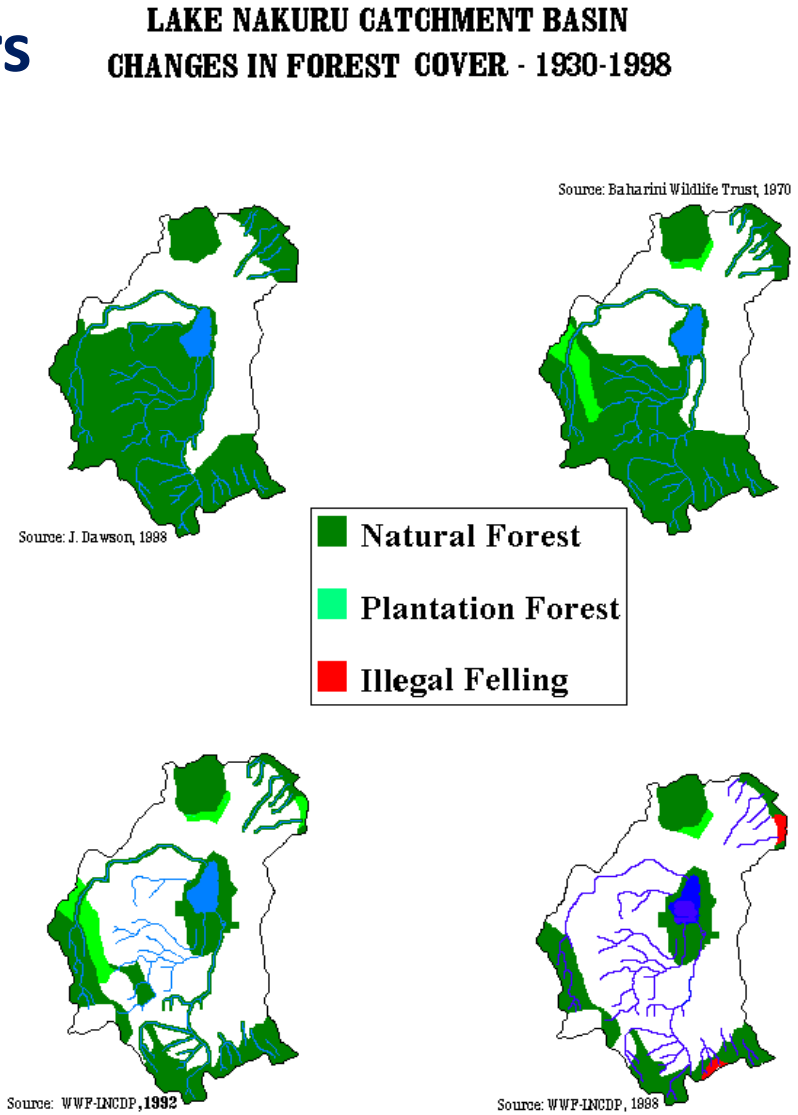
## *e.g. The Policy making cycle*

- **Understanding an issue:**
(Where is the forest?, How much is there? Why is it changing?)

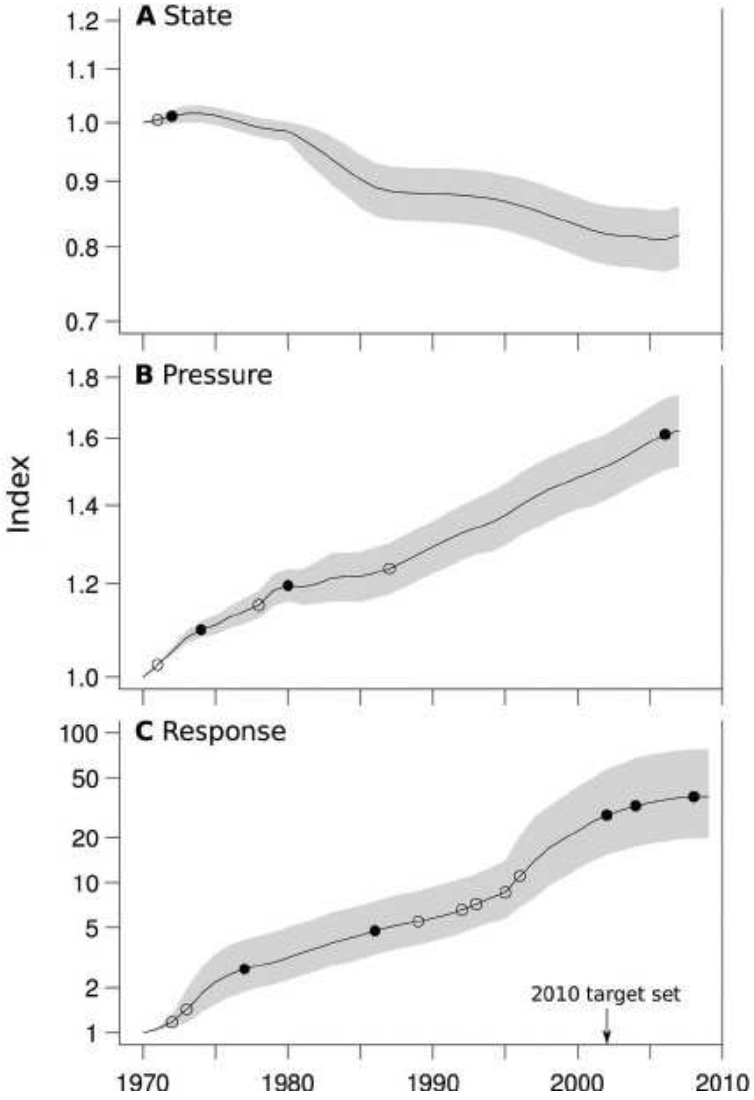
- **Setting Objectives, Targets, Policies**
(Location and extent of forest types, conservation or restoration, protected areas? By when?)

- **Monitoring progress & outcomes**
(forest extent, status of protected area)

- **Communicating, getting support**
(stakeholder dialogue, State of Environment reporting, lobbying, fund-raising)



2010 Biodiversity Indicators Partnership



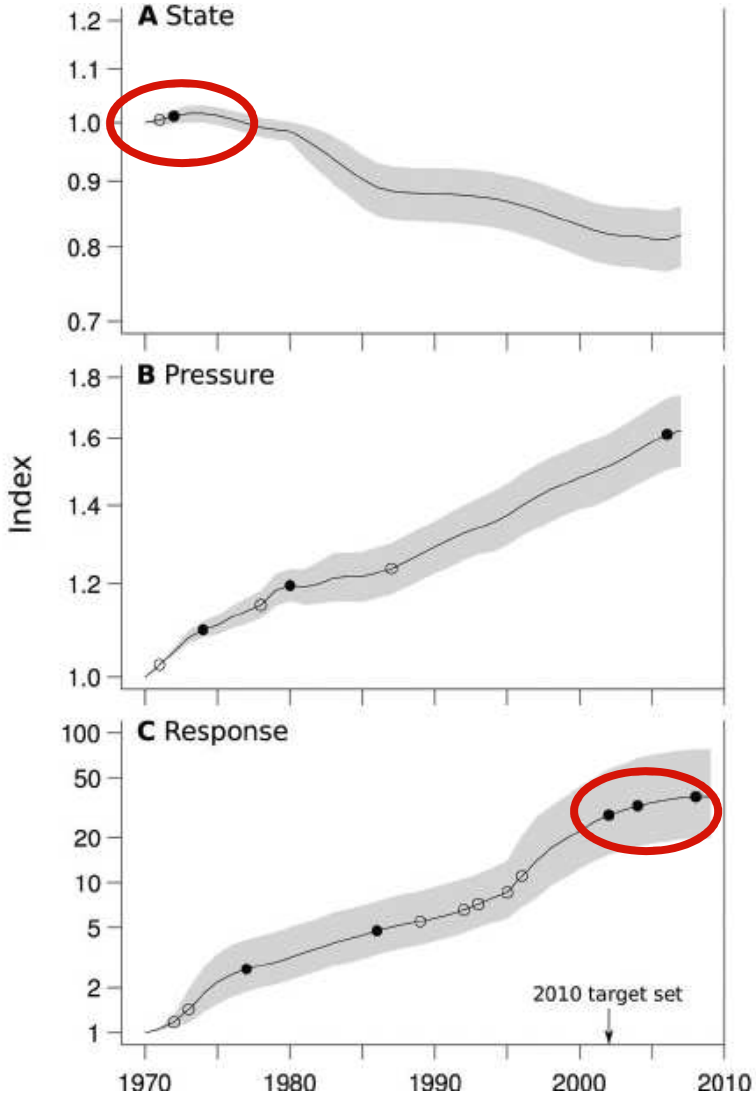
↓ 31 %

↑ 78%

FSC

Butchart et al (2010) *Science* 328: 1164-8

2010 Biodiversity Indicators Partnership




significant inflections

*"to achieve by 2010 a significant reduction of the current rate of biodiversity loss at the global, regional and national level..."*

