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AEIN/AEO/GEO processes

Workshop on Environmental Statistics,
ECOWAS
Abuja, 19-23 May 2008

AFRICA ENVIRONMENT OUTLOOK

UNEP Mandate

To keep under review the

state of the global environment….

UNGA Resolution 2997 (XXVII) of 1972

UNEP Mission

“The environment is the basis for achieving prosperity, stability and equity is sustained”

The environment arm of the UN….
As part of the UN Reforms….

Division Of Early Warning And Assessment

UNEP

Medium Term Strategy (MTS) 2010-2013

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- Climate Change:
  - Strengthen vulnerable states resilience to a changing climate
  - Facilitate the transition of a low greenhouse gas emission global economy

- Ecosystem management:
  - Manage ecosystems to enhance human well-being

AEO

AFRICA ENVIRONMENT OUTLOOK

Medium Term Strategy (MTS) 2010-2013

❑Environmental Governance:

- ❑ Structures and means of environmental governance are strengthened for effective decision-making and action

❑Hazardous Substances:

- ❑ Minimize the environmental and human impact of harmful substances

UNEP

Medium Term Strategy (MTS) 2010-2013

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- Natural disasters and post conflict response:
  - Minimize environmental threats t human well-being from conflicts, disasters and industrial accidents

- Resource efficiency:
  - Natural resources are used and consumed in an environmentally sustainable way

UNEP

DEWA Mission

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- adding essential value to environmental data and information as input to and follow-up from intergovernmental decision-making processes;
- the authoritative resource within the UN system for scientifically credible, environmental assessment tools and methodologies to support national sustainable development planning and implementation;

AEO

AFRICA ENVIRONMENT OUTLOOK

UNEP Programme Areas

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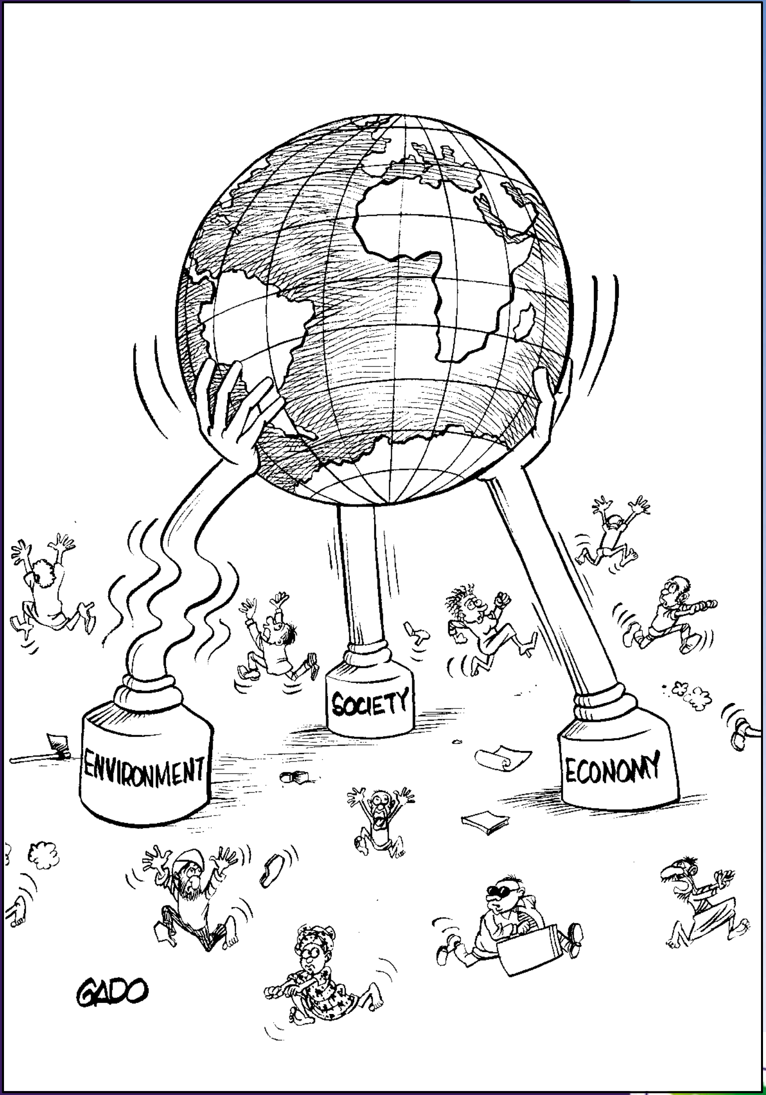
UNEP assessments concerned with sustainable development, taking into account its three pillars, *Social, economic and environment*


ENVIRONMENT
SOCIETY
ECONOMY
GADO

AFRICA ENVIRONMENT OUTLOOK

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

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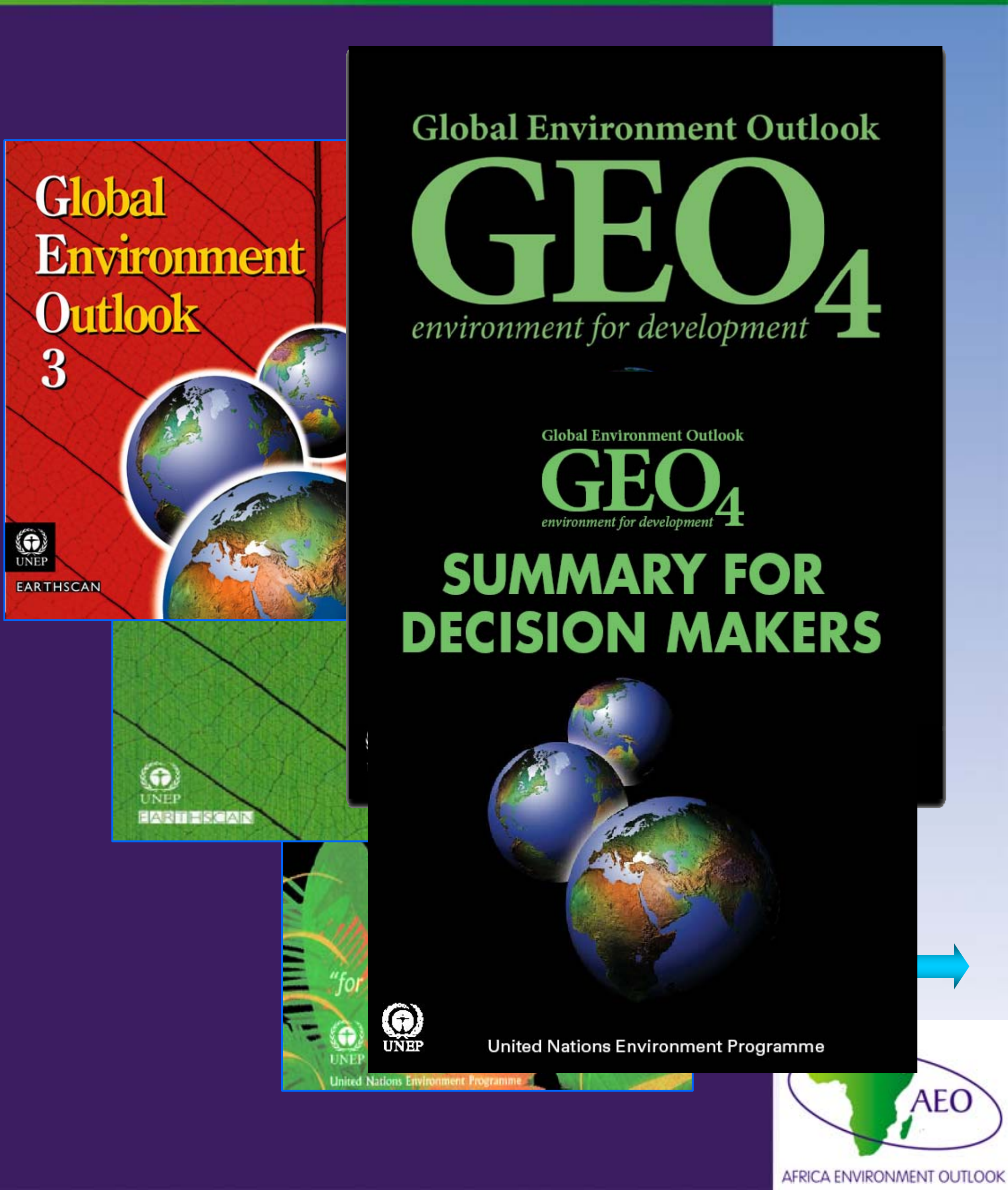
AFRICA ENVIRONMENT OUTLOOK

GEO env assessment Products

- Analyze environmental change, causes and impacts, and policy responses over time

- Such responses include MEAs and their impacts on addressing challenges

- Communicates, raises awareness, provides policy options


Global Environment Outlook 3
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Global Environment Outlook
GEO4
environment for development
Global Environment Outlook
GEO4
environment for development
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AEO-2 Report and process

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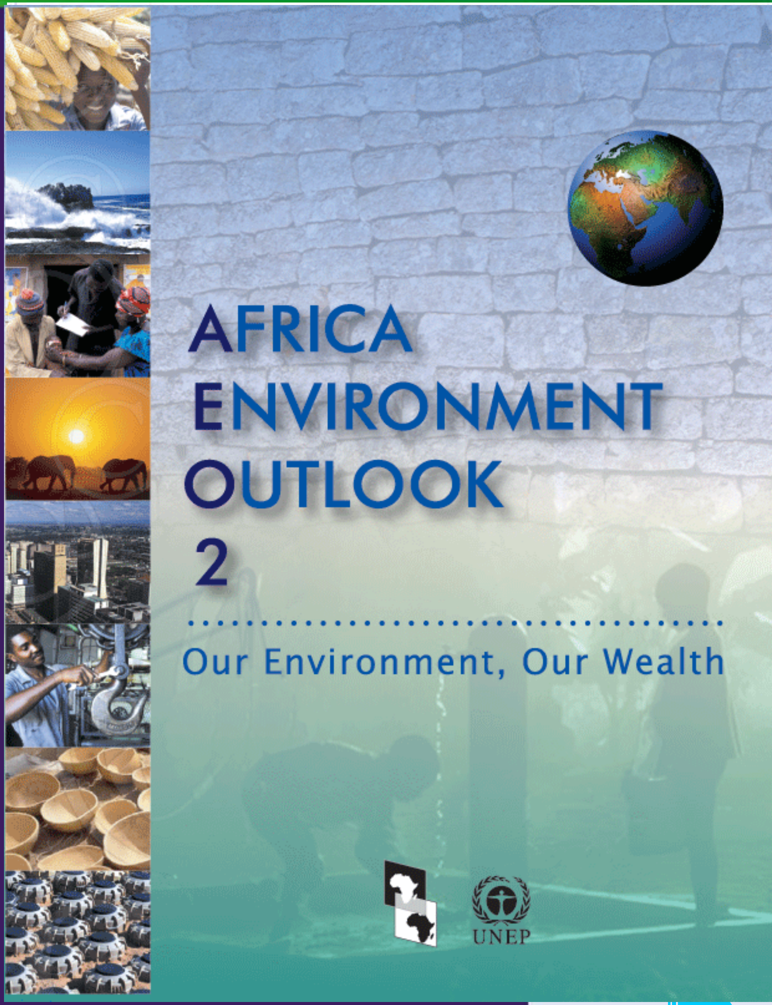
- ☐ Provides an integrated analysis of emerging issues under the NEPAD Environment Action Plan thematic areas, focusing on the driving forces, the impacts on human vulnerability. Also highlights opportunities

