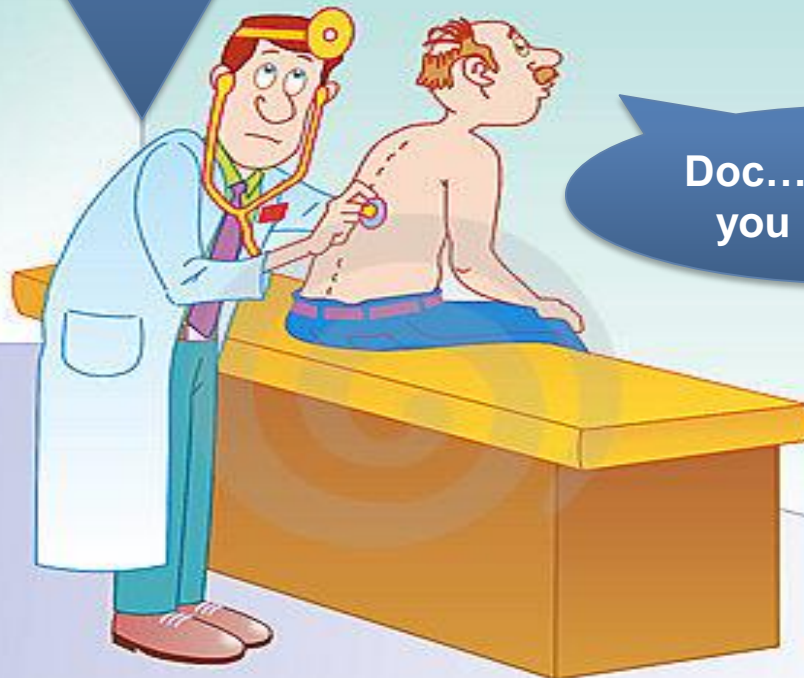


Session 18.

Core indicators

Don't worry Mr. Fiji...will
check you up and provide
a prescription to better
your sickness!!



Doc....please can
you help me!!!

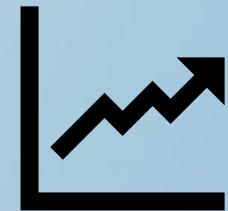
dreamstime.com

SOE is The Check Up – NEMS is the Prescription

What are indicators?

Human body temperature

Classed as:	Celsius
Hypothermia	<35.0°C
Normal	36.5 - 37.5°C
Fever / Hyperthermia	>37.5 or 38.3°C
Hyperpyrexia	>40.0 or 41.5°C

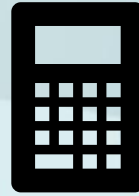


Purpose of environmental indicators

- Provide update on state of environment
- Trends – improving or deteriorating?
- Identify priority actions to improve states and trends e.g. policy reform
- Monitor effectiveness of interventions

What makes a good environmental indicator?

- Measurable
- Repeatable
- Indicates broader environmental conditions
- e.g. tree cover:



Objectives

- Develop a set of 'core' environmental indicators for tracking environmental condition in the Pacific
- Aid in prioritising environmental spending
- Map core indicators to SDGs and MEAs
- Available for adoption by all PICs

'Themes'

- Environmental Monitoring and Governance
- Island and Ocean Ecosystems
- Waste Management and Pollution Control
- Climate Change Resilience

Example 1 – Native tree cover

Indicator Name	Native tree cover
Global Definition	Proportion of native tree cover in terrestrial and coastal environments
Pacific Definition	Proportion of native tree cover in terrestrial and coastal environments. Note that national definitions of native forests can be included.
Purpose/Rationale	This indicator is a proxy for native forest habitat in order to measure the amount of native terrestrial and coastal forest cover as an indicator of the state of the condition of these environments.
Desired Outcome	Stability or increase in the proportion of land cover dominated by native forest.
Measurement/Calculation	Hectares of native tree cover/total land area as derived from the best available satellite imagery and official land maps. Note that plantations, invasive species and non-native species are not included in this count.
Unit	Hectares
Range	Minimum 0, maximum 1