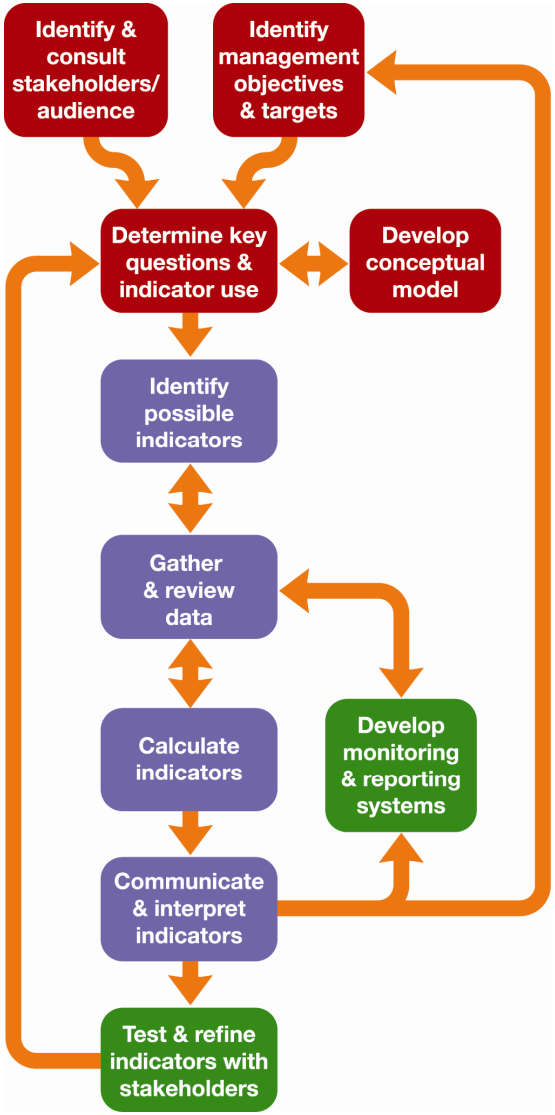
***Highly unlikely that the 2010 Target will be met***

Butchart et al (2010) *Science* 328: 1164-8

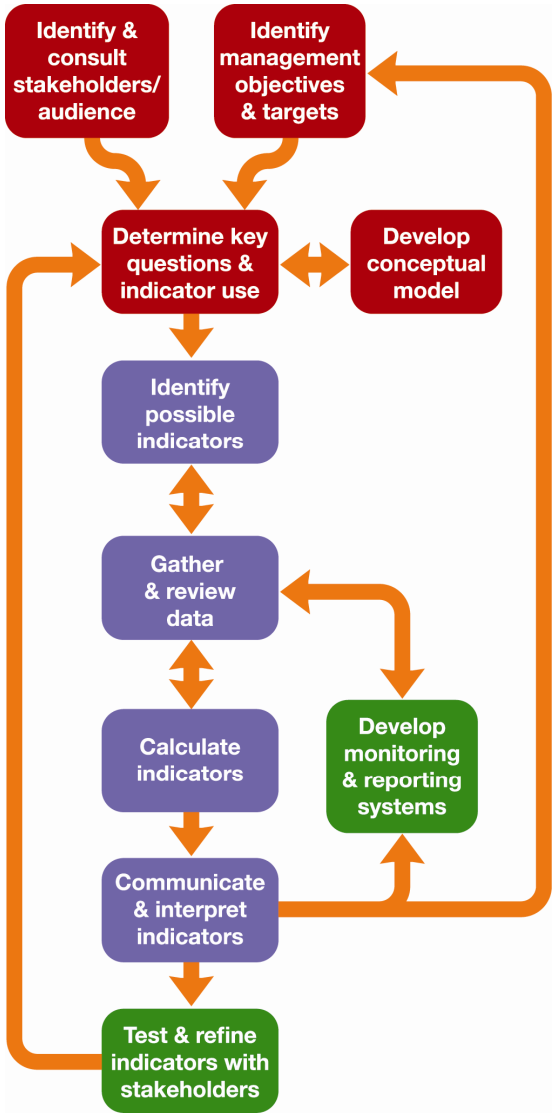
Biodiversity Indicators Partnership

Biodiversity Indicators Partnership

UNEP WCMC



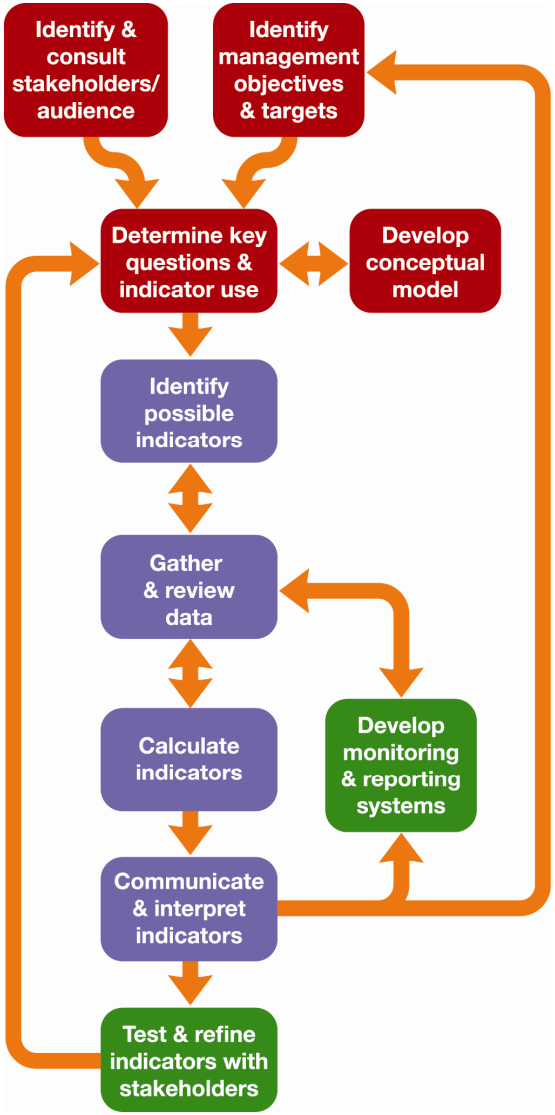

# www.bipnational.net




*"National governments and regional organizations using and contributing to the improved delivery of global indicators"*

