



Environment

GEO Capacity Building Initiative in Central Asia
(SEOCA)

Strategic Roadmaps
"GEO Capacity building activities for the period
2010-2020"



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GEO Capacity Building Roadmap of Kazakhstan for 2012-2020

Taking into account the principles of open access and joint use of the GEOSS data for research and educational purposes in the area of global and regional ecosystem monitoring, the project SEOCA suggests the following strategy and action plan on the development of GEO facilities in Kazakhstan.

Based on an analysis of needs and potential of Kazakhstan in the field of environmental monitoring, the key areas of GEO capacity building have been identified in the frame of the SEOCA project:

- Improvements and strengthening of coordination and cooperation in the field of GEO activities (use of EO and in-situ data for environment monitoring);
- Improvements of legislation and mechanisms of laws implementation in the area of EO (dissemination of data, formats of transmission and storing GIS data, etc.);
- Creation of an educational fundamental for EO specialists training, curricula development based on best national and international experiences, development of lifelong learning system (e.g. training courses, training centres and programs);
- Raising of awareness of GEO activities and opportunities for using GEOSS products;
- Improvement of the monitoring system and overcoming the information barriers by using GEOSS products and services;
- Development of international cooperation (including on the regional level) and regional links aiming at fostering the information exchange.

The Strategy and the Roadmap of GEO capacity building in Kazakhstan is based on the general goals of GEO and 10-year GEOSS Implementation Plan, including the following:

- Activities and events should be focused on the GEO capacity building in the region;
- Actions and activities aimed at the Strategy implementation should be developed and implemented taking into account global and national environmental priorities;
- Activities in the field of GEO capacity building should be, whenever possible, integrated into national processes of environmental monitoring activities planning.

This approach will ensure the viability of the Strategy of GEO capacity building and realistic outcomes of its implementation at all levels and stages of development.

Strategic goals of the GEO capacity building

The Strategy of GEO capacity building includes the following four strategic goals:

1. Ensuring coordination and cooperation between all parties interested in the GEO plans implementation, through
 - Improvement of the mechanisms of cooperation between organizations involved in monitoring of ecosystems on the national and regional levels; parties interested in receiving EO information and organizations training specialists in the field of rational use of natural resources and EO by carrying out joint activities such as seminars, conferences, roundtables, etc.;
 - Strengthening of the links with the GEO Secretariat;
 - Support of national GEO Office functioning. (National GEO Office is a structure operating as consulting and coordinating institution, facilitating capacity building and dissemination of knowledge in the field of EO. Office is also responsible for information dissemination concerning national GEO-activities (e.g. maintaining website). Office acts as a supporting body to the GEO Working Group in the country.)
2. Development of regulatory framework
 - Develop the legal documents at the national and regional levels regulating the use of EO products and data, based on international principles, such as UN Remote Sensing Principles, UNGA, 1986, the International Charter on Cooperation to ensure the coordinated use of space resources in case of man-made or natural disasters (Charter on Space and Disaster Cooperation), principles of the Committee on Earth Observation Satellites (CEOS) and joint use of GEOSS data.
3. Improvement of knowledge and skills in using GEOSS technologies/attaining the GEO goals
 - To develop the training programs in the field of EO and GIS technologies for the following target groups:
 - o University and college and high school students;
 - o Teaching personal;
 - o Specialists dealing with rational use of natural resources, environment monitoring and information control;
 - To improve curricula and teaching plans in ecology and GIS
 - o To set up specialized classes equipped with access to environment web-resources and environmental situation visualization tools;
 - o To modify the existing standards and educational programs in the spectrum of environmental disciplines in line with the GEO Work Plan.
 - Promotion and dissemination
 - o Development and maintenance of web-resources
 - o Publications in media
 - o Participation in international conferences and seminars
 - o Organization of seminars
 - Provide the demonstration of GEO technologies
 - o To develop and implement the set of pilot projects using the best practice of GEO in order to solve such critically important environmental problems as droughts and soil erosion, deforestation and reduction of agro/biodiversity, etc. and promote environmentally friendly agriculture, energy saving and reduction of CO emission, renewable energy, etc.
 - To facilitate best practice exchange among users of GEOSS resources and professionals, working in the field of EO.
4. Development of the Earth monitoring system.

