













Ministry of Environment and Natural Resources Protection of Georgia

Implementation of the ENI SEIS II Project

ENI SEIS II East regional meeting on Work plan implementation 1 June, 2017 Copenhagen

Maia Javakhishvili Marine Arabidze Goga Talakhadze

Main Goals

Sustainable Development

Prevention of Environmental Degradation

Means for Achieving Key Goals



Good Environmental Governance



Public Awareness



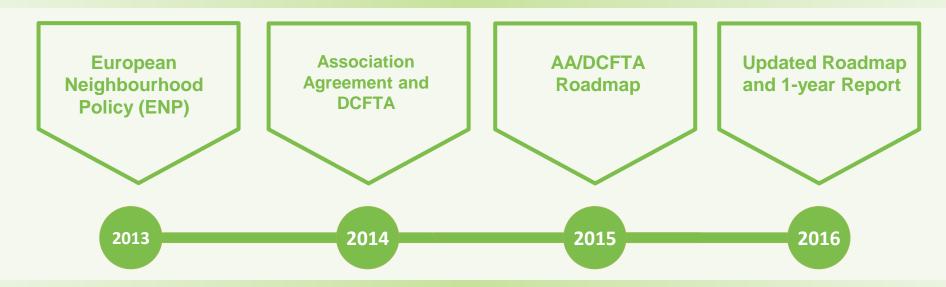
Greening the Economy



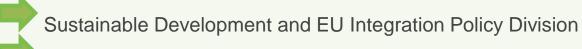
EU Integration



EU Integration



- Roadmap for EU approximation;
- AA/DCFTA Annual National Plans;
- New Units responsible for EU integration:



EU Legislation Harmonisation Division







Government Administration

SDG Nationalisation

Ministry of Environment and Natural Resources Protection of Georgia

- 13 environmentally related goals
- 50 environmentally related targets



























Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable

TARGET	GEORGIA ADJUSTED	BASE LINE INDICATOR
capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste	11.6 By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management	11.6.1.Annually generated municipal waste - 900 thousand tons; Annually collected and disposed municipal waste - 700 thousand tons. 11.6.2. Municipal waste placed on landfills - 100%; Recycled 0 % 11.6.3.Air pollution annually measured - in 5 big cities of Georgia (Tbilisi, Batumi, Kutaisi, Zestaponi and Rustavi); 2015 average air pollution in Tbilisi (in mg/m³) - PM 0.77; Sulfur dioxide 0.14; carbon monoxide 3.1; nitrogen dioxide 0.084; lead 0.0002, ozone 0.0469. Out of above listed six components, five exceed the maximum allowable concentration (MAC), except lead.





TARGET	GEORGIA ADJUSTED	BASE LINE INDICATOR
· ·	12.8 By 2030, ensure that people of Georgia have the relevant information and awareness for sustainable development and lifestyles in harmony with nature	12.8.1. Because of the absence of Strategy on Environmental Education for Sustainable Development, integration of environmental education into high or continuous education system is limited. Basic framework document of the standard - "Environmental Education for Sustainable Development" is already prepared, but not yet approved.





Goal 13. Take Urgent action to combat climate change and its impacts

TARGET	GEORGIA ADJUSTED	BASE LINE INDICATOR
13.2 Integrate climate change measures into national policies, strategies and planning	13.2 Integrate climate change measures into national policies, strategies and planning	13.2.1. Integration of climate change measures into national policies, strategies and planning is not sufficient. At the moment Georgia follows business as usual scenario (BAU) in reduction of GHG emissions.

Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



TARGET	GEORGIA ADJUSTED	BASE LINE INDICATOR
implementation of sustainable management of all types of forests, halt deforestation,	15.2 By 2020, promote the implementation of sustainable management of all types of forests, reduce deforestation, restore degraded forests and increase afforestation and reforestation	15.2.1. Forests occupy about 40 per cent of the territory, a total of 2,822,500 ha. From this, about 100 000 ha (3,5 %) can be considered to be sustainably managed. 15.2.2. No full-scale state inventory has been conducted during last 15 years and current date is mostly inaccurate. Between 2003 and 2015 690.4 ha were reforested within the state forest fund. According to 2013 estimates, 34 000 ha require afforestation and reforestation.
reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of	15.5 Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2030, protect and prevent the extinction of threatened species	 15.5.1. In 2014, total area of Protected Areas comprised 8.62% of the country's territory. In recent years it has been doubled (600.59 ha) compared to the 2004 coverage (265.85 ha). 15.5.2. According to the available data, species that are in the "Red List" can be considered as the threatened species and in Georgia there are 185 different species with various conservation status, included in the Red List.

