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University of Belgrade  
Faculty of Civil Engineering



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# Modernising geodesy education in Western Balkan with focus on competences and learning outcomes – GEOWEB

*561902-EPP-1-2015-1-SE-EPPKA2-CBHE-JP*

Capacity Building in Higher Education, Cooperation for innovation and the exchange of  
good practices

<http://osgl.grf.bg.ac.rs/survey/accounts/login/>

Tirana, 10-12.12.2017

# List of partner organisations

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1. KUNGLIGA TEKNISKA HOEGSKOLAN STOCKHOLM Sweden,
2. TECHNISCHE UNIVERSITAET WIEN, WIEN Austria
3. UNIVERSIDAD DE LEON LEON Spain
4. UNIVERZITET U SARAJEVU SARAJEVO
5. UNIVERZITET DZEMAL BIJEDIC U MOSTARU
6. JAVNA USTANOVA UNIVERZITET U TUZLI
7. Zavod za planiranje razvoja Kantona Sarajevo, Sarajevo
8. BNpro d.o.o Sarajevo
9. UNIVERSITETI POLITEKNIK I TIRANES, TIRANA Albania
10. UNIVERSITY OF TIRANA Tirana Albania
11. **FACULTY OF CIVIL ENGINEERING BELGRADE Serbia**
12. UNIVERZITET U NOVOM SADU NOVI SAD Serbia

# WORKPLAN

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1. WP1: Establish project organizations, review project plan
2. **WP2: Establish regional network in geodesy education**
3. Establish new geodesy laboratories
4. Retrain geodesy staff through 4 intensive courses
5. Develop a core curriculum & 3 new MSc programs
6. Introduce e-learning and PBL pedagogy
7. Quality plan
8. Dissemination and exploitation
9. Project management

# WP1 - Establish project organizations, review project plan/UNSA

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- Project organization - Due date: 30.11.2015  
PMB, LPT, IAB
- Project plan revision - Due date: 15.11.2015
- Kick off meeting / Sarajevo 7-12. mart 2016

# WP2 - Establish regional network in geodesy education

<http://osgl.grf.bg.ac.rs/survey/accounts/login/>

## Project plan

- Geodesy database / 30.06.2016 
- Cooperation Agreement/ 30.06.2016 
- Western Balkan Geodesy Society/Forum- First Forum (regional cooperation network) 

## The results

- UB created three databases on time
- Contracts between partners signed on time
- First forum in **Belgrade** - 30.10.2016
- Second forum in Mostar, October 2017

# GEOWEB at FCE / Local website Homepage



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## About project

### The official GEOWEB project web site:

<http://gidec.abe.kth.se/GEOWEB>.

### The project objectives:

1. Modernization of higher education in geodesy and geography in partner's countries,
2. Integration of partner countries with EU,
3. Strengthening regional cooperation within Western Balkan countries.

**The Project coordinator:** Huan Fan, Royal Institute of Technology-Division of Geodesy and Satellite Positioning (KTH, Stockholm, Sweden).

### The other partner institutions:

1. Royal Institute of Technology (KTH, Stockholm, Sweden),
2. Vienna University of Technology (TUW, Vienna, Austria),
3. University of Leon (ULE, Leon, Spain),
4. University of Belgrade, Department of Geodesy&Geoinformatics,
5. University of Novi Sad – Department of Computing&Control Engineering - UNS,
6. University of Tirana, Department of Geography - UT,
7. Polytechnic University of Tirana, Department of Geodesy - UPT,
8. University of Sarajevo, Department of Geodesy - UNSA,
9. University of Mostar, Faculty of Civil Engineering - UNMO,
10. University of Tuzla – Department of Geography - UNTZ,
11. Institute of Development Planning - IDPSA,
12. BNPro d.o.o. - private co.

