



UNEP



AEIN/AEO/GEO processes

Workshop on Environmental
Statistics,
Addis Ababa, 16-20 July 2007





UNEP Mandate

Division Of Early Warning And Assessment

**To keep under review
the
state of the global
environment....**

*UNGA Resolution 2997 (XXVII) of
1972*



AFRICA ENVIRONMENT OUTLOOK



UNEP Mission

Division Of Early Warning And Assessment

To provide leadership and encourage partnership in caring for the environment by inspiring, informing, and enabling nations and peoples to improve their quality of life without compromising that of future generations



AFRICA ENVIRONMENT OUTLOOK



DEWA Mission

Division Of Early Warning And Assessment

To provide the world community with improved access to meaningful environmental data and information, and increase the capacity of governments to use such information for decision-making and action for sustainable human development



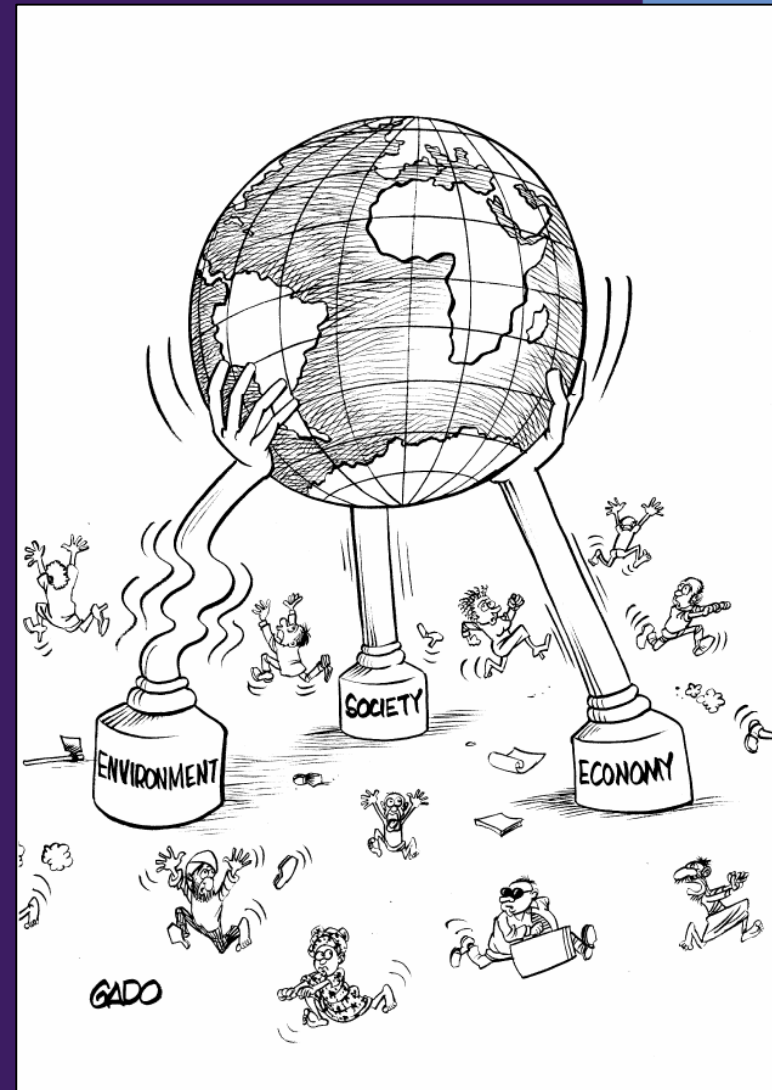
AFRICA ENVIRONMENT OUTLOOK



UNEP Programme Areas

Division Of Early Warning And Assessment

UNEP assessments concerned with sustainable development, taking into account its three pillars, *Social, economic and environment*





