

“Capacity Building and Strengthening Institutional Arrangement”

Subcomponent Awareness Building

“Available tools to increase environmental awareness:
presentation of APAT activities to promote environmental
awareness at local level by means of the ‘Small Municipalities’
Project”

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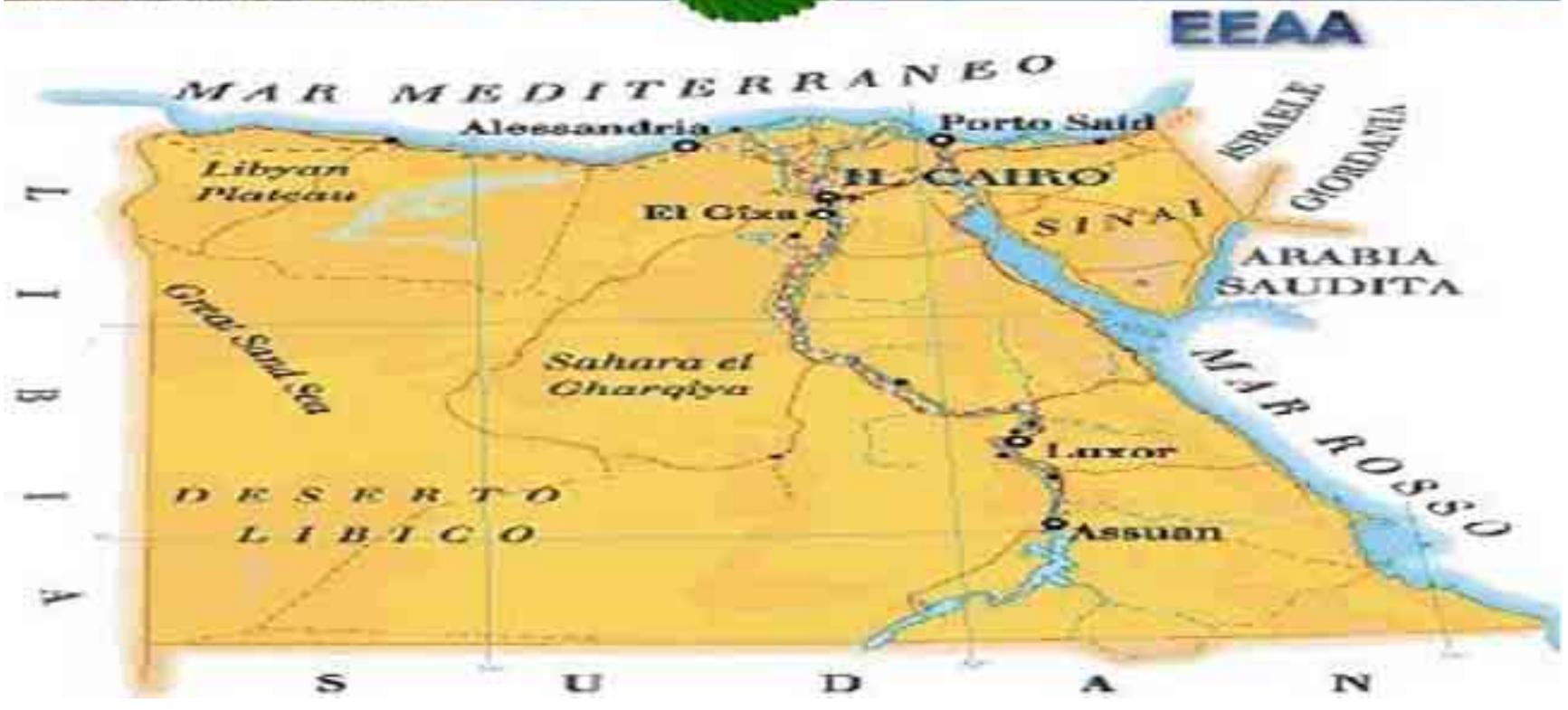
Service for the Environmental Education and Capacity Building



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1. Egypt: the landscape





Arab Republic of Egypt



1. Egypt: the landscape

Geographical Aspects

Population: on 1/1/2004, the Egyptian population was estimated at approximately 68.65 million.

Area : Around one million square km. of these, only around 55 thousands square km (i.e. 5.5%) are populated.

Borders :
To the North: Mediterranean Sea
To the South: Sudan
To the East: Gaza Strip, Israel and the Red Sea
To the West: Libya

Language: Arabic is the official language. English is widely spoken in business.