Reporting obligations

```
✓On National level (State-of-the-Environment Report);
√On International level:
   □ Aarhus Convention;
   □ Aarhus Convention: PRTR Protocol;
   □Convention on Air Pollution (CLRTAP);
   □Climate change (UNFCCC);
   □Ozone layer;
   □Transboundary movements of waste;
   □Water Convention / Transboundary water assessments;
   □ Protocol on Water and Health;
   □Pan-European Assessments;
   □Environmental statistics reporting to UNSD/UNEP
```



Strategic Documents

Environmental Education for Sustainable Development (2012-2014)

National Environmental Action Program (2012-2016)

National Forestry Concept and Program (2013)

National Biodiversity Strategy and Action Plan (2014-2020)

National Action Program to Combat Desertification (2015-2022)

Country Environmental Assessment (2015)

Intended Nationally Determined Contribution (2015)

National Waste Management Strategy and Action Plan

National Report on the State of the Environment of Georgia (2010-2013)

Environmental Performance Review of Georgia (2015)

Low Emission Development Strategy

In Process:

National Environmental Action Programme (2017-2021)

Planned:

National Report on the State of the Environment of Georgia (2010-2013)



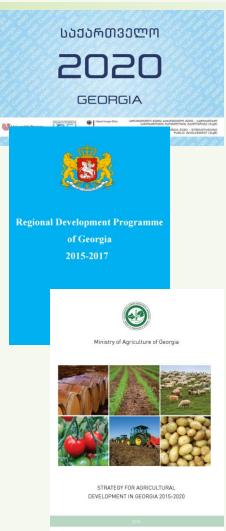
Integration of Environment into other policy areas

Socio-economic Development Strategy of Georgia "Georgia 2020" "Georgia 2020" aims to create foundations for long-term inclusive economic growth and sustainable development.

Regional Development Program and Action Plan 2015-2017

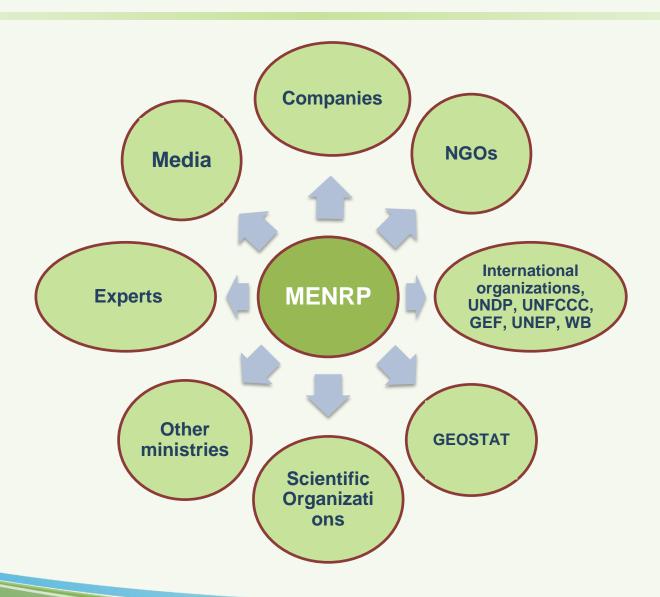
- Ambient Air protection;
- Developing water supply and drainage system;
- Waste management;
- Implementation of new mechanisms to reduce natural and anthropogenic hazards;

Strategy or Agricultural Development in Georgia 2015-2020 Strategic Direction 3.7: Climate Change, Environment and Biodiversity