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- To facilitate the implementation and use of new technologies, and GEO information technology developed under the principles of joint use of GEOSS data (CODATA, Paris, 2008).
 - To promote harmonization of national regulatory system for monitoring in line with the international system of environmental standards and monitoring indicators, based on GEOSS principles
 - o Provide the information and distribute knowledge about the international environment legislation and standards among interested parties and decision makers;
 - o Analyze the compatibility of the existing national environmental legislation and international environmental standards in order to detect gaps and deviations;
 - o Define the mechanisms of harmonization and application (where possible) of international standards.
 - o Improve the system of environment monitoring indicators in order to reflect the guiding principles, norms and procedures of GEOSS.
 - To ensure the reliability of the monitoring information and data.
 - Reinforce the capabilities and capacities of State system of environment monitoring, databases and data banks by taking up modern GIS/EO technologies, forecasting methods and modeling on the basis of GEOSS capacities.
 - o Regularly implement training measures and educational programs for professionals in the area of modern GIS/EO technologies application, technical means and instrumentation for monitoring and assessment of environment;
 - o Create the integrated system of gathering, processing and distribution of EO data.

Stages of implementation/ urgency indices are reflected in the Action Matrix below.

Urgency indices of actions on capacity-building

SO – short-term outlook (2011-2013)

MO – middle-term outlook (2013-2015)

LO – long-term outlook (after 2015)

C – constantly

	<i>Matrix of actions on capacity-building</i>	
<i>Goal</i>	<i>Actions</i>	Urgency index
<p><i>Strategic Goal 1</i></p> <p><i>Ensuring coordination and cooperation between all parties interested in the GEO plans implementation</i></p>	<ul style="list-style-type: none"> - <i>Improvement of the mechanisms of cooperation between organizations involved in monitoring of ecosystems on the national and regional levels; parties interested in receiving EO information and organizations training specialists in the field of rational use of natural resources and EO by carrying out joint activities such as seminars, conferences, roundtables, etc.;</i> - <i>Strengthening of the links with the GEO Secretariat;</i> - <i>Support of national GEO Office functioning. (National GEO Office is a structure operating as consulting and coordinating institution, facilitating capacity building and dissemination of knowledge in the field of EO. Office is also responsible for information dissemination concerning national GEO-activities (e.g. maintaining website). Office acts as a supporting body to the GEO Working Group in the country.)</i> 	<p>C</p> <p>C</p> <p>C</p>
<p><i>Strategic Goal 2</i></p> <p><i>Development of regulatory framework</i></p>	<ul style="list-style-type: none"> - <i>Develop the legal documents at the national and regional levels regulating the use of EO products and data, based on international principles, such as UN Remote Sensing Principles, UNGA, 1986, the International Charter on Cooperation to ensure the coordinated use of space resources in case of man-made or natural disasters (Charter on Space and Disaster Cooperation), principles of the Committee on Earth Observation Satellites (CEOS) and joint use of GEOSS data.</i> 	<p>MO</p>