Climate : Generally dry climate. Moderate temperatures and humidity prevail on the Mediterranean coast, while in southern Egypt, the summer is hot the and the winter is generally warm.

1. Egypt: the landscape

Gross Domestic Product : 294,3 billion dollars

Economical Aspects

Gross Domestic Product/pro capite : 3.900 dollars

Economic growth/year: 2,8%

Inflacton % : 4,5%

Main Sectors/Products :

Textiles, food industry, building trade, metals, tourism, chemical products, hydrocarbons, crude oil and industry oil, cotton, rice, cereals, wheat, beans, fruits, vegetables, livestock (buffalos, sheeps, goats)

Main Trade Exchanges Partners:

USA, Italy, United Kingdom, Germany, France, China











فندق
مستورب

فندق
مستورب















A wide-angle photograph of the Gil el Kebir desert. The landscape is filled with numerous large, rounded, light-colored rock formations scattered across a sandy, brownish terrain. The sky is a clear, bright blue. In the lower right foreground, the rear portion of a white car is visible, parked on a dirt path. A semi-transparent grey rectangular box is overlaid on the right side of the image, containing the text 'Gil el Kebir desert' in a bold, black, sans-serif font.

**Gil el Kebir
desert**

2. 'Small Municipalities' Project (I)

**APAT**

Agency for Environmental Protection and Technical Services

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2. 'Small Municipalities' Project (II)

The Italian provinces' area has a structure composed by 3644 small municipalities under 2000 inhabitants, on a total of 8096 ones, it is the 45% and these areas cover the 30% of the national territory. The objectives of the 'Small Municipalities' Project are:

- Promotion of environmental management easily usable tools;
- Study of territorial transformation modalities during the time;
- Development of initiatives aimed at the sustainability needs
- Identification of rural and urban landscape's dynamic vulnerability aspects;
- Administrative action strengthening
- Spreading of environmental awareness towards citizen of small municipalities

2. 'Small Municipalities' Project (III)

In this context the Service for the Promotion of Environmental Capacity Building of APAT has developed 3 technical tools to support local authorities in the environmental protection of their territories

1) “Ecocatasto” tool

2) “Ecopiano” tool

3) “Ecobilancio” tool

In order to provide environmental information to the citizens and public authorities of Small Municipalities, a data base on-line has been developed, composed by appropriate indicators defined in 8 environmental thematic areas, as the next slides show:

2. 'Small Municipalities' Project (IV)

Thematic environmental areas list:

T1) Air

Climatic characteristics, qualitative aspects, pollution caused by the main substances (gasses and powders), acoustic emissions.

T2) Water

Physical – chemical – bacteriological characteristics of superficial and underground waters, water resources and consumption assessment, bathing waters quality.

T3) Soil

Soil use and destination, geological hazards analysis, soil's physical - chemical quality, and pollution level caused by chemical products used in agriculture.

T4) Nature and Biodiversity

Habitats' Natural level, protected natural areas and biodiversity assessment, ecosystems' hazards and criticalities.

2. 'Small Municipalities' Project (V)

T5) Waste

Wastes' quantitative and qualitative evaluation, contaminated sites, waste management methodologies (collection, treatment, disposal) pollutant substances and pollution level per environmental thematic areas (air, water, soil, etc.) analysis of critical points and hazard level.

T6) Energy and Radiation

Sources, productions and consumptions assessment.

T7) Demography and Economy

Demographical aspects and quality mobility analysis, tourism, forest, agricultural, zoo-technical and ichtyc resources, landscape, archeological, historical and cultural goods evaluation.

T8) Environmental Culture and Sustainable Development

Available services, museums and centres, territorial associations, plans of sustainable development, adoption of European or national protocols.

2. 'Small Municipalities' Project (VI)

1) "Ecocatasto" tool

Ecocatasto tool, as it means, represents the technical - scientific data assumption for the environmental protection, collected at local level and elaborated with a set of organically and accurately selected indicators.