## Western Balkan Geodesy Educational Database

Institutions for Higher Education in Geodesy (16)

Geodesy Educational Programmes (29)

Geodesy Stakeholders (45)

Leave your comments or suggestions:

Forum

- **Institutional framework for operation of engineering geodesy - Serbia** (Mostar, 17 October 2017)
- **New Photogrammetry and Remote Sensing laboratory** (Belgrade, October 2017)
- **New GNSS equipment for Surveying laboratory** (Belgrade, September 2017)
- **GEOWEB presentation**
- **Erasmus+K2 GEOWEB project started at FCE** (Belgrade, 15 March 2016)
- **Internal dissemination seminar** (Belgrade, 16 March 2016)
- **Belgrade workshop** (17-21 October 2016)
- **Curricular development workshop with IAB and WBGf meetings** (Belgrade, 24 October 2016)
- **Article - Problem based project oriented learning ...** (Kopaonik, Serbia, 2-5 June 2016, [Proceedings of GEO 2016](#))
- **Geodesy educational database report** (Belgrade, 2 July 2016)
- **Geodesy stakeholders survey report** (Belgrade, 4 July 2016)
- **Geodesy educational database report** (Stockholm, 20 June 2016)
- **New FCE courses** (Stockholm, 20 June 2016)

# Institutions for Higher Education in Geodesy



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## Western Balkan Geodesy Educational Database

### Institutions for Higher Education in Geodesy

Pk <sup>△</sup>	Name of the higher education institution (HEI) <sup>△</sup>	Country <sup>△</sup>	Place <sup>△</sup>	Street address <sup>△</sup>	Web site of the HEI <sup>△</sup>	Name <sup>△</sup>	Position <sup>△</sup>	contact email <sup>△</sup>	Telephone <sup>△</sup>	Department / Unit <sup>△</sup>	user <sup>△</sup>
11	CONSTRUCTION ENGINEERING FACULTY, POLYTECHNIC UNIVERSITY OF TIRANA	Albania	Tirana	Street "MUHAMED GJOLLESHA" NR. 54	<a href="http://www.upt.al/index.php/fakultete-dhe-institute/fin">http://www.upt.al/index.php/fakultete-dhe-institute/fin</a>	BILBIL NURCE	PhD	<a href="mailto:billnurce@gmail.com">billnurce@gmail.com</a>	00355 42 244 100	GEODESY	upt
22	University of Ljubljana, Faculty of Civil and Geodetic Engineering	Slovenia	Ljubljana	Jamova cesta 2	<a href="http://www3.fgg.uni-lj.si/en/">http://www3.fgg.uni-lj.si/en/</a>	Anka Lisec	Assoc. Prof.	<a href="mailto:anka.lisec@fgg.uni-lj.si">anka.lisec@fgg.uni-lj.si</a>	+386 1 476 85 60	Department of Geodetic Engineering	anka.lisec
9	University of Tuzla, Faculty of Natural Sciences and Mathematics	Bosnia and Herzegovina	Tuzla	Univerzitetska 4	<a href="http://www.pmf.untz.ba/">http://www.pmf.untz.ba/</a>	Alma Kadusic	Assistant Professor	<a href="mailto:alma.kadusic@untz.ba">alma.kadusic@untz.ba</a>	0038735320869	Department of Geography	geografija.tuzla
14	Faculty of Science	Bosnia and Herzegovina	Banja Luka	Mladena Stojanovica 2	<a href="http://www.pmfbl.org">Http://www.pmfbl.org</a>	Davorin Bajic	Head of Department of Cartography and GIS	<a href="mailto:davorinbajic@pmfbl.org">davorinbajic@pmfbl.org</a>	+38765680867	Geography	davorinbajic
10	Faculty of Civil Engineering, Department of Geodesy	Bosnia and Herzegovina	Sarajevo	Patriotske lige 30	<a href="http://www.gf.unsa.ba/">http://www.gf.unsa.ba/</a>	Admir Mulahusic	Head of Department of Geodesy	<a href="mailto:amulahusic@yahoo.com">amulahusic@yahoo.com</a>	0038761212672	Department of Geodesy	Admir
12	Građevinski Fakultet Sarajevo	Bosnia i Hercegovina	Sarajevo	Patriotske lige 30	<a href="http://www.gf.unsa.ba/">http://www.gf.unsa.ba/</a>	haris	Responsible Projectant	<a href="mailto:haris.lelic@energoinvest.ba">haris.lelic@energoinvest.ba</a>	0038761349732	Energoinvest	ti84
23	Faculty of Geology and Mine	ALBANIA	Tirana	Rruga e Elbasanit	<a href="http://fgjm.edu.al/informacione">http://fgjm.edu.al/informacione</a>	Edmond Hoxha	Professor	<a href="mailto:ehoxha63@gmail.com">ehoxha63@gmail.com</a>	+355694027170	Natural Resource	FGJM



# Geodesy Educational Programmes



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## Western Balkan Geodesy Educational Database

