THE PROCESS OF DEVELOPMENT OF ENVIRONMENTAL STATISTICS IN ECUADOR: APPLICATION OF THE FDES

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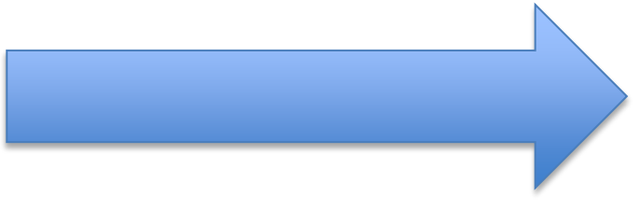
The context of the development of environmental statistics in Ecuador

- Adequate legal framework
  - The revolutionary constitution of Ecuador which recognize rights to nature
    - Right to have its existence respected and also its mantainance and regeneration of its vital cycles
    - Right to be restored in case of damage
  - Law of statistics which gives the NSO the role and autority of interagency coordination
- Mandate of monitoring environmental outcomes through the National Development Plan



Need to develop and strengthen environmental statistics

But…..

- Lack of history in environmental statistics
- Sources dispersed over a variety of collectors with overlapping mandates and functions
- Numerous methods applied in compilation
- Lack of an adequate inventory of sources and statistics
- Inadequate interagency coordination

What was the proposal ?

STRENGTHEN THE NSO WITH AN ENVIRONMENTAL STATISTICS DIVISION

Division: On July 11, 2011
Agricultural Statistics: On March, 2014.

Develops agricultural and environmental statistics research

Generates reliable, timely and quality agricultural and environmental statistics.

SEARCH FOR A FRAMEWORK TO GUIDE THE COORDINATION AND ORGANIZATION OF ENV. STATISTICS

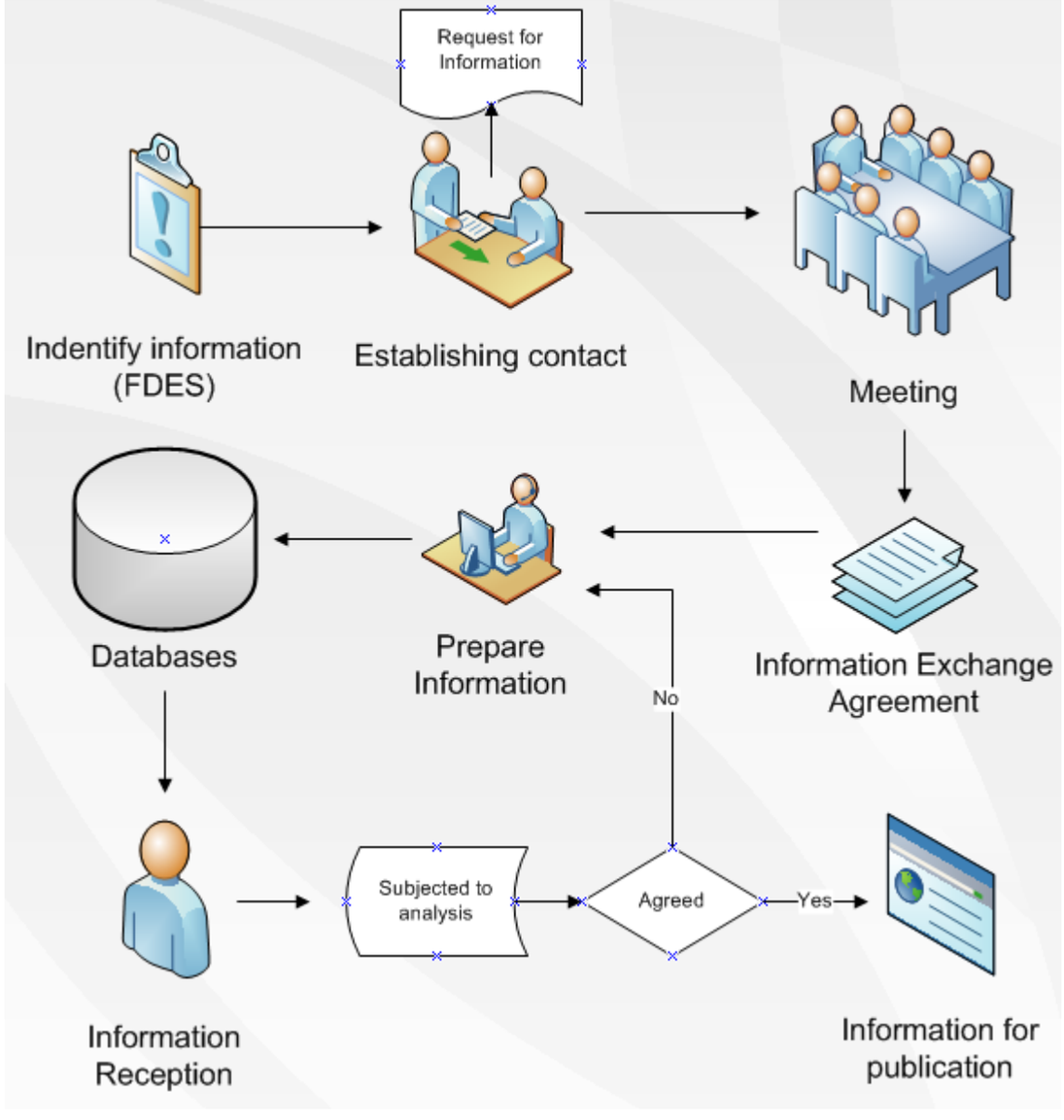
FDES: It is adopted for the development of environment statistics. Support of Statistical Division of UN.