<p><i>Strategic Goal 3</i> <i>Improvement of knowledge and skills in using GEOSS technologies/attaining the GEO goals</i></p>	<ul style="list-style-type: none"> - <i>To develop the training programs in the field of EO and GIS technologies for the following target groups:</i> <ul style="list-style-type: none"> o <i>University and college and high school students;</i> o <i>Teaching personal;</i> o <i>Specialists dealing with rational use of natural resources, environment monitoring and information control;</i> - <i>To improve curricula and teaching plans in ecology and GIS</i> <ul style="list-style-type: none"> o <i>To set up specialized classes equipped with access to environment web-resources and environmental situation visualization tools;</i> o <i>To modify the existing standards and educational programs in the spectrum of environmental disciplines in line with the GEO Work Plan.</i> - <i>Promotion and dissemination</i> <ul style="list-style-type: none"> o <i>Development and maintenance of web-resources</i> o <i>Publications in media</i> o <i>Participation in international conferences and seminars</i> o <i>Organization of seminars</i> o <i>Provide the demonstration of GEO technologies</i> - <i>To develop and implement the set of pilot projects using the best practice of GEO in order to solve such critically important environmental problems as droughts and soil erosion, deforestation and reduction of agro/biodiversity, etc. and promote environmentally friendly agriculture, energy saving and reduction of CO emission, renewable energy, etc.</i> - <i>To facilitate best practice exchange among users of GEOSS resources and professionals, working in the field of EO.</i> 	<p>MO</p> <p>C</p> <p>MO</p> <p>C</p> <p>C</p>
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<p><i>Strategic Goal 4 Development of the Earth monitoring system.</i></p>	<ul style="list-style-type: none"> - <i>To facilitate the implementation and use of new technologies, and GEO information technology developed under the principles of joint use of GEOSS data (CODATA, Paris, 2008).</i> - <i>To promote harmonization of national regulatory system for monitoring in line with the international system of environmental standards and monitoring indicators, based on GEOSS principles</i> <ul style="list-style-type: none"> o <i>Provide the information and distribute knowledge about the international environment legislation and standards among interested parties and decision makers;</i> o <i>Analyze the compatibility of the existing national environmental legislation and international environmental standards in order to detect gaps and deviations;</i> o <i>Define the mechanisms of harmonization and application (where possible) of international standards.</i> - <i>Improve the system of environment monitoring indicators in order to reflect the guiding principles, norms and procedures of GEOSS.</i> - <i>To ensure the reliability of the monitoring information and data.</i> - <i>Reinforce the capabilities and capacities of State system of environment monitoring, databases and data banks by taking up modern GIS/EO technologies, forecasting methods and modelling on the basis of GEOSS capacities.</i> <ul style="list-style-type: none"> o <i>Regularly implement training measures and educational programs for professionals in the area of modern GIS/EO technologies application, technical means and instrumentation for monitoring and assessment of environment;</i> o <i>Create the integrated system of gathering, processing and distribution of EO data.</i> o <i>Regularly implement training measures and educational programs for professionals in the area of modern GIS/EO technologies application, technical means and instrumentation for monitoring and assessment of environment;</i> o <i>Create the integrated system of gathering, processing and distribution of EO data.</i> 	<p>C</p> <p>C</p> <p>SO</p> <p>SO</p> <p>MO</p> <p>C</p> <p>C</p> <p>LO</p>
<p>Goal</p>	<p>Actions</p>	<p>Urgency index</p>

<p><i>Strategic Goal 1</i> Ensuring coordination and cooperation between all parties interested in the GEO plans implementation</p>	<ul style="list-style-type: none"> - Improvement of the mechanisms of cooperation between organizations involved in monitoring of ecosystems on the national and regional levels; parties interested in receiving EO information and organizations training specialists in the field of rational use of natural resources and EO by carrying out joint activities such as seminars, conferences, roundtables, etc.; - Strengthening of the links with the GEO Secretariat; - Support of national GEO Office functioning. (National GEO Office is a structure operating as consulting and coordinating institution, facilitating capacity building and dissemination of knowledge in the field of EO. Office is also responsible for information dissemination concerning national GEO-activities (e.g. maintaining website). Office acts as a supporting body to the GEO Working Group in the country.). 	<p>C</p> <p>C</p> <p>C</p>
<p><i>Strategic Goal 2</i> Development of regulatory framework</p>	<ul style="list-style-type: none"> - Develop the legal documents at the national and regional levels regulating the use of EO products and data, based on international principles, such as UN Remote Sensing Principles, UNGA, 1986, the International Charter on Cooperation to ensure the coordinated use of space resources in case of man-made or natural disasters (Charter on Space and Disaster Cooperation), principles of the Committee on Earth Observation Satellites (CEOS) and joint use of GEOSS data. 	<p>MO</p>

