**EOBSS - EO education for Bulgarian secondary schools**

**Abstract**

This poster covers the main objectives and main results of the 'Education in Earth Observation for Bulgarian Secondary Schools (EOBSS)' Project implemented under the 1st ESA-PECS Call for Bulgaria.

The Project main objectives are to provide access to free Earth Observation (EO) education for Bulgarian secondary schools. The main technical objectives of the Project are comprised of:

1. Development of EO education material for the secondary schools in Bulgaria and
2. Promotion of EO to young students through dissemination and social communication activities.

The objectives are to be met through implementation of several tasks connected with EO curriculum development for Science, Technology, Engineering and Mathematics (STEM) subjects, as well as overall compilation and editing of the manuscript.

**Figure 1.** A) Title page of EOBSS’ ‘Literature review and complicity check’. The TN1 will be the foundation document to set up an online directory with EO educational resources for lower-education in Copernicus Academy. B) Cover of the EOBSS tutorial - EO from Space (in Bulgarian) containing 9 EO modules for Bulgarian secondary schools.

**Figure 2.** Presentation of EOBSS lecture material in class - left to right: open lecture at Sofia school for architecture, construction, and geodesy “Hristo Botev” - 23.11.2017, presentation of EOBSS and ESA SchoolAtlas before students and teachers at Astro-party 2017, 1-2 June 2016, village of Baykali (Dolna Mitropolia municipality), awarded students and lectures of 2nd EOBSS summer school held in “119 SS ‘Acad. Mihail Amanov’”, Sofia - 26-28 June 2018.

**Figure 3.** Snapshots of EOBSS website (from left to right): EOBSS e-learning platform - MOODLE and EO lecture notes on EOBSS website (http://eobss.space), summary statistics and geographic distribution of the web-site visitors.

**Figure 4.** Snapshots from EOBSS social pages, from left to right: Facebook page, EOBSS Twitter (@eobss); EOBSS YouTube channel, EOBSS Project page in ResearchGate.

**Acknowledgements**

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The main contractor SRTI-BAS and the subcontractor CERTH-ITI are members of Copernicus Academy network and as such the events EOBSS Summer School, Workshop and Open Day are co-branded with Copernicus Academy logo.

The views expressed herein can in no way be taken to reflect the official opinion of the ESA.

**References**


**Promotion of EO among young people: Dissemination and communication**

This work package of EOBSS contains four tasks. Some of their results are presented as follows:

**Figure 5.** Organization of 1st EOBSS Summer School, 08-12 September 2017, 7th SS “Kuzman Skaparev”, Blagoevgrad, Bulgaria, from left to right: Prof. R. Reuter’s presentation of a drone demonstration, awarded participants of the Summer School at the entrance of the school building.

**Figure 6.** EOBSS Workshop - 13 September 2018, 22nd September city-hall, Blagoevgrad, Bulgaria.

**Figure 7.** EOBSS Open Day - 2 November 2017, ROC, Sofia, Bulgaria, from left to right: awarding ceremony for the poem, essay and picture competition “My meeting with the Earth in Space”, picture exhibition, awarded participants in the competitions.

**Figure 8.** Presenting the project results at international scientific conferences, from left to right: presentation of EOBSS during EO Open Science 2016, ESRIN-ESA, Frascati, Italy; presentation of EOBSS during EOBSS workshop 2017, Blagoevgrad, Bulgaria; awarding of EOBSS project affiliated partners - students and school representatives during ESA Workshop “Balcons from Space” 18-19 April 2018, Sofia, Bulgaria.

**Figure 9.** Donation of ESA SchoolAtlas - Geography from Space and Water Atlas to Bulgarian public libraries and secondary school libraries.

In the beginning of 2017, SRTI-BAS and CERTH-ITI became Copernicus Academy members. The EOBSS became part of European STEM network SCIENTX on 22 August 2017. As part of SCIENTX, the EOBSS Project is listed in the Projects database and is available in 8 EU languages.

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