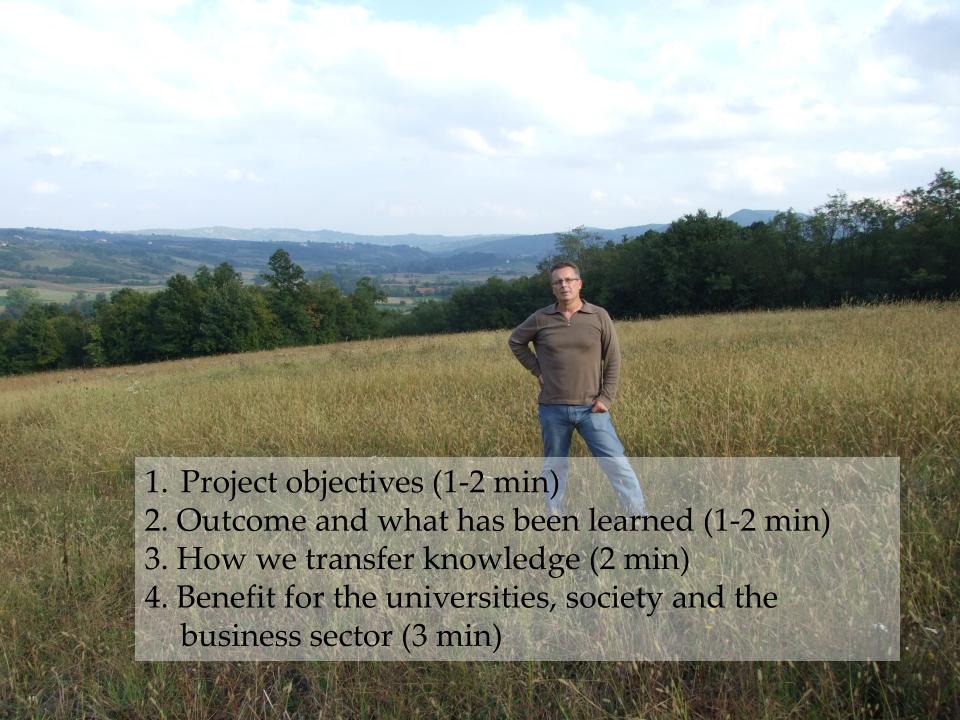
Brief presentation on outcome and importance of the HERD/Agriculture project "Research, education and knowledge transfer promoting entrepreneurship in sustainable use of pastureland/grazing"

for the universities, society and the business sector Savo Vuckovic, Slaven Prodanovic University of Belgrade