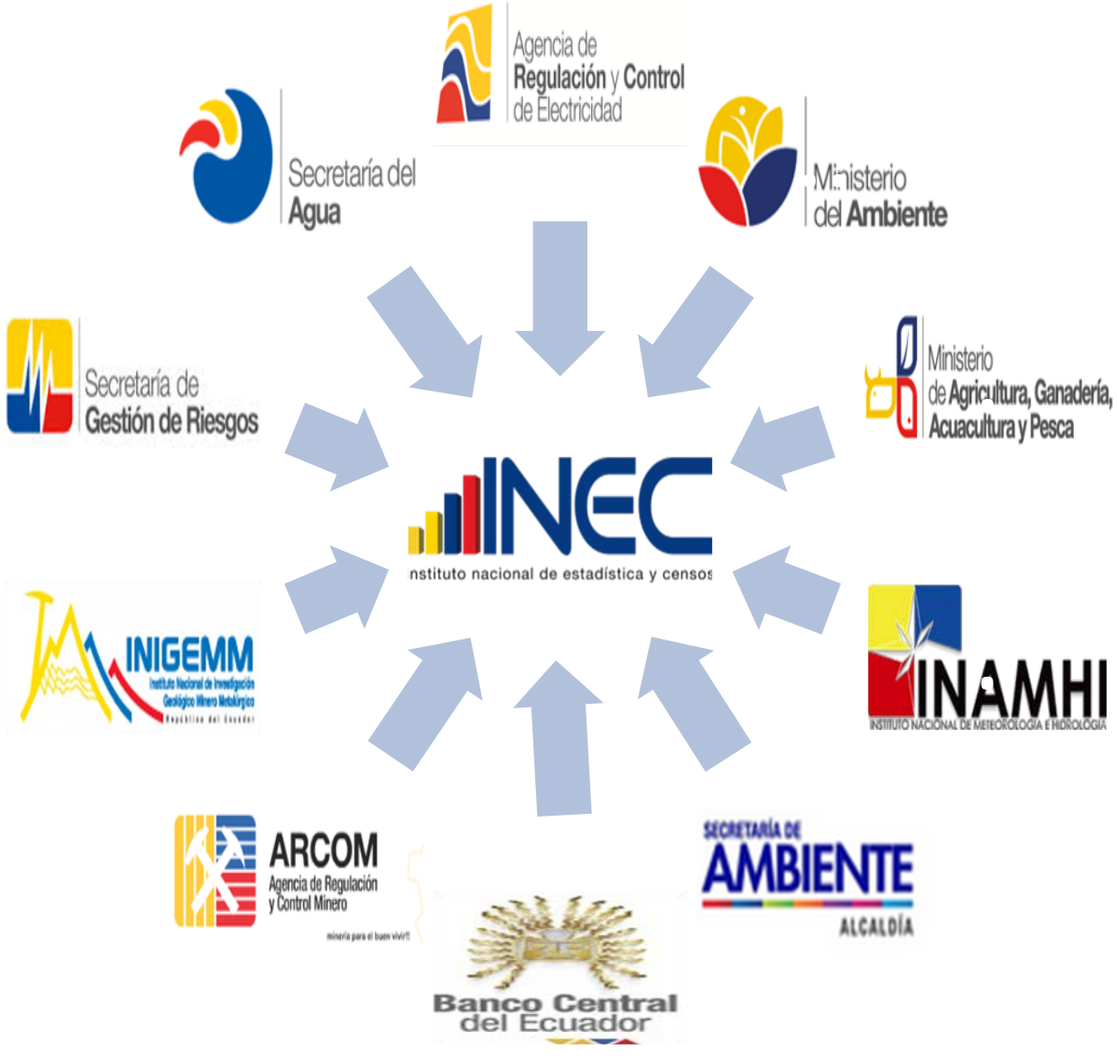
It is a methodological guidance to compile/integrate dispersed environment statistics.