Example 1 – Native tree cover

Assumptions		Adequate access to land maps and satellite imagery. Satellite imagery resolution. Up-to-date land cover/use classification.
Limitations		May not fully capture restoration activities.
Baseline	2020	
Target	2025	
	2030 (SDGs reporting due)	
Preferred data sources		Ministry of Forestry, Ministry of the Environment, Department of land titles
Alternative data sources		Landsat, Global Forest Watch
Primary data collection system		Interpreted satellite imagery by Ministry of Forestry
Frequency		Annual
Regional Data Management Responsibility		SPREP/IOE
Data Management Responsibility		Ministry of Forestry, Ministry of Environment
Reporting		State of Environment Report

Example 1 – Native tree cover

Reporting	National	
Linkages	SPREP Plan	<p>Regional Goal 2.1 effectively manage and protect coastal ecosystems</p> <p>Regional Goal 2.2 conservation and sustainable use of coastal and terrestrial ecosystems</p>
	MEAs	<p>Noumea Convention: prevent, reduce and control pollution from any source and to ensure sound environmental management and development of natural resources</p> <p>Convention on Biological Diversity 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.</p> <p>Convention on Biological Diversity Aichi Target 7: By 2020 areas under agriculture, aquaculture and forestry are managed sustainably, ensuring conservation of biodiversity.</p>

Example 1 – Native tree cover

SDGs

6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

12.2 By 2030, achieve the sustainable management and efficient use of natural resources

15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements

15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species

Interactions with other SDGs

2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality

2.5 By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans

14.5 By 2020, conserve at least 10 per cent of coastal and marine areas, consistent with national and international law and based on the best available scientific information

Example 2 – Approved EIA reports for development proposals

Indicator Name	Approved EIA reports for development proposals
Global Definition	Percentage of EIA reports approved out of all submitted development reports
Pacific Definition	Percentage of EIA proposals approved out of all submitted development proposals
Purpose/Rationale	This indicator is a proxy for the Environment Ministry to carry out its enforcement duties.
Desired Outcome(s)	Proper application of the EIA process and enforcement of permit conditions, leading to improved compliance.
Measurement/Calculation	$[(\text{Number of EIA proposals approved} / \text{total number of development proposals submitted}) \times 100]$
Unit	%
Range	0-100

Example 2 – Approved EIA reports for development proposals

Rationale/ Assumptions		<p>A formal EIA process with imposed conditions limits damage to the environment caused by development in PICTs.</p> <p>That development process for EIAs is being followed and enforced by the regulating agency.</p>
Limitations		<p>Some PICTs do not have any policy frameworks to support EIAs. Other limitations include the lack of capacity and resources to support EIAs, and awareness of EIA is lacking. Also, the issue of lack of compliance and enforcement, including some government agency developments throughout PICTs that are not put through the EIA process, i.e. not screened, so are therefore not formerly recorded by the Environment Ministry/Department.</p>
Baseline	2020	
Target	2025	
	2030 (SDG)	
Preferred data sources		Internal reporting from Ministry of Environment with input from other Ministries, as appropriate
Alternative data sources		Donor and development partners, for example The World Bank, ADB and others, National Town Planning Ministries
Primary data collection system		Development applications

Example 2 – Approved EIA reports for development proposals

Data Management Responsibility		National Ministries
Regional Data Management Responsibility		SPREP/EMG
Reporting		State of Environment Report
Policy Linkages	National	
	NSDP	
	SPREP Plan	<i>SPREP Regional Goal 4.1</i>
	MEAs	<i>Noumea Convention:</i> prevent, reduce and control pollution from any source and to ensure sound environmental management and development of natural resources
		<i>Rio Convention:</i> UNFCCC, CCD, CBD <i>Basel, Rotterdam and Stockholm Conventions</i> <i>Waigani /Basel Convention</i> <i>Regional Seas Convention</i> <i>CITES, CMS, Ramsar, World Heritage</i> <i>UN Convention-Law of the Sea</i> <i>Espoo Convention</i>

Example 2 – Approved EIA reports for development proposals

SDGs	6.6 By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes
	7.2 By 2030, increase substantially the share of renewable energy in the global energy mix
	7.B By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support
	11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries
	11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage
	12.2 By 2030, achieve the sustainable management and efficient use of natural resources
	13.2 Integrate climate change measures into national policies, strategies and planning
	14.2 By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans
	15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements
	15.2 By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

Status Notes This indicator was developed by the EMG Programme.

Next steps

- Final input from SPREP Programmes
- Proof and formatting
- Available for PIC use

Questions?