



Membership of Bulgaria in GEO Status and Perspectives

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PRESENTATION OUTLINES

- Group on Earth observation (GEO)
- Global Earth Observation System of Systems (GEOSS)
- Membership of Bulgaria in GEO
- Challenges, benefits and opportunities for development





GEOSS - to meet the need for "timely, quality, long-tern global information as the basis for sound decision-making

The vision for GEOSS: https://www.earthobservallens.org/

"to realize a future wherein decisions and actions for the benefit of humankind are informed by coordinated, comprehensive and sustained Earth observations and information."





Concept of GEOSS:

- 1. INFRASTRUCTURE space-based, airborne and particularly in situ systems; architecture; data management; geoportals; software; tools
- 2. HUMAN RESOURCES experience; qualification; formal and informal developed talents
- 3. INSTITUTIONAL SYSTEMS-network management, political commitments to support data sharing
- **4. RESULTS -** information to support decision making

http://www.geoportal.org/



Relationship between Users, Earth System, Science, Technologies and GEOSS (Fid. 10.1, GEO 10-Year Plan Reference Bocument, 2005)





Specific for Europe challenges

- Determination of coordination mechanisms related to GEO activities at European and national level
- The role of EU 'Horizon 2020' in support of GEOSS and development of the European Research Area in EO
- Links to GEO initiatives and Copernicus possible synergies between GEOSS and Copernicus
- Development of lower and cost in-situ technological solutions build in on latest developments that can be adapted to operational environments
- Mobilization of the European private sector to take advantage of future GEOSS-related business opportunities in an increasingly global digital economy - new opportunities and market development for Earth observation commercial sector in Europe





Acceptance of Bulgaria as a member

- GCCA and MIP preparation of official documents and coordination procedure.
- Protocol decision №23/11.06.2014, the CM of Bulgaria to become a member of GLID and ESA
- August 25, 2014 Formal letter from the Secretariat of GEO to the Bulgarian Government



REPUBLIC OF BULGARIA MINISTRY OF INVESTMENT PLANNING

Pei. N. V-01-1368/1504 LORY

ATTN: DR. BARBARA RYAN SECRETARIAT DIRECTOR GEO SECRETARIAT 7, BIS AVENUE DE LA PAIX CASE POSTALE 2300 CH-1211 GENEVA 2 SWITZERLAND

RE: Council of Ministers of Republic of Bulgaria decision regarding the membership of Republic of Bulgaria in the Group on Earth Observations (GEO).

Dear Dr. Ryan,

It is my honor to inform you about the Decision of the Council of Ministers of Republic of Bulgaria d/d June 11th, 2014 Bulgaria to become a member of the Group on Earth Observations (GEO).

The Government of Republic of Bulgaria adopts the Resolution of the Third Earth Observation Summit, with which the GEO was established and herein confirms its intentions to undertake all the necessary steps for the implementation of the Global Earth Observation System GSystems (GEOSS).

With this decision, in accordance with the above mentioned resolution,

The Government of Republic of Bulgaria supports the 10-Year Implementation Plan as a basis for establishment of the Global Earth Observation System of Systems (GEOSS) that satisfies the user requirements among various socio-economic areas and highly appreciates extensive information and data compiled in the GEOSS 10-Year Implementation Plan Reference Guide.

The Government of Republic of Bulgaria confirms its intention to provide the necessary support for the execution of the GEOSS 10-Year Implementation Plan.

Due to the ongoing discussion the form with the designated Principal Representatives and Alternative Representatives will be sent later.

It would be highly appreciated if you could provide in advance a sample of the above mentioned

Sincerely Yours:
Prof. Dipl. Arch. Ivan Danov, PhD
Minister of Investment Planning

Our Ren 2014-129/GEO/MEM

H.E. M. Ivan Danov Minister of Invasiment Planning Ministry of Invasiment Planning 1000, Saffar 150, Saffar 150,

GEO Secretaria: 7 ber dunner og in Pari + Case propier 1910 + Christin General + Secretaria: Tel. + 41 fil 22 750 85 65 + 760 + 17 60 22 750 85 65 + 600 periodenskiper og in eller og interesenskiper og

Bulgaria became the 92th Member State of GEO in 2014 at the Al Plenary Sess

GEO-CRADLE Regional Workshop, 24.03.2017, Sofia, BULGARIA





- The Republic of Senegal 20 May 2014;
- The Republic of Bulgaria 15 July 2014;
- The Republic of Seychelles -21 July 2014;
- The Republic of Armenia 26 August 2014; and
- The Republic of Poland 5 November 2014.