### Geodesy Educational Programmes

Pk <sup>△</sup>	Name of the programme <sup>△</sup>	Institution <sup>△</sup>	Country <sup>△</sup>	Programme level <sup>△</sup>	Number of study years <sup>△</sup>
22	Geodesy and geoinformatics	Faculty of Civil Engineering, University of Belgrade	Serbia	PhD	3
9	Geodesy and geoinformatics	Faculty of Civil Engineering, University of Belgrade	Serbia	B.Sc	3
23	Geodesy and geoinformatics	Faculty of Civil Engineering, University of Belgrade	Serbia	M.Sc	2
27	Geography	University of Tuzla, Faculty of Natural Sciences and Mathematics	Bosnia and Herzegovina	B.Sc	4
36	Undergraduate Academic Studies / Geodesy and Geomatics	Faculty of Technical Sciences, University of Novi Sad	Serbia	B.Sc	4
37	Master Academic Studies / Geodesy and Geomatics	Faculty of Technical Sciences, University of Novi Sad	Serbia	M.Sc	1
39	Doctoral Academic Studies / Geodesy and Geomatics	Faculty of Technical Sciences, University of Novi Sad	Serbia	PhD	3
38	Specialised Academic Studies / Geodesy and Geomatics	Faculty of Technical Sciences, University of Novi Sad	Serbia	University Specialization	5
28	Undergraduate study of geodesy - Prvi ciklus studija geodezije	Faculty of Civil Engineering, Department of Geodesy	Bosnia and Herzegovina	B.Eng	3
30	PhD studies - Doktorski studij geodezije	Faculty of Civil Engineering, Department of Geodesy	Bosnia and Herzegovina	PhD	3



# Geodesy Stakeholders



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## Western Balkan Geodesy Educational Database

### Geodesy Stakeholders

Pk	Name of the organisation	Country	Place	Street address	Name	Position	contact email	Office phone	Cell phone
2	GEOPUT d.o.o.	Serbia	Belgrade	Belgrade, Tome Rosandića 2	Miroslav Kuburić	manager	<a href="mailto:geodelta@geoput.com">geodelta@geoput.com</a>	+381113099100	+381655434566
3	PD za geodeziju Geodet DB doo	Serbia	Mali Zvornik	ul. Kralja Petra I 37	Dragan Bogićević	CEO	<a href="mailto:d.bogicevic@geodetdb.com">d.bogicevic@geodetdb.com</a>	+38115471052	+381643544 813
4	TOP GEO DOO	Serbia	Belgrade	Baštovanska 96	Nebojša Mazalica	General Manager	<a href="mailto:office@topgeo.co.rs">office@topgeo.co.rs</a>	+381604551123	+381604551123
5	Geo Info Strategies d.o.o.	Serbia	Belgrade	Šamačka 3	Vladimir Vasiljev	General Manager	<a href="mailto:vv@geoinfo.rs">vv@geoinfo.rs</a>	+381112888066	+38163688986
23	Biro za geodetske poslove GEODET	Srbija	Kovin	Jna 7/14	Aleksandar Miladinov	employer	<a href="mailto:salegeodet@gmail.com">salegeodet@gmail.com</a>	013/744-717	064/323-99-00
26	Institut for Urbanism Tuzla municipality	Bosnia and Herzegovina	Tuzla	Aleja Alije Izetbegovića 6	Nedreta Kikanovic	Senior Advisor for the Application of Geodesy in Spatial Planning of Tuzla municipality	<a href="mailto:nedreta.k@gmail.com">nedreta.k@gmail.com</a>	387 35 252 038	387 61 725 018
1	MapSoft d.o.o.	Serbia	Belgrade	Ustanička 64/7	Igor Nedeljković	Sales and marketing sector manager	<a href="mailto:igor@mapsoft.rs">igor@mapsoft.rs</a>	+381 11 2456 330	+381 63 338 336
6	Institute for Development Planning of Sarajevo Canton	Bosnia and Herzegovina	Sarajevo	Branilaca Sarajeva 26	Jasmin Taletović	Department Manager	<a href="mailto:Jasmin.Taletovic@zpr.ks.gov.ba">Jasmin.Taletovic@zpr.ks.gov.ba</a>	+38733209542	+38761375235
7	GeoWILD d.o.o.	Bosnia and Herzegovina	Sarajevo	Patriotske lige 30	Mirza Selesković	Manager	<a href="mailto:geowild@bih.net.ba">geowild@bih.net.ba</a>	+387 33 278 465	+387 61 157 775
8	Department for Geodesy and Property Affairs	Bosnia and Herzegovina	Tuzla City	ZAVNOBiH 11	Edis Imamovic	Senior Associate for geodetic and cadastral jobs	<a href="mailto:edisi@tuzla.ba">edisi@tuzla.ba</a>	+38735307425	+38761884380