1. Project objectives:

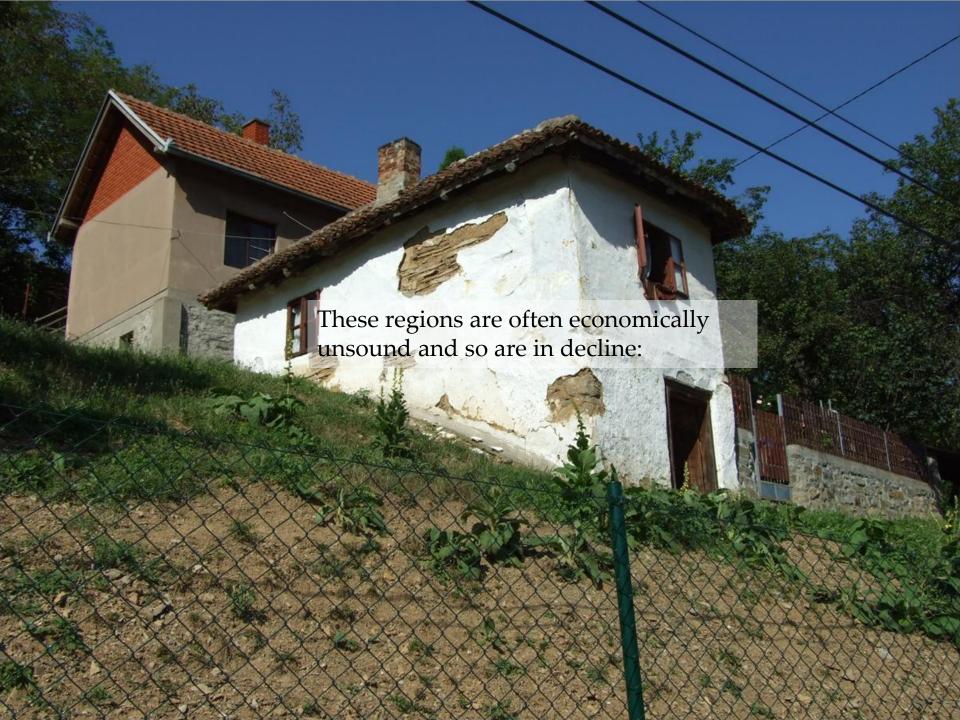






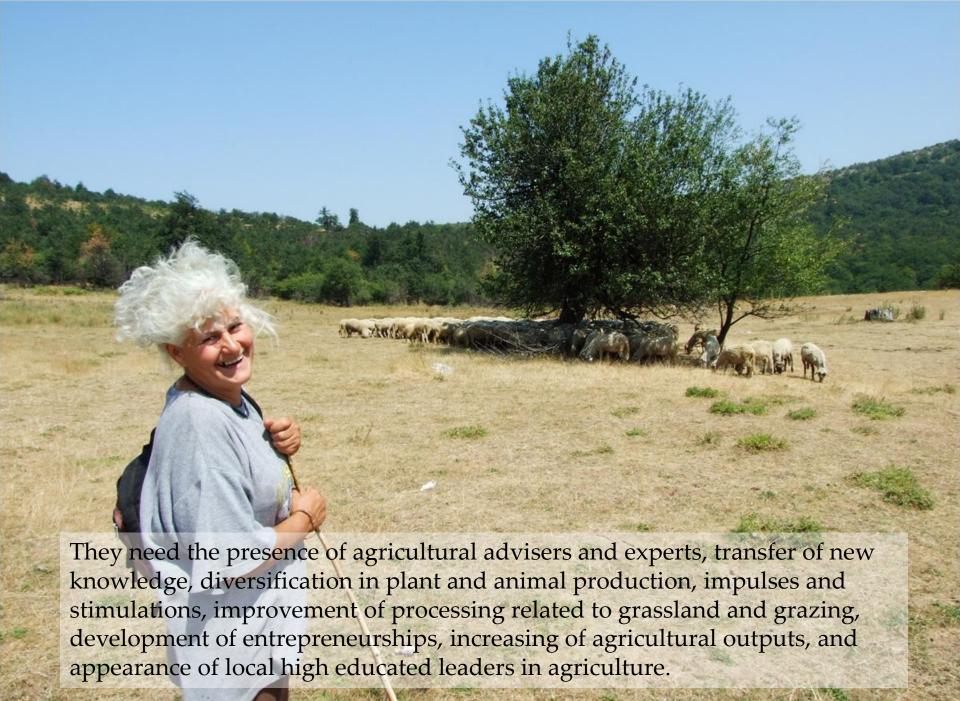
Grasslands and pasturelands on WB are situated mostly in hilly and mountain regions.













In the same time these regions are rich in genetic resources, plants and animal biodiversity, traditional farming and forestry systems with clear technologies.

So, the project tried to contribute to development of **sustainable** use of grasslands.

2. Outcome and what has been learned

Project key results are:

- Institutional improvement
- Improved courses: "Grasslands", "Genetic resources" and 5 others, incl. one new program at the Faculty of Veterinary Medicine
- New presentations, hand outs and books for students
- 37 New MSc and 14 PhD dissertation supported by the project
- Development of infrastructure and pursue of equipment
- Participation of faculty technicians at different workshops, symposiums, and visits
- Understanding and cooperation with participating WB institutions
- Visits among WB partners, Visit of WBI to NMBU, and reciprocal
- •6 joint workshops / seminars
- 4 Working groups
- Joint researches
- 18 new joint research papers, 4 books, web site REAKT!, one group on Social network "Facebook"
- Non-formal education for farmers and entrepreneurs
- Cooperation with other institutions (extension services, NGOs)
- Action plans in management of grasslands for municipalities







Few learned lessons:

We have learned that students are more inspired to work in the laboratory, when they have new equipment.



