

REPORT ON THE ROUND TABLE



Promoting academia-industry alliances
for R&D through collaborative and
open innovation platform - All4R&D

Co-funded by the
Erasmus+ Programme
of the European Union



All4R&D

GRAĐEVINSKI FAKULTET, SALA BURENCE, UTORAK 01.10.2019. u 10:00



www.gf.unsa.ba gfsa@gf.unsa.ba

Patriotske lige 30, 71000 Sarajevo Bosnia and Herzegovina

Tel: +387 33 278 400 Fax: +387 33 200 158

PREPARATIONS FOR THE MEETING

As part of the All4R&D project, the Faculty of Civil Engineering of the University of Sarajevo was expected to prepare a round table and interview potential participants in the project on the possibilities of cooperation between academia and industry. The representatives of the Faculty of Civil Engineering officially contacted and invited 35 participants. In addition to the invitees (Fig. 1), representatives of other interested parties and students of final years were also informally invited to attend the round table.

Redni broj	Firma	Osoba	Kontakt telefon	Kontakt email	Adresa	web
1	WINNERPROJECT	Neković Safet	33 218727	marketing@winnerproject.ba	Zmaja od Bosne 47A, 71000 Sarajevo	https://winnerproject.ba/
2	ANS Drive	Asmir Dževlan	61488487 33777770	ansdrive@bih.net.ba	Butmirska cesta 24, 71000 Sarajevo	https://ansdrive.ba/
3	DZEKOS	Hajro Hadziabdic	61480010	hhajrudin1509@gmail.com info@dzechos.ba	Ismeta Alajbegovića Šerbe 16, 71000 Sarajevo	http://dzechos.ba/
4	TERMOBETON	Turbo Ahmed	32789050	termobeton@gmail.com	Potkraj bb, 71370 Breza	http://www.termo-beton.com/
5	BUTMIR	Potogija Mirza	033774 150 61218102	info@butmir.ba	Butmirska cesta 45 71210, Ilidža	https://butmir.ba/
6	ROLLING	Dino Hasanović	33259140 61199425	info@rolling.ba rolling@bih.net.ba	Alipasina 11, 71000 Sarajevo	http://www.rolling.ba/
7	OSDIN	Memisević Nurdin	61276264	osdindoo@gmail.com	Paljevka broj 49, 71000 Sarajevo	nema
8	INSTITUT ZA STANDARDIZACIJU	Bojana Zecevic	57310560 65250335	stand@bas.gov.ba bojana.zecevic@bas.gov.ba	Trg ilidžanske brigade 2B, 71123 Istočno Sarajevo	http://www.bas.gov.ba/
9	IPSA	Gavrić Dejan	33276342	info@ipsa-institut.com dgavric@hotmail.com	Put života bb, 71000 Sarajevo	http://ipsa-institut.com/home-2/
10	DIVEL	Čaušević Jasmina	33252470	info@divel.ba jasmina.causevic@divel.ba	Tešanjka 5a, 71 000 Sarajevo	https://www.divel.ba/
11	FABING	Živalj Edhem	33213840	fabingsa@bih.net.ba	Srdana Aleksića 14, 71000 Sarajevo	http://www.fabing.ba/
12	EMNA	Hajro Hodžić	61158040	el.ha@bih.net.ba	Hamdije kulenovića 8, 71000 Sarajevo	nema
13	CALYPSO	Medić Isak	61170693	isak_medich@yahoo.com	Hamdije Kresevljakovića 7a, 71000 Sarajevo	nema
14	EUROENGINEER	Midhad Hadžialić	61136857	mhadzalic@hotmail.com	Ložionička 15, 71000 Sarajevo	http://www.euroengineer.com.ba/
15	EUROASFALT	Enver Ajanovic Admir Eminovic	33568320	info@euro-asfalt.ba enver.ajanovic@euro-asfalt.ba	Rajlovac bb, 71000 Sarajevo	http://euro-asfalt.ba/bs/naslovna/
16	TBG BH	Asim Mešić	33764390	asim.mesic@heidbergcement.com	Doglodi bb, 71210 Ilidža	https://www.tbgbh.ba/bs
17	VELBOS	Zlatan Vuk	33777030	sarajevo@velbos.ba zlatan@velbos.ba	Butmirska cesta bb 71000 Sarajevo	http://www.velbos.ba/
18	T & E	Tarik Turković	61505056	tarik.turkovic@te-ing.com	Talirevića 11, 71000 Sarajevo	http://www.te-ing.com
19	Univerzitet Džemal Bijedić Građevinski fakultet	Mili Selimotić Marko Čečez	63286860 61327904	mili.selimotic@unmo.ba marko.cecez@unmo.ba	Univerzitetski Kampus, 88104 Mostar	http://www.gf.unmo.ba
20	ARKUS	Merima Sahinagic-Isovic Mehmed Mesihović	36514850 61792567	merima.sahinagic@unmo.ba mehmed@arkus.ba	Vilsonovo šetalište 10, 71000 Sarajevo	http://www.arkus.ba
21	CESTE FBiH	Ljubo Pravdić Neven Pavlinović	33 250 370	info@jpcfbih.ba pljubo@jpcfbih.ba	Terezije 54, 71000 Sarajevo	https://jpcfbih.ba/bs
22	VANJSKOTRGOVINSKA KOMORA	Elma Kovacević	33566222	elma.kovacevic@komorabih.ba	Branislava Đurđeva 10, 71000 Sarajevo	http://komorabih.ba/
23	TRASA	Gabela Alen	33 252 479	psma@trasa.ba alen.gabela@trasa.ba	Tešanjka 5a, 71000 Sarajevo	http://trasa.ba/
27	ŽGP	Sandi Menzil	33 250 900	info@zgp.ba zgpsarajevo@gmail.com	Dolina 11, 71000 Sarajevo	zgp.ba
28	INFRA	Imširpašić Kenan	61 365 755	kenan.imsirpasic@infra.ba	Derviša Numica 11	nema
29	ZAVOD ZA ZAŠTITU NA RADU D.O.O. SARAJEVO		(0)33 650-955		Zmaja od Bosne 34	
30	UNIGRADNJA	Sabljića Amir	61184706	unigr@bih.net.ba	Mula Mustafe Bašeskije 10, SA	unigr@bih.net.ba
31	SIRBEGOVIĆ	Mirza Bajraktarević	061 269 597	mirza.bajraktarevic@sirbegovic.com	Branilaca grada, 75320 Gračanica	sirbegovic.com
32	GRANULO - RE, SARAJEVO	Ramiz Granulo	061135769	info@granulo.ba	Bojnička 47, 71210 Ilidža	info@granulo.ba
35	VINDI TIP, sarajevo	Darko Adričenko	061101020		Uglješe Uzelca br.155	