- ☐ 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



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Our Environment, Our Wealth

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THE AEO/GEO Pyramid

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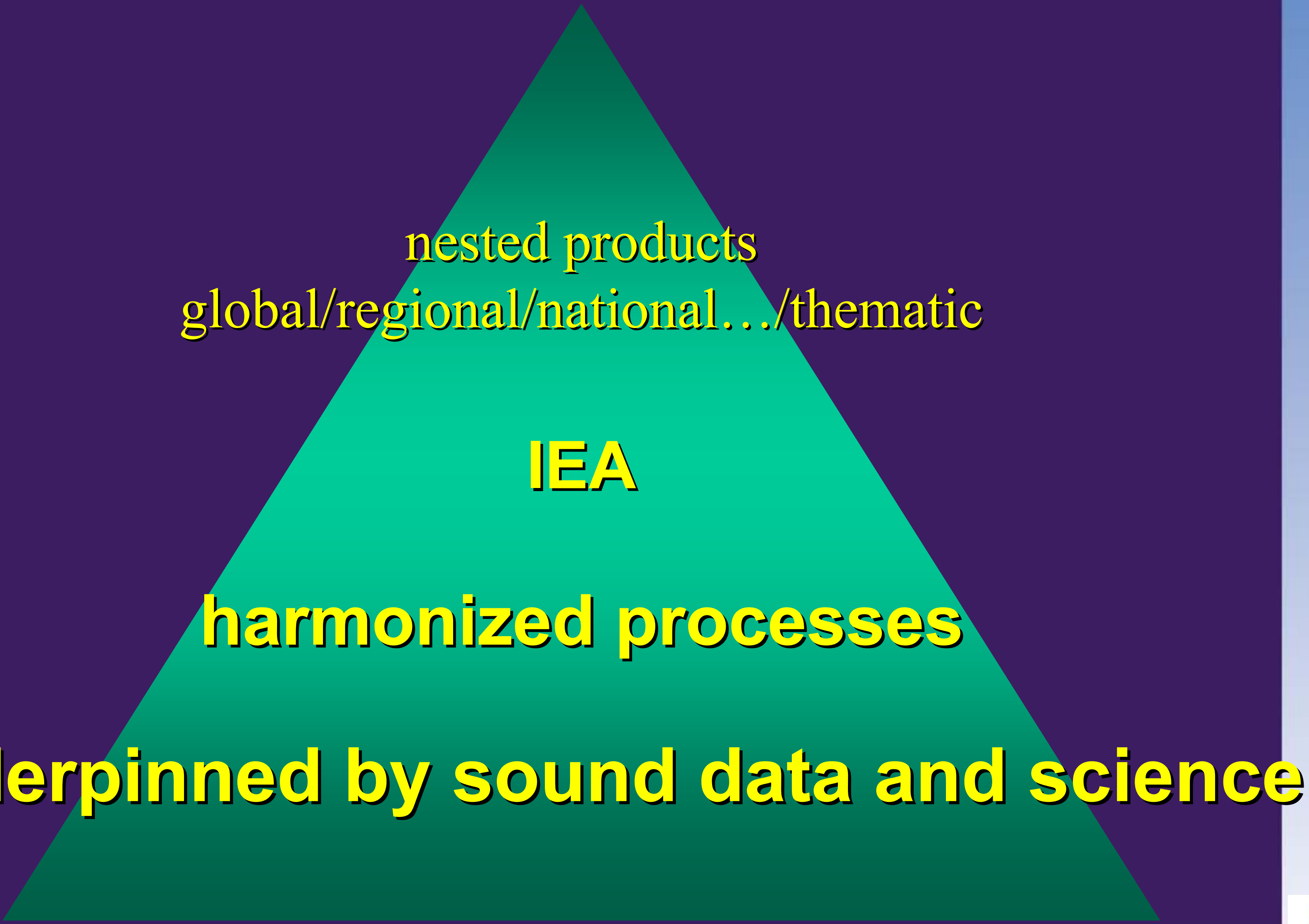

nested products
global/regional/national…/thematic

IEA

harmonized processes

Underpinned by sound data and science

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)

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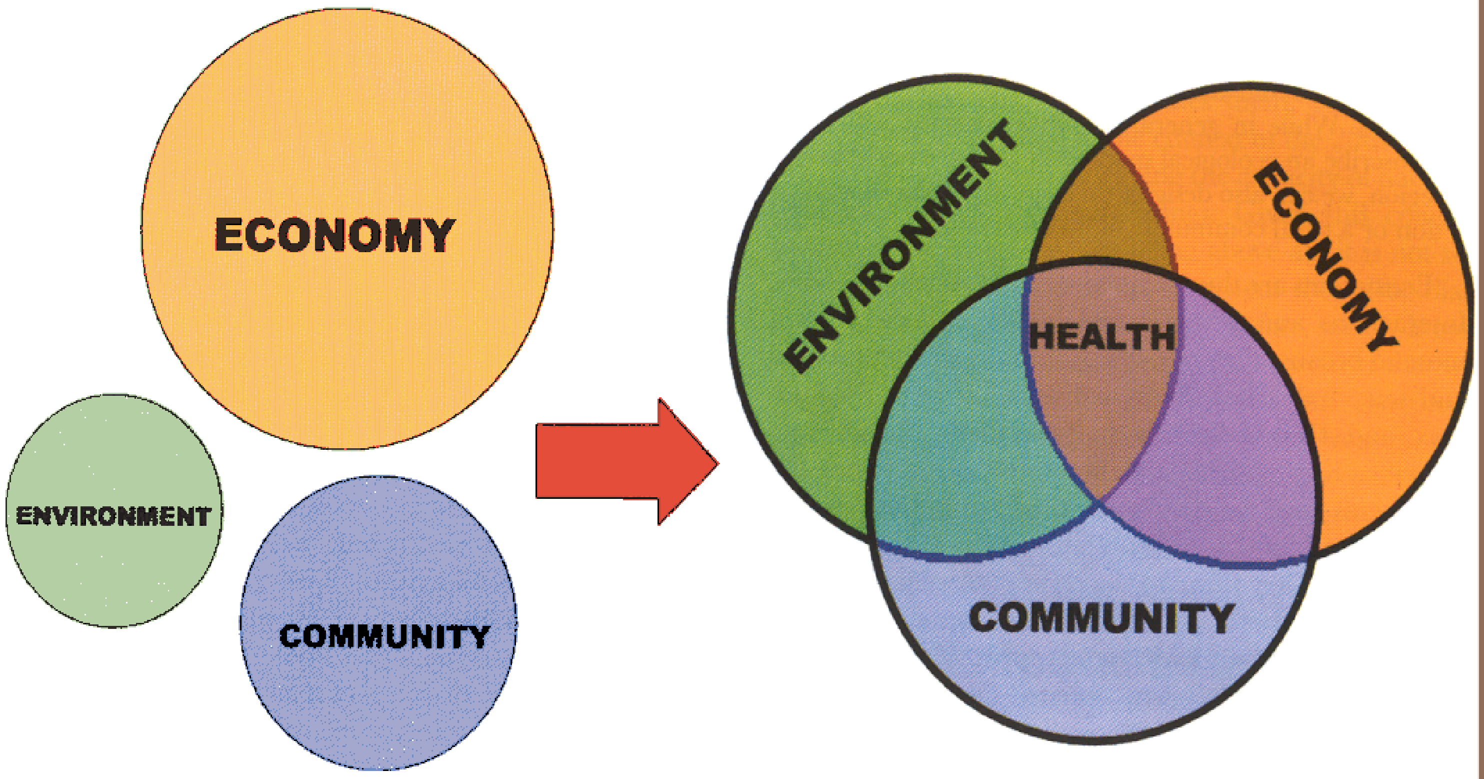
Integration - IEA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AFRICA ENVIRONMENT OUTLOOK

What is AEIN?