Biodiversity Indicators Partnership

UNEP WCMC

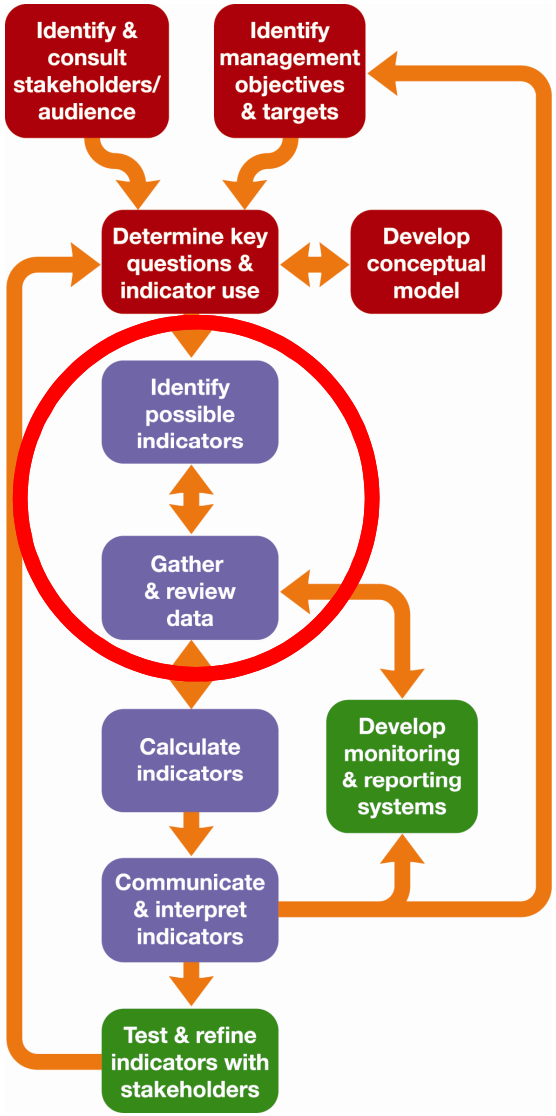



~~*"National governments and regional organizations using and contributing to the improved delivery of global indicators"*~~

***"National governments developing and using indicators relevant to national priorities"***

## Capacity building in 56 Countries

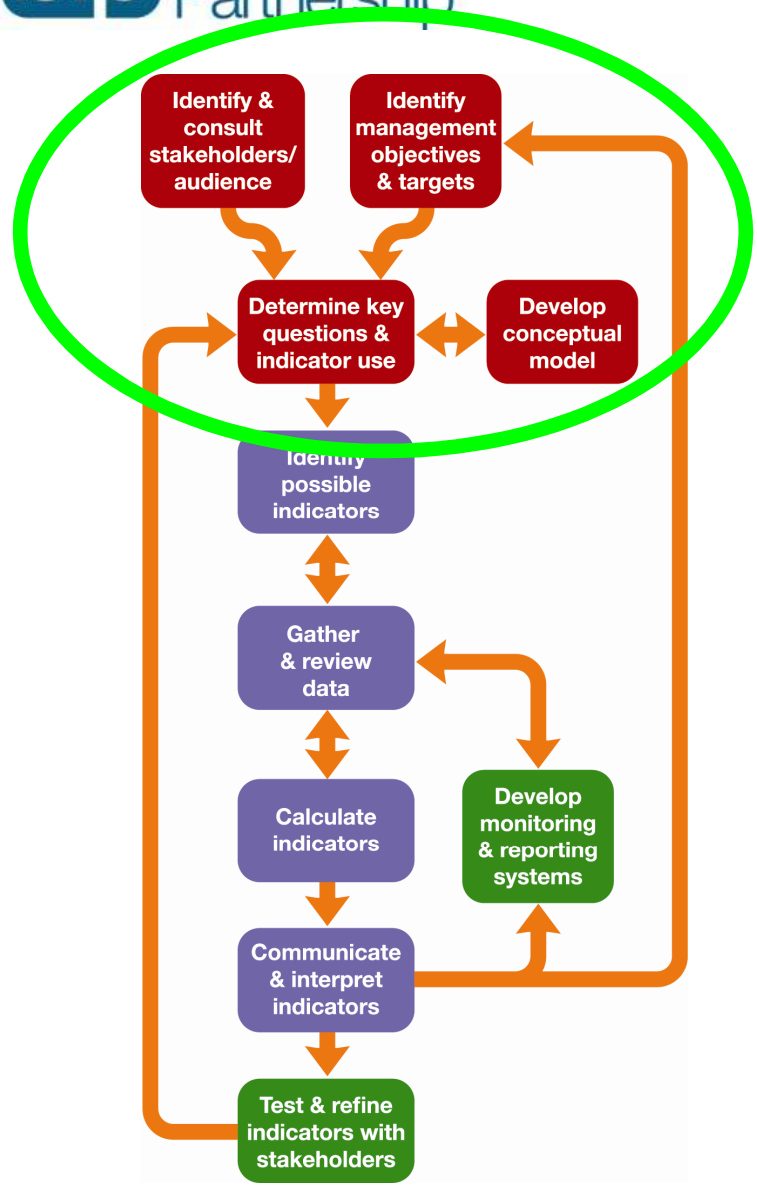
South East Asia
Caribbean
Mesoamerica
Eastern Africa
Southern Africa