Fig. 1: Invitees

The list was designed to bring together renowned designers, contractors, institutions, and representatives of academia and alumni in one place. In the invitation for the meeting, participants were briefly informed on the essentials of the All4R&D project. The original call for the roundtable is shown in Figure 2.

Poštovane kolege,

Pozivamo Vas da sudjelujete na okruglom stolu u okviru projektu Erasmus+ "Promoviranje saveza za istraživanje i razvoj između univerziteta i privrede kroz suradnju i platformu otvorenih inovacija - ALL4RD", koji ispred Univerziteta u Sarajevu vodi Građevinski fakultet. Cilj projekta je saradnja privrede i fakulteta. Projekat traje 3 godine, a u projekat su uključeni Univerziteti i kompanije iz Makedonije, Bosne i Hercegovine, Armenije, Finske, Austrije i Njemačke.

(Zvanična web stranica projekta je <http://all4rd.net/> gdje se mogu naći detaljnije informacije o projektu).

Cilj je za istim stolom okupiti eminente stručnjake iz građevinske prakse i profesore sa fakulteta, te u otvorenoj i sadržajnoj diskusiji doći do dobrih prijedloga za saradnju privrede i visokog školstva. Biće nam izuzetno drago da sudjelujete na okruglom stolu održati 01.10.2019. u 10:00 na Građevinskom fakultetu u Sarajevu, Patriotske lige 30, sala „Burence“.

Agenda sastanka je u prilogu.

Srdačan pozdrav

Fig. 2: Invitation for the meeting

In addition to the e-mail, the basic features of the discussion are given in Figure 3.

ALL4RD – poziv GAP Analysis

GAP analiza jedan je od bitnih zadataka u okviru projekta Erasmus ALL4RD - Razvoj i provedba tečajeva i inovativnih aktivnosti koje nude profesori i stručnjaci iz industrije. Analiza će se provesti kako bi se analizirao jaz između kompetencija koji imaju studenti i alumni, odnosno bivši studenti a danas inženjeri iz prakse sa bogatim stručnim iskustvom. Rezultati sastanka i ankete koriste se za razvijanje novih tečajeva i inovativnih aktivnosti, u saradnji profesora i eksperata iz građevinske privrede kroz novoformiranu Kooperativnu jedinicu za istraživanje i razvoj na Građevinskom fakultetu u Sarajevu.