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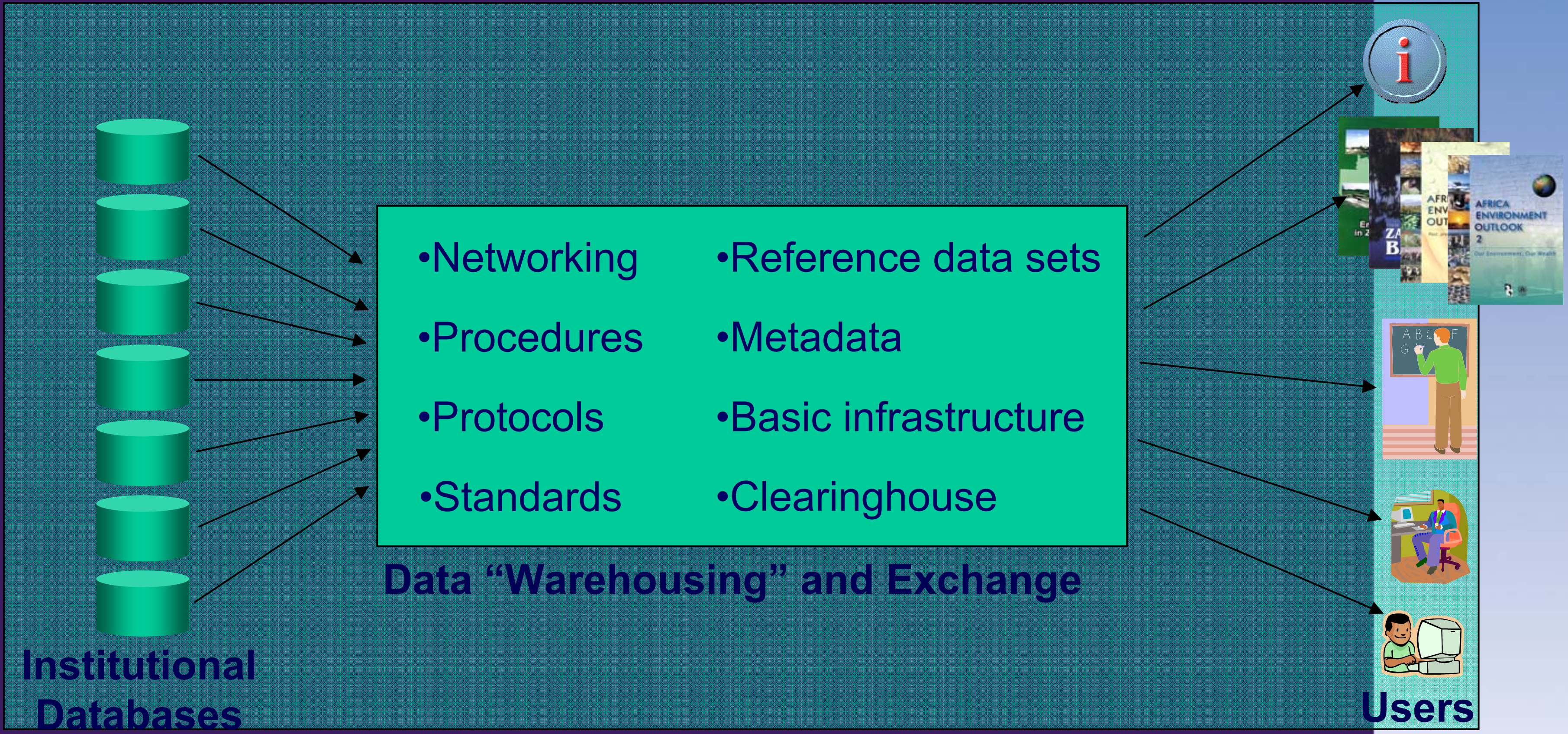
- Network promoting access to harmonised data
  - Basis for tracking environmental changes in the countries, sub-regions and in Africa
- Policy-level demand-driven
  - AMCEN initiative to support Africa Environment Outlook process (state, trends, outlook, policy options)
  - Support to regional SD initiatives (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



- Networking
- Procedures
- Protocols
- Standards
- Reference data sets
- Metadata
- Basic infrastructure
- Clearinghouse

Institutional Databases

Data "Warehousing" and Exchange

Users

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

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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

AEO
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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;

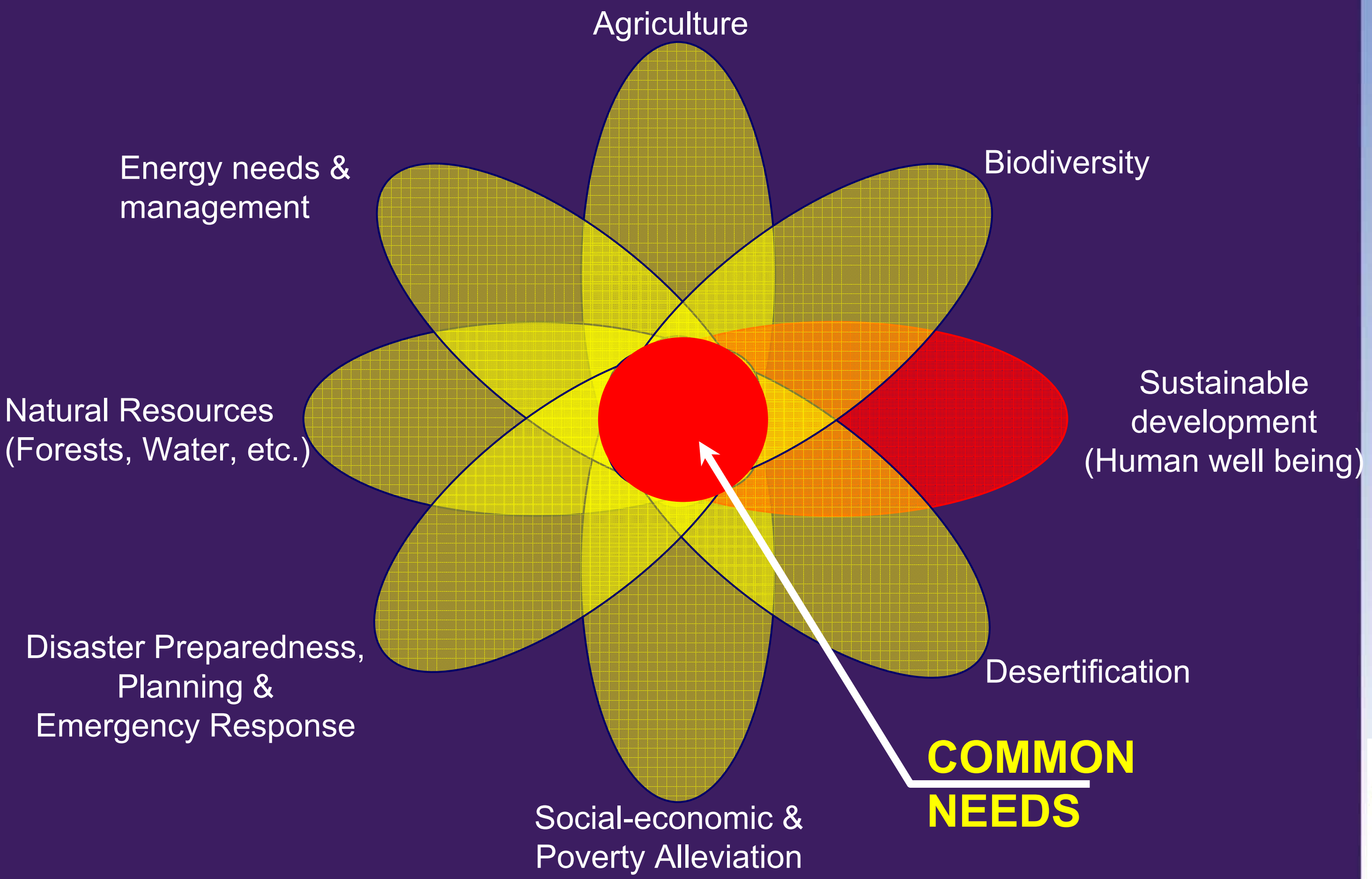
AEIN Specific objectives - cont

- ❑ 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).

Collaboration and Partnerships

Domains of overlapping needs

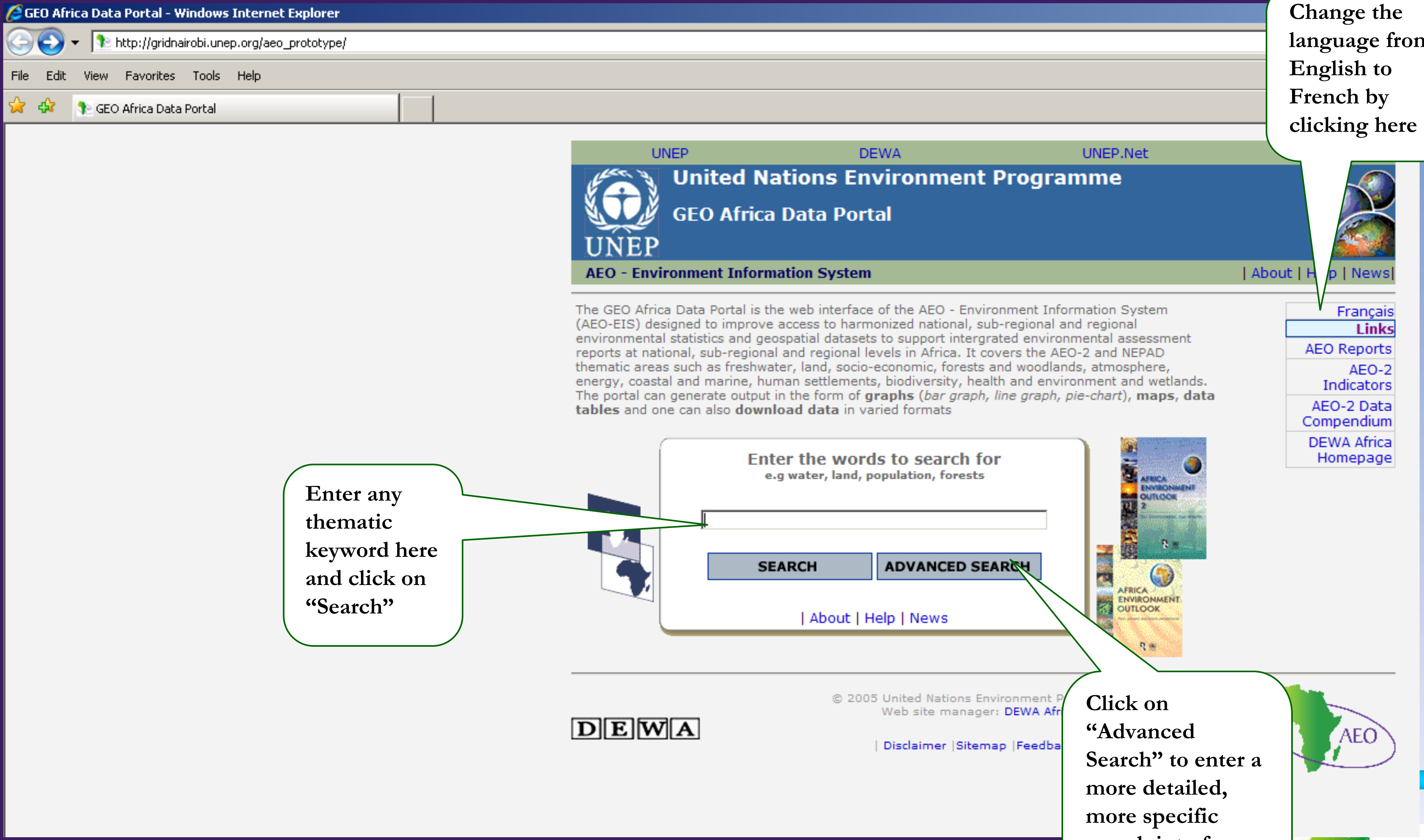
- ⇨ **Coincidence of opportunities**
- ⇨ **Synergy, lower "project" costs**
- ⇨ **Opportunities for cost-sharing**


Agriculture
Biodiversity
Energy needs & management
Natural Resources (Forests, Water, etc.)
Sustainable development (Human well being)
Disaster Preparedness, Planning & Emergency Response
Desertification
Social-economic & Poverty Alleviation
COMMON NEEDS

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.