# Common start point

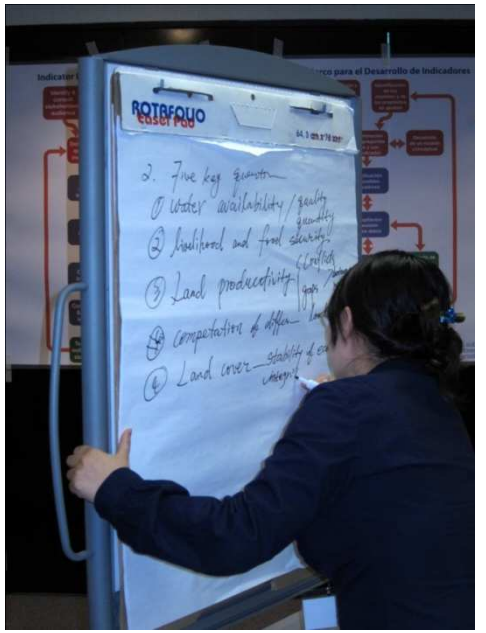
Biodiversity Indicators Partnership

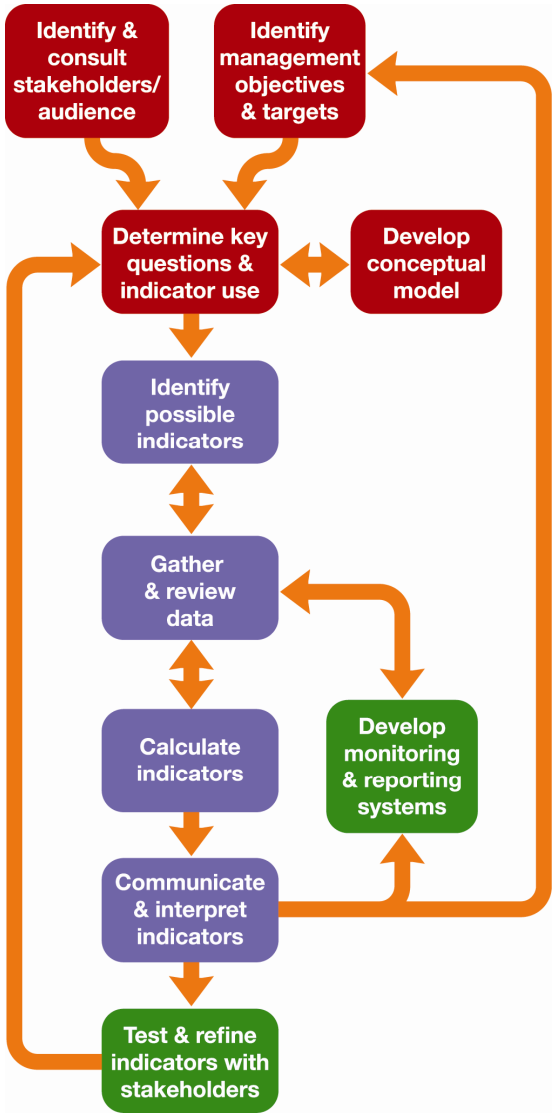
UNEP WCMC




~~Common start point~~

***Found to be a more successful start point***






**Purpose**

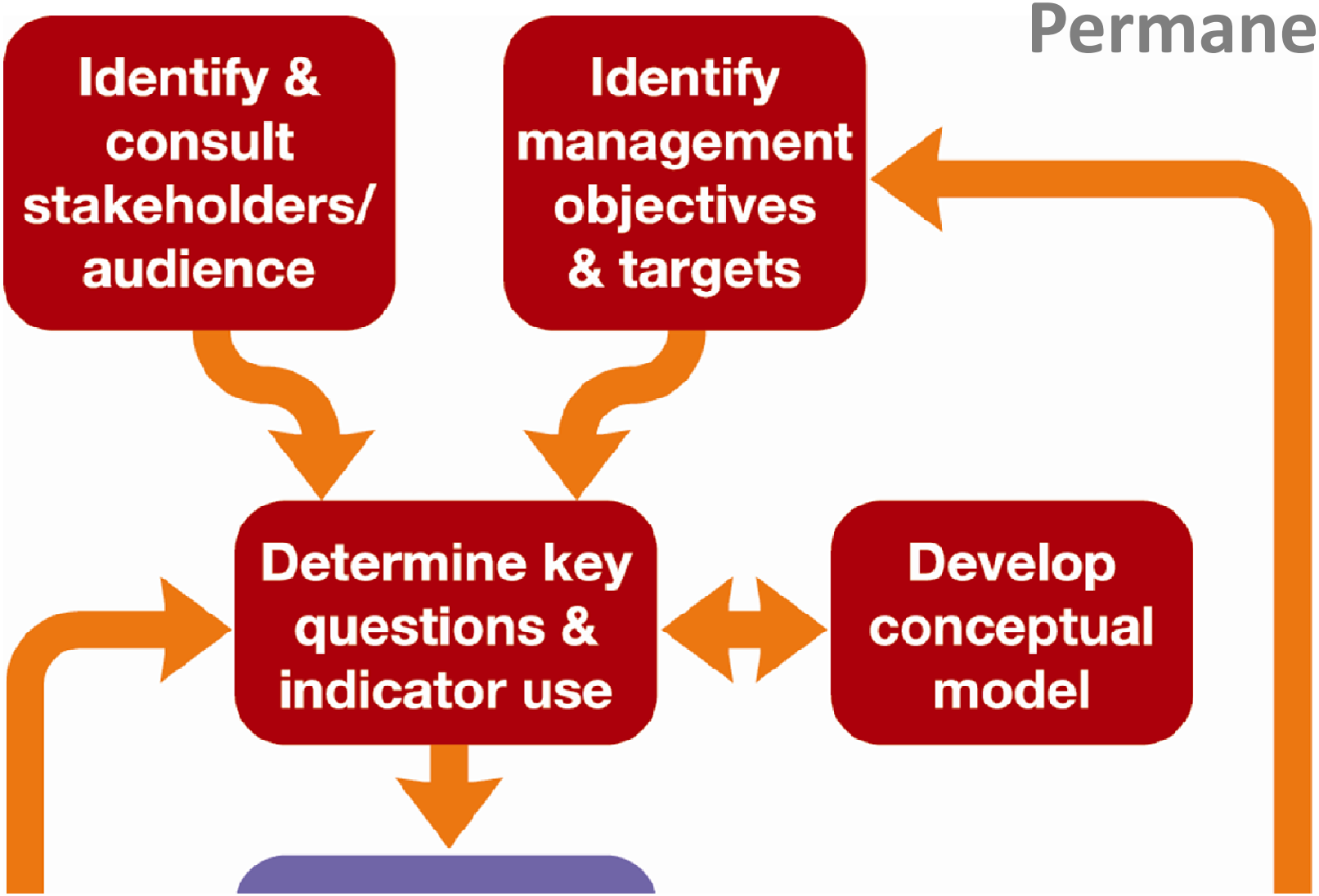
**Production**

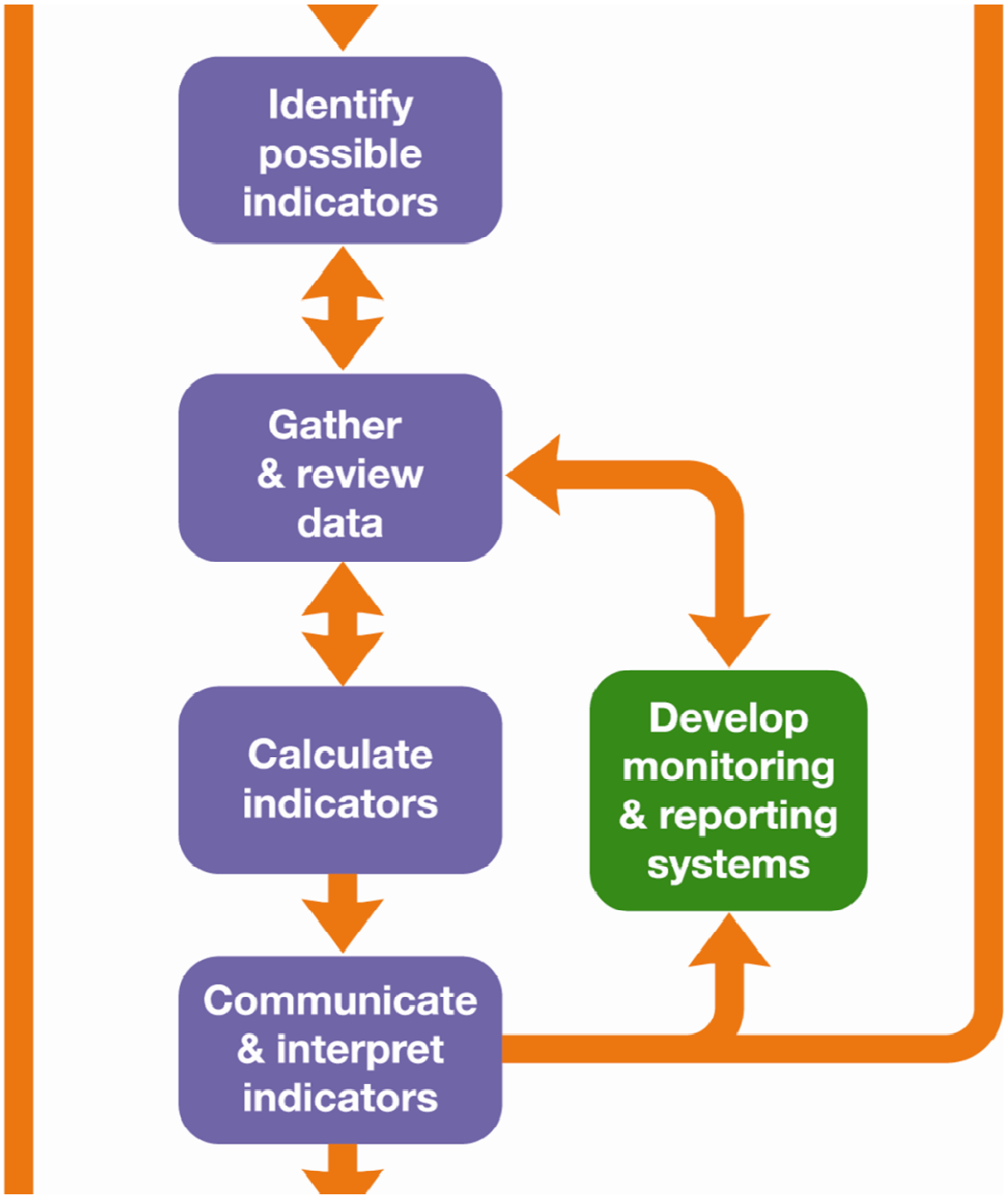
**Permanence**

**Purpose**

Production

Permanence



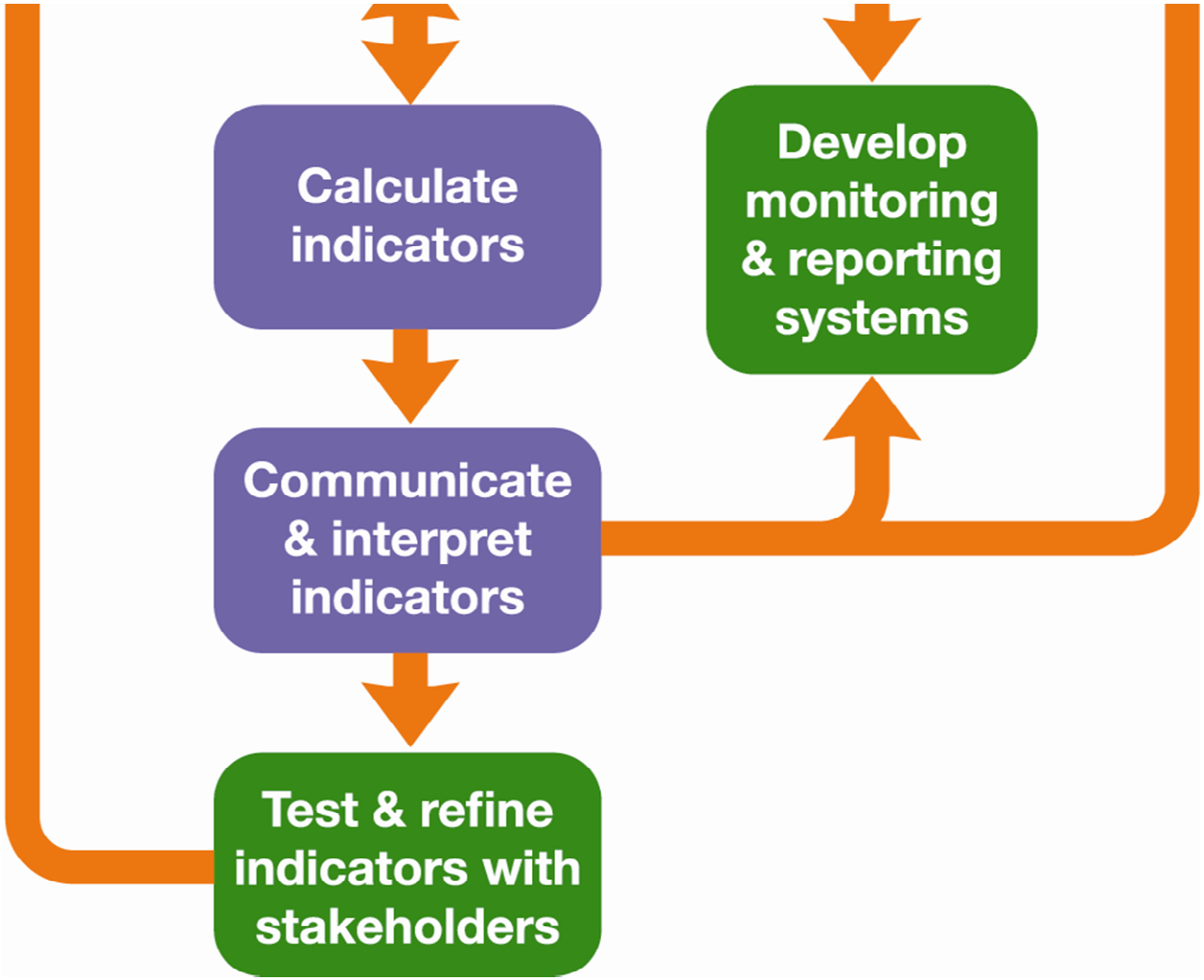



Purpose

**Production**

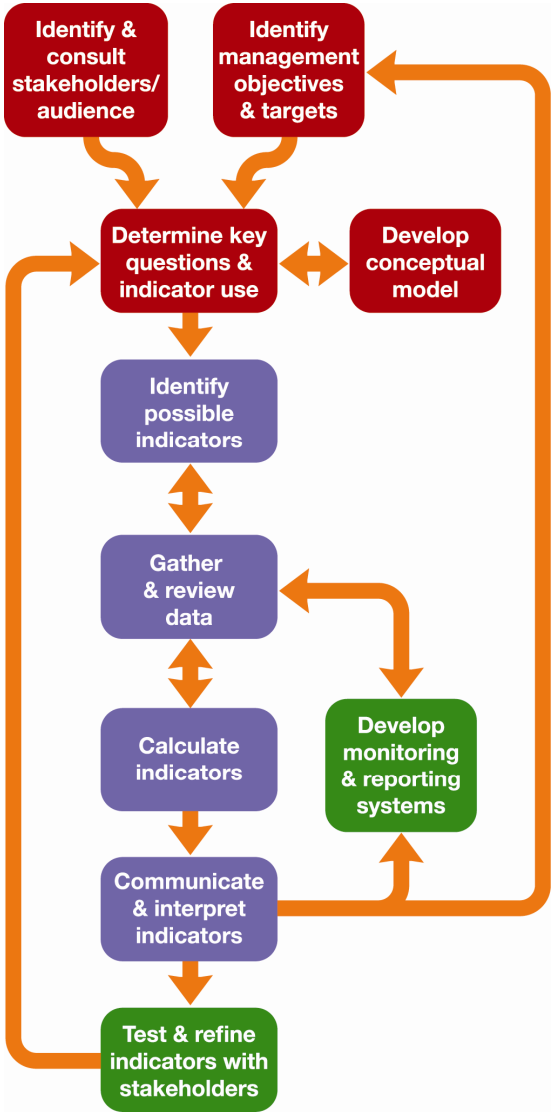
Permanence

Purpose
Production
**Permanence**



Biodiversity Indicators Partnership

UNEP WCMC



## To consider...

- **"Narrative":** ***What story are you telling?***
- **<u>Understand</u> your data:** ***limitations, provenance***
- **Don't try to answer everything at once:** ***one indicator will rarely tell you all you want to know***

# Difference between a target and an indicator?

# Distinction between Targets and Indicators

***National Target:***

Increase terrestrial Protected Area coverage from 5% of the country to 15% by 2020

# Difference between Targets and Indicators

***National Target:***

Increase terrestrial Protected Area coverage from 5% of the country to 15% by 2020

***Indicators?***

- **15% terrestrial Protected Area coverage**

# Difference between Targets and Indicators

***National Target:***

Increase terrestrial Protected Area coverage from 5% of the country to 15% by 2020

***Indicators?***

- 15% terrestrial Protected Area coverage
- **Increase in Protected Area coverage**

# Difference between Targets and Indicators

***National Target:***

Increase terrestrial Protected Area coverage from 5% of the country to 15% by 2020

***Indicators?***

- 15% terrestrial Protected Area coverage
- Increase in Protected Area coverage
- **Protected Area coverage**

# Difference between Targets and Indicators

***National Target:***

Increase terrestrial Protected Area coverage from 5% of the country to 15% by 2020

***Indicators?***

- 15% terrestrial Protected Area coverage
- Increase in Protected Area coverage
- Protected Area coverage
- **Percentage Protected Area coverage**

