

Dear colleagues,

I hope that you are all well and your holidays and summer break last pleasant and that you enjoyed this break with your loved ones. Regardless of the pandemic situation, we continue with our project activities in the new-normal environment.

Given the seriousness of the current situation, we begin this issue with a review of the project leader at influence Covid-19 outbreak to the GEOBIZ Project.

In this issue, we start with Partner presentation. First GEOBIZ partner are going to introduce is a team of the Faculty of Technical Sciences, University of Novi Sad. In addition to an overview of the conducted project activities, we also bring an

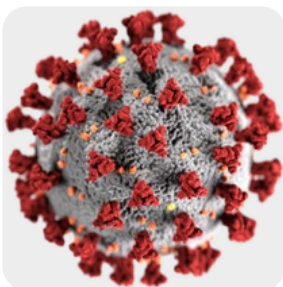
overview of GEOBIZ project partners related activities. It goes University of Montenegro organized and GEOBIZ project consortium supported GEA (Geo Eco-Eco Agro) International Conference and University of Banja Luka organized International conference on Contemporary Theory and Practice in Construction – STEPGRAD 2020.

Also, I take this opportunity and kindly invite all partners to submit contributions, invitation and all information relevant to project partners to e-address: [vesna.posloncec@geof.hr](mailto:vesna.posloncec@geof.hr).

Until the upcoming online meeting (on Monday) I warmly welcome you.

Vesna Poslončec-Petrić

## Covid-19 outbreak and its influence on GEOBIZ Project



The Covid-19 pandemic is around us for full 8 months now, affecting whole human population and all our activities, including also GEOBIZ project. Nevertheless, after initial shock and time necessary to introduce modifications to project work, we switched to on-line working mode. After

successfully physically conducted Kick-off meeting in Zagreb at the beginning of February 2020, we have intensified project coordination activities and organised four Project Management Board meetings and number of task meetings in on-line mode. Also, already first next progress event, foreseen to be hold in Novi Sad has been held in on-line mode. Keeping in mind that somewhat clumsy project start date has caused some initial delay in project activities,

the Covid-19 outbreak created threat to increase this delay and bring project execution in some serious situation. Due to the recognition of this situation and Project Management Board reaction, combined with increased engagement of the partners this threat has not occurred and I am pleased to be in position to tell that project reduced delays and delivered number of foreseen deliverables. Several deliverables have been finalized and adopted (Project organization decisions, Project Work Plan, Quality Plan, Project Communication Plan) or delivered (Project website, Social media links, Project logo and platform, etc). This has further enabled drafting further planning document (Dissemination & Exploitation Plan) and WP1 reports (Task 1.1, Task 1.2 and Task 1.3) finalization of Project leaflet, poster and roll-up, as well as execution of the first phases of procurement related Tasks 2.2 and 2.6 what will

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all be presented at the coming 2nd Progress meeting on September 14th and 17th.

Mentioned resulted with the situation that project has achieved to reduce initially created delays and perform in accordance to modified Project Workplan on our great pleasure. But this also means that coming Progress meeting is very important to keep the achieved momentum and execute project in this engaged manner so that

all foreseen objectives and outcomes will be achieved. Of course, Covid-19 is still around us, and regardless to the fact that we are calculating that in Summer 2021 things will improve to the level in which physical meetings will be possible again, we should continue with present mode of engaged activities and prepare us for key activities, curriculum design and implementation and business-academia cooperation activities.

*Željko Bačić, Project coordinator*

## GEOBIZ Project activities

### 2<sup>nd</sup> GEOBIZ Progress meeting

2nd progress meeting of the GEOBIZ project will be held on 14<sup>th</sup> and 17<sup>th</sup> September 2020. The meeting will be online (via MS Teams) and the hosts are team from University of Zagreb.

Meeting agenda can be downloaded [here](#) and direct access to the meeting is: [2nd GEOBIZ progress meeting](#).