Global Environment Outlook

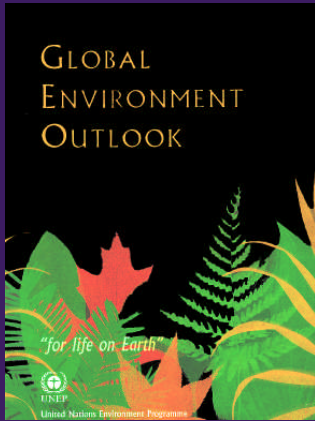
- ❑ The flagship vehicle of the UNEP integrated environmental assessment and reporting work is the **Global Environment Outlook (GEO) process - integrated environmental assessment and reporting (IEA)**.
- ❑ The **GEO process**: a consultative, participatory, capacity building process initiated by UNEP for global environmental assessment and reporting





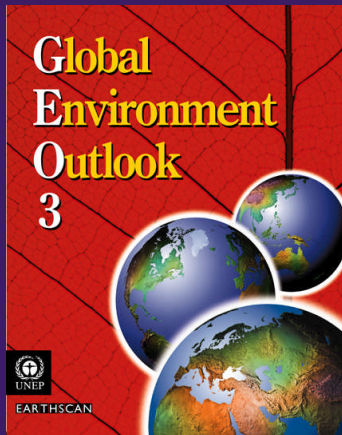
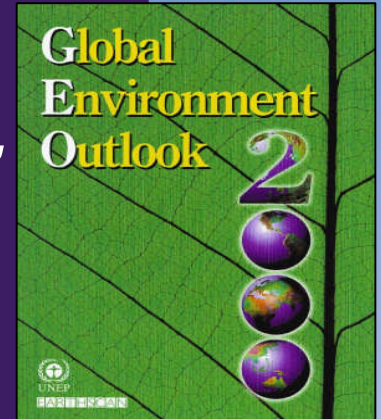
GEO Global Products

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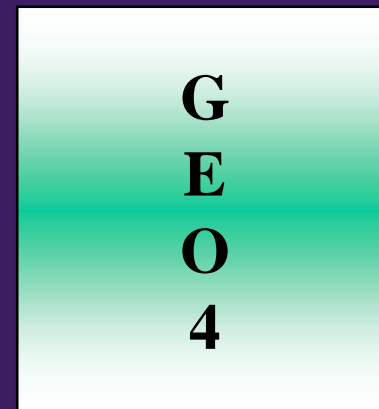


- **Global Environment Outlook 1997 (GEO-1) (English and Chinese)**

- **Global Environment Outlook 2000 (Arabic, Chinese, English, French, Russian and Spanish)**



- **Global Environment Outlook 3 (Arabic, Chinese, English, French, Russian and Spanish), 2002**