Institutional cooperation: Schematic overview





Development of Effective Emission Inventory System

Introduction of electronic emissions reporting system from enterprises





Public Access to Environmental Information

ENVIRONMENTAL INFORMATION AND EDUCATION CENTRE





Data Dissemination at Geostat

Annual statistical publication

"Natural Resources of Georgia and Environmental Protection"

Published on November 29

http://www.geostat.ge/index.php?action=wnews_archive1&qy=1&qy1=15&lang=geo

Within "Statistical Yearbook of Georgia" section: "Natural Resources and Environmental Protection"

Published on December 27

http://www.geostat.ge/index.php?action=wnews_archive1&qy=1&qy1=16&lang=eng

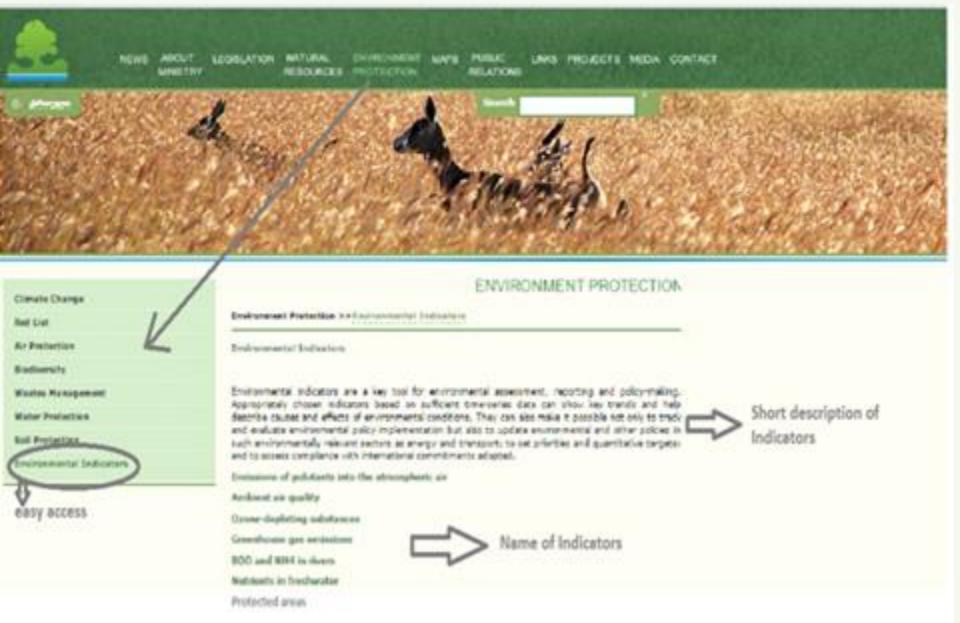
Within Environment section on Geostat's web-siteCharts and tables

http://www.geostat.ge/index.php?action=page&p_id=431&lang=eng

Within Regional Statistics section on Geostat's web-site
 Tables

http://www.geostat.ge/index.php?action=page&p_id=1225&lang=geo





Access on indicators online

Governance and Communication

- Letter of Intent
 National Consultation
 Ongoing
- National Implementation Team
- National Assistant

LETTER OF INTENT

between

The Ministry of Environment and Natural Resources Protection of Georgia

and

The National Statistics Office of Georgia, on the one part

and

The European Environment Agency, on the other part

Considering the role of the Ministry of Environment and Natural Resources Protection of Georgia, as the specialised central public administration that supports sustainable development of the country in the field of environment; organizes the environmental planning system; elaborates and implements national environmental action programs and management plans in the field of environmental protection and natural resources; follows the national legislation in the field of environmental protection and implements the international commitments within its competence.

Considering that the National Statistics Office of Georgia has for its mission to collect, process, summarize and publish statistical data, including environmental data; to cooperate with state and local self-government bodies in collection of statistical information and to cooperate with international organizations and national statistical offices.

Considering that the European Environment Agency is an agency of the European Union governed by Regulation (EC) No 401/2009 of the European Parliament and of the Council³ dedicated to providing objective, reliable and comparable information on the environment, with the aim to ensure that the decision-makers and the general public are kept informed on the state and outlook of the environment in Europe by working in partnership with government departments and agencies, in particular through the European Environment Information and Observation Network (Elonet), international conventions and UN bodies, the scientific community, private sector and civil society.