Why the FDES?

- Helps to make an inventory of data
- Helps to identify gaps
- Helps to identify a range of statistics relevant to decisión making
- Useful tool for monitoring SDG
- Coherent with Environmental-Economic Accouting

The road for implementation: INTERAGENCY COORDINATION





EXTERNAL SOURCES

Agencia de Regulación y Control de Electricidad → Electricity Statistics

INIGEMM Instituto Nacional de Investigación Geológico Minero Metalúrgico → Geological Statistics

Ministerio del Ambiente → Environmental Statistics

INAMHI Instituto Nacional de Meteorología e Hidrología → Meteorological Statistics

Ministerio de Agricultura, Ganadería, Acuacultura y Pesca → Agricultural Statistics

Secretaría del Agua → Water Statistics

ARCOM Agencia de Regulación y Control Minero "minería para el buen vivir!" → Mining Statistics

Secretaría de Gestión de Riesgos → Extreme events and disasters Statistics

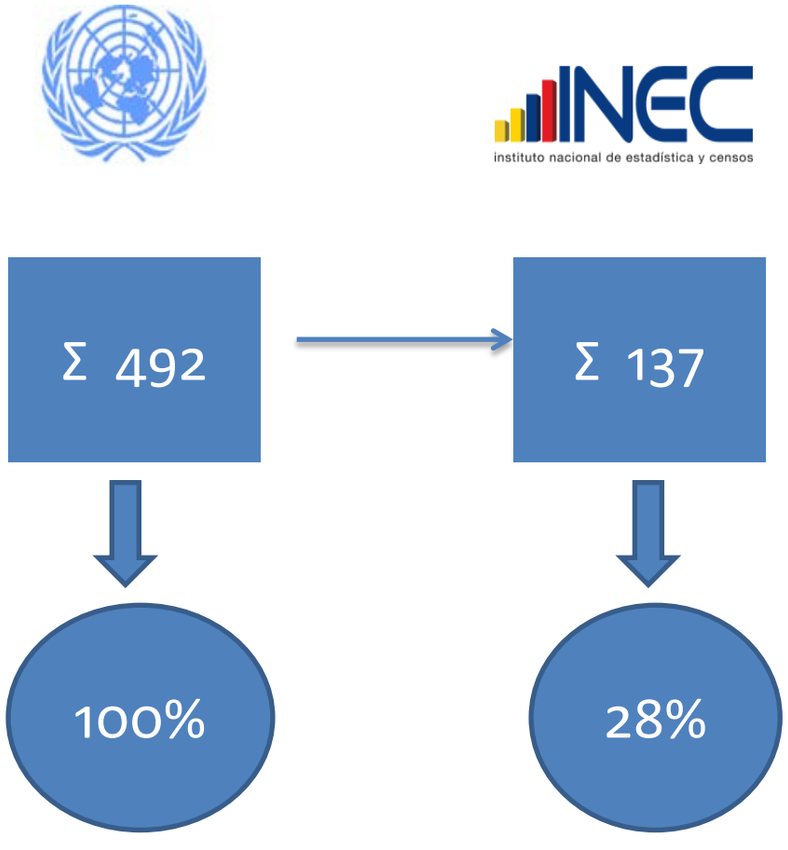
Secretaría de Ambiente Alcaldía → Air Quality Statistics