- **GEO-4 report Oct 2007**



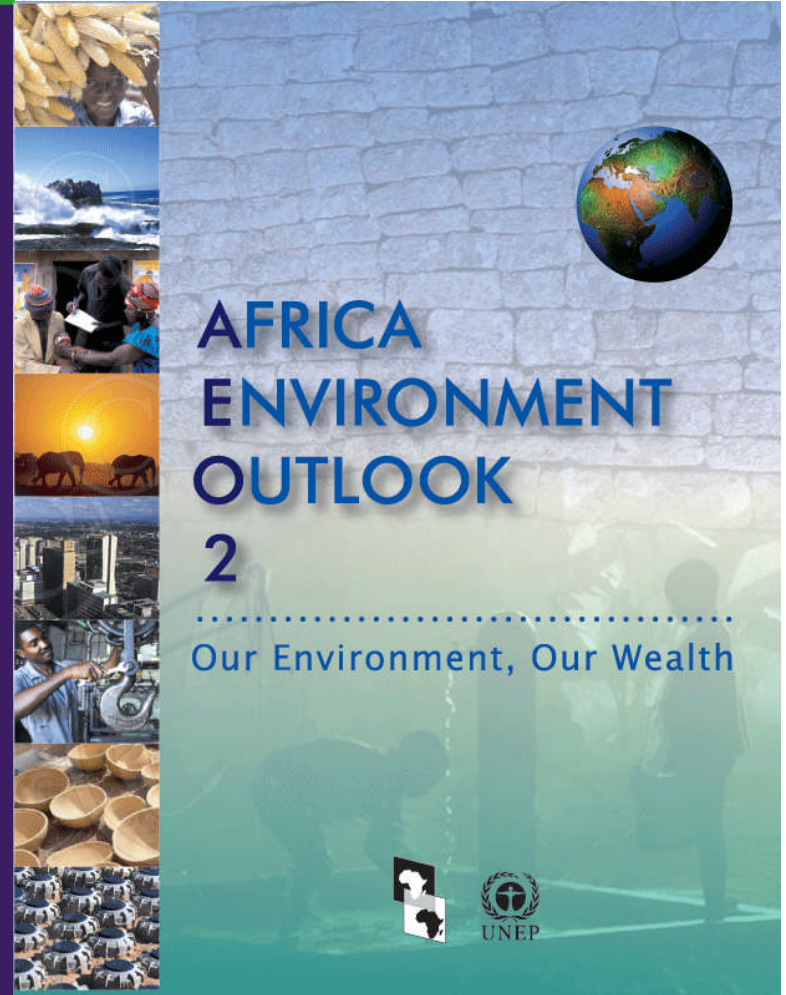
AFRICA ENVIRONMENT OUTLOOK



AEO-2 Report and process

- ❑ Provides an integrated analysis of emerging issues under the NEPAD Environment Action Plan thematic areas, focusing on the driving forces, the impacts on human vulnerability. Also highlights opportunities
- ❑ Helps track regional level progress in terms of meeting the environmental targets set under the Millennium Development Goals (MDG).

NOTE: All the 8 goals are critical to SD in Africa





AEIN

Africa Environment Information Network (AEIN)

- ❑ an AMCEN initiative is to support the national, sub-regional and the Africa Environment Outlook (AEO) reporting process
- ❑ Goal - to enhance accessibility to more reliable environmental data and information at national level for the environmental assessment and reporting in the region (countries, sub-regions and Africa)





What is AEIN?

- ❑ **Network promoting access to harmonised data**
 - ❑ **Basis for tracking environmental changes in the countries, sub-regions and in Africa**

- ❑ **Policy-level demand-driven**
 - ❑ **AMCEN initiative to support Africa Environment Outlook process (state, trends, outlook, policy options)**
 - ❑ **Support to regional SD initiatives (NEPAD)**

- ❑ **Country-level focus and implementation**
 - ❑ **Focus on priority national needs and ownership**
 - ❑ **Capacity building for data & Info mgt and integrated assessments and reporting**
 - ❑ **Environment information input into SD processes**





What is AEIN?