Recognising the objective of the European Neighbourhood Policy (ENP) to share the benefits of the EU with neighbouring countries, thus strengthening stability, security and well-being, and the European Commission's assistance to the countries of the European Neighbourhood Policy provided by a single instrument – the European Neighbourhood Instrument (ENI).

Re-confirming its commitment to the European integration in line with the EU-Georgia Association Agreement (AA), signed in June 2014 and it has entered into force since 1 July 2016³.

Recognising that working towards a Shared Environmental Information System (SEIS) is an EU initiative to modernise and simplify the collection, exchange and use of the data required for the

² http://ec.europa.eu/trade/policy/countries-and-regions/countries/georgia/





¹ OJ L 126 of 21.5.2009, p. 13.

National Pilots

- Develop water information portal for Georgia, using open source web-GIS technology and WISE compatible modern DB technology
- Development of indicator-based assessment products including Indicator Based SoE Report for Georgia for the period covering 2014-2017;
- Air Pollution and Health Impact
- CORINE mapping / Produce CLC map layers (digitization, processing, rectification, field check, etc.);
- Capacity building: providing necessary trainings, templates, formalization of a data flow, technical support for the involved national data centres.



Future needs

 Improvement of existing ambient air quality data collection and processing system in Georgia (including establishment of centralized data collection system, introduction of data validation and dissemination in user friendly manner (index)).



Synergies between the ENI-SEIS network and other regional projects

European Union Water Initiative Plus for the Eastern Partnership





To improve the data/information management, it is proposed to:

- Support organisational aspects for an efficient water data management (data management policy development, agreements for data exchanges, support to metadata production, on-line server management organisation, etc.)
- Support the creation of a first operational prototype of the future Water Information System with demonstration of automatized data exchanges
- Support information production for the pilot River Basin Management Plan development



Synergies between the ENI-SEIS network and other regional initiatives and projects

Joint Intersectoral Task Force on Environmental Indicators (UNECE)

EU/UNDP Project: Improving Environmental Monitoring in the Black Sea – Phase II (EMBLAS-II)







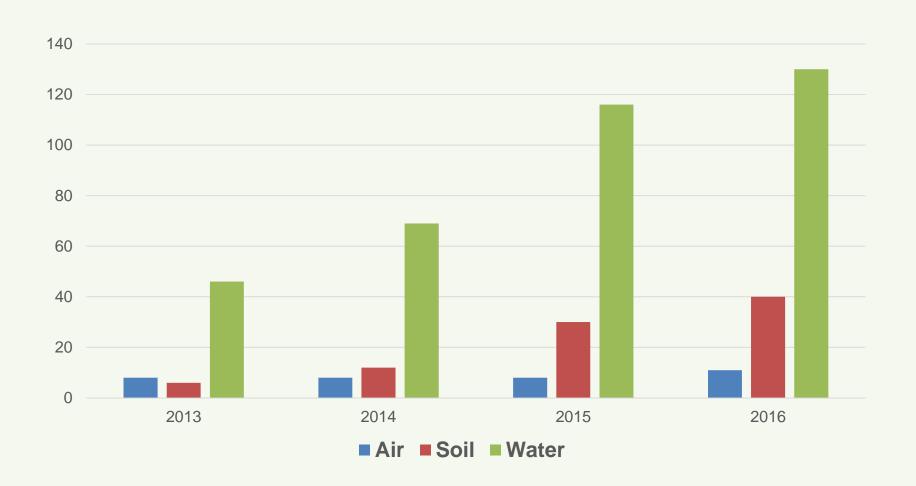
Harmonization of information management for improved knowledge and monitoring of the global environment in Georgia







Monitoring Points





Air Pollution Monitoring

Monitoring Automated stations:

- Tbilisi 4 points
- Batumi 1 point
- Chiatura 1 point

Non Automated stations:

- Rustavi 1 point
- Qutaisi 1 point
- Zestaphoni 1 point
- Batumi 1 point





Automated Stations









Passive sampling





Water Monitoring Points

158 Points

85 – in West Georgia

73 – in East Georgia





QA/QC



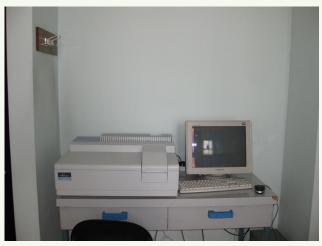


Sampling



Analytical Methods









Microbiological Laboratory









Reporting

www.nea.gov.ge



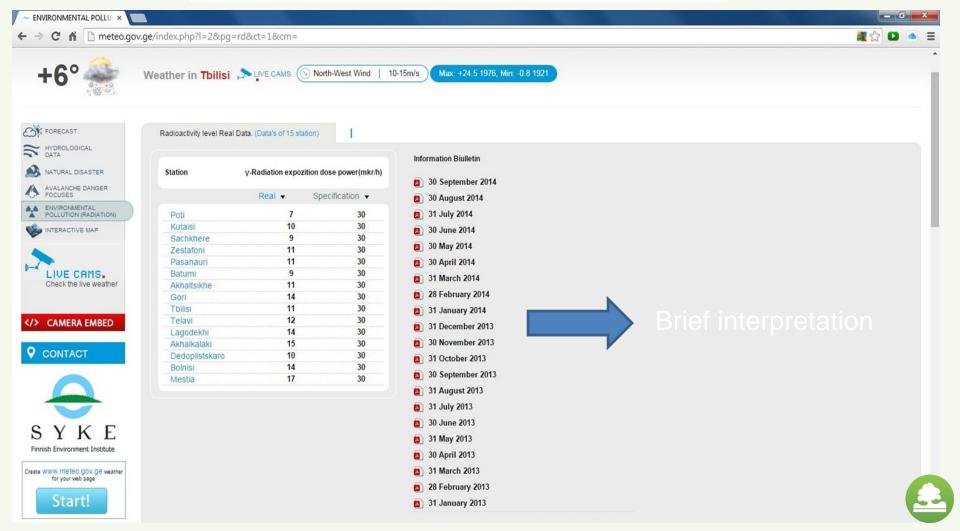
www.meteo.gov.ge





Monthly Informative Bulletin "State of Environment of Georgia"





Air Quality - daily data http://www.meteo.gov.ge/

დაკვირვები ს პუნქტები	NOx	NO ₂	NO	SO ₂	PM ₁₀	PM _{2.5}	O₃
				მგ/მ ^ა			
წერეთლის გამზირი 105	0.127	0.067	0.061	0.014	0.056	0.021	0.032
ყაზბეგის გამზირი, წითელ ბაღთან	0.032	0.025	0.007	0.009	0.032	0.013	0.066
გარკეთილი 3, I მკრ-წი, მე -2 კორპუსის მიმდებარე ტერიტორია	0.038	0.025	0.013	0.004	0.029	0.013	0.074
ზღვრულად დასაშვები საშუალო სადღეღამისო კონცენტრაცი ა (საქართველო ს ნორმატივი)	-	0.04	0.06	0.05	-	-	0.03
საშუალო სადღეღამისო კონცენტრაცი ა (ევროკავშირ ის ნორმატივი)	-	-	-	0.125	0.05	-	-

CHALLENGES



No centralized digital database

Outdated and weak environmental monitoring network

Environmental data reliability

Outdated data collection methods

Outdated databases

Absence of required software

No natural capital accounting system



Possible outcomes

Introduction of effective environmental information sharing system in the country

- Strengthening of coordination between governmental bodies at national level;
- √ Sharing of experience and good practice;
- √ Improvement of reporting system;
- Ensuring the access to environmental information;
- √ Support of introduction data collection software;



Possible outcomes (2)

Introduction of effective environmental information sharing system in the country

- Environmental data systematization and analysis using modern technologies;
- √ Support of introduction data collection software;
- Development of effective mechanism of verification of information, strengthening legal requirements related to reporting by enterprises;
- √ Capacity-building and training of staff.





Thank you