# THE CONTENT OF DATABASES

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## Institutions for Higher Education

- Name of the higher education institution (HEI)
- Complete address (country, place, zip code and street address)
- Web site of HEI
- Type of HEI (public/state private/state, private)
- Contact person (name, position, department/unit, email and telephone)

## Geodesy Educational Programmes

- Name of the program,
- Program level (B.Eng,B.Sc, High School Specialization),
- Number of study years,
- Credit system used,
- Total number of credits,
- Language of study,
- Number of admitted students in 2015/16,
- Courses included

## Geodesy Stakeholders

- Name,
- Address data,
- Information on contact person
- The type of organization,
- Number of geodetic/GIS employees
- Main activities of organization.

# Activity 2.1: A geodesy educational database report /Conclusions and remarks

- School institutions and their study programs from six regional countries was created and filled
- Fourteen educational institutions from six regional countries, three from partner's countries and three outside (Macedonia, Croatia and Slovenia)
- 28 study programs
- All institutions accepted ECTS policy of the student effort validation
- Bachelor degree lasts three or four years, but mostly three,
- Small number of study programs was offered in English, mainly at the PhD level
- There are a few programs that the students can choose different options to study (MSc in Belgrade and MEng in Zagreb)
- Belgrade, Zagreb and Ljubljana offer all study areas
- GIS, Geoinformatics, GNSS and Land cadaster are more or less implemented in all educational institutions
- Database was published at the Project website and will continue to collect and inform the stakeholders and others who are interesting to see what the geodetic education institutions offer in the region

Country	15
<i>Bosnia and Herzegovina</i>	7
<i>Serbia</i>	3
<i>Albania</i>	2
<i>Croatia</i>	1
<i>Slovenia</i>	1
<i>Macedonia</i>	1

# Activity 5.1

## Geodesy stakeholders survey report

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Table 1: Number of stakeholders participating in the survey

Country	
Albania	10
Bosnia and Herzegovina	20
Serbia	12
Total	42

Table 3: Activities of stakeholders

Activity	No.	%
Cadastral/topographic surveying	27	64
Engineering surveying	27	64
Geodesy (geodetic networks and reference systems)	25	60
GIS development and geospatial data management	23	50
Land management	21	50
Photogrammetry and remote sensing	12	29
Geodetic software and equipment supply and maintenance services	11	26

Table 2: Number of stakeholders participating in the survey

Stakeholders according to their type	
Private enterprises	31
Local/central government agencies	8
Public bodies	3
Total	42

Table 4: Competences needed

Activity	No.	%
GIS and geospatial data management	31	74
Engineering surveying	27	64
Geodesy (geodetic networks and reference systems)	24	57
GNSS	21	50
Land management	18	43
Land cadastre	17	40
Traditional surveying	15	36
Photogrammetry and remote sensing	14	33
Laser scanning	7	17

