



Faculty of Agriculture and Food Sciences
University of Sarajevo

Balkan HERD Programm 2010-2015

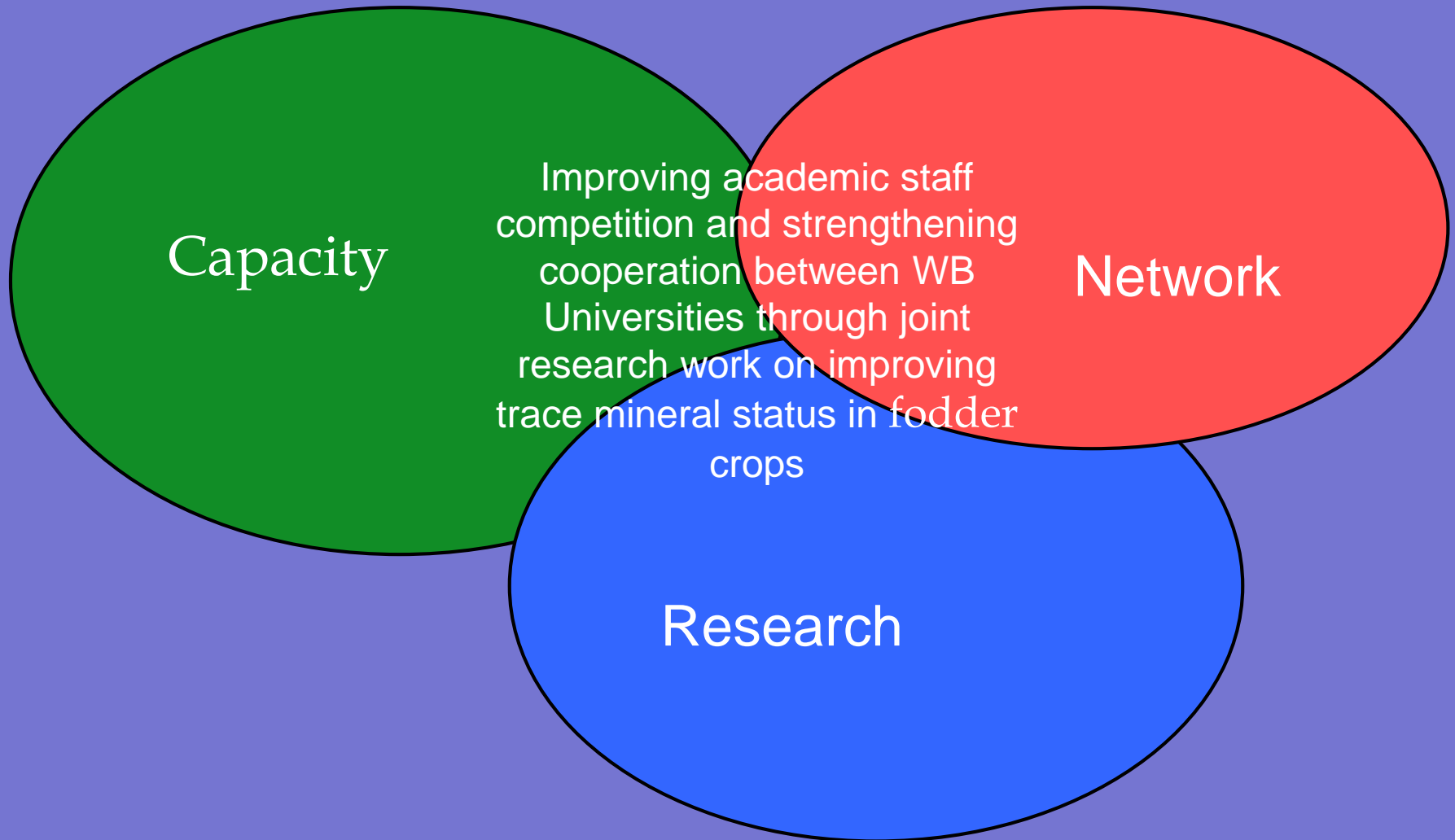
*Mineral improved food and feed crops for
human and animal health in Balkan
countries*