Africa Data Portal - homepage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AEO Reports
AEO-2 Indicators
AEO-2 Data Compendium
DEWA Africa Homepage

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Enter the words to search for
e.g water, land, population, forests

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Enter any thematic keyword here and click on “Search”

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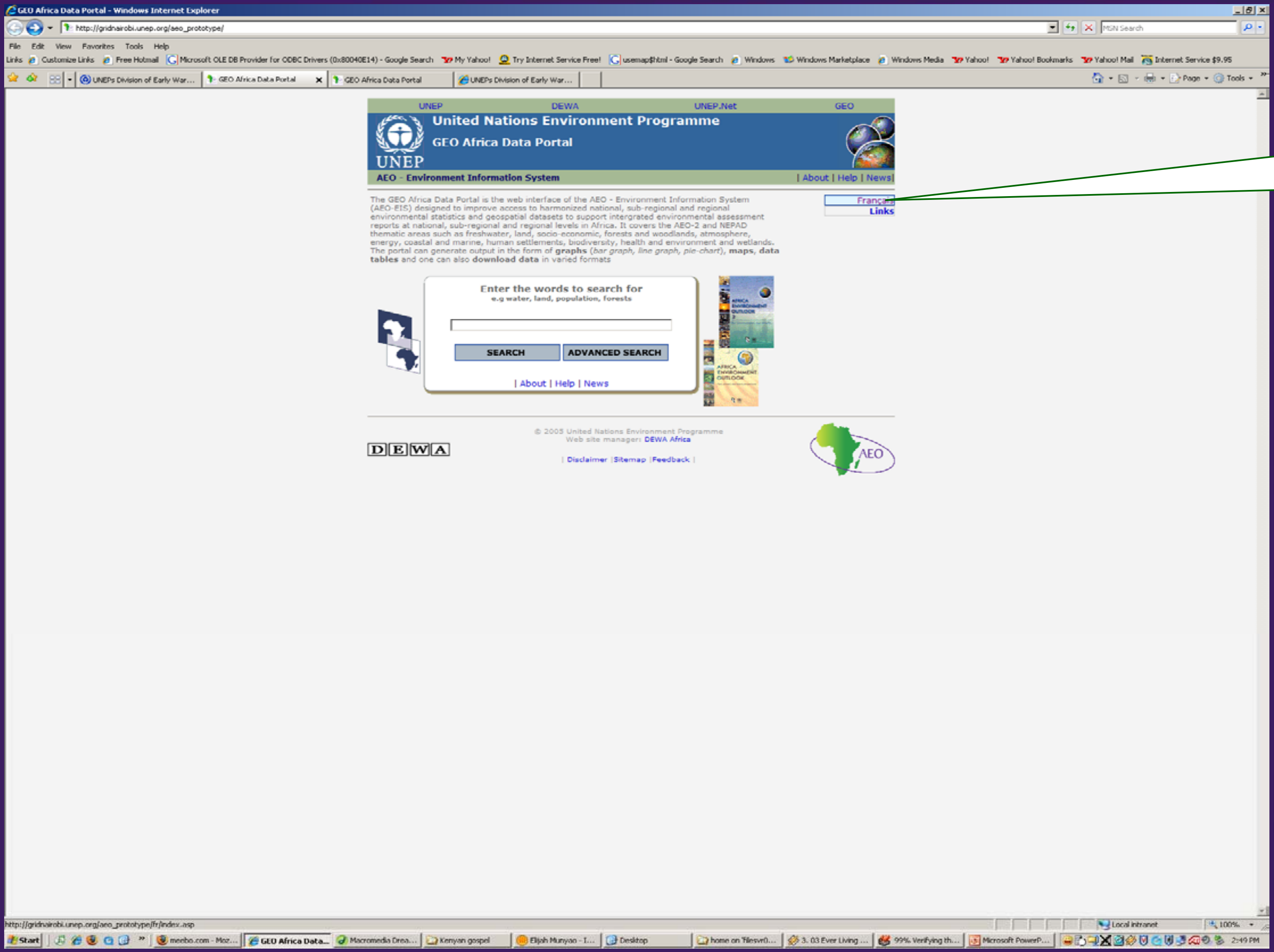
Languages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Enter the words to search for
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French version of portal

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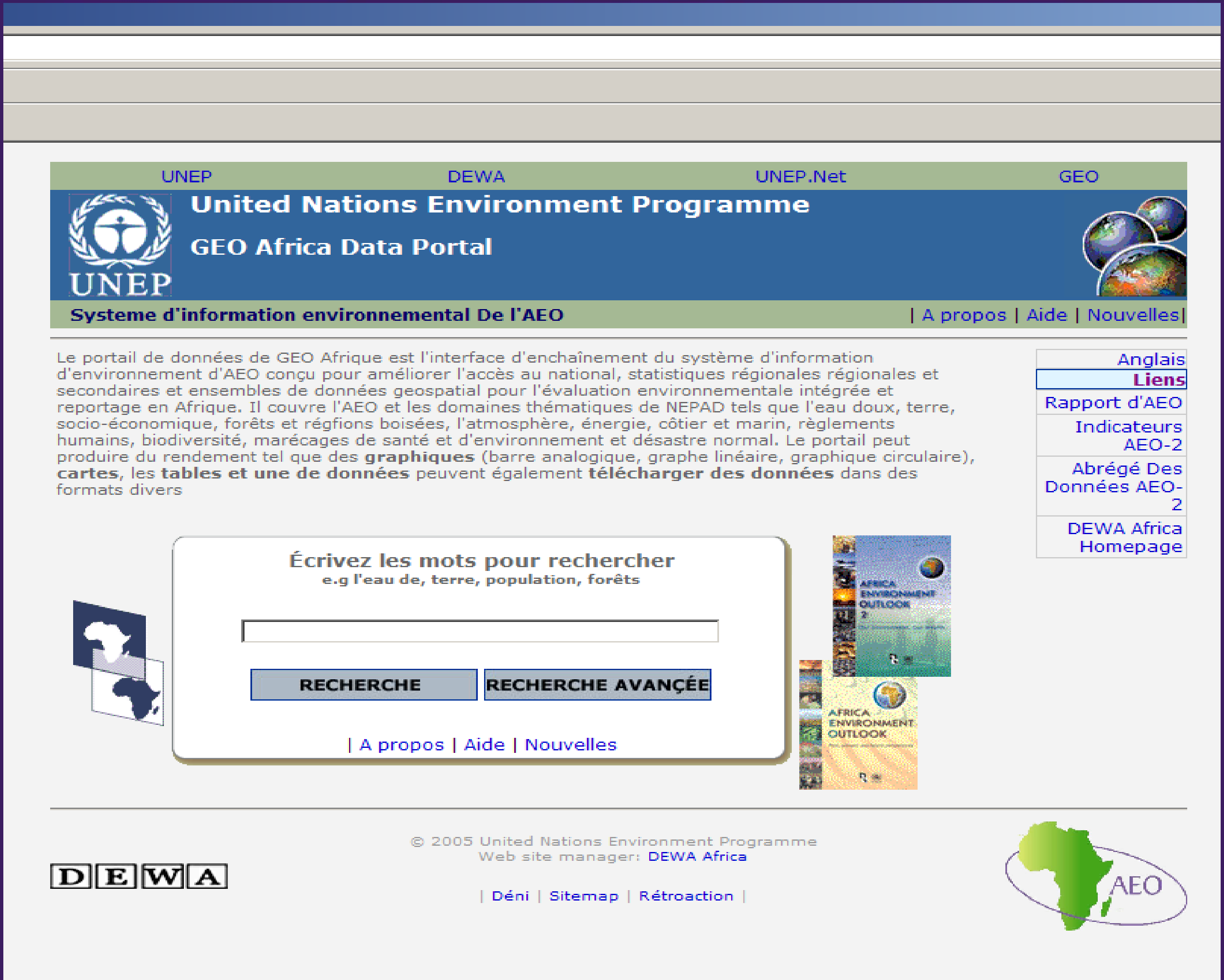

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Systeme d'information environnemental De l'AEO

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Le portail de données de GEO Afrique est l'interface d'enchaînement du système d'information d'environnement d'AEO conçu pour améliorer l'accès au national, statistiques régionales régionales et secondaires et ensembles de données geospatial pour l'évaluation environnementale intégrée et reportage en Afrique. Il couvre l'AEO et les domaines thématiques de NEPAD tels que l'eau doux, terre, socio-économique, forêts et régfions boisées, l'atmosphère, énergie, côtier et marin, règlements humains, biodiversité, marécages de santé et d'environnement et désastre normal. Le portail peut produire du rendement tel que des **graphiques** (barre analogique, graphe linéaire, graphique circulaire), **cartes**, les **tables et une de données** peuvent également **télécharger des données** dans des formats divers

- Anglais
- **Liens**
- Rapport d'AEO
- Indicateurs AEO-2
- Abrégé Des Données AEO-2
- DEWA Africa Homepage