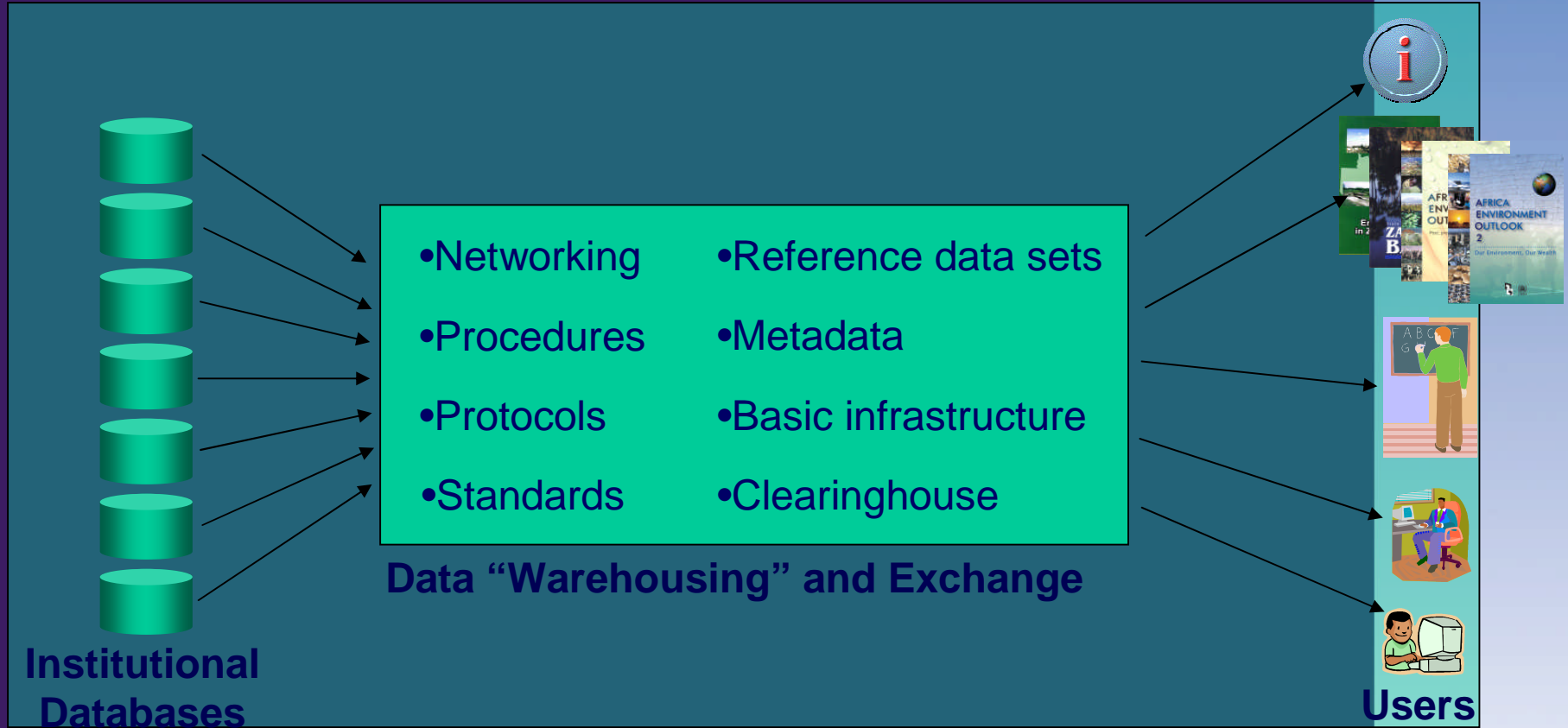
- ❑ **Platform for collaboration and partnership with on-going initiatives**
 - ❑ **Common framework for coordination and harmonisation of reporting (MEAs)**
 - ❑ **Shared data resources**
 - ❑ **Institutional networking**
 - ❑ **Participatory and collaborative partnership**

- ❑ **International support and partnerships**
 - ❑ **UNEP – currently taking the lead**
 - ❑ **Looking at involving other UN agencies (UNDP, UNSD, FAO, UN-HABITAT, UNECA, etc) to support CCA/UNDAF process**
 - ❑ **Donors**



Data Exchange Platform - Vision

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Data should be collected, harmonized and quality-assured once, and then made available for use by many users, and in multiple information products.



AEIN Overall Objectives

- ❑ To build **capacity** for the development and management of **core datasets** and Facilitate access to environmental data and information to improve good governance and public participation in decision-making;
- ❑ To support and catalyze **institutional networking and capacities** related to the collection, collating and management of statistics, data and information at the sub-national, national, sub-regional, and regional levels





THE AEO/GEO Pyramid

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nested products
global/regional/national.../thematic

IEA

harmonized processes

Underpinned by sound data and science



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AEIN Specific objectives

- ❑ To assess the **status of information networking activities, data availability/gaps** in respective African countries;
- ❑ To strengthen networking **(data/information exchanges, knowledge/expertise sharing, etc.)** at the national and sub-regional levels;
- ❑ To **develop and test information management tools, collect, collate data, and develop compendia** and other data products from existing data sources;