Prof. dr Mirha Đikić

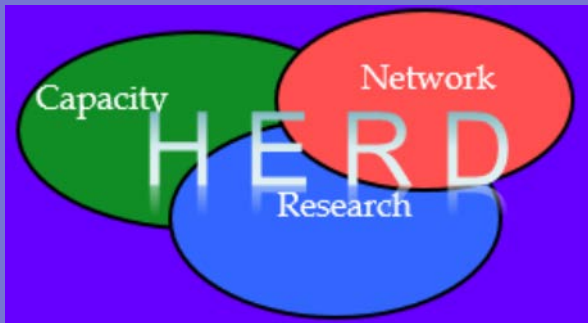
11/24/2016

Sarajevo, September 19th, 2016

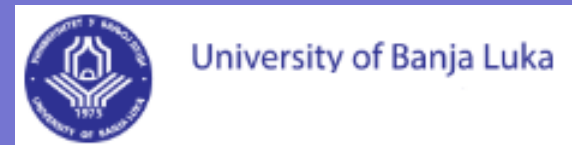
Objectives

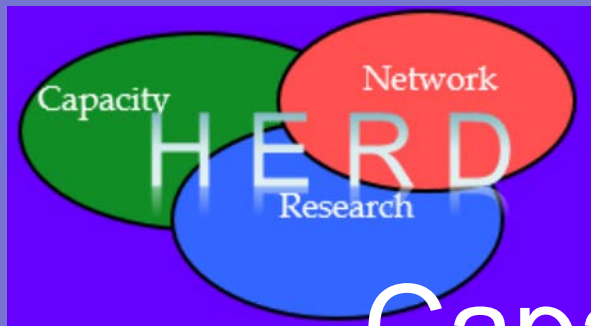


Partners



SVEUČILIŠTE JOSIPA JURJA STROSSMAYERA U OSIJEKU





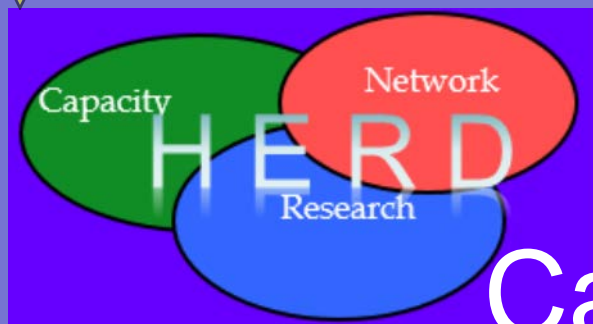
Capacity building/networking

Improving skill and knowledge through NMBU courses and staff visiting (relationship between toxic and essential elements in fodder crops and animals and consequently in humans)



11/24/2016





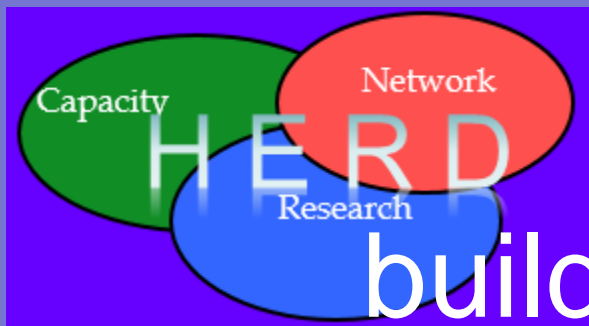
Capacity building/research

Ten students participated in field experiments on farmers fields



11/24/2016





Capacity building/research/networking

Master student at NMBU -
successfully completed study

 Norwegian University of Life Sciences

All institutions → Norges miljø- og biovitenskapelige universitet → Browsing Norges miljø- og biovitenskapelige universitet by Author

Browsing Norges miljø- og biovitenskapelige universitet by Author "Mrkaljevic, Dzana"

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Æ Ø Å

Or enter first few letters:

Sort by: Order: Results:

Now showing items 1-1 of 1

Iron and zinc availability to broiler chicken from mineral biofortified wheat
Mrkaljevic, Dzana (Master thesis, 2015-03-02)
This study was conducted to investigate the effect of mineral biofortified wheat with fungal phytase addition on iron (Fe) and zinc (Zn) availability in broiler chicken breast muscle and liver, their excretion in feces ...

