



Indicators and their uses

**CBD Regional workshop for Central & Eastern Europe & Central Asia on
Updating National Biodiversity Strategies & Action Plans**

11 September 2012

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Cambridge, UK**

Day's objectives (1)

- Understand:
Indicators relating to targets
- Explore:
information /data needs and availability
- New ideas:
experiences from neighbouring countries

Day's objectives (2)

- Understand:
“Indicators are purpose dependent”
- Introduce:
BIP Biodiversity Indicator Development Framework
- Collaborate:
national, regional, global

Plan

9:00	What is an indicator?
9:20	Difference between targets and indicators
9:45	Indicators & monitoring
<i>Group exercise</i>	
10:15	Defining the purpose of indicators
11:15	Break
11:45	Compiling information & target setting
13:00	Lunch
14:00	Calculate indicators
15:30	Break
16:00	Continuation of exercise & Conclusions



Biodiversity Indicators Partnership (BIP)

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





2007-2010 Programme

A framework to assist indicator developers

Guidance Documents

National Indicators web-portal

www.bipnational.net







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



Workshop for the Balkan region

- 1st of two workshops – support countries in developing national biodiversity indicators
- 8 countries – Albania, Bulgaria, Bosnia & Herzegovina, Croatia, Greece, Macedonia, Montenegro and Serbia
- Planned for January/February 2013
- In collaboration with PEBLDS
- Working to identify host country?

What is an indicator?

What is an indicator?

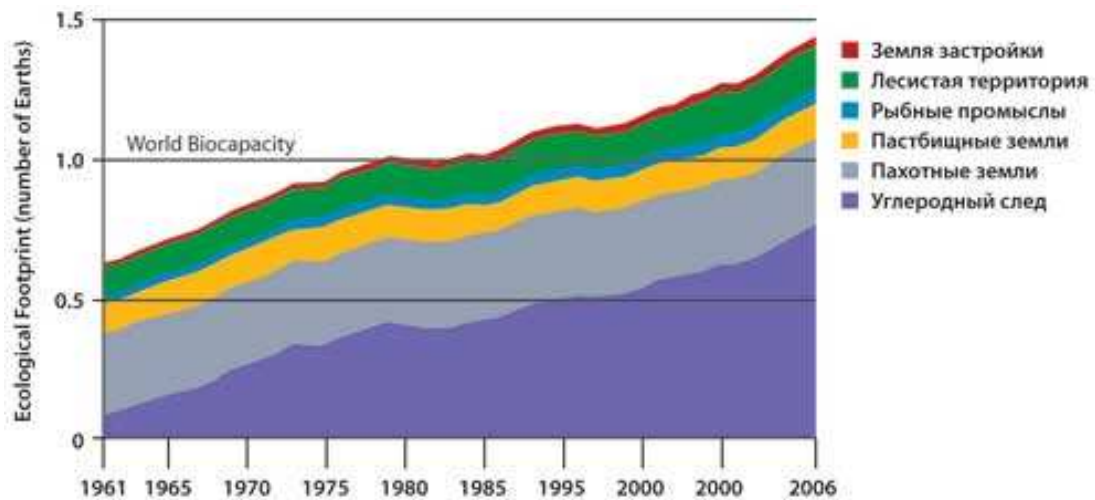
“A measure based on verifiable data that conveys information about more than itself”

Indicators are purpose dependent...

“interpretation depends on the purpose or issue of concern”

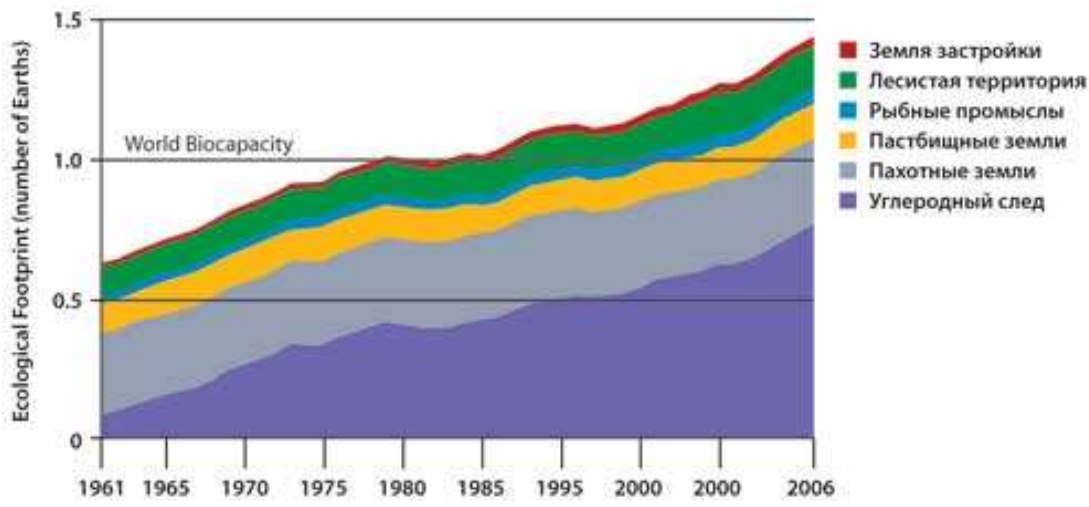
What is an indicator?

Temporal

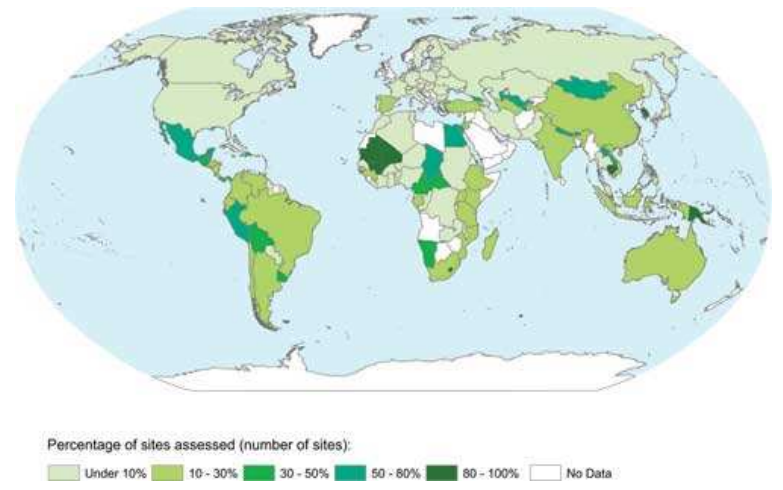


What is an indicator?

Temporal



Spatial



What makes a successful indicator?



What makes a successful indicator?



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?