Banco Central del Ecuador → Economic Statistics

INEC - INTERNAL SOURCES

- Census of population and housing
- Labor Survey (environmental module)
- Health Statistics
- National Agriculture and Livestock Survey
- Economic and Environmental Enterprise Information Survey
- Census of Economic and Environmental Information in the Local Governments
- Statistics of Births and deaths
- Life Conditions Survey
- VDatos Ambientales

The implementation of the framework in Ecuador



TIERS	FDES	INEC	%
1 (Core set)	107	49	46%
2	212	57	27%
3	173	31	18%
TOTAL	**492**	**137**	**28%**

The implementation of the framework in Ecuador

SUMMARY

FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS	FDES	INEC	%
Component 1: Environmental Conditions and Quality	182	17	9%
Component 2: Environmental Resources and their Use	124	29	23%
Component 3: Residuals	57	31	54%
Component 4: Extreme Events and Disasters	33	19	58%
Component 5: Human Settlements and Environmental Health	49	27	55%
Componente 6: Environment Protection, Management and Engagement	47	14	30%
TOTAL	***492***	***137***	***28%***

The implementation of the framework in Ecuador

1

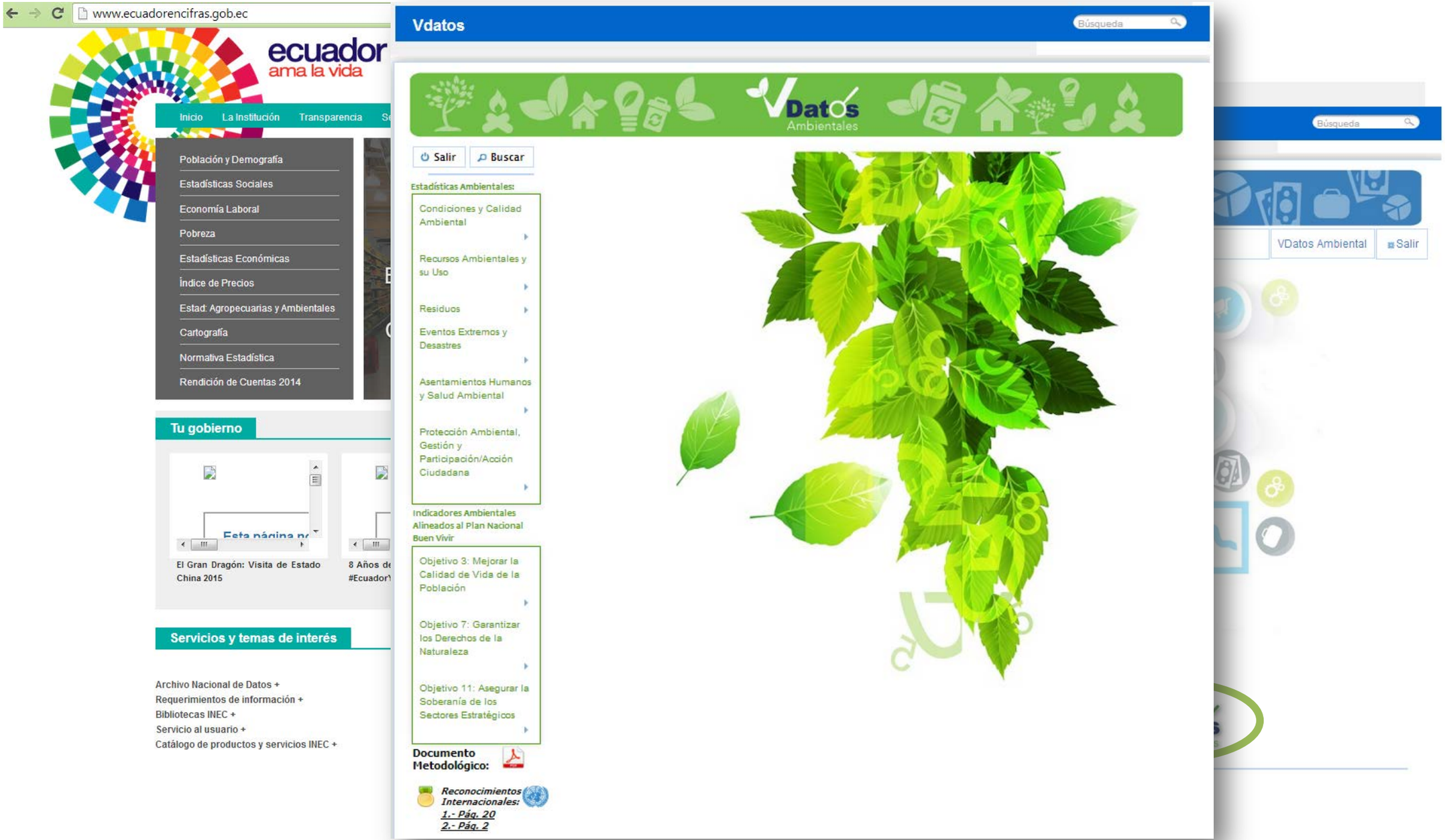
FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS		FDES	INEC	%
Subcomponent	**Topic**			
Physical Conditions	Atmosphere, climate and weather	24	5	21%