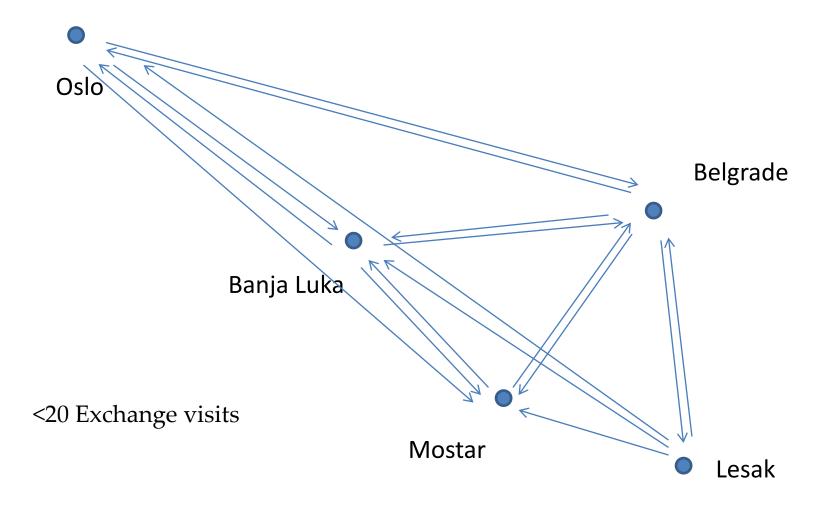


But it is more difficult to motivate students to carry out their own experiments for master theses and dissertation, because field experiments in agriculture could last long.





Also, we have learned how it works at the other Universities.



Each partner institution has certain advantages which can be identified best through the cooperation.

Good lesson from the project is that there is a wide range of people who are engaged in meadows. We met a very poor farmers, and very rich and successful entrepreneurs.

Professors have a difficult role to be able to communicate with everyone.



Malo Crnice, 2014





Other things learned:

- It is necessary to verify the knowledge gained at the university in practice,
- The transfer of knowledge from academic institutions towards farmers is a mutual process,
- One research topic is never completed, constantly appearing new challenges in science and practice,
- Good leadership and coordination in the project contribute to transparency and encourage cooperation among partners.

Poljoprivredni fakultet Univerziteta u Beogradu

Genetiči3. How we transfer knowledge resursi biljaka

3.1. To scientific community



Slaven Prodanović Gordana Šurlan Momirović Vera Rakonjac Danijela Petrović

Beograd, 2015



EGF at 50: The Future of European Grasslands

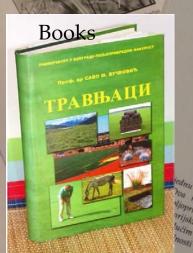
Proceedings





VOLUME 19 GRASSLAND SCIENCE IN EUROPE







BOTHALIA Journal.

Journals

Vol 44, No. 4; Apr 2014

Investigation of fertility genotypes Birdsfoot trefoil (Lotus corniculatus L.) depending on the method of pollination

VOJO RADÍĆ 1 , SAVO VUČKOVIĆ 2 , ĐORĐE GATARIĆ 1 , SLAVEN PRODANOVIĆ 2 , ILIJA KOMLJENOVIĆ 1 , JONEL SUBIĆ 3

¹ Faculty of Agriculture, University of Banjaluka, Bulevar Vojvode Petra Bojovica 1A

