Brief presentation of the Greek EIONET members Organizations as related to soil data and information in Greece

- **National Agricultural Research Foundation NAGREF: 2 members**
  - **Dr. Christos Tsadilas, Institute of Soil Mapping and Classification**
  - **Dr. Sideris Theocharopoulos, Institute of Soil Science of Athens**
- **Institute of Geology and Mineral Exploitation (IGME): 1 member**
  - **Dr. Fani Gerouki**

Organizations objectives

I. NAGREF

The National Agricultural Research Foundation (N.AG.RE.F.) -established in 1989- is the national body responsible for all the spectrum of agricultural research and technology in Greece -including environmental management (Soil degradation and restoration, Sustainable soilmanagement, Water resources management, Protection and restoration of water resources, Waste management). functioning as a Legal Private Entity sponsored by the Ministry of Agriculture.

II. IGME

It was established 1976 and is the State's technical adviser in geoscientific matters. Its fundamental aim is the geological study of the country, and the exploration - evaluation of the mineral raw materials (except hydrocarbons) and groundwater resources.

Organizations with available soil data

NAGREF's Institutes

- Institute of Soil Mapping and Classification of Larissa
- Soil Science Institute of Athens
- Soil Science Institute of Thessaloniki
- Institute of Land Reclamation
- Institute of Forest Research of Thessaloniki
- Institute of Forest Research of Athens

Outside NAGREF

- Institute of Geology and Mineral Exploitation

Soil Laboratories of the Faculties of Agriculture of Greek Universities

- Agricultural University of Athens
- Aristotle University of Thessaloniki
- University of Thessaly

Contribution

Please explain with which data your country could contribute to the data requirements to ESDAC (attached). (You may use 2 slides)

ESDAC

1. Scientific and technical support for the development of guidelines on the identification of risk areas for acidification, erosion, organic matter decline, salinisation, compaction and landslides foreseen in the proposal for a Soil Framework Directive. **Yes**
2. Scientific and technical support for the development of guidelines on data (and metadata) quality, utilization of historical data, methods, access, and data-exchange formats for its implementation in the framework of INSPIRE. **Yes**
3. Progress on the development of a new European Soil Database, based on a 1:250,000 scale (as data is gathered and provided by Member States). **Yes**
4. Development of risk maps for Europe for the different soil threats, with particular emphasis on soil organic matter loss. **Yes**
5. Support to the smooth integration of existing data concerning contaminated sites, coming from the EEA, into ESDAC. **Yes**

EEA

1. Additional and/or updated data and maps on loss of organic matter (updated distribution, changes, potential impacts), susceptibility of subsoil to compaction, salinisation and erosion (including wind erosion risk maps). **Yes**
2. Updated datasets on “Progress in the management of contaminated sites” to support the EEA core set of indicators. **Yes**
3. Follow up of the soil country analysis. **Yes**

Available Data

NAGREF:

- Soil maps at different scales (1:5.00 up to 1:100.000) covering most of the agricultural areas of the country.
- Ecological land maps covering the forest areas of the country.

IGME:

Data base digitized for landslides (maps at different scales from 1:10.000 to 1:1.000.000). Some of them need updating.

Data base for soil data for small areas (soil EC, OM).

Data on soil pollution caused by metallurgical activities (non easily available handled by the Hellenic Ministry for Environmental Physical Panning and Public Works)

Greek National Committee for Combating Desertification:

- Soil Association map at scale 1:850.000.

Contribution

Type of Data

NAGREF:

Soil survey studies including:

- Soil maps
  - Information included in soil mapping units of detailed soil surveys (scale 1: : Drainage, texture, depth, slope, degree of erosion, carbonate content, soil classification according to Soil Taxonomy System.
- Soil sampling sites map and Derivative thematic maps
- Soil Survey report including analytical soil analyses data and profile descriptions.
  - Soil properties: texture, pH, organic matter content, cation exchange capacity, basic cations, base saturation, calcium carbonate content, electrical conductivity, available P and K.
- Recently all these data were digitized and georeferenced through a project of the Ministry of Rural Development and Food. The policy on the availability of these data has to be decided by the Ministry.
- Data are not entirely compatible with the ESDAC requirements.

IGME:

Data base digitized for landslides (maps at different scales from 1:10.000 to 1:1.000.000). Some of them need updating.

Data base for soil data for small areas (soil EC, OM).

Data on soil pollution caused by metallurgical activities (non easily available handled by the Hellenic Ministry for Environmental Physical Panning and Public Works)

Greek National Committee for Combating Desertification:

- Soil Association map at scale 1:850.000.

Please outline how you would see this collaboration happening in practice (e.g. would you like to use the same approach as for the contaminated sites dataflow?)

Actions to be done:

- Examination which of the available data are compatible to ESDAC, which are missing and the ways to selecting them.
- Accomplishment of the soil map in the areas not yet mapped and/or updating the existing soil maps.
- Completion of the data missing according to ESDAC specifications (scale, methodology, density, soil classification system etc).
- After obtaining the data required we may follow a approach similar as for the contaminated sites dataflow.

You may use this slide to present some particular needs or interests of your country regarding the ESDAC – EIONET collaboration (such as specific projects or value added products)

We would like Greek soil data to be incorporated in ESDAC.

We need any way to accomplish the soil map of the country. Therefore we wish to be closely involved in ESDAC – EIONET collaboration.

Specific projects aiming at the previously purpose or value added products would be of special interest.

Please explain how your country is preparing to implement INSPIRE (in general)

National process for INSPIRE Directive

- The Ministry for the Environment Physical Planning and Public Works coordinates up to now the participation of the country to the INSPIRE process.
- The Hellenic Mapping and Cadastral Organization has been assigned by the Ministry to participate to the technical processes of the European Commission for the implementation of the INSPIRE Directive.
- The Ministry is also coordinating in the country the ongoing process for incorporating the INSPIRE Directive to the national legislation.
- In terms of content the upgraded **National Environmental Information Network** will provide a big part of the required by the Directive thematic layers for the main environmental topics.

(You may use 2 slides)

Detail if any specific actions have been taken for the implementation of INSPIRE regarding **soil** data and information

- Most of the soil data have been digitized through a project of the Ministry of Rural Development and Food. All the relevant data are collected by the NAGREF and the policy on providing them has to be decided by the Ministry in collaboration with NAGREF.
- There are some actions in progress in the Framework of GS-SOIL (Institute of Soil Science of Athens, Institute of Forest Research of Athens, Institute of Soil Classification and Mapping, Institute of Geology and Mineral Exploitation). Further actions are going to be developed through NAGREF and IGME related to soil data harmonization at national and European scale considering not only soil but environmental, agronomical, and forestry data focusing at ANNEXIII of INSPIRE Directive.

(You may use 2 slides)