*Vesna Poslončec-Petrić, Zagreb*

### 1<sup>st</sup> GEOBIZ Progress meeting

1st GEOBIZ project progress meeting was held from 4 to 6 May 2020. The meeting was initially planned in April in Novi Sad, but due to a pandemic caused by the corona virus, the meeting was held online. Although in this new format, numerous topics were covered, and the organizers were our partners from the University of Novi Sad.

Among other things, project office presented to all partners the communication plan, the project website, and social networks, as well as the revised project work plan and management, administration, and monitoring procedures.

The main topics of this meeting were to discuss project execution (procurement, reporting, financial, management and dissemination), to develop models for collecting data on geoinformatics curricula and conducting surveys on business and user needs in geoinformatics as well as a survey on business-academia cooperation. Establishment of business-academia cooperation platform in geoinformatics and establishment of internal work quality standards & procedures were also discussed.



*Joint photo of the 1st progress meeting participants*

The online workshop was conducted through the Zoom platform and attended by 40 participants.

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Colleagues from Novi Sad organized it perfectly ensuring sessions to run smoothly and focused on content.

*Zvonimir Nevistić, Zagreb*

## GEA (Geo Eco-Eco Agro) International Conference

University of Montenegro, with many partners including the GEOBIZ project, organized GEA (Geo Eco-Eco Agro) International Conference from 28-31 May 2020. The conference was supposed to be held in Podgorica, but due to a pandemic caused by the corona virus, the conference was held online via the Zoom platform.

The GEA (Geo Eco-Eco Agro) Conference is envisaged as an event during which researchers from the areas of Geosciences, Ecology-Economy and Agriculture, as well as from the areas of Eco-Architecture and Rural Architecture, will present their work to each other. The Conference aims to be meeting point for international scientific discussion on various subjects of these sciences. The idea is to establish new bridges between researchers from the Region and wider; to meet each other and to stay connected, but also to raise awareness among participants about the impacts of climate change and on bringing closer natural resource management with agriculture, forestry, economics and ecology.

GEOBIZ project partners reacted on University of Montenegro invitation and participated actively in the conference presenting their papers at the conference:

1. Medžida Mulić, Randa Natras: *“Space weather impacts to the environment and it’s monitoring by geodetic data”*. Watch presentation [here](#).
2. Andrei Iacovlev, Livia Nistor-Lopatenco: *“Inventory of water and natural gas*

*infrastructure in the rural locality and creation of GIS database”*. Watch presentation [here](#).

3. Zvonimir Nevistić, Željko Bačić: *“Economic aspects of UAV application in changes detection monitoring”*. Watch presentation on this [link](#).
4. Amela Drljan, Velibor Spalević, Goran Barović, Dusko Vujačić, Veljko Martinović, Veljko Sinanović, Zeinab Hazbavi, Abdulvahed Khaledi Darvishan: *“Environmental modelling and computer-graphic simulation for the analysis of physical-geographical characteristics of watersheds: case study Zim potok, Montenegro”*.
5. Goran Barović, Velibor Spalević, Dusko Vujačić: *„New data of density of the river network in Montenegro “*.
6. Duško Vujačić, Slobodan Radusinović, Velibor Spalević, Goran Barović, Mladjen Jovanović: *“Geological characteristics of the Polimlje region in Montenegro and Serbia”*.
7. Mirko Knežević, Goran Barović, Milić Čurović, Duško Vujačić, Katarina Pavićević: *“Status of spatial data infrastructure in Montenegro”*.



Business driven problem-based learning for academic excellence in geoinformatics - GEOBIZ

**Reducing gap between business and academia  
in introducing modern technologies  
- GEOBIZ project approach -**

Željko Bačić; Vesna Poslončec-Petrić; Zvonimir Nevistić  
Faculty of Geodesy, University of Zagreb



GEOBIZ project itself was presented in the paper delivered by the Faculty of Geodesy University of Zagreb team, presented by Zvonimir Nevistić, and written co-authorship with prof. Željko Bačić and Vesna Poslončec-Petrić, under the title

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*“Reducing gaps between business and academia in introducing modern technologies - GEOBIZ project approach”.*

All conference papers you can find the in the official book of abstracts of the GEA conference or at this [link](#), and you can find out more about

the conference on website: [www.gea.ucg.ac.me](http://www.gea.ucg.ac.me). and you can watch the presentations via the official YouTube channel of the GEA conference ([#GEA Conference](#)).