# Activity 5.1

## Geodesy stakeholders survey report /RESULTS

Country	Comments
ALB	Mostly students need more practice and consolidation of the theoretical concepts in real works
ALB	More efforts should be made on Economic Background, Industry standards and Ethic Code
ALB	In our opinion, the education in geodesy should go in its modernizing towards the good and solid education in modern technologies, modern geodesy theory. Geo-information (GIS-WebGIS), land management and legislation as well as the new methods and technologies in engineering geodesy.
ALB	Particular needs in -depth knowledge of Geodesy concepts, creation and management of geo-information processing in GIS platform. ASIG is an institution responsible for the implementation of the INSPIRE Directive in Albania. ASIG for next year, will receive more responsibility for the production of various maps (as NMCA) for the Republic of Albania. For this purpose, it will be more need for training short and long term for its specialties. (Like In GIS, Remote Sensing, photogrammetry ...)
ALB	Our Organization is always looking for qualified employees, in every department not only survey unit. When something new in technology is required for the progress of the work, company cares that the employee to be well trained. <ol style="list-style-type: none"> <li>1. Permanent change of teaching mentality. Combined theory and practice in a more efficient way.</li> <li>2. Bringing new methods in teaching, as well as combination and attracting engineers with experience in teaching.</li> <li>3. A fully equipped laboratory is a must.</li> </ol>
BiH	More cooperation with faculty of geodesy and support in seminars modern technology in geodesy.
BiH	Technology is constantly growing and improving, and we should follow that. Geodesy students need to be closely familiar with new methods and, and most of all, programming.
BiH	We usually provide training for the new technology in Geoinformatics-geomatics.
BiH	The main problem, in my opinion, with geodesy education is that focus of education is theory and not application. Of course, this is maybe not intentional but the reason could be expensive software and hardware (geodetic instruments) which is needed for quality education of geodesy/GIS students.
SER	Students have great deal of theoretical knowledge but they lack transversal skills and what is more important work-based skills.
SER	Geodetic engineers should have better skills and knowledge in geoinformatics, especially in terms of solving various problems by programming, i.e. using scripting languages in GIS software or standard programming languages and software development tools, such as Visual Basic, C# and Visual Studio.
SER	There is no any communications and consultations between private companies and educational institutions of Geodesy in Serbia. Except sporadic individual cooperation and economic benefits.
SER	The program is not adapted for the market, and up to date technology. It doesn't follow trends in geodesy.

# WP3 -Establish new geodesy laboratories/KTH

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- Equipment Needs Identification / 15.01.2016
- Purchase and install new geodesy equipment/ 30.06.2016
- Staff training on new geodesy equipment/ 30.06.2016

- Two GNSS Trimble R8s receivers
- One UAV DJI matrix 600 Pro with 20MPs digital camera
- IT - 1 server; 4 desktop computers; 2 3D desktop computers; 2 notebooks; Geospatial office software; Software for point cloud processing; Laptop, 3D mouse, Active 3D glasses KIT; 3D glasses extra; 5 3D glasses for projector
- Staff trained (8 persons)
- Labs opening ceremony was held

# WP 4 - Retrain geodesy staff through four intensive courses/UPT

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- GIS applications for land, water and environment
- Global Navigation Satellite Systems (GNSS)
- Digital image processing and remote sensing
- Gravity, geoid and reference systems



- Tirana, two PhD students, 10 days
- TU Wien, two PhD students, 10 days
- Ponferada, UL, two PhD students 14 days
- Mostar, two Assistant professors, 7 days



# WP5: Core curriculum & new MSc programs /TUW

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- Questionnaire survey among geodesy stakeholders
- Workshop on curricular development
- Define learning outcomes at lesson level
- Accredit and start new curriculum, master programs
- Develop 14 new teaching materials



- Finished  
<http://osgl.grf.bg.ac.rs/survey/accoun/counts/login/>
- Belgrade, Oktober 2016
- Finished, August 2017
- Four new courses accepted in Sep 2017 and 15 revised at FCE
- Five new teaching materials at FCE





# New teaching materials at UB FCE

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<i>VI</i>	<i>University of Belgrade (UB)</i>				
1	Geovizualization	Milan Kilibarda, PhD	Textbook	June 2018	Zeljko Cvijetinovic, PhD
2	Precise GNSS Point Positioning	Dragan Blagojevic, PhD	Textbook	June 2018	Oleg Odalovic, PhD
3	Global geopotential models	Oleg Odalovic, PhD	Textbook	June 2018	Dragan Blagojevic, PhD
4	Laser scanning	Zeljko Cvijetinovic, PhD	Textbook	June 2018	Milan Kilibarda, PhD
5	Research methodology and communication	Branko Bozic, PhD	Textbook	June 2018	Branislav Bajat, PhD

# New courses at UB FCE

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- Global geopotential models (GGM)
- Precise GNSS point positioning
- Laser Scanning
- Geovizualization

# 15 courses revised at FCE

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1. Techniques geodetic measurements
  2. Plane surveying, field practice
  3. Global navigation satellite systems
  4. Plane (geodetic) surveying 3
  5. Engineering surveying, field practice
  6. Geoinformatics, Practical work
  7. Photogrammetry, Practical work
  8. Geodetic reference network
  9. Geodesy Field practice
  10. Engineering Surveying in industry
  11. Engineering photogrammetry
  12. Quality assurance of geodetic measurements
  13. Digital photogrammetry
  14. Project in Photogrammetry
  15. Project in Geoinformatics
- 
- The diagram uses blue curly braces to group the 15 courses into two categories. The first brace, labeled 'BSc', encompasses courses 1 through 7. The second brace, labeled 'MSc', encompasses courses 8 through 15.
- BSc**
- MSc**