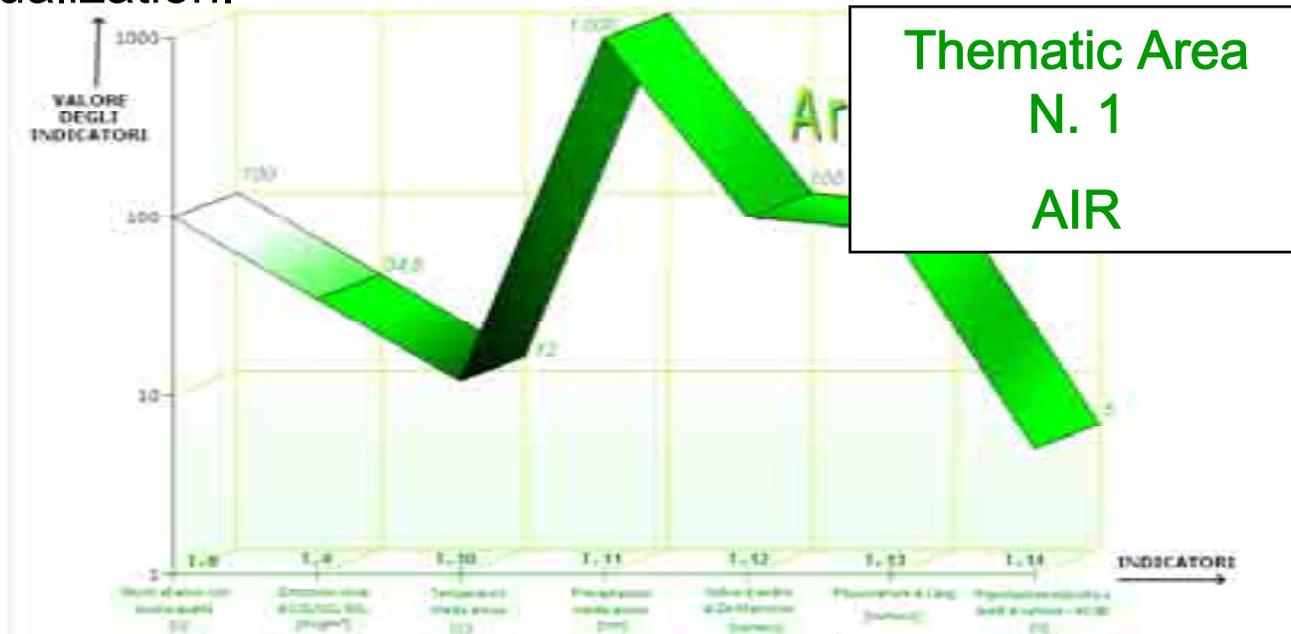
Indicator Code	T1							T5								
	AIR							WASTE AND POLLUTANT SUBSTANCES								
	8		9	10	11	12,0	13,0	14		35		36		37		38
Indicator	Days of the year with good air quality		Total emissions of CO ₂ , NO _x , SO _x	Year medium Temperature	Year medium precipitations	De Martonne Aridity index	Lang Pluvio-factor	Population exposed to an acousical pollution levels> 60 Dbel	Urban waste Production		Special waste Production		Differentiated waste disposal		Contaminated areas and derelict illegal dumping	
Misure union	a	b							a	b	a	b	a	b	a	b
DPSIR	s i	s i	p i	s	s	s	s	p s	p	p	p	p	s r	s r	p s	p s
1		100	NO _x =111,75	14,0	1.400	120,0	100,0		560.000	332,0	571328,6	338,7	16240	2,9		
2		100	NO _x =111,75	14,5	1.100	91,0	75,9		676.000	403,1	567942,0	338,7	12844	1,9		
n																

The Ecocatasto is aimed at choosing the main aspects of "environment state", by means of appropriate environmental indicators for each thematic areas, that can catch the environmental situation in a simplified database.

2. 'Small Municipalities' Project (VII)