## To consider...

- **"Narrative":** ***What story are you telling?***
- **<u>Understand</u> your data:** ***limitations, provenance***
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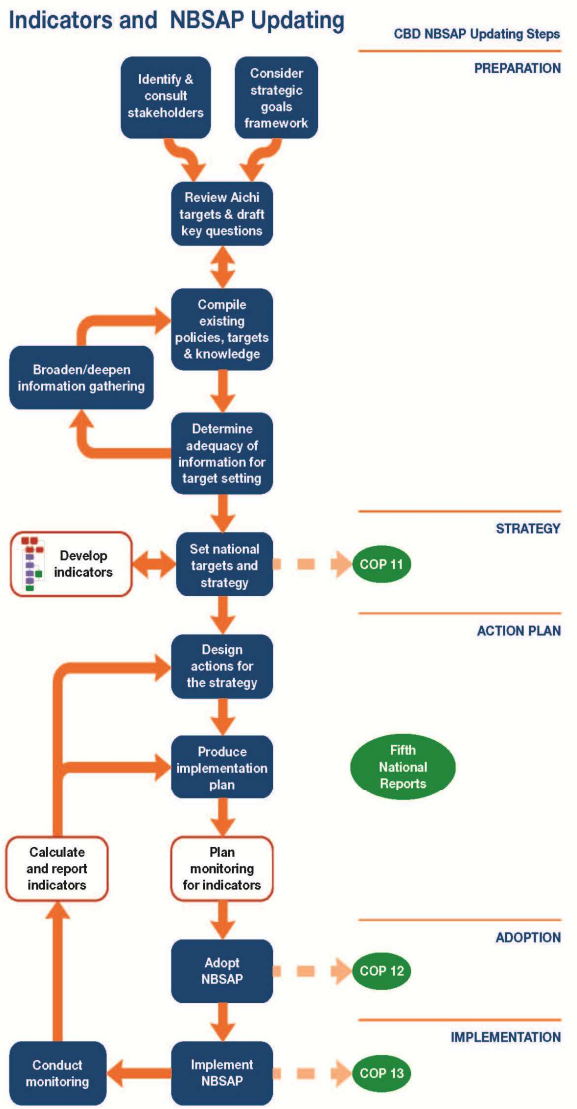
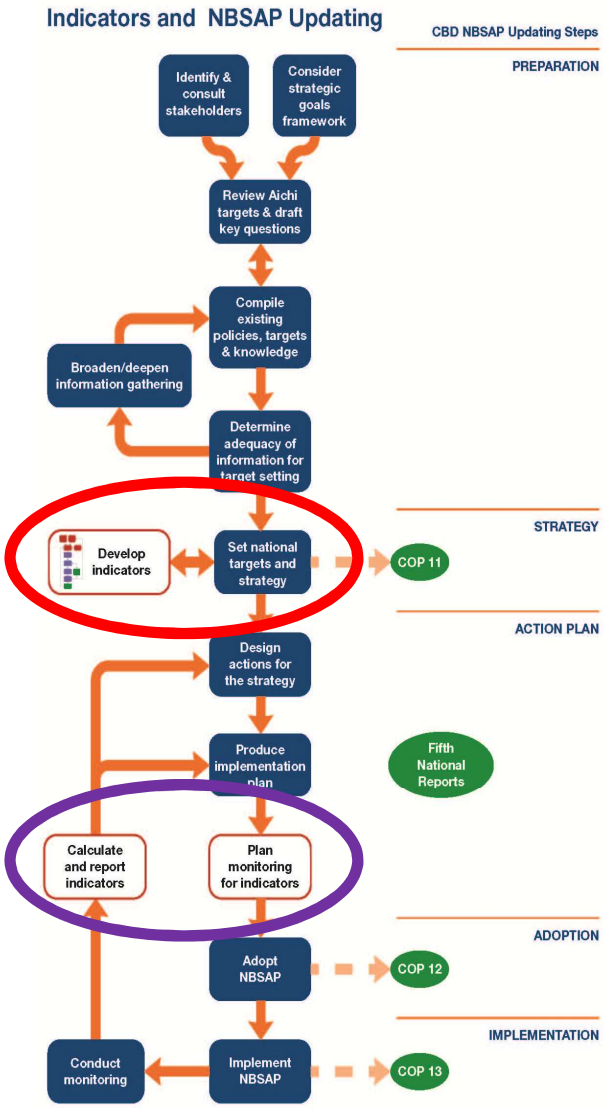