Na sastanku – okruglom stolu će se procijeniti potrebe i izazovi s kojima se susreće građevinska privreda (građenje, proizvodnja, projektovanje, konzalting, standardizacija...) te donijeti preporuke o potrebnoj dodatnoj edukaciji.

Sljedeća pitanja trebaju biti razmotrena među akademskim osobljem i menadžerima/profesionalcima iz privrede:

- Koje su tehničke kompetencije / znanja potrebna u vašoj industriji?
- Koje važne i inovativne teme nedostaju u univerzitetskim programima?
- Koje su teme važne (inovativne i donose rast u kompanijama) i trebaju ih naučiti studenti i njihovi zaposlenici?

I druga otvorena pitanja.

Radujemo se Vašem dolasku

Fig. 3: Invitation for the meeting

After the round table, the conclusions were summarized and notes of thanks were sent to the participants of the discussion with a wish to continue cooperation (Fig.4). The participants were again asked to complete the survey.

Poštovani,

prije svega želimo da Vam se zahvalimo na podršci koju kontinuirano pružate Erasmus projektu ALL4RD.

U suradnji sa kolegama sa drugih Univerziteta, učesnika u projektu, analiziramo zaključke sa okruglog stola koji je održan 01.10.2019.godine na našem Fakultetu u Sarajevu. Odziv je bio iznad naših očekivanja, a iskustva sa sastanka su nam od velike pomoći u kreiranju našeg izvještaja ka partnerima u projektu. Sva iskustva sa sastanka će biti prezentirana na sljedećem sastanku partnera Erasmus projekta ALL4RD. Informiraćemo Vas o daljnjim aktivnostima i nadamo se nastavku Vaše podrške.

Molimo Vas da izdvojite vremena za ispunjavanje anonimne ankete (spominjali smo je i na Okruglom stolu) čija je tema saradnja privrede i univerziteta na linku:

<https://www.surveymonkey.com/r/All4RD-Gap-analysis>

Da bi anketa bila što objektivnija i uključila što više učesnika molimo Vas da link dostavite vašim kolegama i uposlenicima uz molbu da je popune do 19.10., te uz napomenu da se sa jednog računara može popuniti samo jedna anketa.

Srdačan pozdrav

Fig. 4: Note of thanks

REGISTRATION OF PARTICIPANTS

During the round table, participants were listed (Figure 4).

Redni broj	Firma	Prezime i ime	Kontakt telefon	Kontakt E-mail	Potpis
1.	Gradjevinski fakultet	POZOER MIRZA	063 043 973	pozder.mirza@lstunal.com	
2.	SIRREGOVIC	MIRZA BOJIKTAREC	061 269 597	mirza.bojiktarec@eubroker.com	
3.	INSTITUT ZA STRANO INVESTICIJU U BiH	MARIO PRKA	061 550 553	mario.prka@bosnia.gov.ba	
4.	Van-kontingentski konzultantski biro	Elma Končević	062 99 33 53	elmakovacevic@komercibh.ba	
5.	FABING d.o.o. SARAJEVO	ZIVALJ EDHEM	061 408 413	fabingsar@gmail.com	
6.	FABING d.o.o. SARAJEVO	KADIĆ ASAD	033 213 840	fabing.ba@bih.net.ba	
7.	Walter d.o.o. Sarajevo	Nezad Džeko	061 388 431	nezad.dzeco@walter.ba	
8.	CALYPSO PROMET d.o.o.	SEHAHIO' RASHM	061 819-878	rasimsehaio@gmail.com	
9.	CALYPSO PROMET d.o.o.	DAVBECIĆ JASMIN	062 1501-228	Jasmin_dub@gmail.com	
10.	Gradjevinski fakultet	HARIS KALAJDŽIĆ SALIHović	062/440-340	haris.kalajdzic@gmail.com	
11.	AREKUS	MESIHović MEHAMED	061/772-567	mehamed@arekus.ba	
12.	T&E	TARIK TURKović	061/505056	tarik.turkovic@te-141.com	
13.	GF	SKELIĆ ADIS	061/875-057	astja@live.com	
14.	INFRA d.o.o. SARAJEVO	MŠIRPAŠIĆ KENAN	061/555-755	kenan.mirpasic@infra.ba	
15.	BUTMIR d.o.o.	POTOGIJA MIRZA	061/218-102	m.potogija@butmir.ba	
16.	GFSA	MEDIĆ SENAD	061/479-359	senad_medic@yahoo.com	
17.	WINNER PROJECT	SAFET NEĐIĆ	061/21-160	PROJEKAT@winner.ba	
18.	DOLAROS d.o.o.	HADŽIĆ MUHAMED	061 480 010	hadzic.muhamed@dolaros.com	
19.	EMNA d.o.o.	HADŽIĆ MUHAMED	061 158 040	em.hadzic@bih.net.ba	
20.	GF	FADIL BIREČIĆ	061 107041	fabingsar@bih.net.ba	