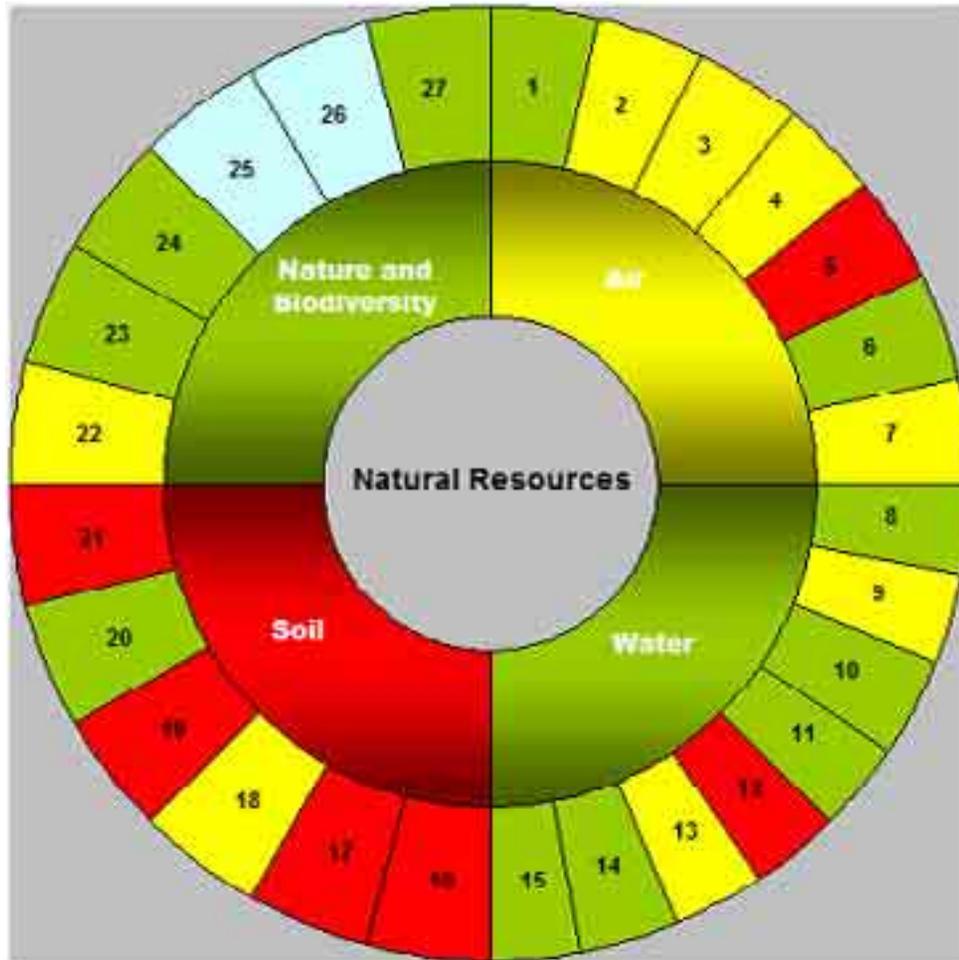
2) "Eco-piano" tool

Ecopiano tool, considering the small municipalities territorial data that are included in the Ecocatasto tool, catches the environmental characteristics, through the integrated graphic representation of the different indicators, simplifying analysis, assessment and evaluation by means of an integrated and referred visualization.



This tool provide an immediate identification of environmental conditions of the local territory, through a territorial graphical representation of all the collected indicators' variables.

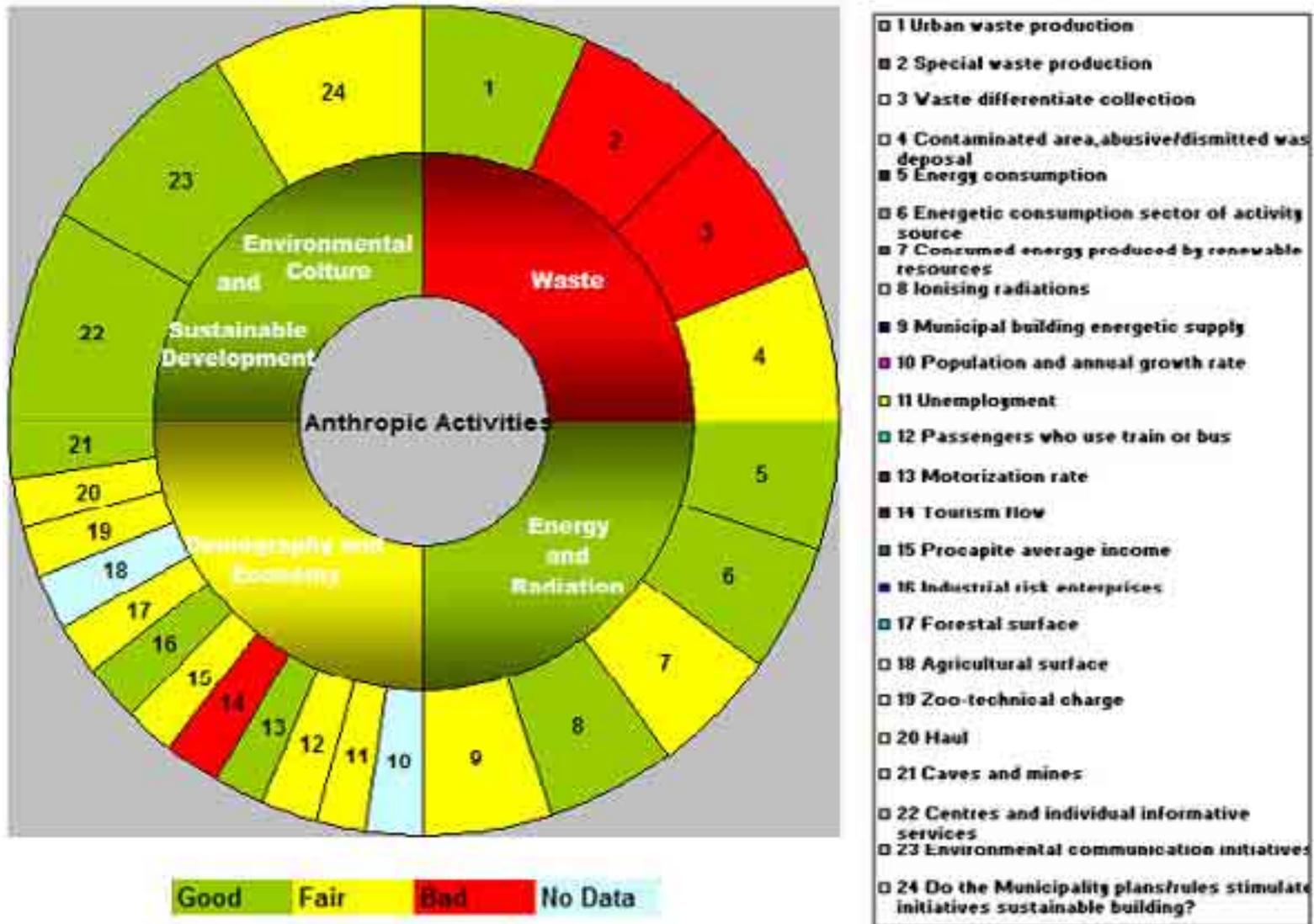
2. 'Small Municipalities' Project (VIII)