<p><i>Strategic Goal 3</i></p> <p>Improvement of knowledge and skills in using GEOSS technologies/attaining the GEO goals</p>	<ul style="list-style-type: none"> - To develop the training programs in the field of EO and GIS technologies for the following target groups: <ul style="list-style-type: none"> o University and college and high school students; o Teaching personal; o Specialists dealing with rational use of natural resources, environment monitoring and information control; - To improve curricula and teaching plans in ecology and GIS <ul style="list-style-type: none"> o To set up specialized classes equipped with access to environment web-resources and environmental situation visualization tools; o To modify the existing standards and educational programs in the spectrum of environmental disciplines in line with the GEO Work Plan. - Promotion and dissemination <ul style="list-style-type: none"> o Development and maintenance of web-resources o Publications in media o Participation in international conferences and seminars o Organization of seminars o Provide the demonstration of GEO technologies - To develop and implement the set of pilot projects using the best practice of GEO in order to solve such critically important environmental problems as droughts and soil erosion, deforestation and reduction of agro/biodiversity, etc. and promote environmentally friendly agriculture, energy saving and reduction of CO emission, renewable energy, etc. - To facilitate best practice exchange among users of GEOSS resources and professionals, working in the field of EO. 	<p>MO</p> <p>C</p> <p>MO</p> <p>C</p> <p>C</p>
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<p><i>Strategic Goal 4</i></p> <p><i>Development of the Earth monitoring system.</i></p>	<ul style="list-style-type: none"> - To facilitate the implementation and use of new technologies, and GEO information technology developed under the principles of joint use of GEOSS data (CODATA, Paris, 2008). - To promote harmonization of national regulatory system for monitoring in line with the international system of environmental standards and monitoring indicators, based on GEOSS principles <ul style="list-style-type: none"> o Provide the information and distribute knowledge about the international environment legislation and standards among interested parties and decision makers; o Analyze the compatibility of the existing national environmental legislation and international environmental standards in order to detect gaps and deviations; o Define the mechanisms of harmonization and application (where possible) of international standards. - Improve the system of environment monitoring indicators in order to reflect the guiding principles, norms and procedures of GEOSS. - To ensure the reliability of the monitoring information and data. - Reinforce the capabilities and capacities of State system of environment monitoring, databases and data banks by taking up modern GIS/EO technologies, forecasting methods and modelling on the basis of GEOSS capacities. <ul style="list-style-type: none"> o Regularly implement training measures and educational programs for professionals in the area of modern GIS/EO technologies application, technical means and instrumentation for monitoring and assessment of environment; o Create the integrated system of gathering, processing and distribution of EO data. o Regularly implement training measures and educational programs for professionals in the area of modern GIS/EO technologies application, technical means and instrumentation for monitoring and assessment of environment; o Create the integrated system of gathering, processing and distribution of EO data. 	<p>C</p> <p>C</p> <p>SO</p> <p>SO</p> <p>MO</p> <p>C</p> <p>C</p> <p>LO</p>
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GEO capacity building Roadmap of Kyrgyzstan for 2011 - 2020

Phase I (2011 - 2012.)

1. Organizing national office:
 - Installation the receiving platform;
 - Registration in the portal of the GEONETCast as user (for participants of the project SEOCA);
 - Picking out the software for processing data from the GEONATCast;
 - Creating the database for GEO;
 - Working out the regulation form for the national office;
 - Participation on making of the database in the portal of the project SEOCA;
2. Enhancement the national office to the level of coordinating - advisory body:
 - Holding the instructive and training seminars in support of EO capacity building;
 - Publication in mass media,
 - Generation the webportal of the national office;
 - Participating in international conference and seminars on GEO.

Phase II (2012-2015)

1. Creating GEO office network in Kyrgyz Republic for the coordinating activity on the domain EO and environment monitoring;
 - Carrying out the poll of potential consumers on the field of GEO on using EO data;
 - Holding the training on build-up the GEO office;
 - Participating on preparation the normative documents on regulation the activity on domain GEO;
 - Study the international regulation documents (plans GEOSS, GEO);

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- Integration in international Law on GEO;
 - Preparation proposal in the national normative legal documents.
2. Development the training programs on preparation the personnel on academical education, requalification and improvement of the qualification on GEO technology.
 - Trainings for the staff, trainers and students on using GEO and GIS technology;
 - Enhancement training programs and subjects on ecology and GIS by using GEO data;
 3. Assisting in organization the GEO Regional Center in Central Asia with aim the exchange of information and elaboration the regional cooperation;
 4. Progressing the hardware, receiving and processing system GEO data (presentation on activity and the development the GEONETCast network)

Phase III (2015-2020)

Mobilization of the resources of the national organizations: searching the financial sources for the solving the problem of the information providing, searching providers and holding the training-seminars among GEO information users;

GEO capacity building Roadmap of Tajikistan for 2012 - 2020

Plan: 2011-2012

Organizing national GEO Office

Installation the receiving platform

Registration on the portal as a user (project member SEOCA)

Picking out the software for processing data from the GEONATCast

Create a database with access to all received data's

Create regulation form for the national office

Participate in creation of database on the project portal SEOCA

Development of the national office

Conducting seminars and trainings in this area

Publications in mass media and on web pages to raise information

Involving users

Create a portal with access to the national office to other interested organizations

Participation in international conferences and seminars

Creating a network of GEO offices for coordination (the use of remote sensing data and ground observations in the field of environmental monitoring).