78000 Banjaluka, Republic of Srpska, Bosnia and Herzegovina ²Faculty of Agriculture, 6 Nemanjina Str., 11080 Zemun, Belgrade, Serbia ³Institute Agricultural Economics, 15 Volgina, 11060 Belgrade, Serbia Corresponding author e-mail: yojo radic@yahoo.com

Abstract

Birdsfoot trefoil has a special significance for the provision of high protein forage in mountainous areas. There are a number of highly productive genotypes in natural populations, but the problem is their selection. Becouse of entomofilia modes, mixing



3.2. To farmers, agricultural advisers, entrepreneurs, people from government, civil sector, and NGO

Several methods:

Visit of fields - the presence of experts in situ (over 30 locations)







Presentations given to grassland producers, in villages (20 seminars for farmers)





Public lessons about new technologies in villages (6 Training for producers / entrepreneurs)



Buffalo dairy products





Lipe, 2015



Harvester -Bukovica, 2013



Visit of family farms (13 visits) and discussions



Prozor, 2014



Valjevo, 2013/14



Presentations given on seminars to agricultural advisers (4 seminars)

Mostar, 2013



Interviews to radio and TV (5 interviews)





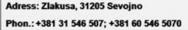
Mila Savic, TV RTS

Articles in popular journals: 6



Recording and promotion of diversification of entrepreneurship in villages

Grnčarija "Šunjarević" Pottery "Sunjarevic"







Vinarija "Ivan Petković" Winery "Ivan Petkovic"

Adress: Malča, 18 000 Niš Phon.: +381 18 201 320; +381 63 607 127





Jovanović Goran, korpar Jovanović Goran, wood basket producer





Udruženje građana "Etno Rasina" Civil Association "Etno Rasina"

Adress: Trg kosovskih junaka bb, 37 000 Kruševac
Phon.: -





4. Benefit for the universities, society and the business sector

4.1. Project address a relevant need in the University of Belgrade and WB partner University

The project enabled improvement of courses:

"Grasslands and Pasturelands"

"Forage production"

"Plant genetic resources"

"Organic animal production"

Relevant need of our institutions is to constantly improve curriculum of the courses, to produce new books for the courses and to develop new results, new scientific papers and new MSc and PhD thesis in these fields. These are the aims of the project, too.

4.2. The project was established in accordance with national priorities and social benefit

Agriculture is generally the priority of the Serbian Government. The Ministry of education and science and the Ministry of Agriculture are responsible for HERD in agriculture.



Priorities of the Ministry of Education and science agreed

http://www.mpn.gov.rs/



National Strategy of the Ministry of Agriculture for the period 2014 -2024

http://www.mpzzs.gov.rs/wp-content/uploads/datoteke/razno/4827014.0116. 30-1.pdf

In there strategic documents states that:

- Food / forage production is of the highest priority for our country
- Research in genetic resources is the priority 1.1. for our country

Programme in Higher Education, Research and Development in the Western Balkans 2010-2014. The Agriculture Sector (HERD/Agriculture) Project Application Form (Deventual Front http://www.umb.us/	
Cover page	(For internal use) HERD/Agriculture ID.: Received:

1. Project title

Research, education and knowledge transfer promoting entrepreneurship in sustainable use of pastureland/grazing

2. Application documents (See "Guidelines for Applicants" when filling out the project application form)

This application form Project description CV for project leaders Other documents

Please send application on paper to: the HERD/ Agriculture Secretariat in UMB/ Noragric, Postboks 5003, 1432

Aas, att. Thor S. Larsen. Please also send the application and other documents electronically by e-mail to:
thor.s.larsen@umb.no

3. Signatures from institutions in Western Balkans countries (For 1000) information see attached Appendix 5)

Institutional responsible University of Belgrade, Faculty of Agriculture, Serbia	Date: 21 April 2011	Name in prima a Some Major & Febrojsa Ralevic
Project leader	Date:	Signature: Signature
	20 April 2011	Name in print: Roff Dr Savo Vockovic

4. Signatures from lead institution in Norway (attach extra forms if more than one institution)

Institutional responsible: Department for International Environment and Development Studies/ Noragric, Norweglan University of Life Sciences (UMB), Norway	Date: 29 April, 2011	In print to the law of the partment
Project leader	Date: 29 April, 2011	In prints Manyan Vegara, PhiD, Assoc. Professor

Endorsement of 3 and 4 confirms institutional relevance of the proposed cooperation, acceptance of, and commitment to the project activities

According to the strategic state documents, the Faculty of Agriculture in Belgrade with other WB institutions and Noragric, has prepared the Application to HERD project about research, education and knowledge transfer in grasslands (signed by institutional leaders).