Scientifically valid

Based on available data

Responsive to change in issue of interest

Easily understandable

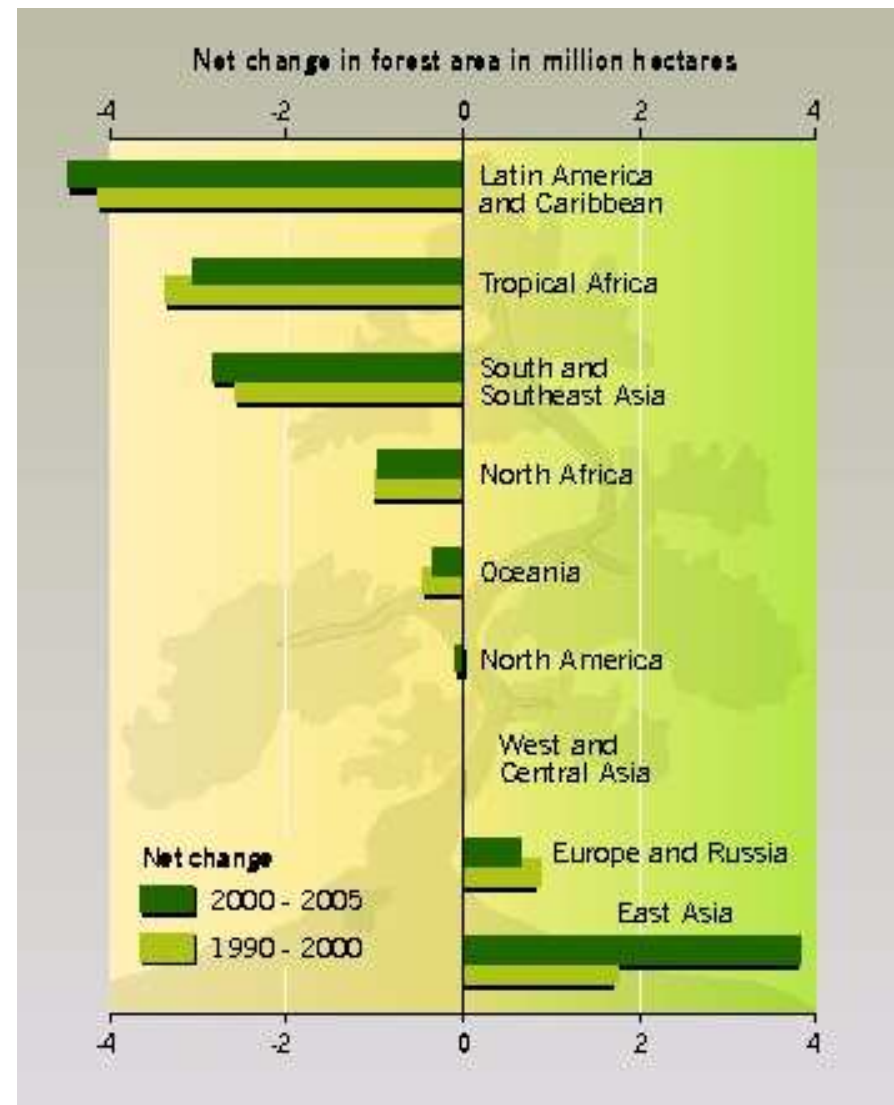
Relevant to user's needs

Used!

Obstacles to successful indicators

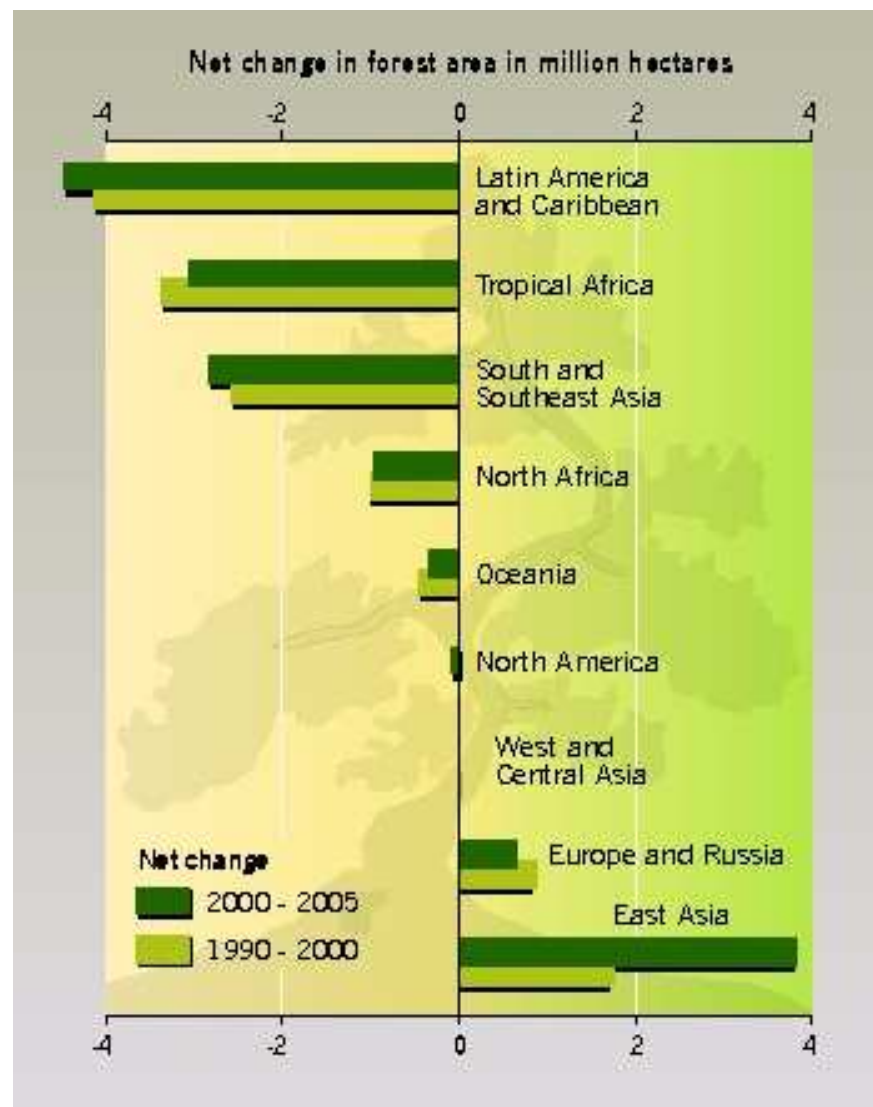
- **Lack of resources (funding, expertise, data)**
- **Insufficient stakeholder/audience consultation**
- **Project-based data collection and/or management**
- **Data utilised not sensitive to change**
- **An after-thought to a wider process of strategy development and target setting**

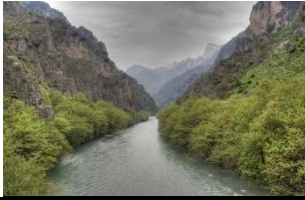
Net change in forest area over time...



Net change in forest area over time...