Écrivez les mots pour rechercher
e.g l'eau de, terre, population, forêts

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19 May 2008

Free text search

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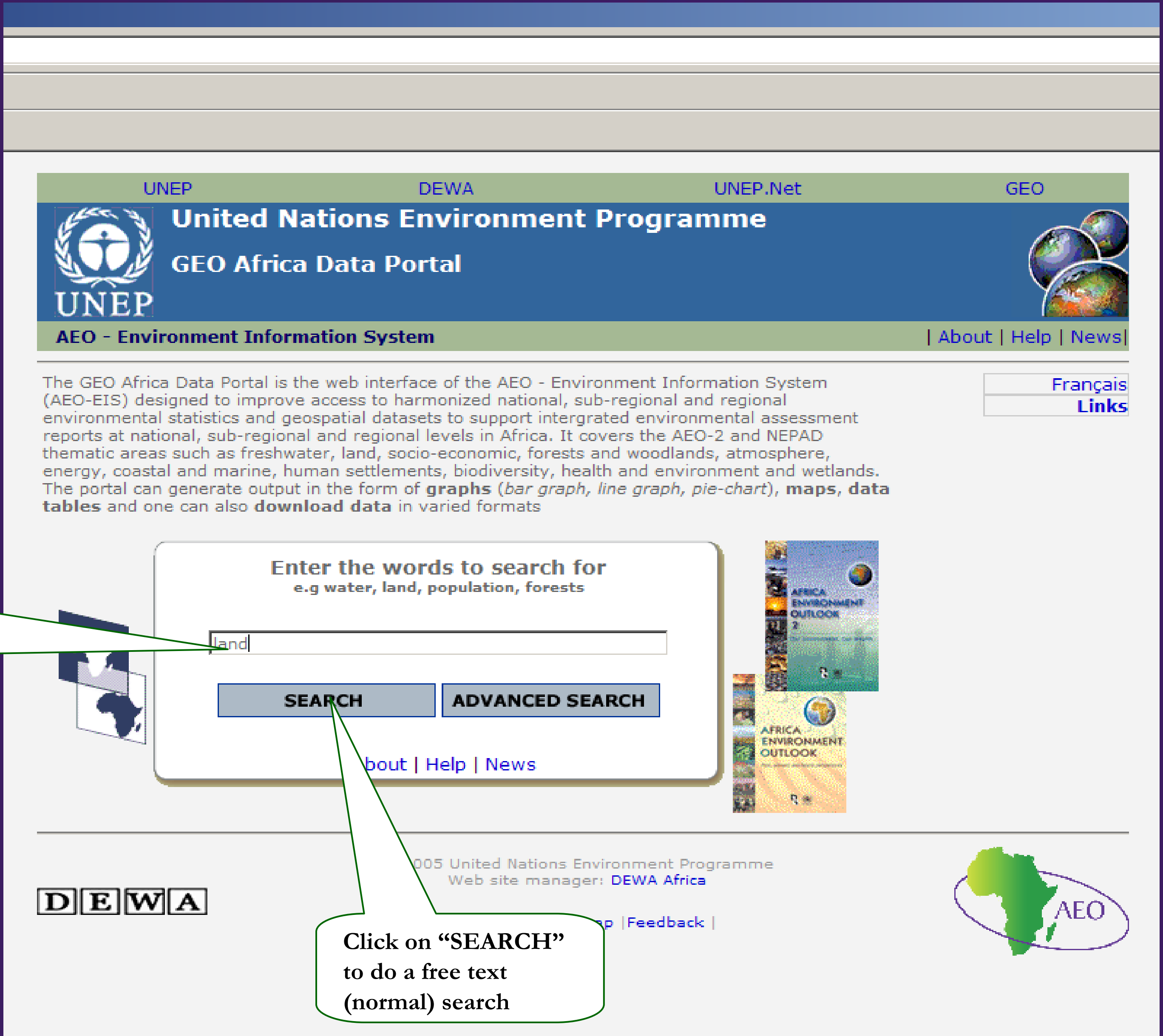

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Enter the words to search for

e.g water, land, population, forests

land

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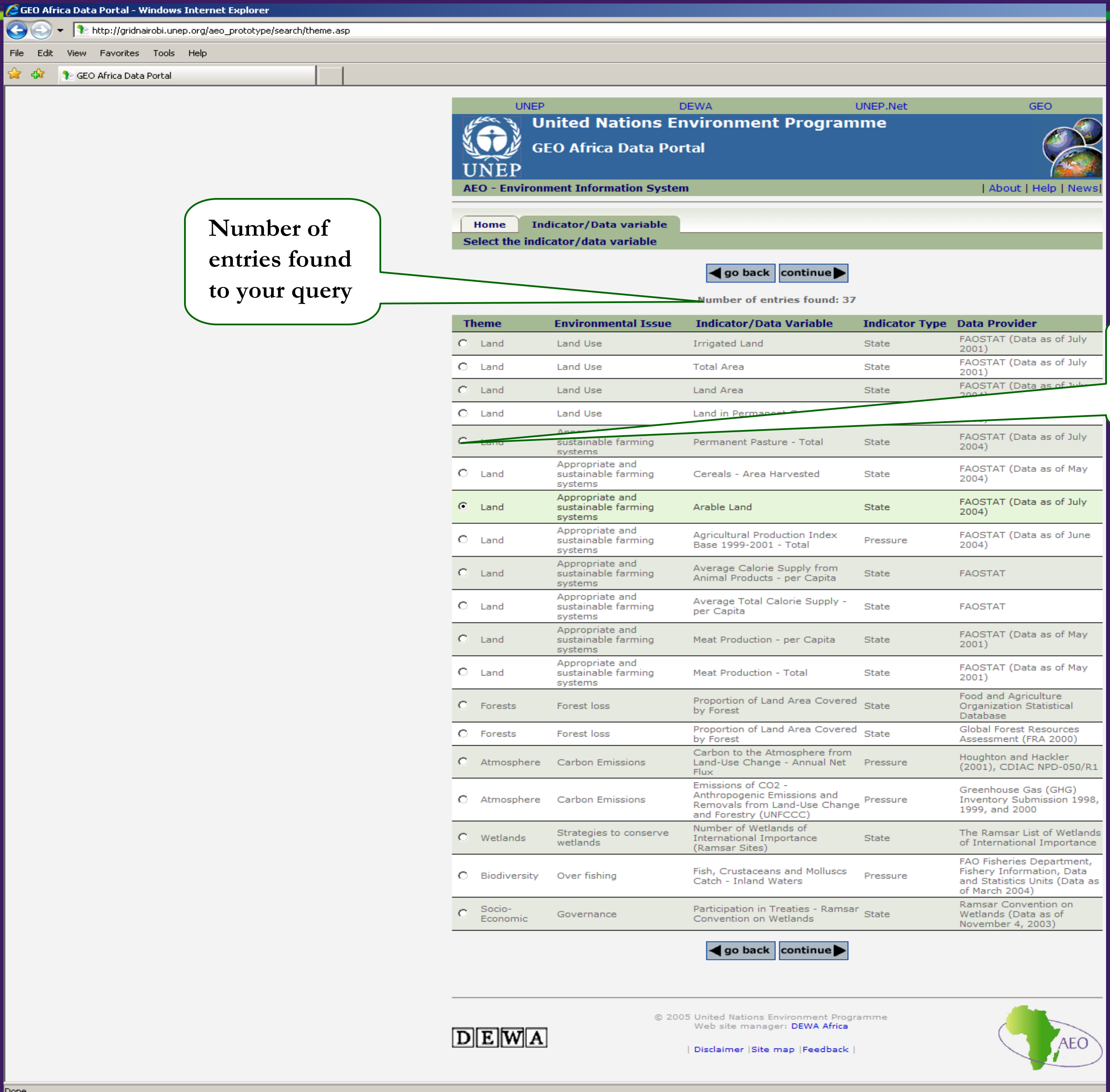
Enter any thematic keyword here, for example “Land”

Click on “SEARCH” to do a free text (normal) search

Search results based on free text entry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Indicator/Data variable
go back
continue
Done

Select the indicator/data variable

Number of entries found: 37

	Theme	Environmental Issue	Indicator/Data Variable	Indicator Type	Data Provider
○	Land	Land Use	Irrigated Land	State	FAOSTAT (Data as of July 2001)
○	Land	Land Use	Total Area	State	FAOSTAT (Data as of July 2001)
○	Land	Land Use	Land Area	State	FAOSTAT (Data as of
○	Land	Land Use	Land in Permanent		
○	Land	Appropriate and sustainable farming systems	Permanent Pasture - Total	State	FAOSTAT (Data as of July 2004)
○	Land	Appropriate and sustainable farming systems	Cereals - Area Harvested	State	FAOSTAT (Data as of May 2004)
●	Land	Appropriate and sustainable farming systems	Arable Land	State	FAOSTAT (Data as of July 2004)
○	Land	Appropriate and sustainable farming systems	Agricultural Production Index Base 1999-2001 - Total	Pressure	FAOSTAT (Data as of June 2004)
○	Land	Appropriate and sustainable farming systems	Average Calorie Supply from Animal Products - per Capita	State	FAOSTAT
○	Land	Appropriate and sustainable farming systems	Average Total Calorie Supply - per Capita	State	FAOSTAT
○	Land	Appropriate and sustainable farming systems	Meat Production - per Capita	State	FAOSTAT (Data as of May 2001)
○	Land	Appropriate and sustainable farming systems	Meat Production - Total	State	FAOSTAT (Data as of May 2001)
○	Forests	Forest loss	Proportion of Land Area Covered by Forest	State	Food and Agriculture Organization Statistical Database
○	Forests	Forest loss	Proportion of Land Area Covered by Forest	State	Global Forest Resources Assessment (FRA 2000)
○	Atmosphere	Carbon Emissions	Carbon to the Atmosphere from Land-Use Change - Annual Net Flux	Pressure	Houghton and Hackler (2001), CDIAC NPD-050/R1
○	Atmosphere	Carbon Emissions	Emissions of CO2 - Anthropogenic Emissions and Removals from Land-Use Change and Forestry (UNFCCC)	Pressure	Greenhouse Gas (GHG) Inventory Submission 1998, 1999, and 2000
○	Wetlands	Strategies to conserve wetlands	Number of Wetlands of International Importance (Ramsar Sites)	State	The Ramsar List of Wetlands of International Importance
○	Biodiversity	Over fishing	Fish, Crustaceans and Molluscs Catch - Inland Waters	Pressure	FAO Fisheries Department, Fishery Information, Data and Statistics Units (Data as of March 2004)
○	Socio-Economic	Governance	Participation in Treaties - Ramsar Convention on Wetlands	State	Ramsar Convention on Wetlands (Data as of November 4, 2003)