Total Members: 94 countries + the European Commission.

Statement on behalf of the country http://www.earthobservations.org/ documents/geo_xi/geoxi_bulgaria_s tatement.pdf





After the XI-th Plenary Session of GEO in Geneva - new programming 2016-2025, and the strategic plan for GEOSS



GEO at 2017

104 member states/incl. EC/

106 participated organisations

10 organisations and 2 states as observers

Number of Members (2017)

Africa: 27

Americas: 16

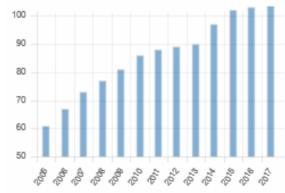
Asia/Oceania: 20

C.I.S.: 7

Europe: 34

Total: 104

Number of Members by year





Contributions to the GEO Work Plan



Membership of Bulgaria in GEO

after the XI-th Plenary Session, November 2014

- Preparing lists of BG interested GEO/GEOSS/EO stakeholders and WGs by topics
- Planning a meeting of all interested stakeholders for establishing a National GEO Committee and host organisation
- Arranging personal meetings and seeking assistance from various state organizations
- Writing a letter to the prime minister about national GEO engagements and activities
- Discussing the issue with two parliamentary committees of the 43-th National Assembly
 - Writing a letter to the Minister of economy about national GEO engagements and activities



РЕПУБЛИКА БЪЛГАРИЯ

Министър на икономиката



до:

-ЖА РУМЯНА БЪЧВАРОВА

заместник министър-председател і Министър на Вътрешните работи

Г-ЖА ЛИЛЯНА ПАВЛОВА

Министър на регионалното развитие и благоустройство

Г-ЖА ИВЕЛИНА ВАСИЛЕВА

Министър на околната среда и водите

Към № 92-00-740/14.07.2016 г.

OTHOCHO: Членство на Република България в работна група за наблюдение н Земята- Group on Earth Observation (GEO). - Организация га. азие чрез "координирани, цялостни и информация". Организацията предоставя на и свободен достъп до масиви от данни,

у ползите от членството на България в тази сътрудничество с различни национални и мават с наблюдения на Земята; разработване и; на бизнес модели, които дават възможност ца развиват и поддържат инфраструктура за вне на данни и информация от различни не на устойчиви и информирани решения Членството в GEO не изисква членски внос и

вноски или други такси за членуването си в

В представената информация от инж. Валентин Йовев и доц. д-р инж. Любка Пашова се повдига въпроса за липсата на водеща институция, която да бъде двигател на инициативата и чрез която да се реализира прякото и пълноценно участие в организационният живот на GEO.

Във връзка с гореизложеното, Ви уведомявам, че предвид функциите на Министерство на икономиката да координира дейностите в областта на космическата политика, се ангажираме да подпомогнем институционално участието на България в GEO.

В допълнение, Ви информираме, че предвид областта на действие на инициативата, засягаща широкоспектърни въпроси, при необходимост ще се

ооръщаме към рас за експертни становища, позиции и мнении.