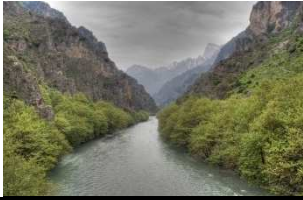
- *availability of forest resources?*
- *progress in forest conservation?*
- *intensity of threats to forest ecosystems?*
- *investment in plantations?*
- *change in soil cover and erosion?*
- *change in forest carbon sequestration?*
- *conservation status of forest-dependent species?*
-





Multiple purposes of indicators

- Track progress in achieving targets

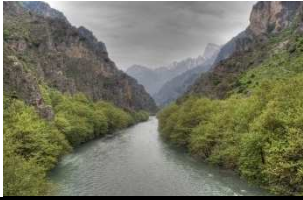


Multiple purposes of indicators

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

Highlight where action is needed

Adaptive management



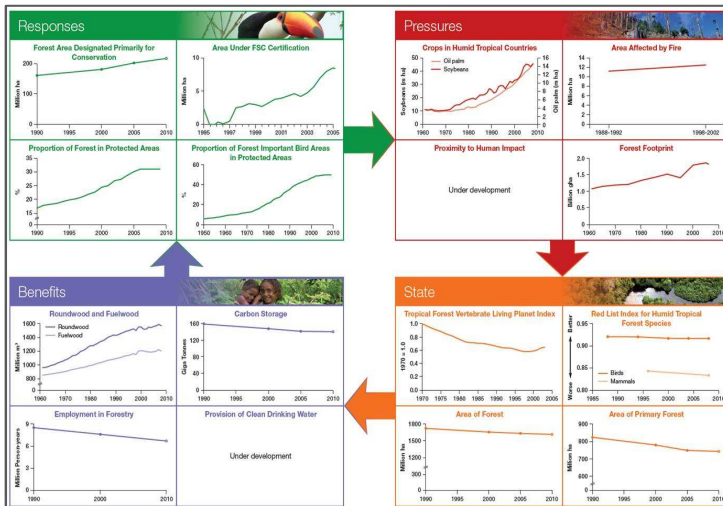
Multiple purposes of indicators

- 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?

linked...