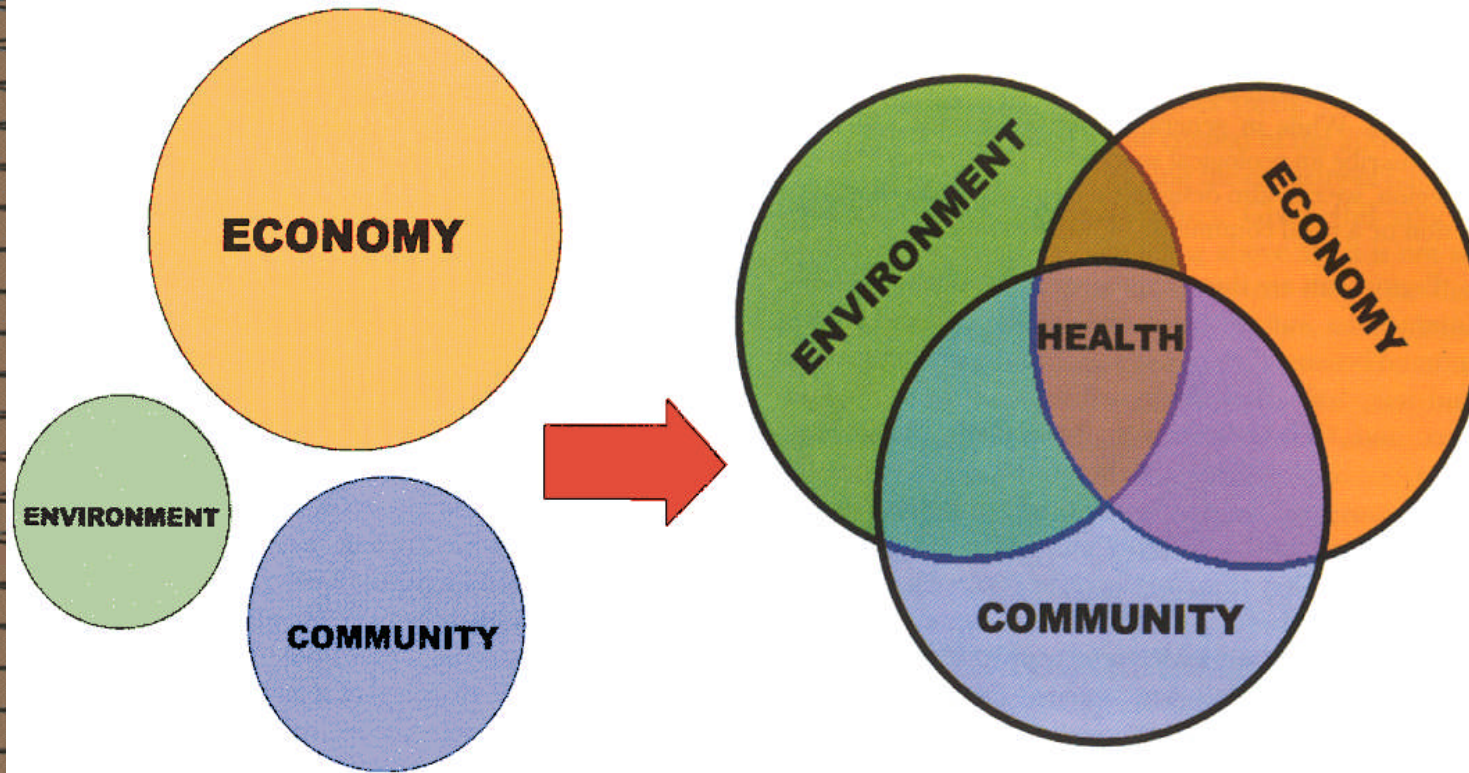


AEIN Specific objectives - cont

- ❑ To develop **quantitative indicators** of environmental change for use in characterizing emerging issues, and for assessing impacts of such changes on human vulnerability at national, sub-regional and regional levels;
- ❑ To build **capacity for using information management tools and methodologies** for producing or (re-)packaging information for various target groups;
- ❑ Support AEIN countries prepare **national environment Outlook reports** (state, trends, outlook, policy options for actions).



Integration - IEA



NEPAD/AEO-2 Themes-Issues-Indicator-Data Matrix

AEO-2 (Chapter 1)

Thematic Area/ (NEPAD programme area - P.A)	NEPAD Priorities	Priority Issues	Lead Indicator(s)	Type of Indicator (D, P, S, I, R, O)	Data Types/ parameter/Variable	Units	Global or Regional sources (to be replaced by national sources during the AEIN Initiative)
Socio-economic issues	Sustainable development, Economic well being, Social well being	Human development	<ul style="list-style-type: none"> Population growth rate; Economic growth rate (GDP) Education rate/(literacy/literacy) by gender; Human development index; Improved drinking water coverage - total population; 	<ul style="list-style-type: none"> S S O S O 	<ul style="list-style-type: none"> Population density; Unemployment rate; Education level (level by gender); Child/Maternal mortality; No. of people affected by water borne diseases; 	<ul style="list-style-type: none"> % No. % % No. % No. 	UNDP, WB, AfDB (regional), WRI, UNAIDS, Human Development report, WHO
			<ul style="list-style-type: none"> % of literate adults (per of total population); % age of population in primary education/by gender); % age of population in secondary education/by gender); 	<ul style="list-style-type: none"> S S S 	<ul style="list-style-type: none"> No. of literate adults; Total population; No. of children in primary schools; Total population; No. of children in secondary schools; Total population; 	<ul style="list-style-type: none"> % No. % No. % No. 	