# Indicators and NBSAP updating

Biodiversity Indicators Partnership

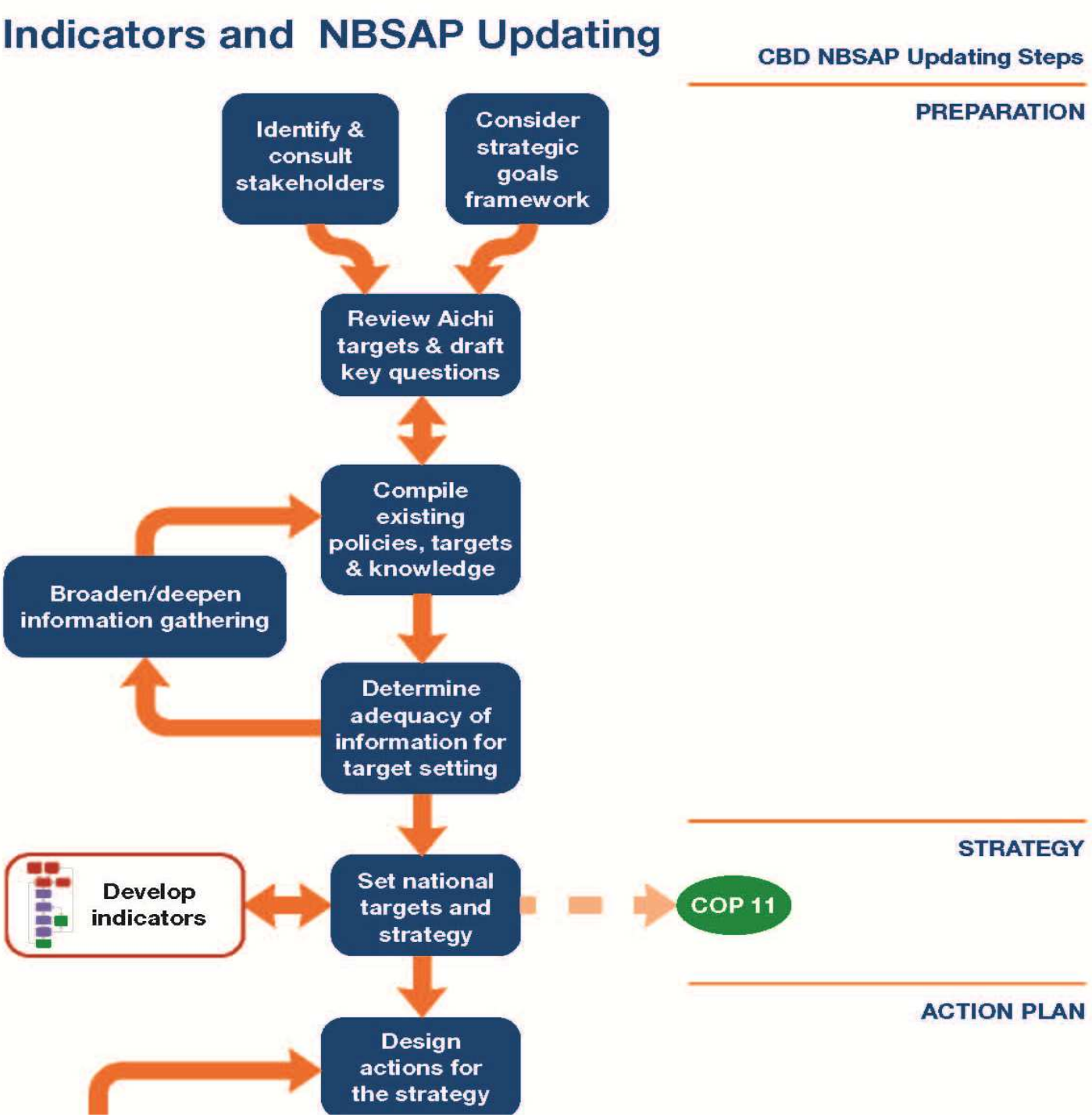


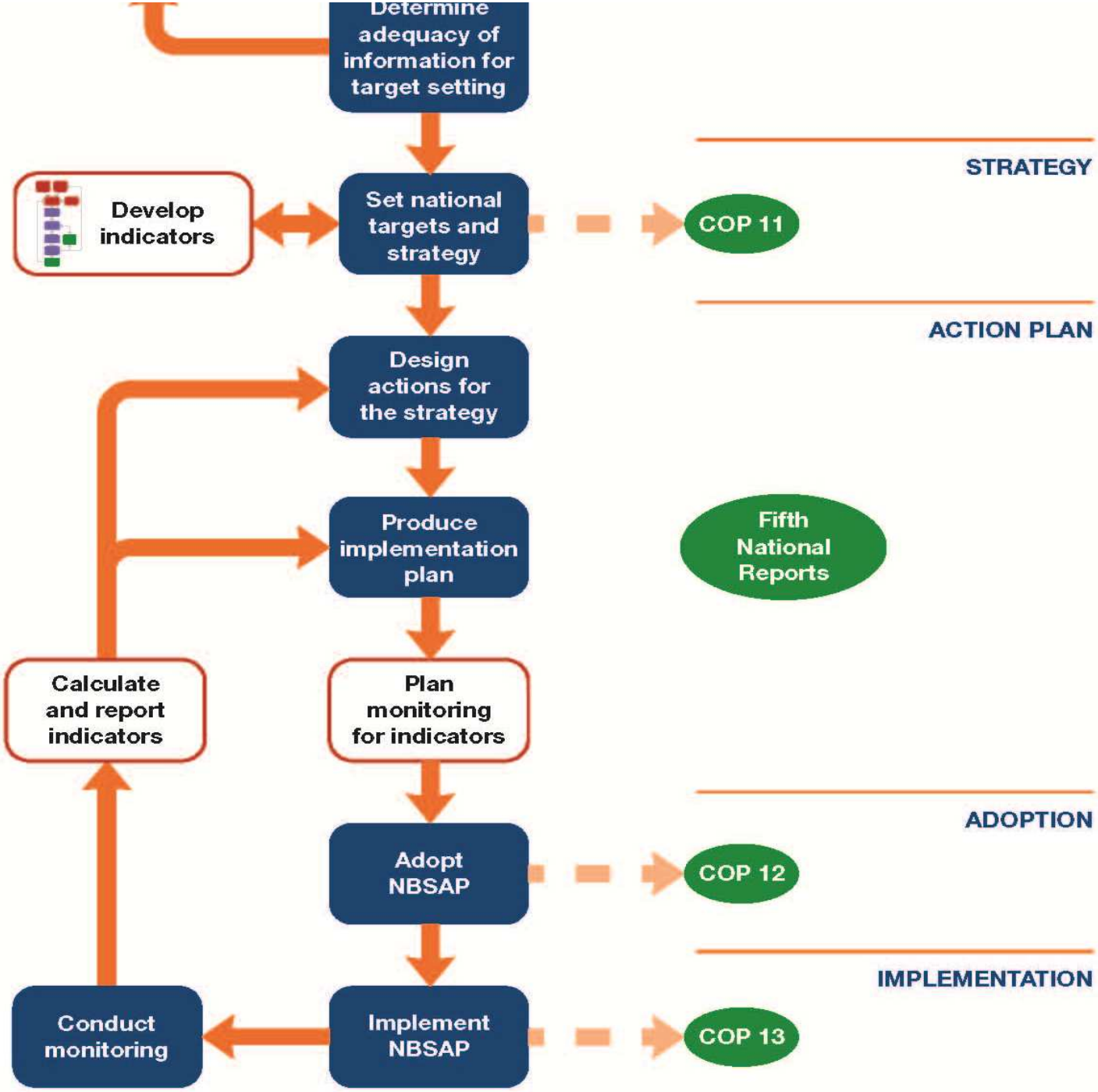

# Indicators and NBSAP updating

***Indicators and target setting***

***Indicators and implementation***

# Indicators and NBSAP Updating




Determine adequacy of information for target setting
STRATEGY
Develop indicators
Set national targets and strategy
COP 11
ACTION PLAN
Design actions for the strategy
Produce implementation plan
Fifth National Reports
Calculate and report indicators
Plan monitoring for indicators
ADOPTION
Adopt NBSAP
COP 12
IMPLEMENTATION
Conduct monitoring
Implement NBSAP
COP 13

| | |
|---|---|
| Workbook 1 | **Defining purpose of indicators** |
| Workbook 2 | **Target setting** |
| Workbook 3 | Developing a conceptual model |
| Workbook 4 | Identifying indicators |
| Workbook 5 | Gather and review data |
| Workbook 6 | **Calculate indicators** |

**Aichi Target 5:**

By 2020, the rate of loss of all natural habitats, including forests, is at least halved and where feasible brought close to zero, and degradation and fragmentation is significantly reduced.

# Consult Stakeholders

…important that the target meets the country's needs and addresses priority concerns

# Group exercise: Defining purpose of indicators

- Identify 3 priority key questions regarding habitat loss and conservation, and setting a national version of Aichi Target 5 that are likely to be important for your (fictional) country

- Group **discussion** – “possible key questions?”(15 mins)
- **List** key questions and **justification** (15 mins)
- Group **report back** and discussion (5 mins per group)

# Group exercise: Defining purpose of indicators

*Key questions:*

# Group exercise: Target setting

- Choose 1 key question from workbook 1. Propose 1-3 potential targets that respond to this question. Use the information collected by your "team" (see workbook pages 2/3 to help.

- Group **discussion** – "possible targets?"(15 mins)
- **List** 1-3 targets and **justification** (10 mins)
- Group **report back** and discussion (5 mins per group)

## Group exercise: Defining purpose of indicators

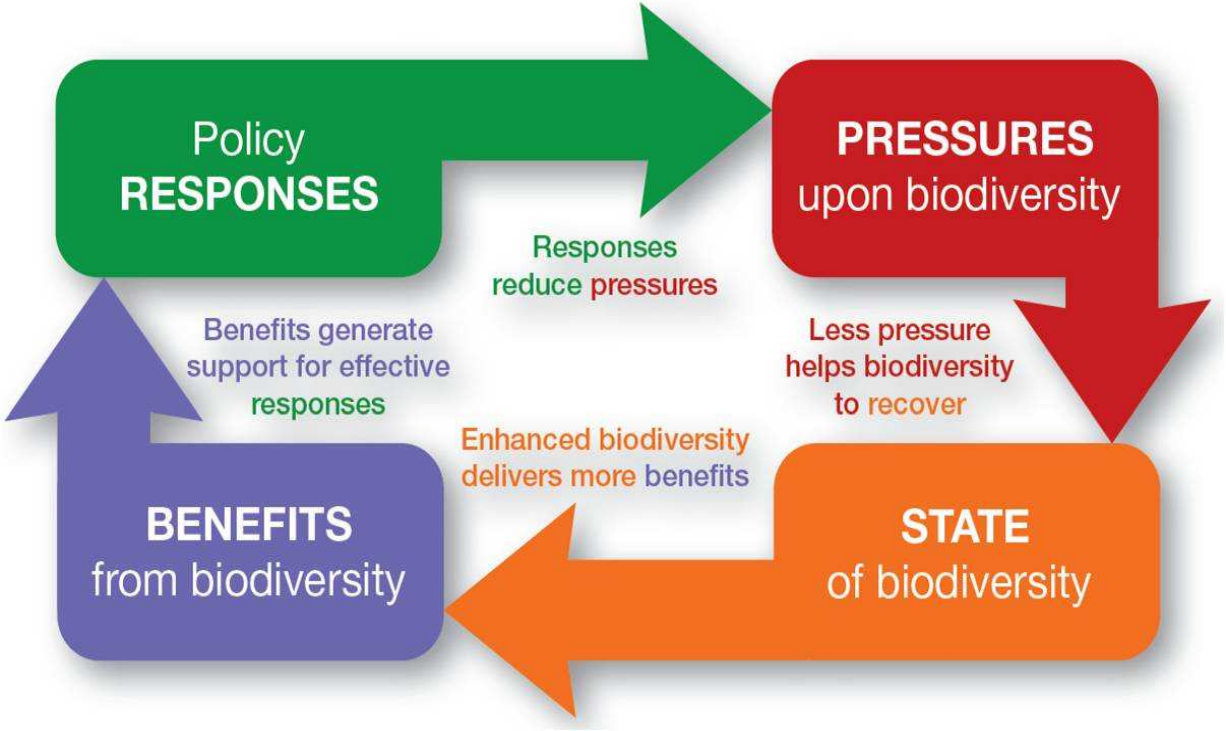
*Key question:*

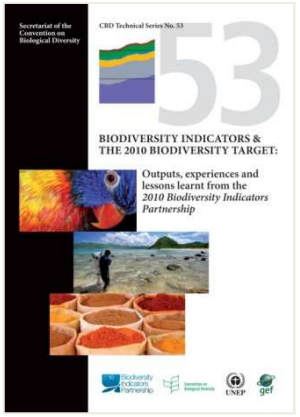
*Possible targets:*

## The Partnership to 2020 - Expansion in national capacity-strengthening will include...

- **further regional workshops to support development of national indicators**
- **development of a guidance "toolkit" for online and remote learning**
- **further development of a www.bipnational.net based on clearly identified needs**
- **Development of 'Training of Trainers' programme**