When the project was approved, Dean of the Faculty of Agriculture informed the Teaching and Scientific Council about it.

Then, the project was placed on the list of the International project. This list is given to the Committee for accreditation of the Ministry of education and science.

The project documentation was submitted for revision to official state Revision body in 2014.



The Faculty of Agriculture in Belgrade

The project is being implemented on a contract basis, which are signed by the Dean of the Faculty and Chef of Noragic department, and renewed every year.

5.5 Any conflict pertaining to this agreement should be resolved through negotiations. If necessary, a mediator who is acceptable to both parties should be appointed in order to find a solution.

5.6 This agreement is drawn up in duplicate, one for Noragric and one for Faculty of Agriculture, University of Belgrade.

Belgrade, 02 April 2014

Prof. Dr. Milica Petrović

Dean

Faculty of Agriculture University of Belgrade Belgrade, Serbia Ås, 03 April 20

Norwegian University

Dr. Paul Wisborg,

Noragric, Norwegian University of

Life Science (UMB)

Noragric, Department of

International Environment and

development studies,

Ås, Norway

On the end of each project year, Dean gives consent to the Project report, and sign it.



The project logo is placed formal on the main web page of the Faculty.

http://www.agrif.bg.ac.rs/



4.3. Apart from the individuals directly engaged in the project, a considerable number of people at the University of Belgrade were involved and participated in the project

1. Professors participating as teachers in MSc and PhD courses that are in the focus of the project.

For example, professors Gordana Surlan-Momirovic, Vera Rakonjac and Tomislav Zivanovic participate as teachers in the course Plant genetic resources. They are interesting in course improvement, procurement of specific equipment, and publishing of joint textbook by support of the project.

2. Members of the scientific committee for defence of MSc theses and PhD dissertation developed within the project.

For example, members of scientific committee for PhD dissertation of Mr. Voja Radic were: Dr Savo Vuckovic, Dr Slaven Prodanovic, Dr Djordje Gataric, Dr Tomislav Zivanovic, and Dr Rade Stanisavljevic. They are interested in getting new experts and to interconnect their fields of research with new results obtained through the project.

All document about MSc theses and PhD dissertation are available publically.

There is a depository of all dissertations on the web site of University of Belgrade. All dissertation produced within the project contain Acknowledgment to the HERD project.

3. Co-authors of research papers published as the national and international journals and presentations given on different symposiums – apart from individuals from the Faculty of Agriculture in Belgrade, these could be also students, and researchers from other institutions in Serbia, WB and Norway.

They are interesting to improve his knowledge, to find some interdisciplinary with the project objectives, to connect with researcher from other institutions, and to have some new references in CV.

Vet. glasnik 68 (5-6) 363 - 369 (2014) Savić Mila i sar.: Selekcijski kriterijumi u organskom stočarstvu

NAPOMENA / ACKNOWLEDGEMENT

Rad je finansiran sredstvima projekta Ministarstva nauke Republike Srbije TP 31085 i HERD Project no.: 09/1548, 332160 UÅ.

The work is funded by Ministry of Science of the Republic of Serbia TP 31085 and HERDP roject no.: 09/1548, 332160 UÅ.

4. Apart from professors at the Faculty of Agriculture in Belgrade, several technical assistance as Mrs. Milanka Slavkovic and Mrs. Jovanka Ilic were interested in the project.

They have helped students in the laboratory work, and they participated on workshops, and also visited some partner institutions (University of Mostar, University of Pristina) in aim to improve cooperation on technical and administrative level.