dashboards



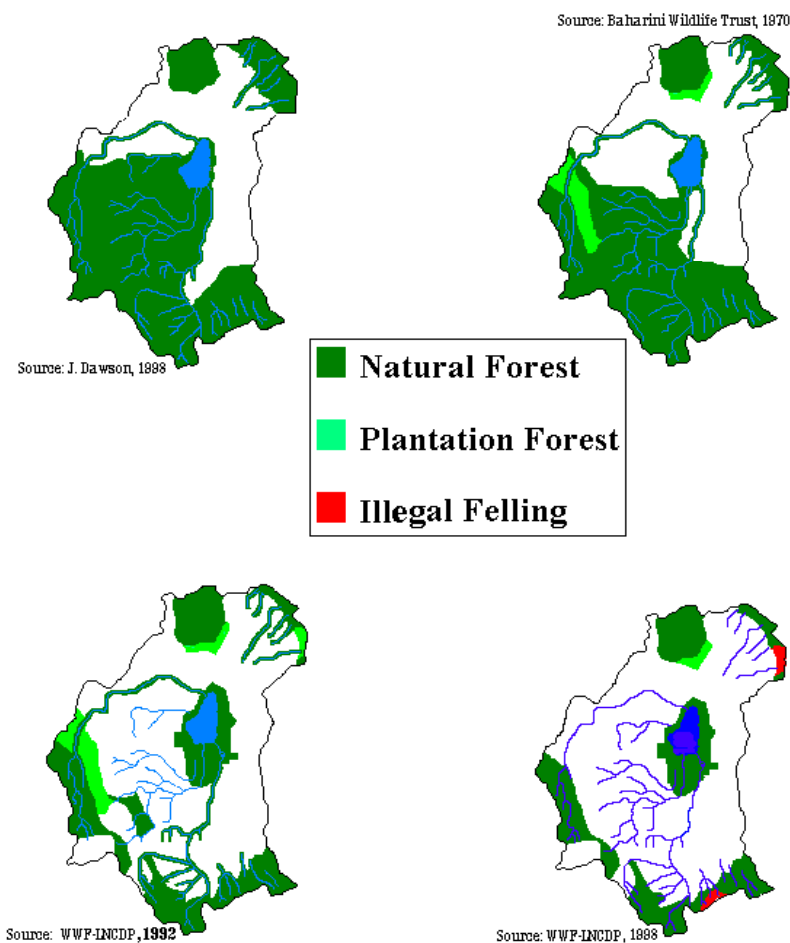
warnings



Multiple purposes of indicators

e.g. The Policy making cycle

LAKE NAKURU CATCHMENT BASIN CHANGES IN FOREST COVER - 1930-1998

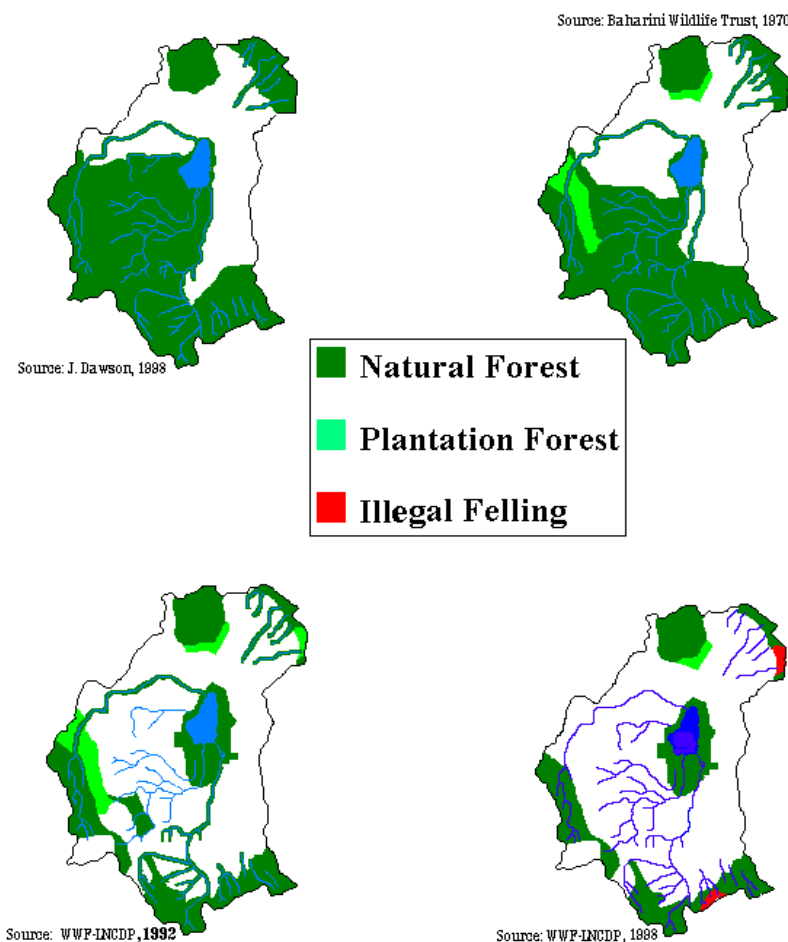


Multiple purposes of indicators

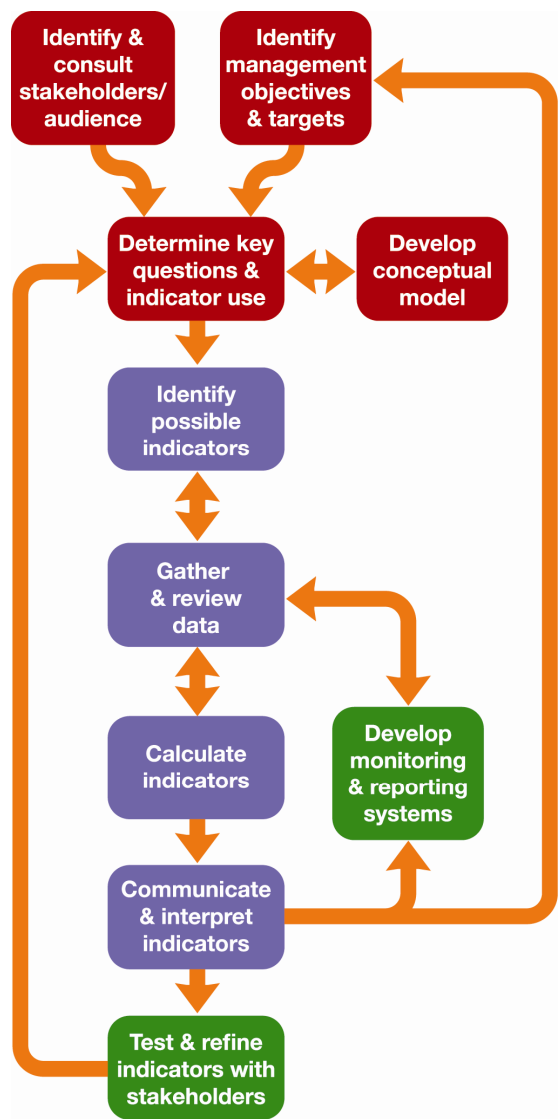
e.g. The Policy making cycle

- **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)

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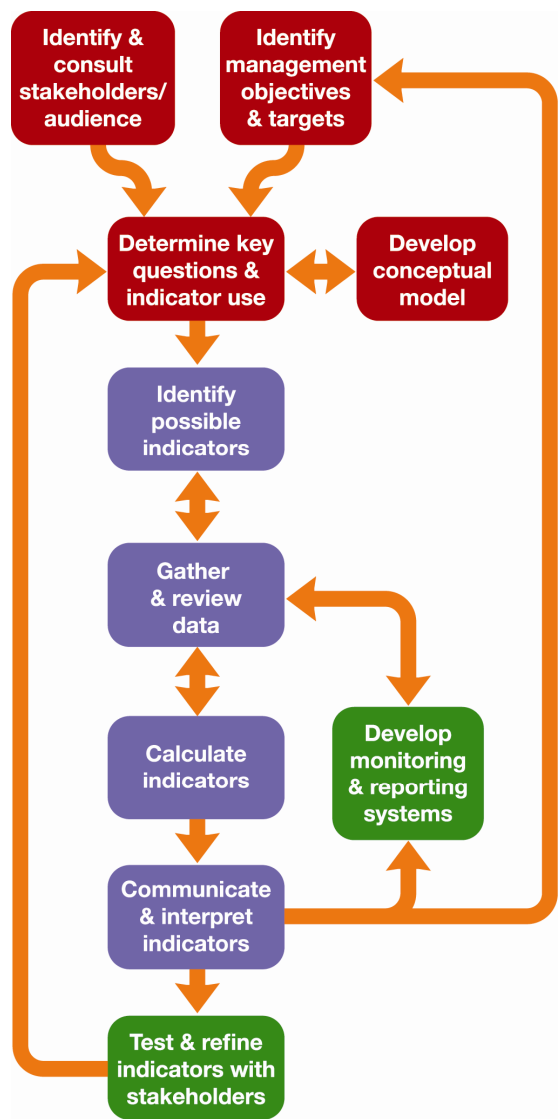


The Biodiversity Indicator Development Framework

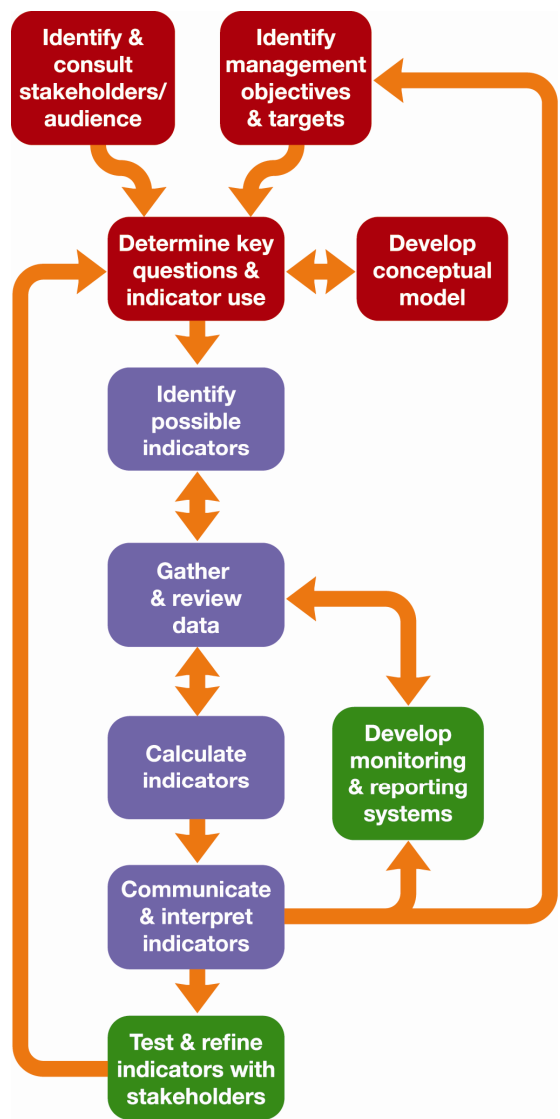


www.bipnational.net





“National governments and regional organizations using and contributing to the improved delivery of global indicators”

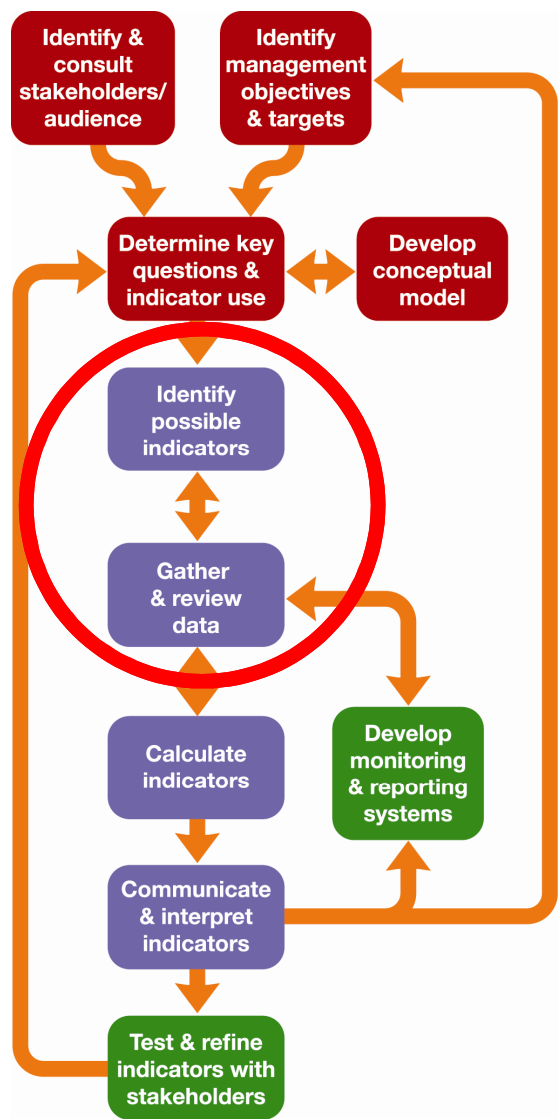


~~“National governments and regional organizations using and contributing to the improved delivery of global indicators”~~