	Hydrographical	15	0	0%
	Geological and geographical information	17	1	6%
	Soil characteristics	13	4	31%
Land cover, Ecosystems, Biodiversity and Forrest	Land cover	2	0	0%
	Ecosystems	13	0	0%
	Biodiversity	10	2	20%
	Forests	11	0	0%
Environmental Quality	Air quality	19	5	26%
	Freshwater quality	22	0	0%
	Marine water quality	29	0	0%
	Soil pollution	4	0	0%
	Noise	3	0	0%
Component 1: Environmental Conditions and Quality		**182**	**17**	**9%**

The implementation of the framework in Ecuador

2

FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS		FDES	INEC	%
Subcomponent	**Topic**			
Non-energy Mineral Resources	Stocks and changes of nonenergy mineral resources	10	0	0%
	Production and trade of nonenergy trade of nonenergy minerals	3	3	100%
Energy Resources	Stocks and changes of mineral energy resources	12	0	0%
	Production and use of energy from non-renewable and renewable sources	8	7	88%
Land use	Land use	11	1	9%
Biological Resources	Timber resources	14	0	0%
	Aquatic resources	11	2	18%
	Crops	13	6	46%
	Livestock	6	3	50%
	Wild, uncultivated biological resources (other than fish and timber)	7	0	0%
Water resources	Water resources	14	0	0%
	Abstraction, use and returns of water	15	7	47%
Component 2: Environmental Resources and their Use		**124**	**29**	**23%**