*Zvonimir Nevistić, Zagreb*

### 3<sup>rd</sup> and 4<sup>th</sup> Project Management Board meeting

On May 27th the 3rd Progress meeting has been held in on-line mode. It has been attended by all partners representatives. Based on report delivered by Project coordinator and Work package leaders the Project status has been discussed and necessary following activities defined. The Project Management Plan v1.0 has been adopted, but at the same time the necessity for version 2.0 recognized focusing on modification of Project Workplan due to the Covid-19 outbreak. Beside those, also 1st Project training in Split has been discussed and preparations for the event launched.

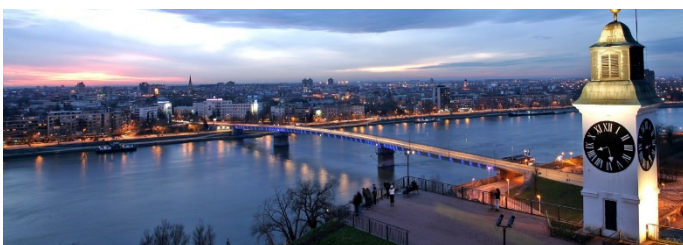
In accordance to decision to held more frequent (monthly/bi-monthly) Project Management Board meetings on July 22nd the 4th meeting has been organized. After the regular reporting on project and work packages status two deliverables, Quality Assurance & Evaluation Plan and Communication Plan, have been adopted. Further meeting focus was on preparation of 1st Project training in Split, which was regrettably in August cancelled due to the raise of the number of Covid-19 cases in project partner countries.

*Željko Bačić, Zagreb*

## GEOBIZ project partners

### University of Novi Sad - Faculty of Technical Sciences

Novi Sad is the capital of the Autonomous Province of Vojvodina and the second largest city in Serbia.



*Novi Sad*

University of Novi Sad is the only university on the territory of Vojvodina and the second largest university in the country. It was founded on 28th June 1960 and it is autonomous, educational, scientific and artistic institution of higher education. The University of Novi Sad, with around 50,000 students and 5,000 employees, is one of the largest educational and research centers in Central Europe. It belongs to the group of comprehensive universities, which are characterized by providing nearly all fields of science and higher education.

The University of Novi Sad offers 350 accredited [study programs](#) at the level of Bachelor, Master, Specialist and Doctoral studies, carried out at its 14 [Faculties](#) and within the University Center for

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Interdisciplinary and Multidisciplinary Studies and Research. The study programs are modern and up to date with the latest developments in science and research.



*University of Novi Sad Rectorate*

The University encompasses around 250 laboratories. Of special significance to the strengthening of innovativeness is the Technology Park of the University of Novi Sad. With the support of the Faculty of Technical Sciences, around 140 [start-up and spin-off companies](#) have been founded, mainly in the IT sector, employing young engineers who graduated from the University of Novi Sad.

Faculty of Technical Sciences originates from the Faculty of Mechanical Engineering which was established on 18th May 1960. After the founding of the University of Novi Sad on 28th June 1960, the Faculty along with six previously established faculties in Vojvodina was regarded as a part of the University of Novi Sad.

Faculty of Technical Sciences provides higher education in five areas namely: technical sciences and engineering, mathematics and natural sciences, arts and humanities as well as medical sciences. The Faculty's activities are threefold: education, research and applied research. Since 2005/2006 academic year, educational activities are carried out through the new structure of study programmes and

modules organized on three cycle degree studies.