Type of Indicator: D: Driving force, P: Pressure, S: State, I: Impact, R: Response, O: Opportunity

NOTE: All the data should be dis-aggregated to show gender disparities. Gender data should be presented for all the themes.



NEPAD environmental priorities require a number of inter-related issues (and indicators) which must be considered together



NEPAD/AEO-2 Themes-Issues-Indicator-Data Matrix

		· Emissions of greenhouse gases (CO ₂);	3	· Total volume of CO ₂ emissions;	<i>mio t</i>	
		· Annual mean emissions of lead (Pb);	3	· Total volume of annual emissions of lead (Pb);	<i>1000 t</i>	
		· Frequency of extreme events (No. of people affected by droughts, floods);	1	· People affected by droughts, floods;	<i>No.</i>	
			1	· No of droughts, floods;	<i>No.</i>	
Land	[FAI] Combating Land degradation, drought and desertification					
	Implement objectives of the UNCCD and at the same time improve livelihoods and contribute to food security on the continent through:					
Sustainable land use	· Land tenure/ownership	· %age of population who own land by group.	3	· Distribution of tenure types.	<i>% , 000 ton/ha</i>	
		· per capita food available;	0	· Access to land by groups (gender minorities and other minority groups – Youth, people with disabilities. Etc.)	<i>% , 000 ha</i>	
			P	· Population growth rate	<i>%</i>	
	· Land Quality (degradation)	(%)Proportion of land lost per year;	3	· Area of land lost per year; Total area of land;	<i>% p/y, 000 ha, km²</i>	
	o Soil erosion (000 ton/ha)	· (%) proportion of land/area effected by soil erosion;	3	· Total area of land affected by soil erosion;	<i>% p/y, 000 ha, km²</i>	
	o Wind erosion (000 ton/ha)	· (%) proportion of land/area effected by wind erosion;	3	· Total area of land affected by wind erosion;	<i>% p/y, 000 ha, km²</i>	
	o Desertification	· (%) proportion of land/area effected by desertification;	3	· Total area of land affected by desertification;	<i>% p/y, 000 ha, km²</i>	UNEP/ FAO, ISRIC-GLASOD, FAO, FAOSTAT.FRA, SOFO, Global Forest Watch, World Development Indicators, WRI
	o Salinization	· (%) proportion of land/area effected by salinization;	3	· Total area of land affected by salinization;	<i>% p/y, 000 ha, km²</i>	
		· Agricultural production index;	I	· Total area under agriculture;	<i>000 ha, km²</i>	
	· Land Use (settlements)					
	o Urban (incl peri-urban);	· % area of urban formal and informal settlements (built up and related land);	3	· Area of land in urban and peri-urban areas;	<i>% p/y, 000 ha, km²</i>	

Internal UNEP document - Should not be used for quoting

(ver 2.0 - last updated, May 2005)

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NEPAD themes-issue-Indicator matrix

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Theme	Priority Issue	Lead Indicator
Freshwater	Availability	Internal renewable water resources avail per capita/ yr
Coastal and Marine		Total & per capita marine fish catch
Land	Land degradation (Quality)	change in arable land