V datos: A tool to disseminate the enviromental statistics



V datos: A tool to disseminate the enviromental statistics

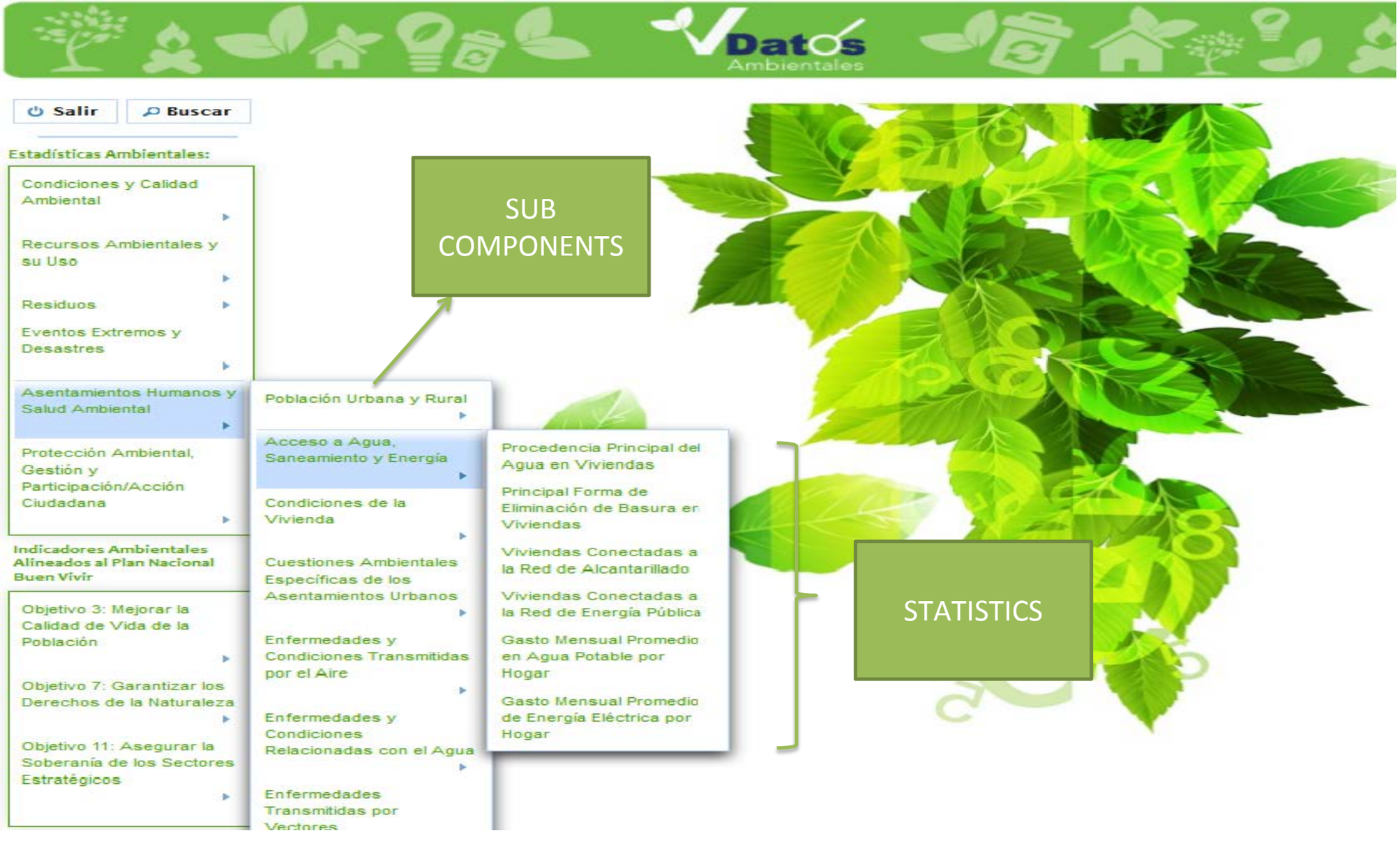
Salir | Buscar

Estadísticas Ambientales:

- Condiciones y Calidad Ambiental
- Recursos Ambientales y su Uso
- Residuos
- Eventos Extremos y Desastres
- Asentamientos Humanos y Salud Ambiental
- Protección Ambiental, Gestión y Participación/Acción Ciudadana