Mrs. Milanka Slavkovic, technician at University of Belgrade, together with professors, in visit of goat farm in Mostar

4.4. Management of the Faculty of Agriculture have shown the support to the project by giving:

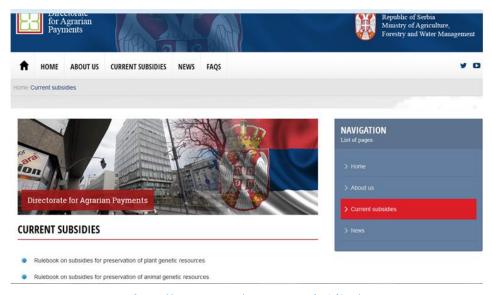
- Administrative support (Student service, Documentations and information, Contracts about project, Project plans and report, Use of copy machines),
- Support of Accountancy (they collect orders, all bills, give the financial reports, work with audit),
- Free of charge use of space for workshops, defence of theses, dissertations, meeting of working group within the project,
- Free of charge use of public services (electricity, post, heating),
- Support in use of laboratories and equipment.

4.5. The project address relevant needs in our country.

Basic argument for funding this project is that Grasslands and pasturelands represent almost 70% of WB agricultural land.

-Project deals with high natural values (HNV), protection of plant genetic resources (PGR), protection of animal genetic resources (AGR) etc.

For example, protection of PGR and AGR is relevant need in country. Every year the Ministry of Agriculture give some incentive for this activities, according to the Rolebook on subsidies for preservation of plant genetic resources. And Rolebook on subsidies for preservation of animal genetic resources.



http://uap.gov.rs/current-subsidies/

4.6. Benefit for business sector

The project address the entrepreneurs and stimulates the cooperation between University and business sector.

- -The entrepreneurs have participated in trainings organized within the project.
- 4 cooperation agreements signed (an example: Cooperation agreement between the University of Mostar Faculty of Agriculture and Food Technology and the Farm of sheep Smiljanic, from Tomislavgrad
- Joint application to the state project of the University Belgrade, Extension service Valjevo, and Extension Service Novi Pazar
- -Joint work on protection of the geographical origin of agricultural products



Sensory evaluation and competition of honey producers





... and cheese producers







- Participation of University representatives on fairs (Prozor, Topola, Palic, Beograd, Lipe...) as invited guests and member of the jury



4.7. Donors who funding the project

- Several institutions are interesting in the project, but they never gave directly funds for project activities, because it to complicate to do it regarding procedure and it requests a lot of administration and permits. Therefore:
- Institutes interesting in the project gave us the support by enable the free use of their land and green houses;
- Extension services have allowed to us the use of their premises and classrooms with equipment for giving lessons;
- Different institutions have provided food and drink to participants of training;
- Researchers devoted part-time to the project;
- Host institutes give us different services, as technical support in hand work and in machinery (for sowing, plant protection, harvesting).

List of donors – cooperating institutions on the project:



Institute for forage crops, Krusevac

http://www.ikbks.com/



Institute "PKB-Agroekonomik", Padinska Skela

http://www.pkbae.rs/o-nama.html

Institute for vegetable crops, Smederevska Palanka

http://www.institut-palanka.co.rs/eng/

institute of science application agriculture, Belgrade

http://psss.rs/page.php?63

https://www.linkedin.com/company/institute-for-science-application-in-agriculture

Institute of Agricultural Economics, Belgrade

http://www.iep.bg.ac.rs/index.php?lang=en

Agricultural extension service Valjevo

Center for small grains, Kragujevac

Instead of a Conclusion

We thank sincerely to HERD Agriculture and Norwegian Government for supporting this project.

This project resulted in improvement of research, education and knowledge transfer promoting entrepreneurship in sustainable use of pastureland/grazing on WB.

This project begun a process of cooperation between higher education, extension services and business. The continuation of this process could significantly contribute to the progress and stability on Western Balkans.