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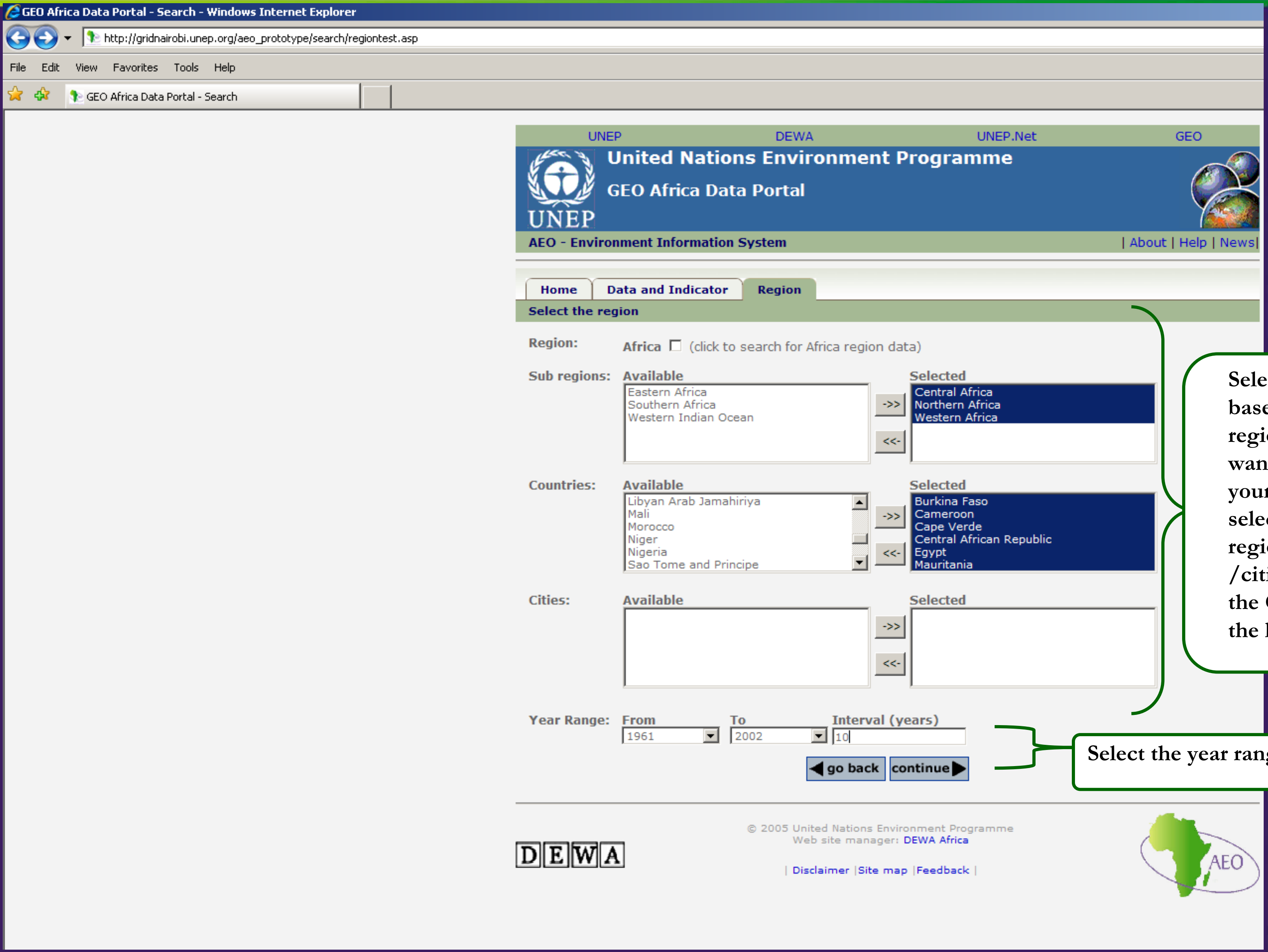
Number of entries found to your query

Select an indicator/data variable and click on "continue"

Region and range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Select the region

Region: Africa ☐ (click to search for Africa region data)

Sub regions:

Available	Selected
Eastern Africa Southern Africa Western Indian Ocean	Central Africa Northern Africa Western Africa

Countries:

Available	Selected
Libyan Arab Jamahiriya Mali Morocco Niger Nigeria Sao Tome and Principe	Burkina Faso Cameroon Cape Verde Central African Republic Egypt Mauritania

Cities:

Available	Selected

Year Range: From 1961 To 2002 Interval (years) 10

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Select the region based on the region data you want to conduct your search on. To select multiple sub regions/countries /cities, hold down the Ctrl-button of the keyboard.

Select the year range for your query.

Advanced search option - (guided search)

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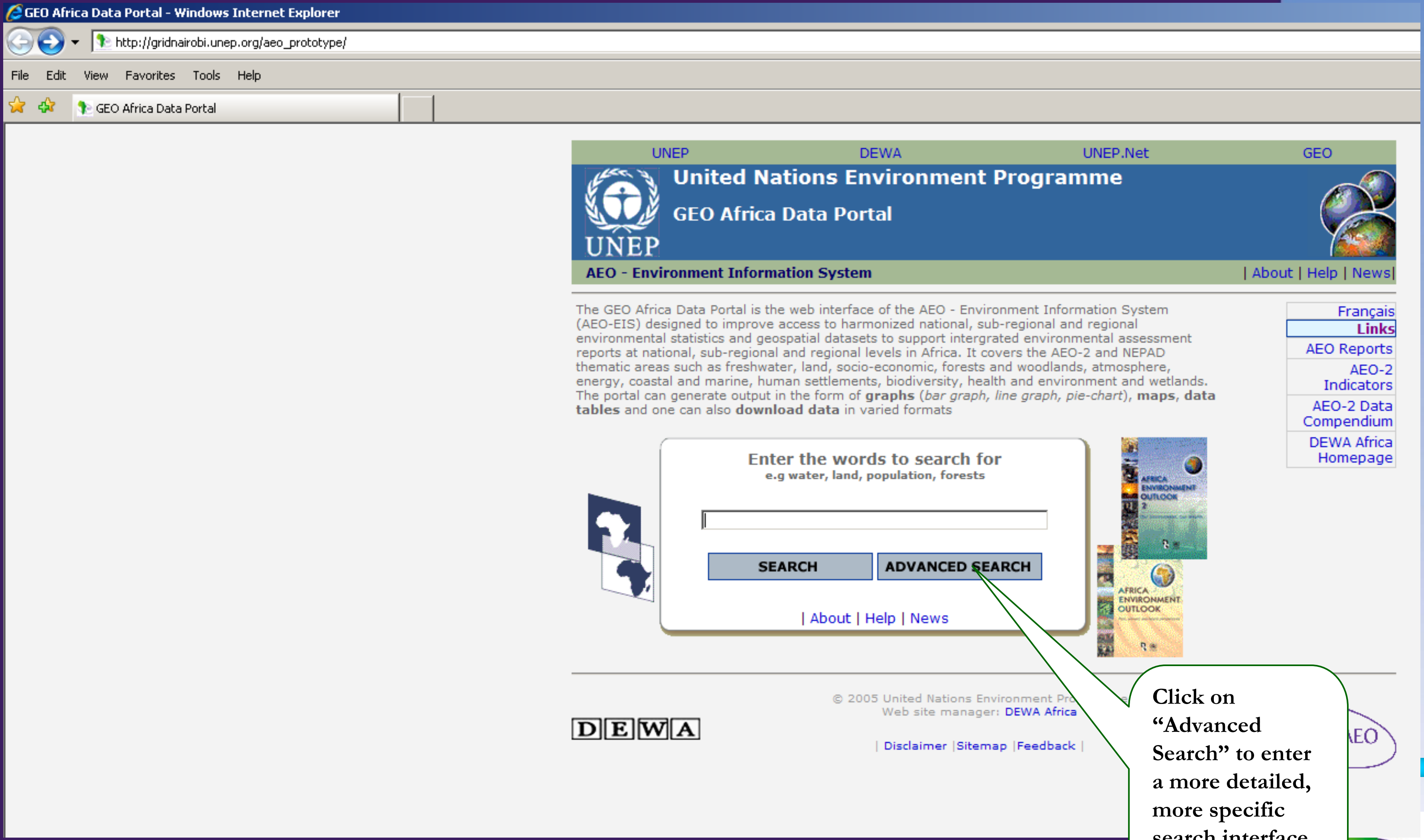
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Enter the words to search for
e.g water, land, population, forests

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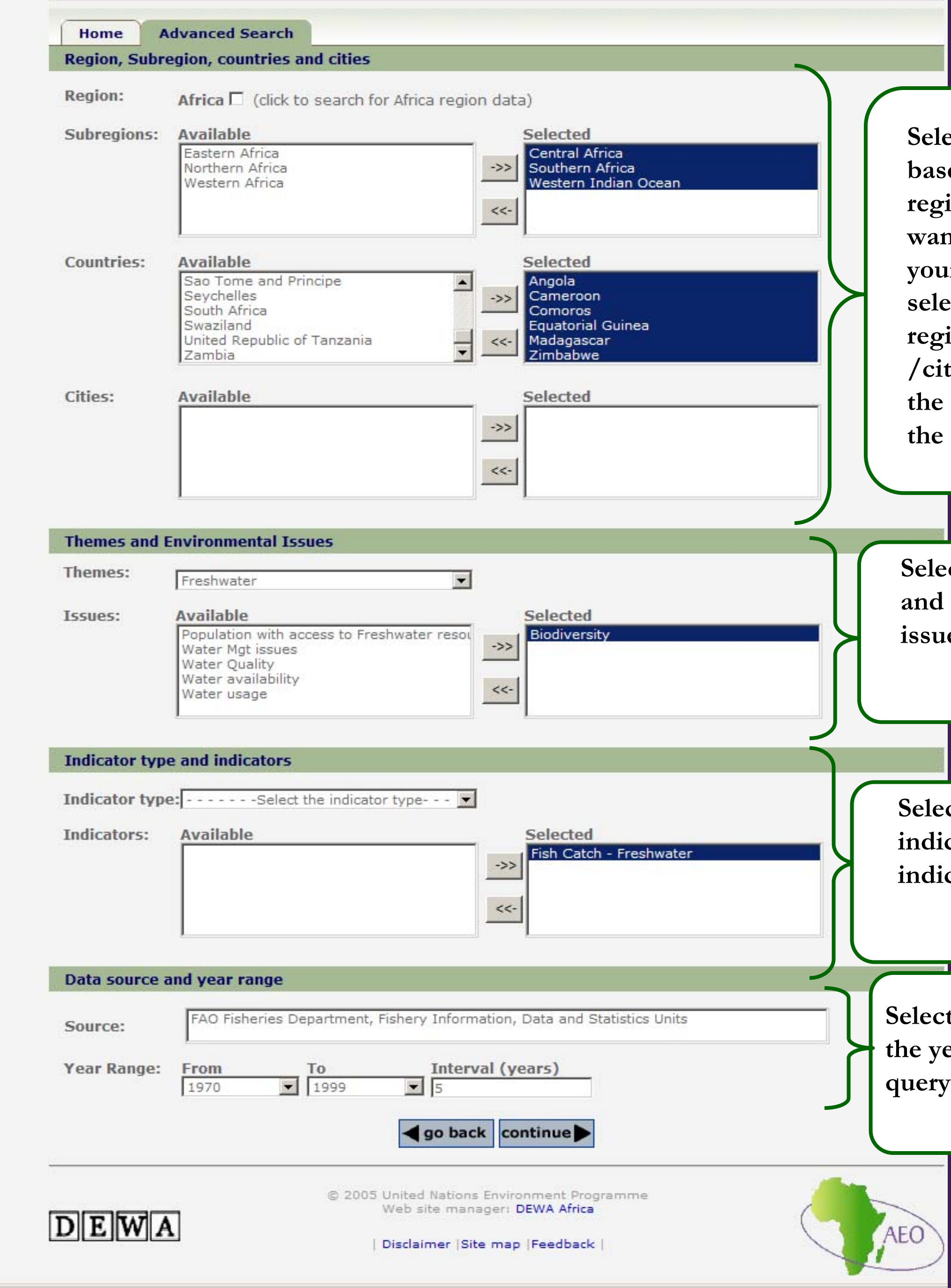