- 1 Days /year with good air quality
- 2 Total emissions of CO2, NOX, SOX
- 3 Year medium Temperature
- 4 Year medium Precipitations
- 5 De Martonne Aridity index
- 6 Lang Pluvio-factor
- 7 Population exposed to > 60dB noise levels
- 8 Water consumption
- 9 Water consumption for domestic use
- 10 Biological quality hydro-geological basins
- 11 Underflowing water reserves
- 12 Swimming water quality
- 13 Water losses (distribution net)
- 14 Houses connected sewerage net
- 15 Quality surface/fault waters for different uses
- 16 Impermeable soil
- 17 Area subject to floating
- 18 Seismicity grade
- 19 Area affected by the soil erosion
- 20 Chemical products in agriculture
- 21 Hydrological hazard
- 22 Protected natural reserves
- 23 Number of annual fires
- 24 Urban green surface
- 25 Flower species red list
- 26 Animal species red list
- 27 Wood /natural fields.

Good Fair Bad No Data

2. 'Small Municipalities' Project (IX)



2. 'Small Municipalities' Project (X)

3) "Ecobilancio" tool

This tool represents the Ecocatasto and Ecopiano revelations' synthesis; it aims at providing a technical scientific support based on environmental data that were collected and elaborated considering what is usable, in the small municipalities, to the environmental protection supplying a comparison with average and reference values of law at UE, national and other levels.

The sustainability, in this scientific context, must be referred to a concept of environment interpretable with social and anthropological considerations, based on thematic and functional systems.

'Environment is the place of governed transformations', where knowledge and actions aim at management, forecasting, efficiency and needs satisfaction at territorial level.

2. 'Small Municipalities' Project (XI)

ECOBILANCIO:

COMPARISON OF ECOCATASTO – ECOPIANO DATA:

TO ENVIRONMENTAL EUROPEAN COMMUNITY LAW;

TO ITALIAN ENVIRONMENTAL LAW;

TO LOCAL ENVIRONMENTAL LAW;

TO KYOTO 2010 OBJECTIVES;

TO AARHUS OBJECTIVES;

TO MUNICIPAL CONTABILITY AND BALANCE;

EUROPEAN UNION AVERAGE;

NATIONAL AVERAGE;

LOCAL AVERAGE.

2. 'Small Municipalities' Project (XII)



progetto
PICCOLI COMUNI
strumenti di gestione ambientale a livello locale

ECOCATASTO ECOPIANO ECOBILANCIO



2. 'Small Municipalities' Project (XIII)

Local Environmental management tools