Biodiversity Indicators Partnership





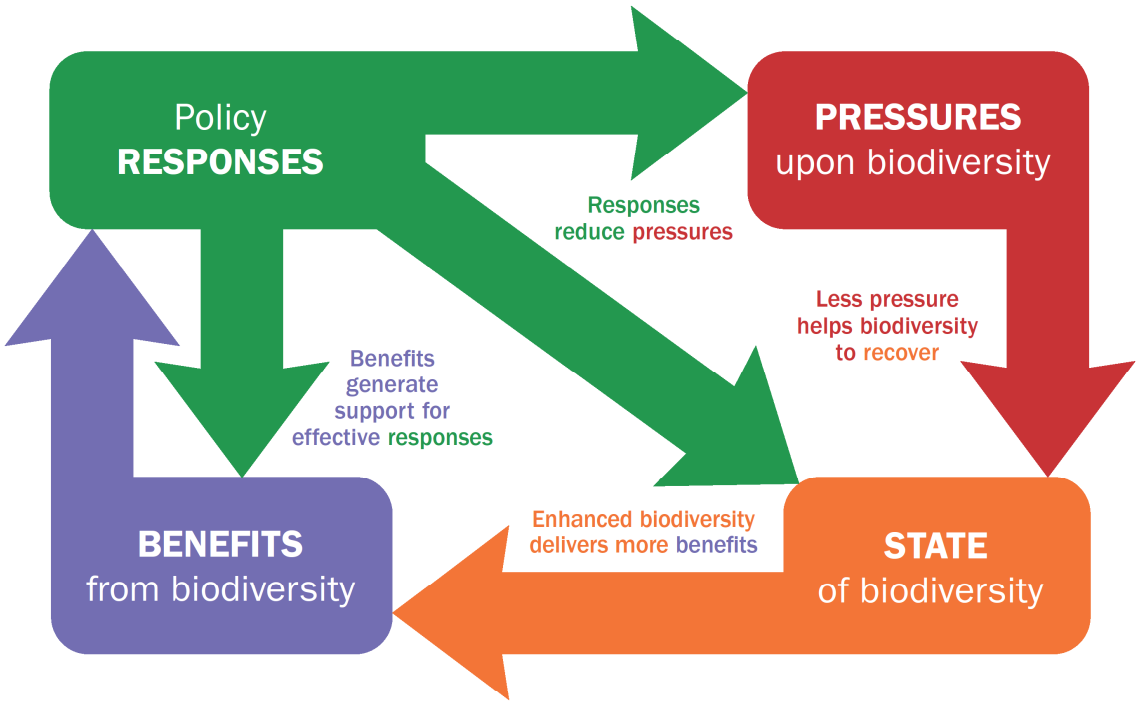

**www.bipindicators.net/linkedindicators**

Sparks et al (2011) Linked indicator sets for addressing biodiversity loss, *Oryx*, **45(3):** 411–419

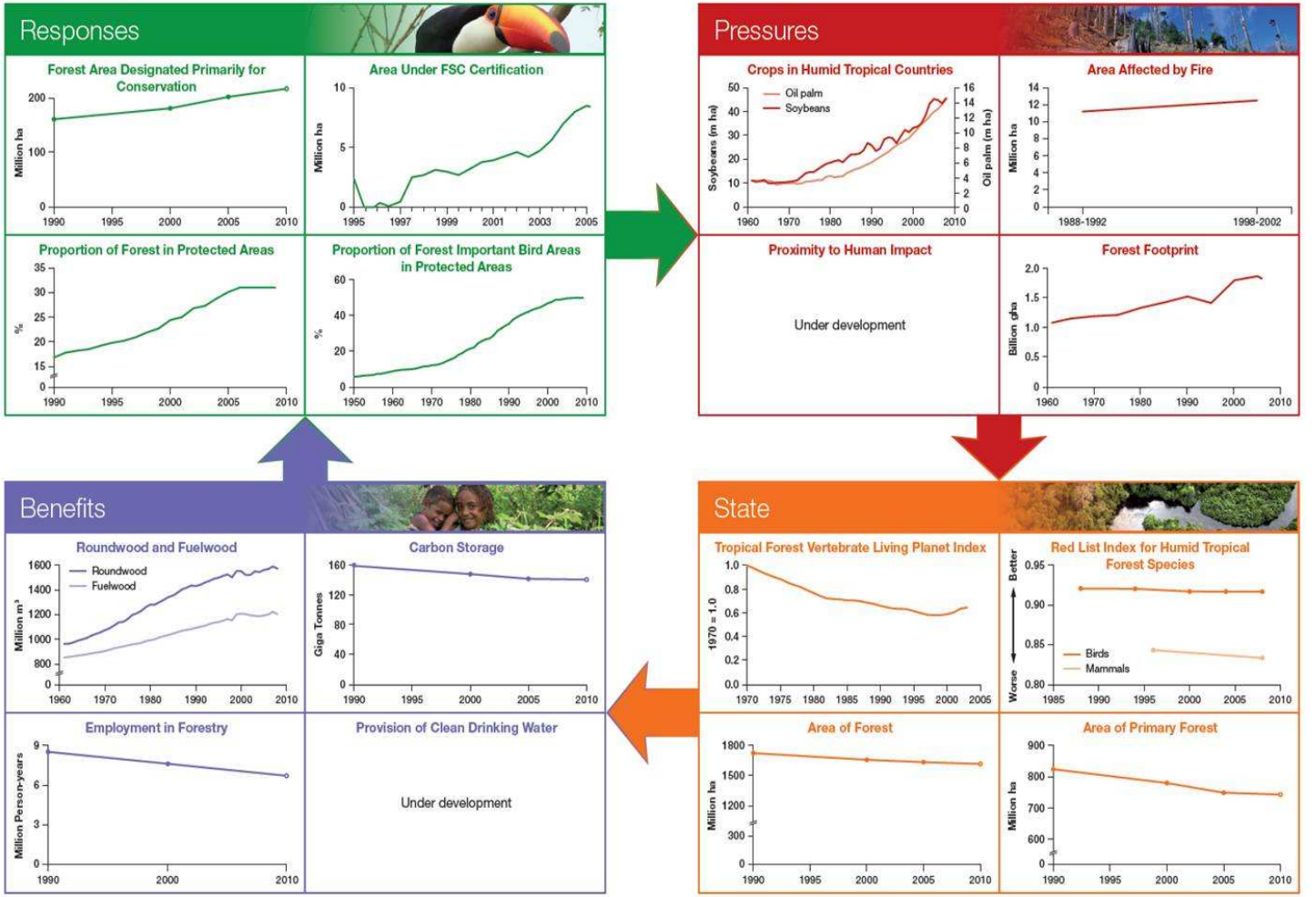
# AHTEG: conceptual model

***What do we do about biodiversity loss?***

***Why are we losing biodiversity?***




***What are the implications of biodiversity loss?***

***How is the status of biodiversity changing?***

Biodiversity Indicators Partnership