Geodesy and geoinformatics study program:

- undergraduate academic studies – Bachelor, 240 ECTS
- graduate academic studies – Master, 60 ECTS
- doctoral academic studies – PHD, 180 ECTS

Faculty scientific and research activities are carried out in modern laboratories and computer centre. Teachers and staff annually publish over 200 scientific papers in leading international and national journals and present them at international conferences in the country and abroad. Research activities are oriented primarily to the realization of research projects funded by the Ministry of Science and Technology of the Republic of Serbia. The Faculty participates in several European research projects in the field of basic research, innovative projects and technological development projects.

[Laboratory for Geoinformatics](#) is in charge of education and support of teaching processes in the field of geoinformatics at the Faculty of Technical Sciences.

Within the laboratory, students acquire practical knowledge in the field of geoinformatics, as the laboratory now has modern resources for acquiring, processing and distribution of geospatial data and information. Students use modern acquisition equipment to collect data, then work in the laboratory to process data using current software solutions in the field of geoinformatics.

The activities of the Laboratory for Geoinformatics are:

- education of students in the field of geoinformatics,



- realization of research and scientific projects in the field of geoinformatics,
- development of software products and specialized software solutions in the field of geoinformatics,
- development and realization of systems in the field of geomatics, geoinformatics and geoinformation technologies,
- consulting and other services in the field of geomatics, geoinformatics and geoinformation technologies,
- reengineering the work process in geoinformation systems, education, specialization and certification of engineering personnel,
- organization of professional and scientific meetings,

- cooperation and realization of joint projects with companies in the field of geomatics, geoinformatics and geoinformation technologies.

Laboratory for Geoinformatics is a member of: [International Federation of Surveyors: FIG](#), [Open Geospatial Consortium](#), [ISPRS – International Society for Photogrammetry and Remote Sensing](#); [Copernicus Academy](#) and [Plan4all](#).

In case you are interested to find more, contact our [staff](#).

*Ivana Badnjarević, Novi Sad*

## GEOBIZ dissemination diary

### Project related article by Dajana Todorović, Tanja Fržović, Branko Božić

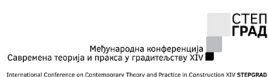
Faculty of Architecture, Construction and Geodesy in Banja Luka organized XIV International conference on Contemporary Theory and Practice in Construction – STEPGRAD 2020. It was held in on-line mode on June 11<sup>th</sup> and 12<sup>th</sup>. Professor Branko Božić from University of Belgrade wrote, together with Dajana Todorović, Tanja Fržović from University of Banja Luka, project related paper: [Application of PBL model on](#)

[study program of geodesy at The Faculty of Architecture, Civil engineering and Geodesy at the University of Banja Luka](#).

The subject of this paper is the application of the PBL model in the teaching process of the first cycle of studies at the Faculty of Architecture, Civil Engineering and Geodesy. The meaning of the term PBL model and its basic characteristics as well as its historical development are described. The application of PBL to SP Geodesy and evaluation of its implementation on the example of a current subject are presented.

The paper has been published in [Proceedings of International conference on Contemporary Theory and Practice in Construction XIV \(2020\)](#) (page 434-442).

*Vesna Poslončec-Petrić, Zagreb*



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## Invitation

### Invitation: Journal Geodetic Courier

The journal Geodetic Courier (Geodetski glasnik) publishes scientific and professional papers, professional discussions and the impact geodesy has on society and other similar works from the areas of geodesy, cartography, geoinformatics and other areas related to spatial information. The next issue will be published in December 2020, and we are invited to submit our contributions.



Details on the submission process are summarised [here](#).

### Workshop "Introducing the Copernicus Ground Motion Service" - invitation

The European Commission invites all interested individuals and organisations to join online workshop 'European Ground Motion Service with Copernicus'. This workshop has been designed to introduce interested and potential users of the Service to: the rationale of [the Copernicus European Ground Motion Service \(EGMS\)](#), the main characteristics and fields of application and will give an opportunity to propose successful ways in which the EGMS can work with the various National Ground Motion Services already in place by some countries (including examples of downstream applications).



The event 'European Ground Motion Service with Copernicus' will take place virtually, on 21 and on 22 October 2020, between 09:30 and 12:30 and [registration form is here!](#)

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## Impressum

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