Region, Subregion, countries and cities

Region: Africa ☐ (click to search for Africa region data)

Subregions:

Available	Selected
Eastern Africa Northern Africa Western Africa	Central Africa Southern Africa Western Indian Ocean

Countries:

Available	Selected
Sao Tome and Principe Seychelles South Africa Swaziland United Republic of Tanzania Zambia	Angola Cameroon Comoros Equatorial Guinea Madagascar Zimbabwe

Cities:

Available	Selected

Themes and Environmental Issues

Themes: Freshwater

Issues:

Available	Selected
Population with access to Freshwater resou Water Mgt issues Water Quality Water availability Water usage	Biodiversity

Indicator type and indicators

Indicator type: - - - - - - -Select the indicator type- - -

Indicators:

Available	Selected
	Fish Catch - Freshwater

Data source and year range

Source: FAO Fisheries Department, Fishery Information, Data and Statistics Units

Year Range: From 1970 To 1999 Interval (years) 5

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Select the region based on the region data you want to conduct your search on. To select multiple sub regions/countries /cities, hold down the Ctrl-button of the keyboard.

Select the theme and environmental issue.

Select the indicator type and indicator.

Select the source and the year range for your query.

Option for viewing results

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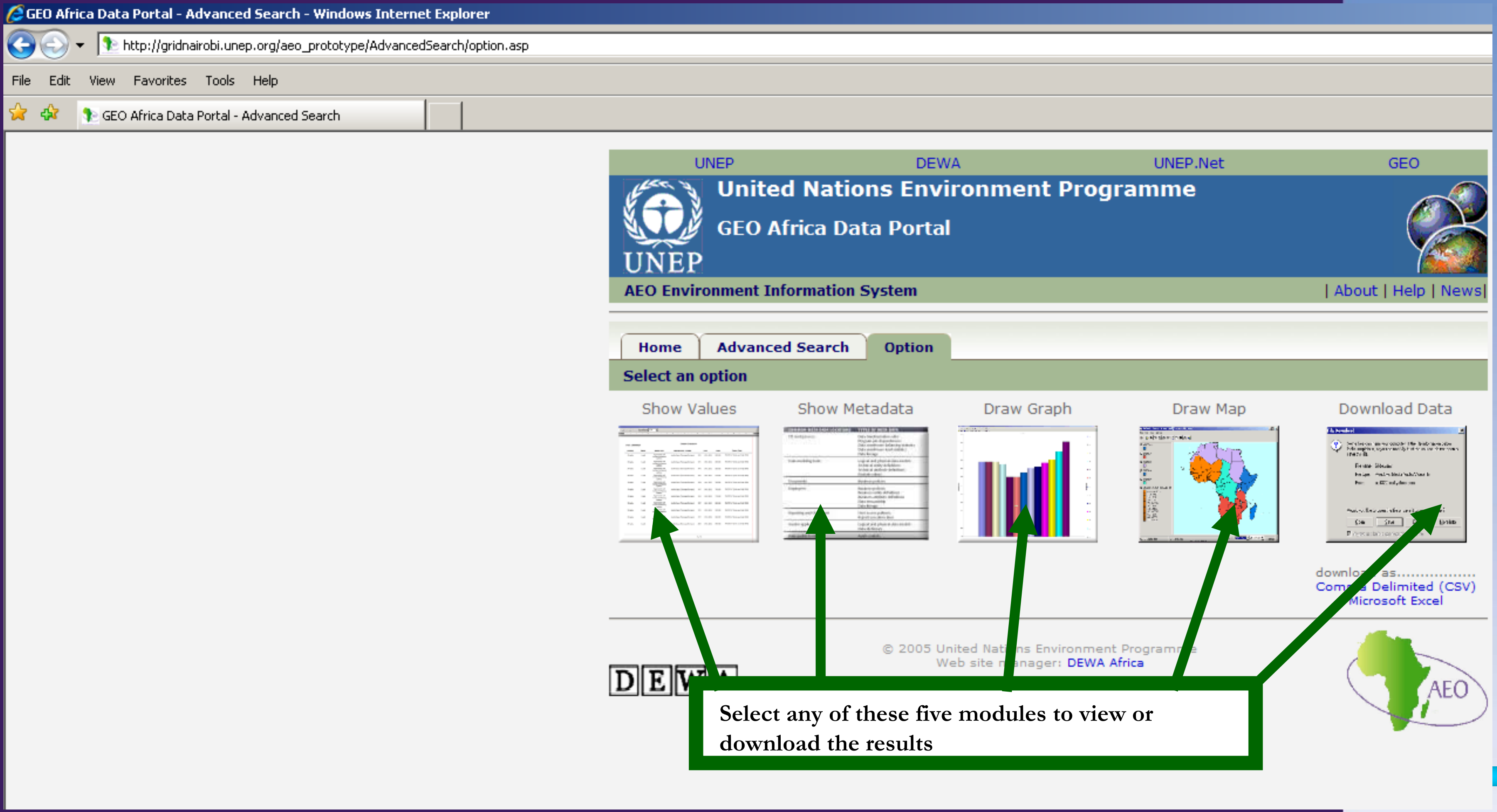

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Select an option

Show Values
Show Metadata
Draw Graph
Draw Map
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Microsoft Excel

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Select any of these five modules to view or download the results

Results – Options

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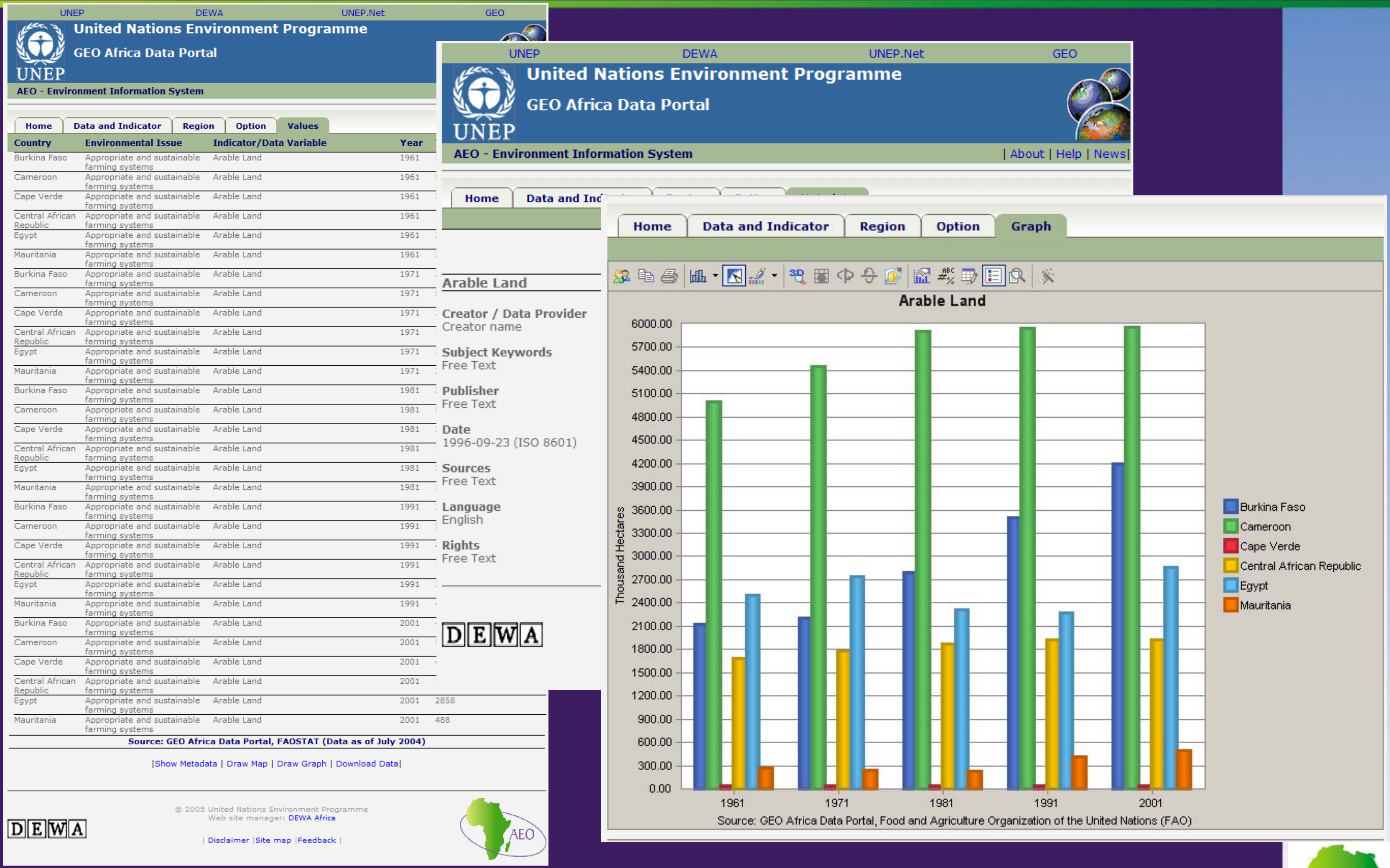