Challenges for Bulgaria

- Adoption of BG strategy for scientific research and roadmap for infrastructure that include GEO, GEOSS and EO activities
- Elaboration of national regulations governing the provision and to all interested parties
- Increasing awareness and interest of stakeholders in GEO activities promotion and capacity building /http://www.geocab.org/
- Changing the funding mechanism by NSF/ NIF and encouraging a public private partnership
- Strengthening of the mechanism of public control over state institutions which coordinate European funding programs related GEO activities
- Inclusion in curriculums of BG universities of GEO, GEOSS and EO topics
- Web portals (in the local language) for active promotion, e.g. by using all the media

http://www.geoportal.org/

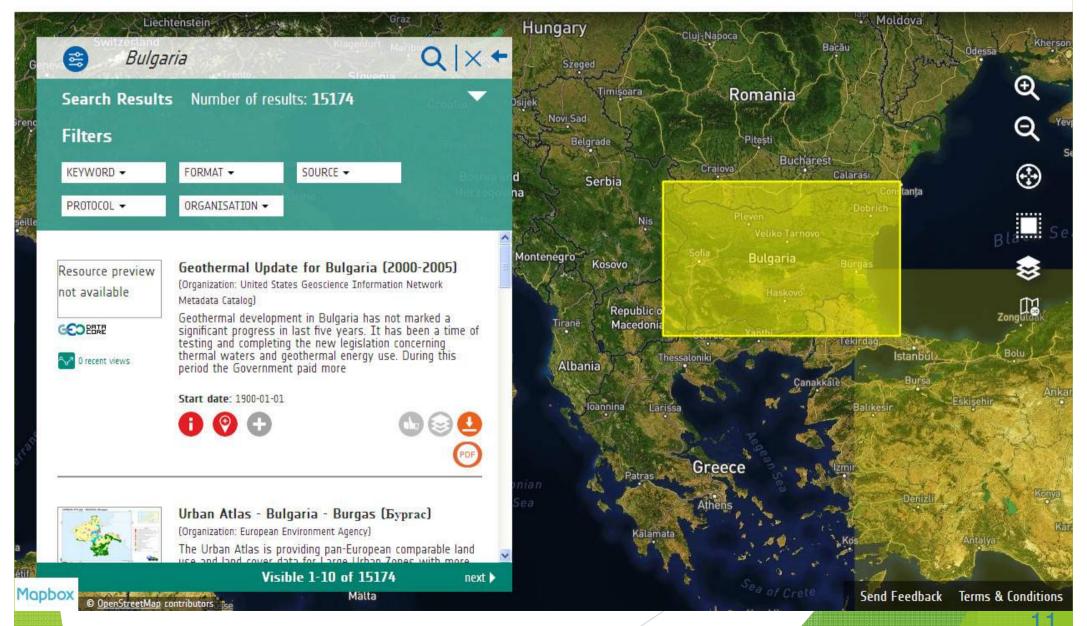
















Benefits and opportunities to Bulga

- Strengthening networking and partnerships
- Starting and include regional or global initiatives (eg. GEOBON, GEOGLAM etc.).
- INSPIRE Directive the EU https://gis.armf.bg
- Providing access to large datasets
- Expanding user base
- Developing and maintaining human capacity
- Increase visibility and high-level support
- Releasing funding for activities
- Scheme through financial contributions for the establishing of GEOSS
- Program "Horizon 2020" of the EC and ESA





PERSPECTIVES

- GEO and GEOSS support policies for economic growth and sustainable development of society in a changing environment
- Potential for creating innovative products and services
- Expanding policies / practices of free access to data and information
- Expanding the commitments of decision makers, incl. and the private sector
- Strengthening the links between policy / State obligations as a member of the EU
- National, regional and international cooperation





NOAA Administrator Dr. Kathryn Sullivan discusses the importance of sharing earth observation data, and GEO's special role - November 13, 2014 XI-th Plenary Session of GEO in Geneva, Switzerland

https://www.youtube.com/watch?v=idE9Xma-C6Y

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Thank you for your attention!

For additional information:

- https://www.earthobservations.org
- Л. Пашова, В. Йовев: България като член на GEO. Възможности, ползи и перспективи от участието ни в Групата за наблюдения на Земята, Списание 8, м. октомври 2015 г., http://www.spisanie8.bg/
- Интервю в сп. Геомедия с д-р Барбара Райън, Директор на GEO: ВСЕКИ ИМА ПРАВО НА ДОСТЪП ДО ИНФОРМАЦИЯ, м. ноември 2015 г., http://www.geomedia.bg/