Collaboration and Partnerships

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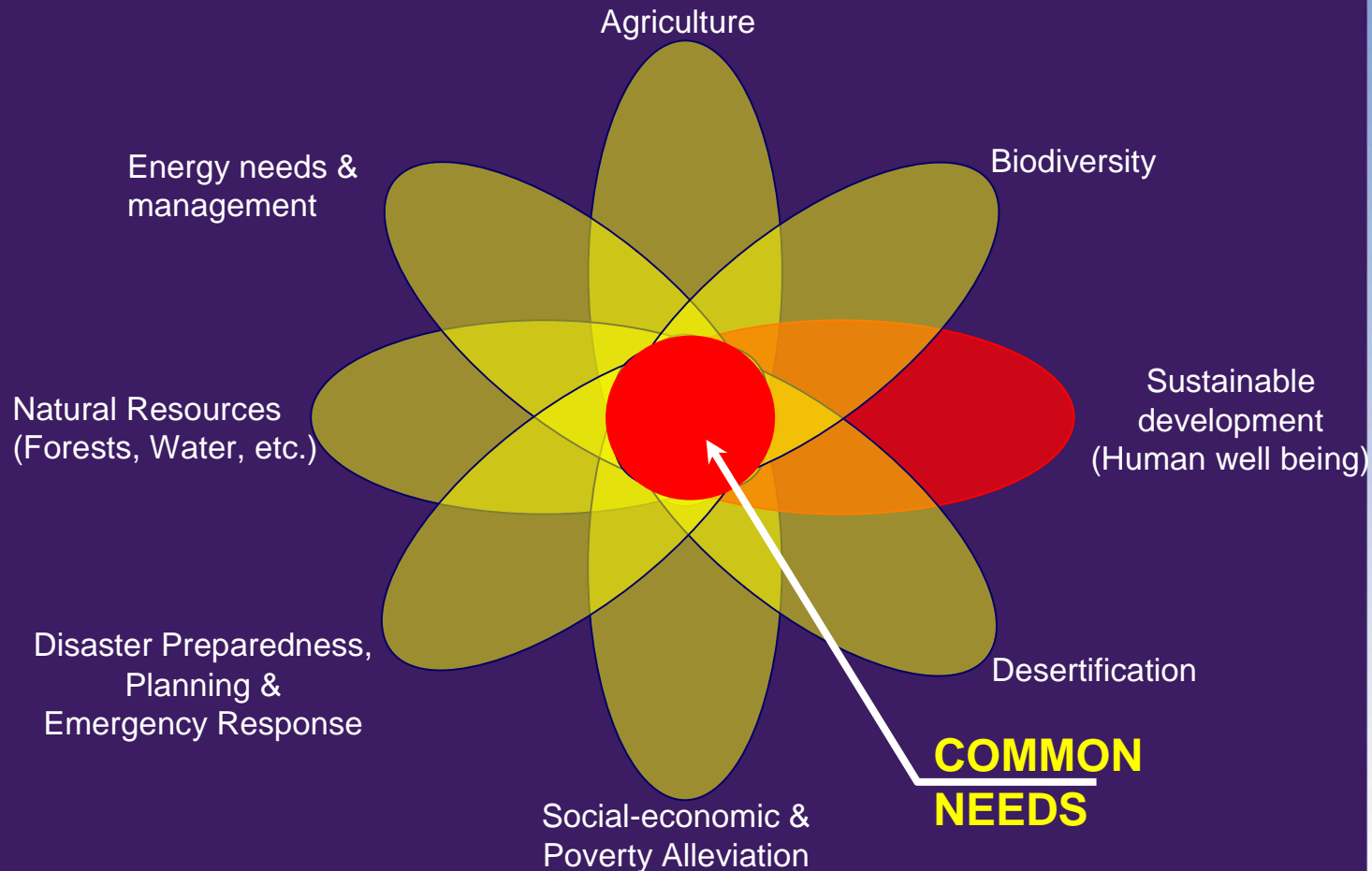
Domains of overlapping needs



Coincidence of opportunities

Synergy, lower “project” costs

Opportunities for cost-sharing





Bali Strategic Plan (BSP)

- ❑ This workshop and its outcomes is part of the implementation of the Bali Strategic Plan for Technology Support and Capacity Building, para 3 (a), para 5, 10, 11, 22 and 23 which emphasizes:
 - ❑ need for country ownership,
 - ❑ country specific capacity building needs,
 - ❑ data collection, research and analysis to support decision-making in governments.