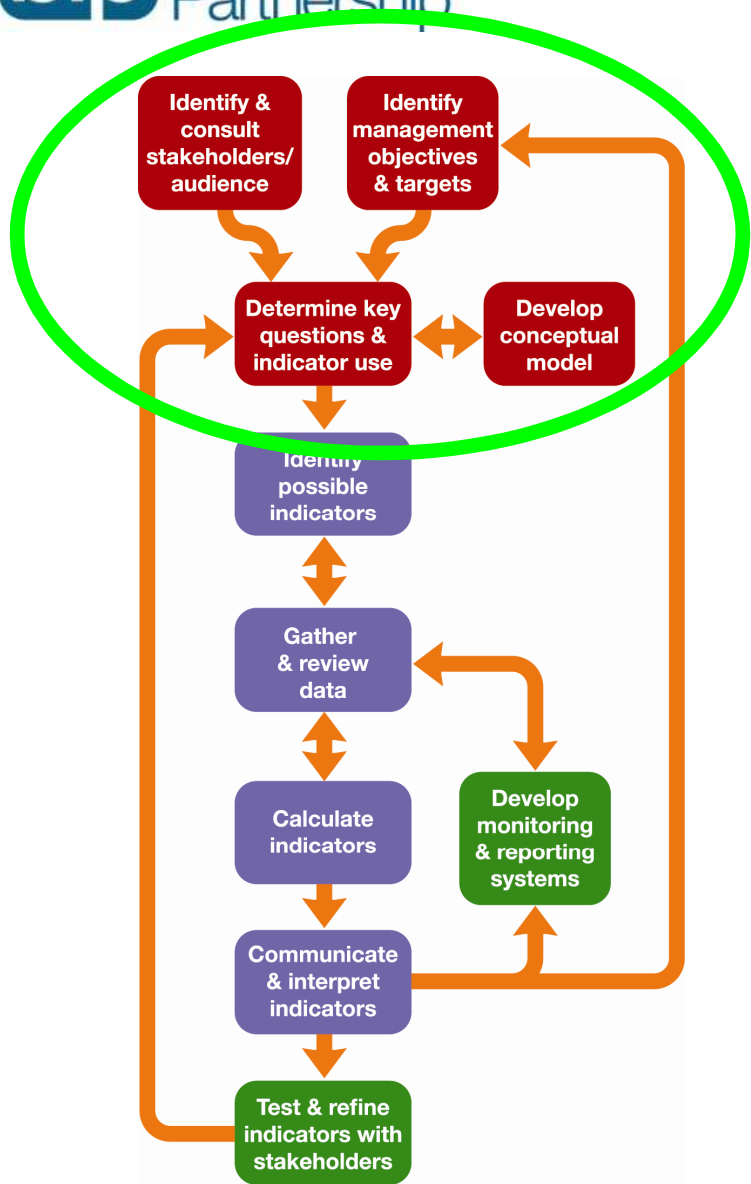
“National governments developing and using indicators relevant to national priorities”

Capacity building in 70+ Countries

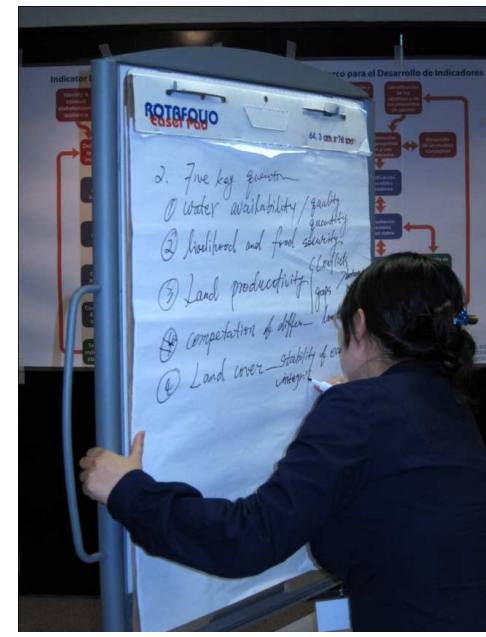
- South East Asia
- South Asia
- Caribbean
- Mesoamerica
- Eastern Africa
- Southern Africa