Carrying out the poll of potential consumers on the field of GEO on using EO data

Conducting training on the creation of GEO office

Create a public information resource, which will be entrusted with the receive processing, storage and output of data

Capacity Building

Search for donors

Building relationships

Development of curricula for training in higher education, retraining and advanced training in the field of GEO Technologies.

Currently, the development of educational programs and trainings is the weakest link in the field of GEO Technologies, as local universities have virtually no trained personnel and poorly equipped technically. To solve this challenge:

Create in State University specialization in this area, providing well prepared staff and equipping the necessary equipment and literature.

To conduct different information activities, seminars and trainings for teachers and students of different universities in the field of remote sensing

To improve the training programs for GIS / RS technologies

To organize courses for exchange of experience in this field with more developed countries

Plan 2012 - 2020

Development of technical mean, receive and processing of remote sensing data's (demonstration of network and development of GEONetcast, establishment of national and regional products ERS).

State of Hydrometeorology has human capacity and technical base for receiving and processing of remote sensing, and also to create their own products of remote sensing. Every year during the growing season at the State of Hydrometeorology using remote sensing is monitored changes in glacier area, the pool of the Vakhsh River and creates a temporary map of area of glaciers in the basin.

After organizing the GEO office and connection to the terminal GEONATCAST facilitate the introduction and use of new technology and information technology development based on the principles of GEOSS.

Develop qualification in software.

Provide reliability monitoring data and information

To cooperate with the more developed countries in this area.

Raising level of technical knowledge

Mobilization of resources of national organizations: the search for sources of financing (donors) to solve information management, search of suppliers, training, seminars for the GEO user information, etc.

Establishment of a national authority with a mandate to carry out its functions of coordination (implementation, use and development in different structures) GEO Information Technology

Conduct and participate in various activities

Market research information providers

To promote the introduction of new technologies

Building relationships.

Communication with other members of GEO information technology should be implemented through coordinating authority.

Coordination of activities in the field of remote sensing and infrastructure to support these activities

Create normative base aimed at creating structures and mechanisms for coordinating the overall activities

Providing users with products and services of remote sensing

Search for partners to develop

Development of international cooperation

Participation in the preparation of normative documents on the regulation of activities in the field of remote sensing (data dissemination, receiving and storage formats of GIS, etc.).

Create normative documents on management of activities in the field of remote sensing to be made up under the current law in the country.

GEO Capacity Building Roadmap of Uzbekistan for 2011-2020

Strategy and Roadmap of GEO Capacity Building is focused on the realization of joint use of GEOSS data, which facilitates better access to EO data and its re-use, thus benefiting research and education communities, as well as users in the developing countries. Joint use of GEOSS data is more than just a technical goal in its own right – this opens up new opportunities for attaining the Millennium Goals in the field of health care, environment protection, fighting poverty, etc. In particular, this relates to the research in climate change – the problem drawing attention of almost all governments. Enhancing the joint use of and access to EO data will allow for timely and grounded decisions making concerning national, regional and global problems, which represent threats to the environment, human health and security.

The current document is a result of the SEOCA project's implementation in Uzbekistan. It was prepared on the basis of assessment of the current situation and the country's needs in the field of EO capacity building taking into account political, economic and legal frameworks, thus allowing identification of key direction of capacity building, including the following:

- Optimization and strengthening coordination and cooperation in the field of GEO activities (e.g. use of EO and in-situ data for environment monitoring);
- Improvements of legislation and mechanisms of laws implementation in the area of EO (e.g. distribution of data, formats of transmission and storing GIS data, etc.);
- Creation of an educational fundamental for EO specialists training, curricula development based on best national and international experiences, development of lifelong learning system (e.g. training courses, training centers and programs);
- Awareness raising of GEO activities and opportunities for using GEOSS products;
- Improvement of the monitoring system and overcoming the information barriers by using GEOSS products and services;
- Development of international cooperation (including on the regional level) and regional links aiming at fostering the information exchange.