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Home | Data and Indicator | Region | Option | Values

Country	Environmental Issue	Indicator/Data Variable	Year	
Burkina Faso	Appropriate and sustainable farming systems	Arable Land	1961	
Cameroon	Appropriate and sustainable farming systems	Arable Land	1961	
Cape Verde	Appropriate and sustainable farming systems	Arable Land	1961	
Central African Republic	Appropriate and sustainable farming systems	Arable Land	1961	
Egypt	Appropriate and sustainable farming systems	Arable Land	1961	
Mauritania	Appropriate and sustainable farming systems	Arable Land	1961	
Burkina Faso	Appropriate and sustainable farming systems	Arable Land	1971	
Cameroon	Appropriate and sustainable farming systems	Arable Land	1971	
Cape Verde	Appropriate and sustainable farming systems	Arable Land	1971	
Central African Republic	Appropriate and sustainable farming systems	Arable Land	1971	
Egypt	Appropriate and sustainable farming systems	Arable Land	1971	
Mauritania	Appropriate and sustainable farming systems	Arable Land	1971	
Burkina Faso	Appropriate and sustainable farming systems	Arable Land	1981	
Cameroon	Appropriate and sustainable farming systems	Arable Land	1981	
Cape Verde	Appropriate and sustainable farming systems	Arable Land	1981	
Central African Republic	Appropriate and sustainable farming systems	Arable Land	1981	
Egypt	Appropriate and sustainable farming systems	Arable Land	1981	
Mauritania	Appropriate and sustainable farming systems	Arable Land	1981	
Burkina Faso	Appropriate and sustainable farming systems	Arable Land	1991	
Cameroon	Appropriate and sustainable farming systems	Arable Land	1991	
Cape Verde	Appropriate and sustainable farming systems	Arable Land	1991	
Central African Republic	Appropriate and sustainable farming systems	Arable Land	1991	
Egypt	Appropriate and sustainable farming systems	Arable Land	1991	
Mauritania	Appropriate and sustainable farming systems	Arable Land	1991	
Burkina Faso	Appropriate and sustainable farming systems	Arable Land	2001	
Cameroon	Appropriate and sustainable farming systems	Arable Land	2001	
Cape Verde	Appropriate and sustainable farming systems	Arable Land	2001	
Central African Republic	Appropriate and sustainable farming systems	Arable Land	2001	
Egypt	Appropriate and sustainable farming systems	Arable Land	2001	2858
Mauritania	Appropriate and sustainable farming systems	Arable Land	2001	488

Source: GEO Africa Data Portal, FAOSTAT (Data as of July 2004)

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Arable Land

Creator / Data Provider
Creator name

Subject Keywords
Free Text

Publisher
Free Text

Date
1996-09-23 (ISO 8601)

Sources
Free Text

Language
English

Rights
Free Text

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Arable Land

Source: GEO Africa Data Portal, Food and Agriculture Organization of the United Nations (FAO)

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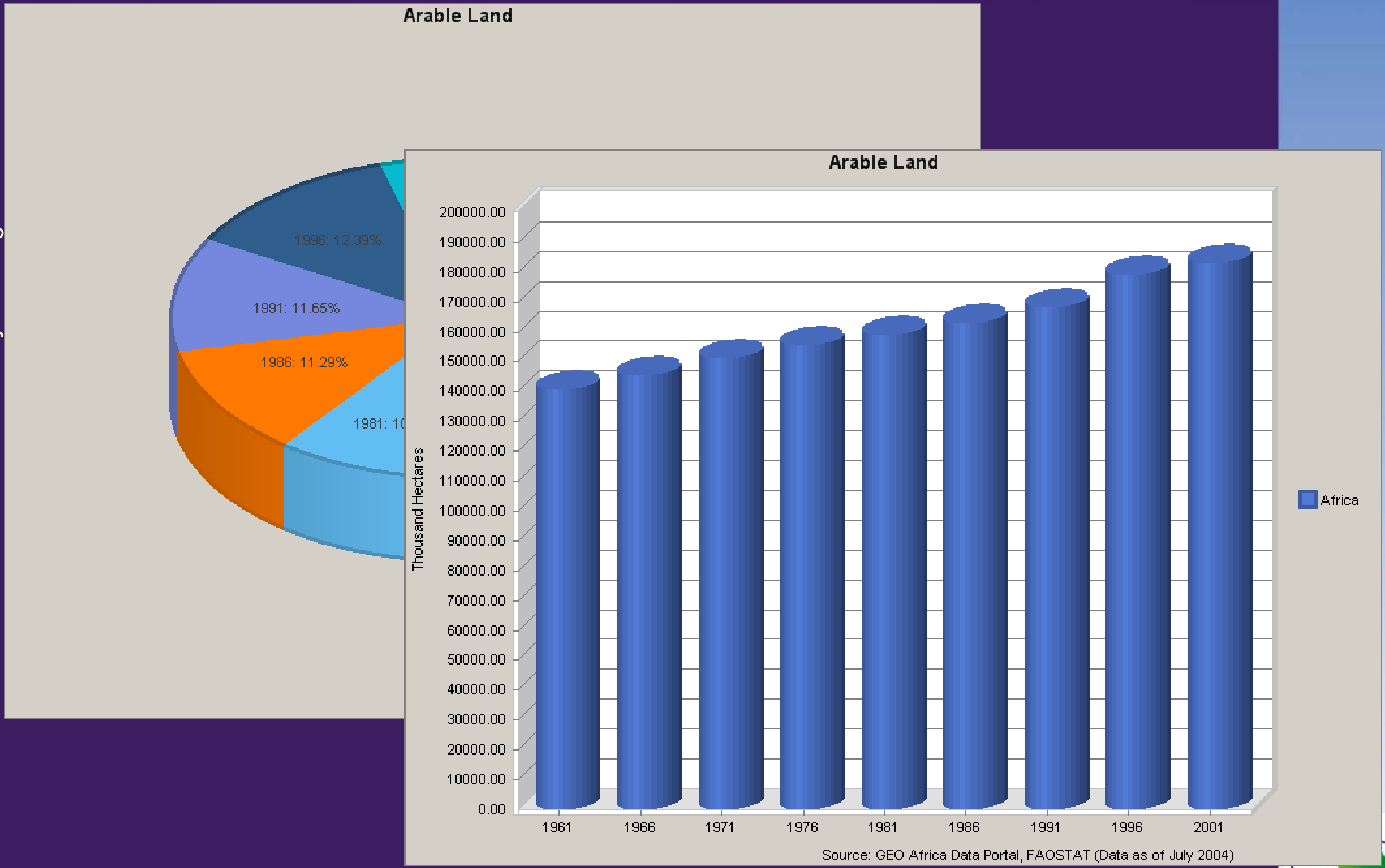
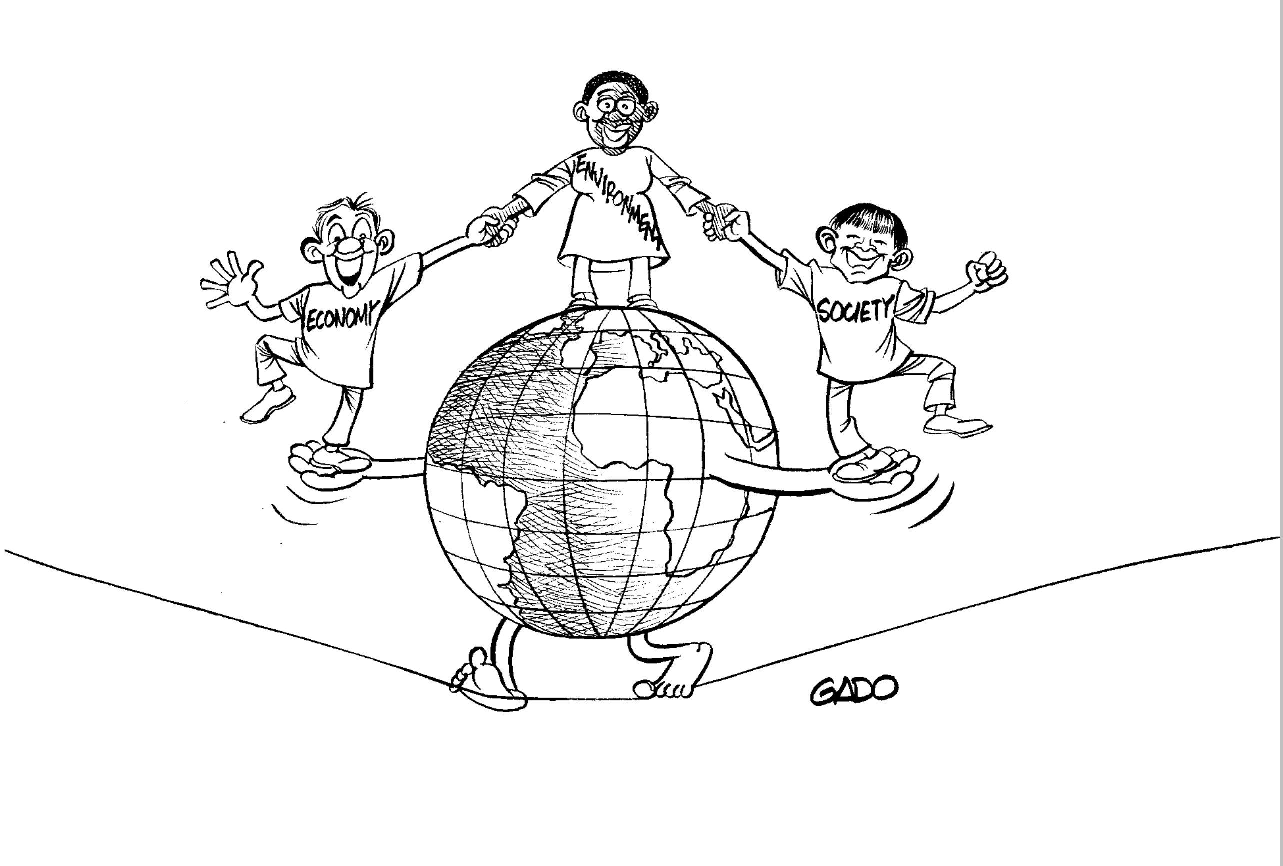
Customizing graphs



Source: GEO Africa Data Portal, FAOSTAT (Data as of July 2004)

Conclusion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- ☐ **Success requires that institutions need to agree to work together to achieve common objectives**

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