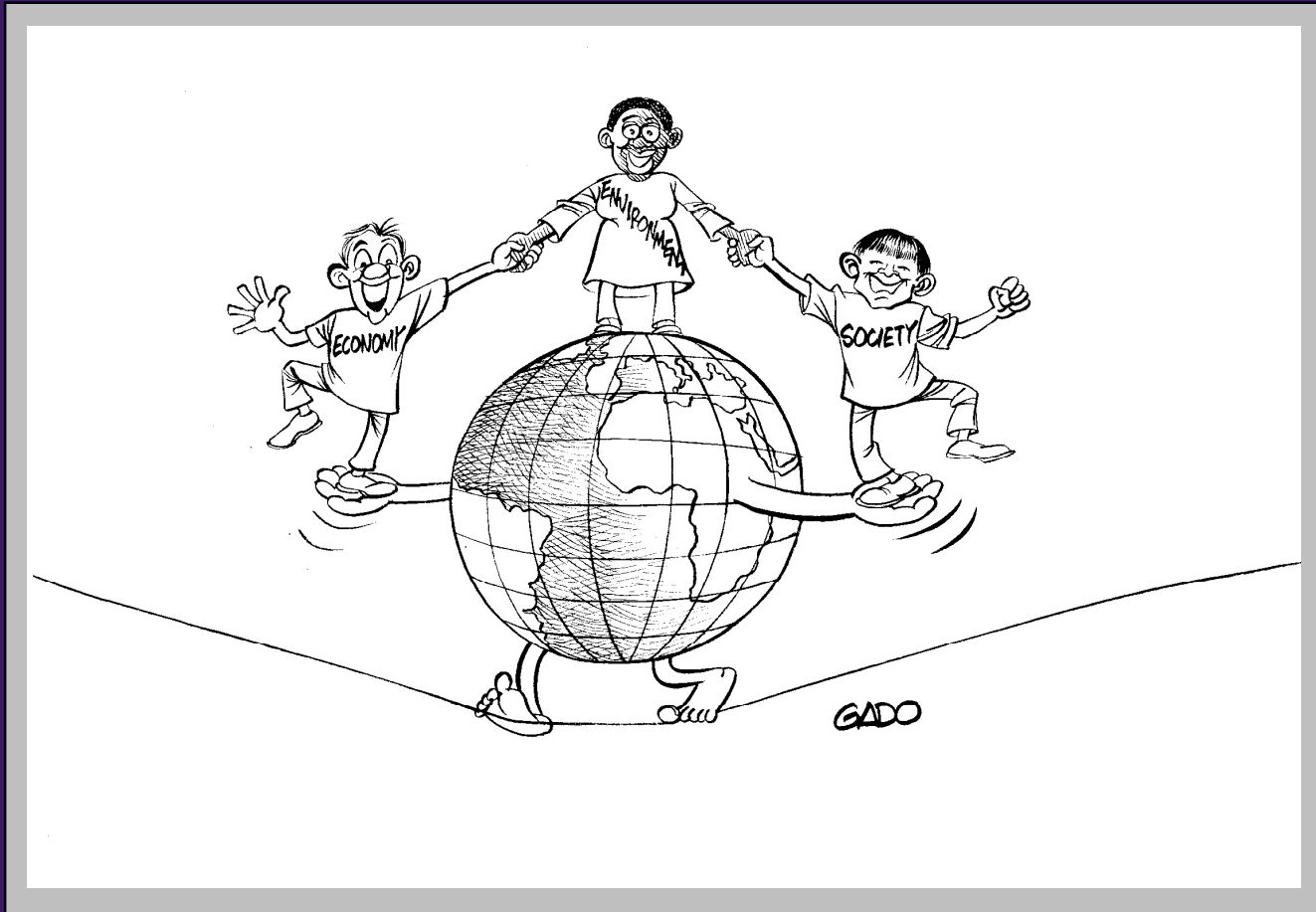


Lessons learnt – Culture change

- ❑ In some of the AEIN pilot countries - experienced problems with some stakeholders who are keen to maintain the status quo, *“this is the way we have been doing things”*. This made initial ownership difficult but we have noticed a turn around.



Conclusion



- ❑ Success requires that institutions need to agree to work together to achieve common objectives



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DEWA Africa

<http://www.unep.org/dewa/africa>





Thank you





Thank You