The Strategy and the Roadmap of GEO capacity building in Uzbekistan is based on the general goals of GEO and 10-year GEOSS Implementation Plan, including the following:

1. All activities and events shall be targeted at the GEO capacity building in the region of Central Asia;
2. Measures and activities aimed at the Strategy implementation must be developed and implemented taking into account global and national environmental priorities;
3. Activities in the field of GEO capacity building shall be, where possible, integrated into national processes of environmental monitoring activities planning.

This approach will allow guaranteeing the viability of the Strategy of GEO capacity building and realistic outcomes of its implementation on all stages.

The Strategy of strengthening/reinforcing the potential

The Strategy/Roadmap includes the following four strategic goals:

- Provision of coordination and cooperation between all parties interested in the GEO plans implementation;
- Development of the legislative frameworks;

- Awareness raising and knowledge distribution;
- Development of the Earth monitoring system.

Strategic Goal 1 - Provision of coordination and cooperation between all parties interested in the GEO plans implementation (permanently)

- Improve the mechanisms of cooperation between
 - Organizations involved in monitoring of ecosystems on the national and regional levels;
 - Parties interested in receiving EO information;
 - Organizations training specialists in the field of rational use of natural resources and EO by carrying out joint activities such as seminars, conferences, roundtables, etc.
- Improvement of links with GEO Secretariat
- Support to national GEO Office functioning.
 - National GEO Office – this is a structure operating as consulting and coordinating organ, facilitating capacity building and dissemination of knowledge in the field of EO. Office is also responsible for information provision concerning national GEO-activities (e.g. maintaining website). Office acts as a supporting body to the GEO Working Group in the country.

Strategic Goal 2 - Development of the legislative frameworks (2013-2015)

- Prepare and adopt on the national and regional levels the system of legislative documents regulating the use of EO products/data on the basis of internationally accepted principles, such as UN Remote Sensing Principles, UNGA, 1986, International Charter on Space and Disaster Cooperation, principles of CEOS and joint use of GEOSS data.

Strategic Goal 3 - Improvement of environment monitoring, the system of assessment and data control

- Facilitate the uptake and use of new technologies of GEO and information technologies being developed in accordance with the Principle of joint use of GEOSS data (CODATA, Paris, 2008). **Permanently**
- Align the national legislative system of monitoring with the International system of environmental standards and monitoring indicators, based on GEOSS principles
 - Provide the information and distribute knowledge about the international environment legislation and standards among interested parties and decision makers; **Permanently**
 - Analyze the compatibility of the existing national environmental legislation and international environmental standards in order to detect gaps and deviations; **(2011-2013)**
 - Define the mechanisms of harmonization and application (where possible) of international standards. **(2011-2013)**
 - Improve the system of environment monitoring indicators in order to reflect the guiding principles, norms and procedures of GEOSS. **(2013-2015)**
- Provide the reliability of monitoring data. **Permanently**
- Reinforce the capabilities and capacities of State system of environment monitoring, databases and data banks by taking up modern GIS/EO technologies, forecasting methods and modeling on the basis of GEOSS capacities. **Permanently, (2016-2020)**

- Regularly implement training measures and educational programs for professionals in the area of modern GIS/EO technologies application, technical means and instrumentation for monitoring and assessment of environment;
- Create the integrated system of gathering, processing and distribution of EO data.

Strategic Goal 4 - Improvement of knowledge and skills in using GEOSS technologies/attaining the GEO goals

- Develop the training programs in the field of EO and GIS technologies for the following target groups: **(2013-2015)**
 - University and college students, high school students;
 - Teachers of various educational establishments;
 - Specialists dealing with rational use of natural resources, environment monitoring and information control;
- Improve curricula and teaching plans in ecology and GIS **Permanently**
 - Setting up specialized classes equipped with access to environment web-resources and environmental situation visualization tools;
 - Modify the existing standards and educational programs in the spectrum of environmental disciplines in line with the GEO Work Plan.
- Promotion and dissemination **Permanently (2013-2015)**
 - Development and maintenance of web-resources
 - Publications in media
 - Participation in international conferences and seminars
 - Organization of seminars
- Provide the demonstration of GEO technologies **Permanently**
 - Develop and implement the set of pilot projects using the best practice of GEO in order to solve such critically important environmental problems as droughts and soil erosion, deforestation and reduction of agro/biodiversity, etc. and promote environmentally friendly agriculture, energy saving and reduction of CO emission, renewable energy, etc.
- Facilitate best practice exchange among users of GEOSS resources and professionals, working in the field of EO. **Permanently**