Sarajevo, 01.10.2019.

Redni broj	Firma	Prezime i ime	Kontakt telefon	Kontakt E-mail	Potpis
21.	Evangelizacija	Hadžić Mirza	061 200 414	hadzic.mirza@evangelizacija.com	
22.	GRADJEVINSKI FAKULTET	MUSTAFA HRASNIĆ	061 222 544	hrasnica@bih.net.ba	
23.	GRADJEVINSKI FAKULTET	SIMONović ADEM	063 861 065	gprsimonovic@yahoo.com	
24.	GF Univerzitet "Džemal Bijedić" Mostar	BAHIGIĆ-MIRZA MEHMED	061/432-444	mehamed.bahigic@unma.ba	
25.	GF "Inženjering"	IR. DOLAREVIĆ	061/106-510	ir.dolarevic@gf.unsa.ba	
26.	GF "Džemal Bijedić" Mostar	Selimović MILO	063/286-860	milo.selimovic@unma.ba	
27.	TERMOBOSTON	Ahmed Turko	061/372-238	termoboston@gmail.com	
28.	UNIVERZITET "DŽEMAL BIJEDIĆ" SARAJEVO FAKULTET	MARKO ČEČE	061/327-924	marko.cecec@unma.ba	
29.	INSTITUT ZA STRANO INVESTICIJU U BiH	ZEČEVIĆ BOJANA	061/250-330	bojana.zecovic@bosnia.gov.ba	
30.	GRADJEVINSKI FAKULTET SA.	MADŽAREVIĆ MUHAMED	061 212 267	madzar@bih.net.ba	

Sarajevo, 01.10.2019.

Fig. 5: Registration of participants from industry and academia

THE MEETING

The meeting was opened by the Dean of the Faculty of Civil Engineering, University of Sarajevo Prof. dr. Dolarevic (www.gf.unsa.ba). He briefly presented the current situation at the Faculty of Civil Engineering, pointed out the potential of the educated young staff of the faculty, the very good cooperation we traditionally have with industry, and pointed out that the faculty is constantly changing with the aim of closer cooperation with the economy. He particularly emphasized the possibility of adapting curricula to the needs of the industry.



Fig. 6: Conference room

Thereafter, the leader of the ALL4R&D team Prof. Hrasnica (www.gf.unsa.ba) reiterated the most important conclusions from the 1st National Meeting held on 07.03.2019 at the Faculty of Civil Engineering. He presented the attendees with conclusions from Macedonia and Finland, and briefly outlined the activities planned and the upcoming meeting in Bochum. He then asked the attendees to introduce themselves.

The noted discussion was held by Elma Kovacevic-Bajtal (www.komorabih.ba) as a representative of the BiH Foreign Trade Chamber. She said that the current market is hungry for profiles of all types of workers, the need for constant training and changing of occupation, and that education should be radically changed in primary and secondary schools. Particularly interesting part of the presentation relates to the dying off of interest due to digitization. She further endorsed regional standards of study, dual education, firm mentoring, adequate salaries and compensation for work. She pointed out that people today are looking for an occupation for themselves. Training is a daily routine, work needs to be changed (hairdresser, CNC operator, welder ...), for which simple courses are sufficient as opposed to classical school training. She pointed to the importance of LLL and the inertia of BiH companies in programs such as Horizon 2000 and the like.

Bojana Zecevic and Mario Prka (www.bas.gov.ba), as representatives of the National Institute for Standardization, pointed out the need for LLL and suggested courses for engineers on the introduction of Eurocodes. It is interesting to say that young engineers reacted by arguing that this has been overcome, indicating a gap in generations, and the willingness of young people to face new challenges beyond institutional conventional schemes.