# WP6: Introduce e-learning and PBL pedagogy/ULE

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- Workshop on e-learning and PBL pedagogy
- Install e-learning web server MOODLE
- Pilot course using PBL

- Finished in Ponferada, Sep. 2017, two Teaching assistances
- Installed e-learning web server MOODLE
- Pilot course using PBL (Problem-Based Learning) – **in progress**

1) Design and Implementation of Geoinformation Systems and  
2) GIS Programming



# WP7: Implement quality assurance in geodesy education/ULE

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- Workshop on quality assurance
- Introduce systematic course evaluations by students

- In 2018
- In 2018

# WP8: Quality plan: Monitoring and quality control/KTH

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## Quality assurance, dissemination and sustainability strategy / plan

### Quality assurance

- An “Activity Monitoring Table” has been created and distributed to all project members so that every member knows the content of activities, their objective and expected outcome, responsible partner/persons, relevant date and place, deadline for completion/reporting
- Project coordinator met project members regularly to monitor ongoing activities, evaluate achieved results, identify problems and plan future activities
- Project consortium reports project work to the International Advisory Board which will review project results and provide feedbacks and advices
- Local project team provides timely progress report to the management of the local organization for guidance and advice
- In the middle of the project period, the project will be reviewed by three international experts as an external quality control

### Dissemination

- A project web site has been created: <http://gidec.abe.kth.se/GEOWEB>
- A project leaflet has been printed and distributed
- Project newsletter is published twice a year to inform on ongoing and completed project activities and forthcoming events
- Each Western Balkan university has organized an internal dissemination seminar in spring 2016 with staff, students and university administration as main target groups. The purpose is to inform the targeted groups on the GEOWEB project’s objectives, planned activities, major events, expected results and outcomes. In particular, the seminar presented specific activities and tasks to be taken at the respective partner university
- The project will organize annual conferences of Western Balkan Geodetic Forum to disseminate the project results to geodesy stakeholders in Western Balkan
- A final dissemination conference will be organized at the end of the project period

### Sustainability and exploitation

- Work closely with university administrations to obtain long term support
- Involve labour market partners, geodesy employers and other stakeholders in the project
- Take advantage of stakeholder support to develop education programs and courses which meet the needs of the geodesy labour market and the Balkan societies
- Build regional and international cooperation networks to develop geodesy education and research capacity in Western Balkan
- Promote regional integration and student mobility among Western Balkan geodesy educational institutions

# WP9: Dissemination and exploitation/UB

- Create and maintain project web site
- Publish project leaflets and newsletters
- Dissemination via annual WBSGS conferences
- Final dissemination conference in Tirana (or Belgrade)

- Project web site, local web site established in April 2016  
<http://osgl.grf.bg.ac.rs/survey/accounts/login/>  
 and <http://gidec.abe.kth.se/GEOWEB/>
- Reports created and put on the local site
- Project leaflets and newsletters disseminated
- Internal dissemination seminar was held in March 2016
- An article published at International scientific conference regarding to PBL pedagogy in May 2016 and put on local web site
- About the GEOWEB on the Faculty website  
[http://www.grf.bg.ac.rs/p/docs/informatori/p\\_o\\_etak\\_rada\\_na\\_erasmus\\_projektu\\_geoweb\\_1458047411845.pdf](http://www.grf.bg.ac.rs/p/docs/informatori/p_o_etak_rada_na_erasmus_projektu_geoweb_1458047411845.pdf)



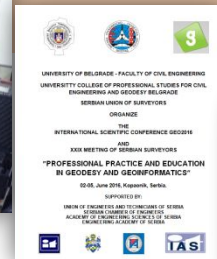
In Rector's office



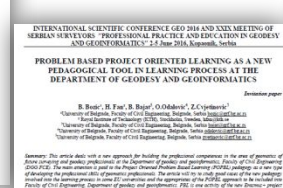
GEOWEB Homepage



Lab for photogrammetry



International conference



PBL paper at International conference



Field practice



Internal dissemination seminar



Lab for surveying

# WP10: Project management/KTH

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- Project management by Project Management Board
- Annual meeting of Project Management Board (PMB)  
)- Annual meetings were held in Sarajevo (March, 2016), Belgrade (Okt. 2016), Stockholm from 21th to 25th of June, 2017 and Mostar 20.10.2017
- Day to day project management