SIX FDES COMPONENTS

V datos: A tool to disseminate the enviromental statistics



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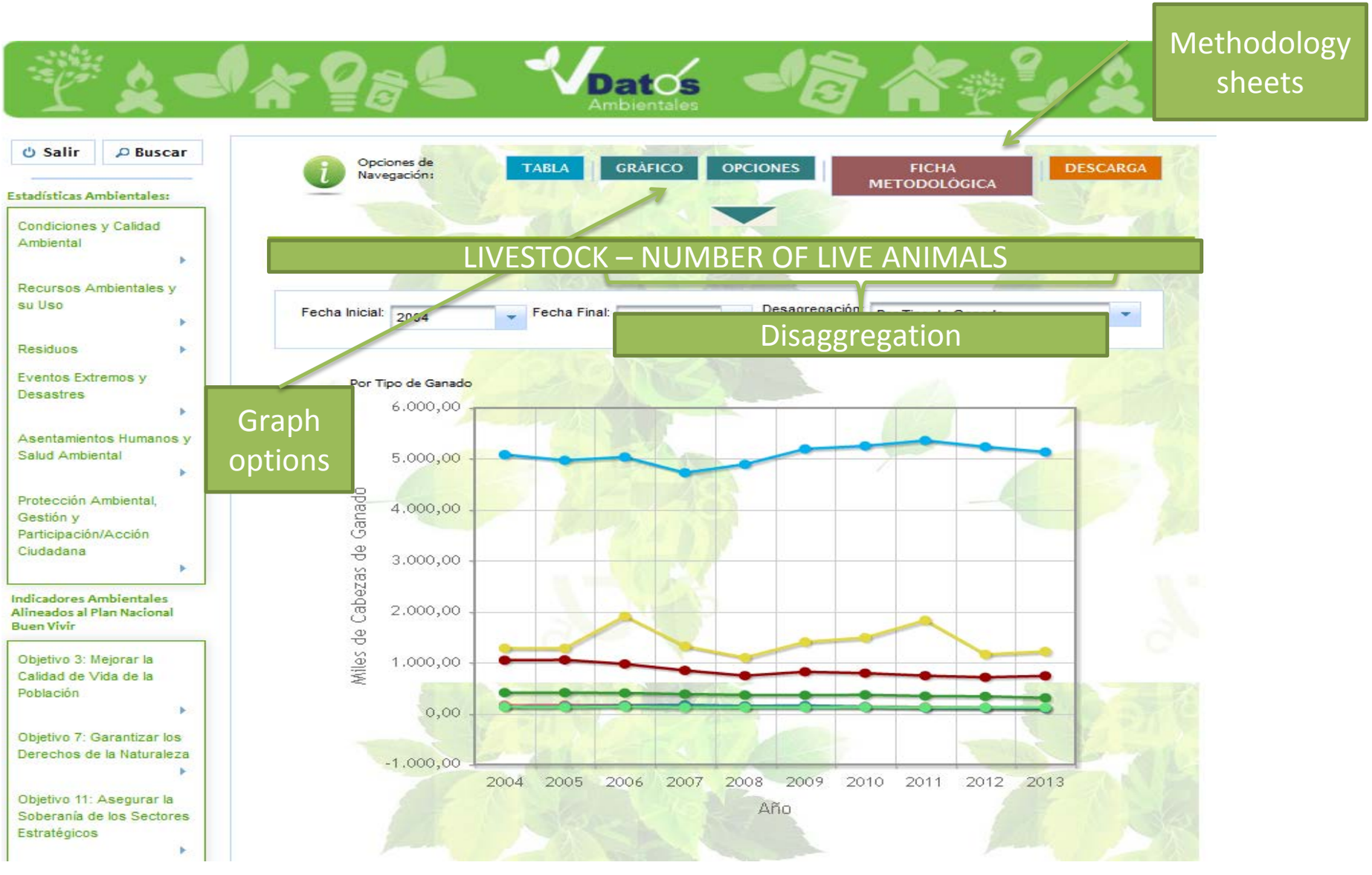

The road ahead.....

Enhance coordination with institutions that generate information not accounted yet

Develop proposals for the lifting of environmental data that does not exist in the country

Strengthen the technical capabilities of INEC to meet the needs arising from the development agenda after 2015.

Complete FDES information

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