Džoko Nedžad (www.walter.ba), as a representative of one of the most promising BIM companies, said that any kind of cooperation could be achieved, but that the ideas for potential fields of collaboration should be first written by various participants and then discussed.

Safet Nekovic, a partner in the ALL4R&D project (www.winnerproject.ba), pointed to the huge potential of cooperation between industry and science, but also indicated that the application of new technologies has its limitations in small markets. As an example, he cited dynamic pile testing equipment, where his firm temporarily halted the project by analyzing costs and potential profits. He further emphasized the issue of legal regulation, stating that responsible firms were not in an equal position until stricter laws were introduced on the implementation of all types of certification and quality proofs that are avoided by socially irresponsible firms.



Fig. 7: Meeting photos

Kenan Imširpašić, owner of a newly-founded infrastructure design firm, believes that a qualitative and quantitative market analysis should be made and asks what kind of engineers faculty should produce. He emphasized the issue of responsibility of engineers because he felt that graduates had no sense of responsibility. He believes that engineers should be educated in a wide range and only choose a specialization after employment.

Hajrudin Hadžiabdić, (www.dzekos.ba), believes that one should work on general education of the nation as a whole, and then go into vocational projects. As an example, he stated that individuals even employ people because their quality is ignorance. He further pointed out that in the education of students, there should be more focused on site organization, execution, regulation, reading of projects from A to Z, and, most importantly, to teach students how to make money.

Mirza Potogija (www.butmir.ba), from one of the largest contracting companies, believes that the market is saturated with designers, and that universities produce cadres that cannot manage a construction site. He generally believes that young people lack readiness for teamwork and that there is no interest in working at a construction site. He emphasizes the importance of economics in construction and the problem of human resource management.



Fig. 8: Meeting photos

Tarik Turkovic, owner of one of the newly established companies, which mainly employs younger staff, (www.te-ing.com), wondered what we could do to make the profession more interesting. What can change at construction sites is that engineers recognize themselves as the people who create and who will be challenged by structures. He cited examples of introducing training projects, where they work together in a team to solve practical problems, indicating that education is not completed by the act of graduation. He pointed to the need for work meetings and courses where engineers would jointly analyze the problems they have. He particularly emphasized the problem of motivating young engineers.

Mehmed Mesihovic, (www.arkus.ba), another young engineer who took the initiative himself and founded his own company, emphasized paperless design and BIM modeling and execution. He offered every kind of help, including financial, to help things get better. He believes that young people are inert and that if there is no need they have no initiative. As an example, he stated that the company had a library and no one even opened a book. He believes that there is generally a lack of sense of responsibility.

Mirza Bajraktarevic, (www.sirbegovic.com), as a responsible for development and research in the company Sirbegovic again offered internships for students, cooperation in the preparation of master

theses, and called for cooperation and closer connection of academia and industry. He said that giants, such as Sirbegovic, have problems when it comes to doing work that is not an engineering routine. He emphasized the problem of branding, certification of equipment, prices, markets, and other. He pointed out that today's particular interest in design is only one small link in the construction profession chain. He believes that firms and individuals themselves have a position in the market. He pointed to the extensive use of precast concrete products and the successful use of high strength concrete and steel, thereby building the image of his company. He further indicated that engineers need other skills than those acquired during education such as the ability to contract, present themselves, sell, spend and make money, as well as the lack of project management knowledge, weak interpretation of contracts, proper construction logs and job records, etc.

Rasim Sehagic, from Calypso doo, believes that students should master tools such as ALLPLAN and others, and that during their education they should complete projects from understand architectural projects to contracting. He also believes that a combination of students and experienced engineers as participants in future courses can cause a counter-effect.

Turbo Ahmed, (www.termo-beton.com), engineer with many years of work experience, thinks that only innovative ideas can be lucrative today, and that without the cooperation of academia and industry, firms are not competitive. He also pointed to the major problems of the lack of general knowledge in the country, and the problems of wider education of engineers, which in his opinion should still be narrower and more specialized.



Fig. 9: Meeting photos

After two hours of discussion, Prof. Hrasnica emphasized the problems of founding alumni associations of engineers, the need for LLL, emphasized that new technologies are an obligation, but

also stressed the weak response of students to, for example, IT courses, foreign language courses, professional practice, and the problem of not enough construction sites around Sarajevo that could be visited by final year students.

The roundtable was organized prior to the start of school year at the faculty. During the month of October, the final year students were introduced to the activities in the ALL4R & D project.



Fig. 10: Introducing students to ALL4R & D