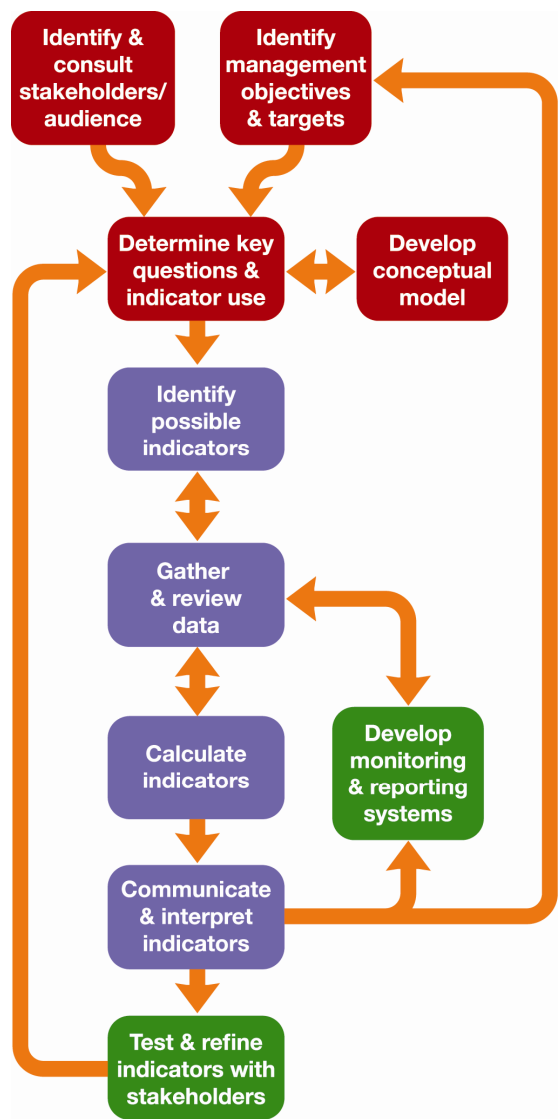


Common start point



~~Common start point~~
Found to be a more successful start point



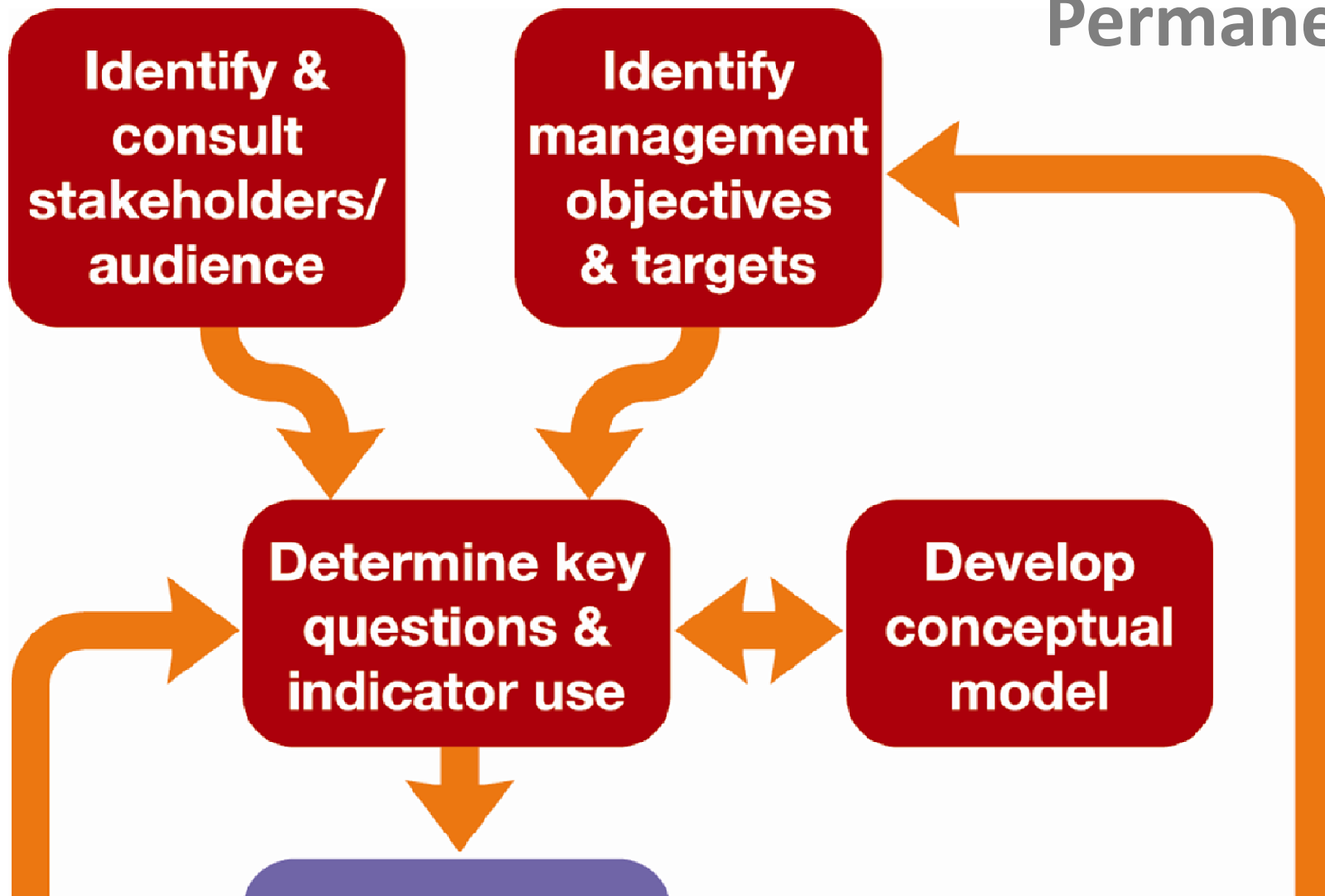


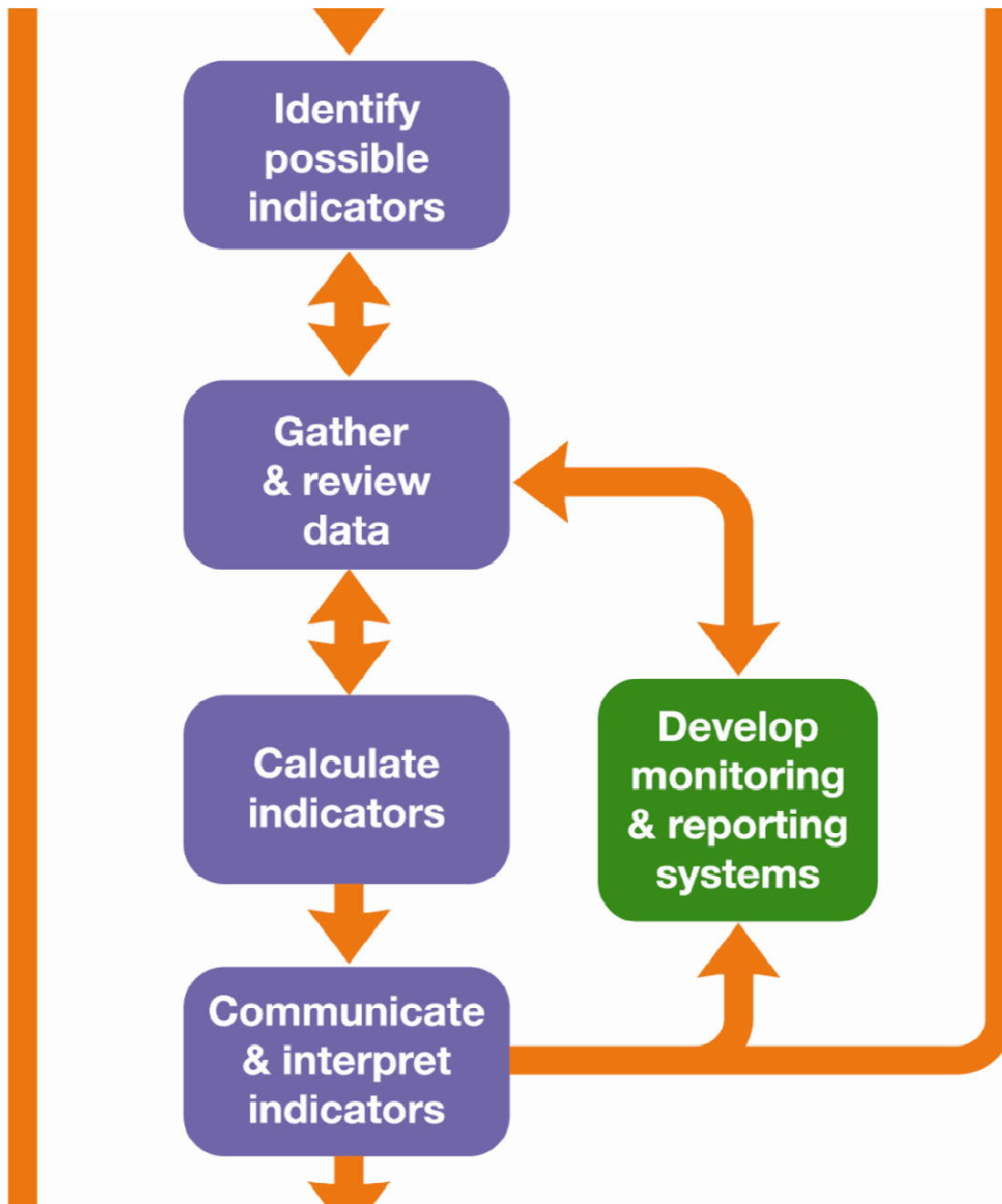
Purpose

Production

Permanence

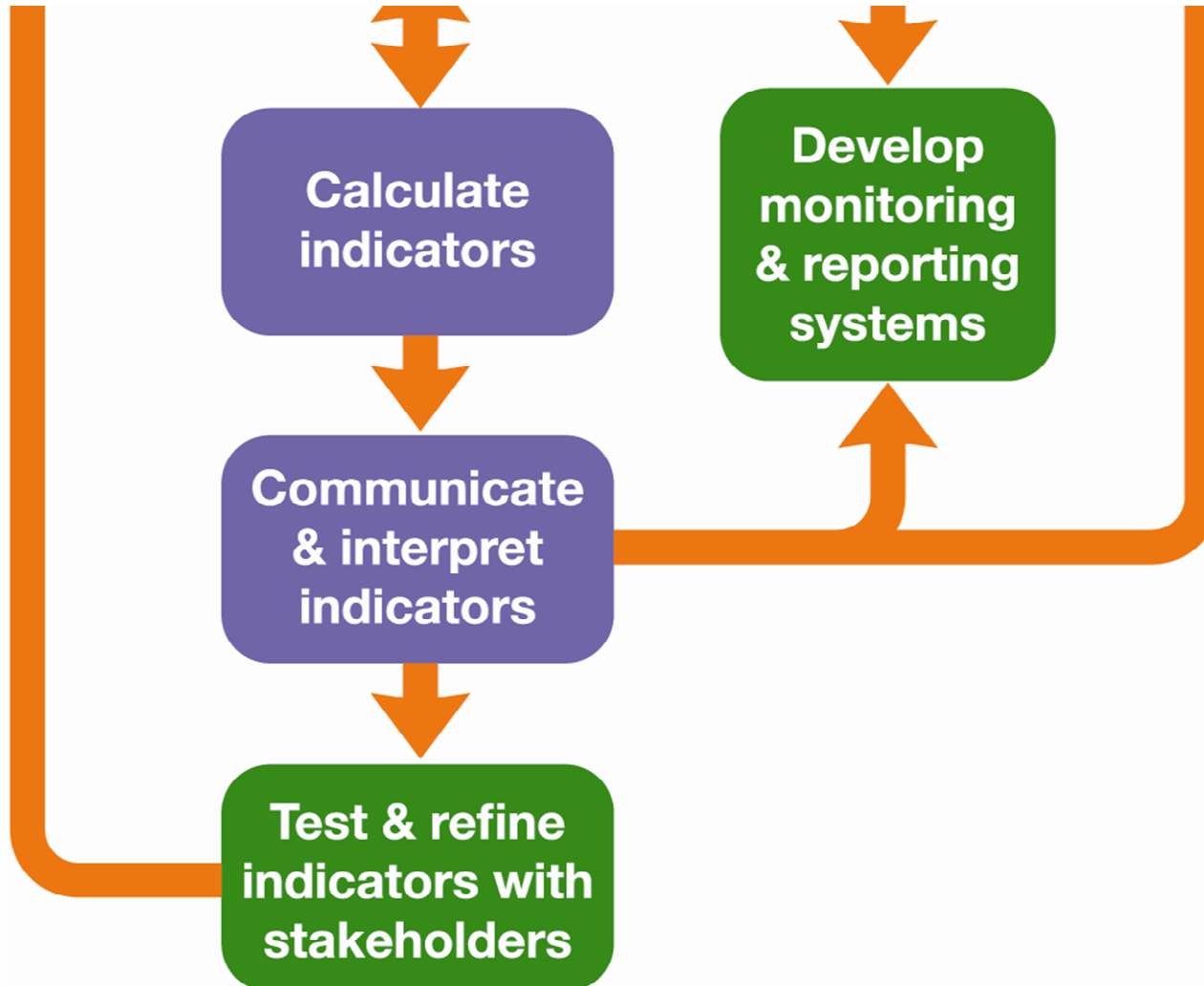
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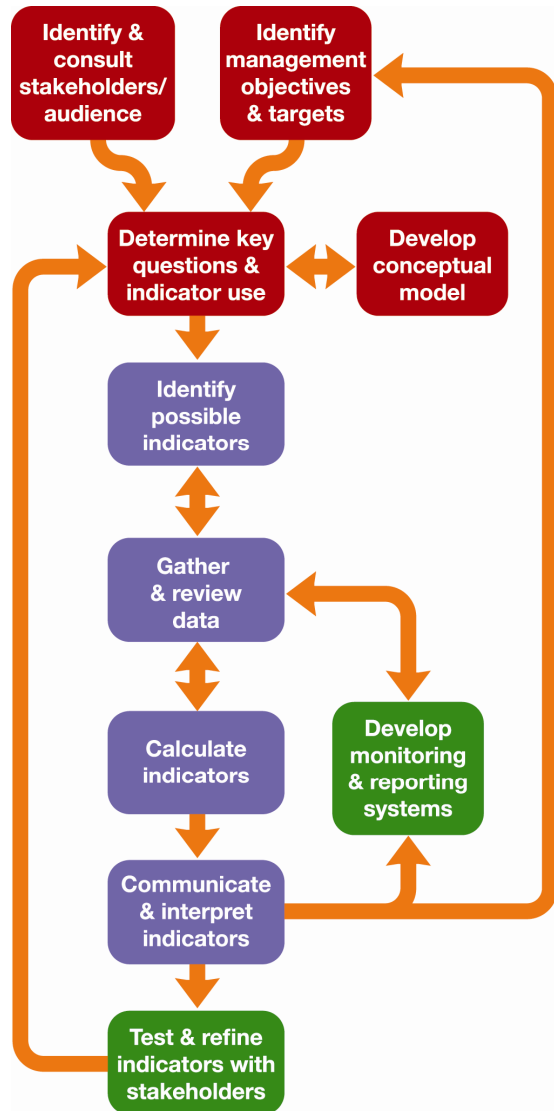




Purpose
Production
Permanence

Purpose
Production
Permanence





To consider...

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

Some key messages for using indicators

- Understand your data: their strengths, their limitations, where they come from.
- Always put your indicators in context.
- Don't try to answer everything at once: one indicator will never tell you all you want to know.

Some key messages for using indicators

- What story are you trying to tell?

Some key messages for using indicators

- Who are you trying to tell the story to?

Some key messages for using indicators

- Indicators should lead on to other things – they are not ends in themselves.

Distinction between Targets and Indicators (1)

National Target:

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

Indicators?

- Increase in Protected Area coverage
- Protected Area coverage
- Percentage Protected Area coverage

Distinction between Targets and Indicators (2)

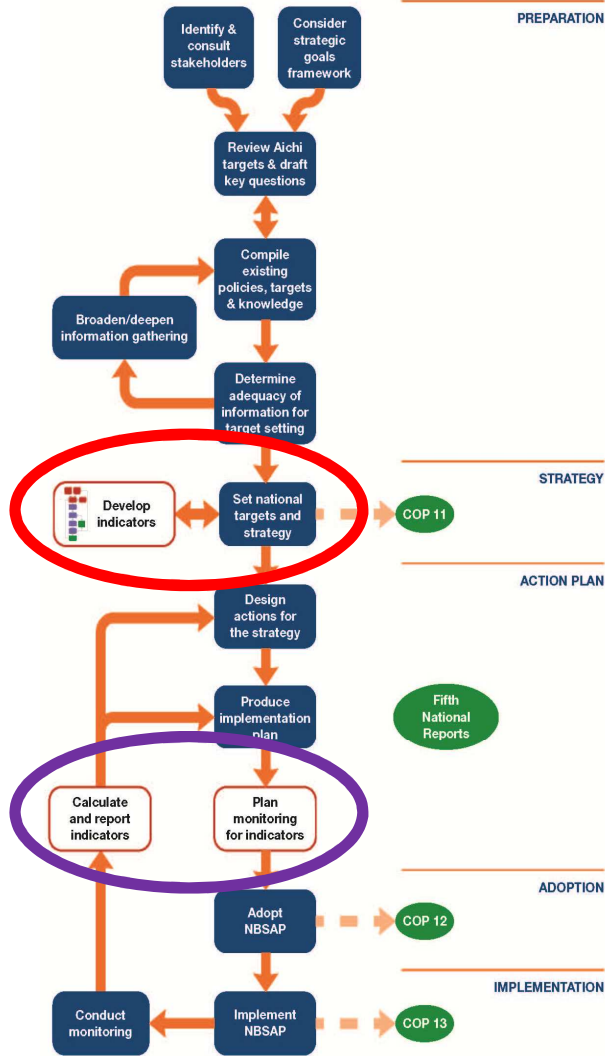
National Target:

By 2015, reduce the level of fisheries
by-catch by 10% to 50,000 tonnes per year

Indicators?

Indicators and NBSAP Updating

CBD NBSAP Updating Steps



Indicators and NBSAP updating

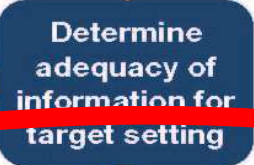
Indicators and target setting

Indicators and implementation

Indicators and NBSAP Updating

CBD NBSAP Updating Steps

PREPARATION

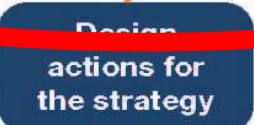


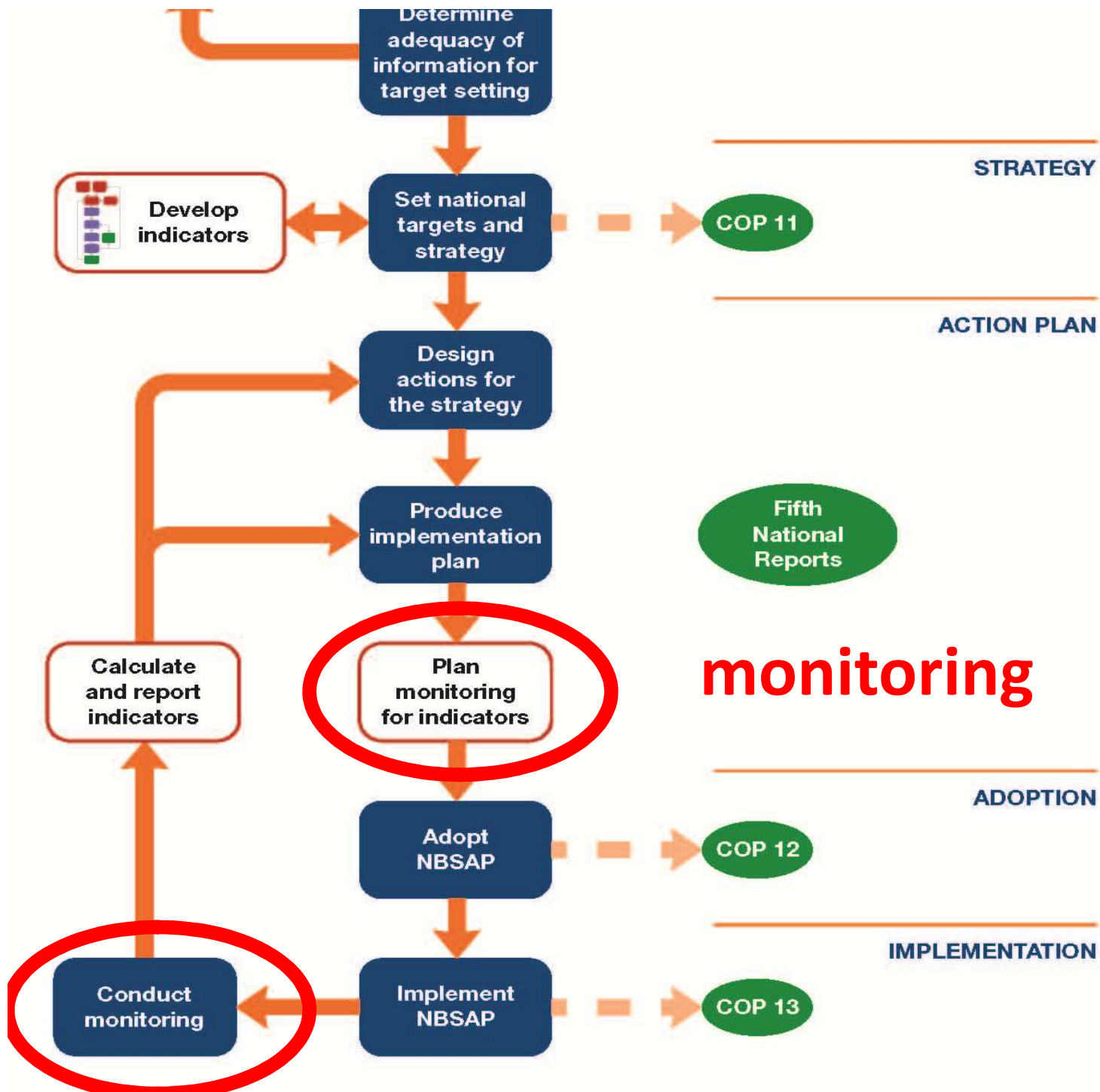
current situation

STRATEGY



ACTION PLAN





Why monitor?

...to detect change

- **Curiosity driven / Mandated / Question driven**

(Lindenmayer and Likens, 2010, *Biological Conservation* **143** 1317–1328)

- **Drivers of change? (anthropogenic, natural dynamics, climate change)**

- **Resource limitations**

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Obstacles to successful indicators

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