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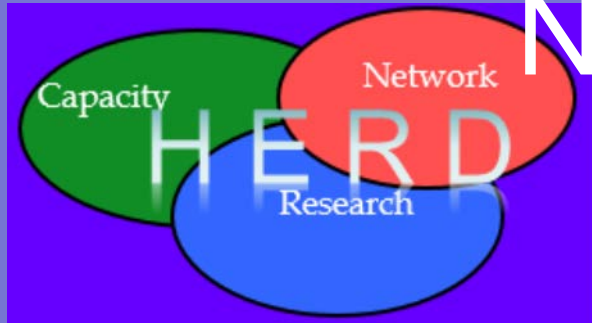
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Networking

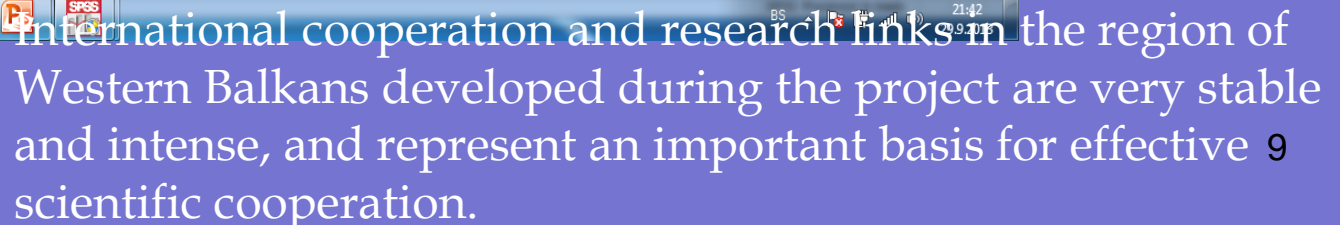
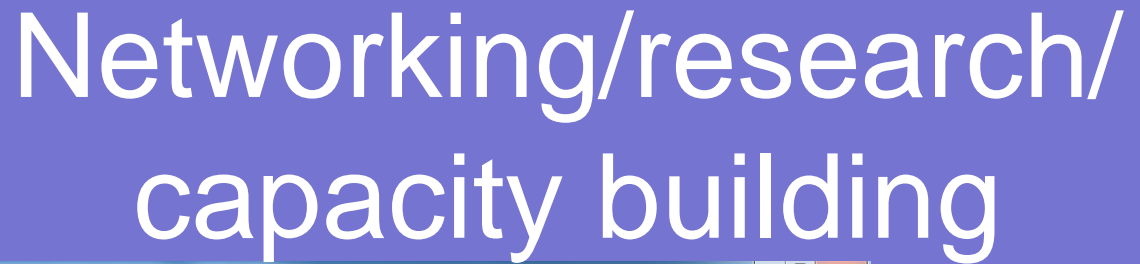
- Workshops every year (B&H, Croatia, Monte Negro) – useful discussion - **next slide**
- Direct cooperation
- Positive effect on scientists from different universities leading to more intensive networking
- Gather experience from Osijek and Novi Sad
- Scientific papers – **slide 13**
- Conference and congress – **slide 14**
- Student from Osijek participated in Student congress in Sarajevo 2016



Networking/research

Workshops

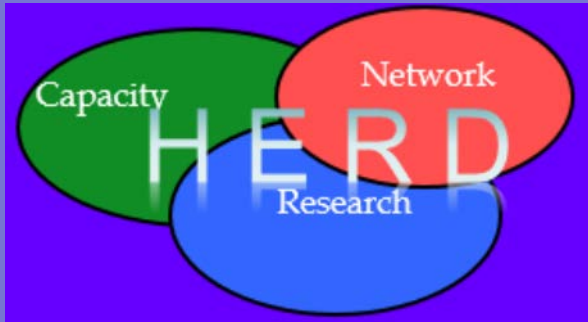
- Kick off meeting – Sarajevo 2011
- January 2012 - Zagreb
- November 2012 – Osijek
- November 2013 – Budva (Montenegro)
- November 2014 – Dubrovnik
- October 2015 - Dubrovnik





Research

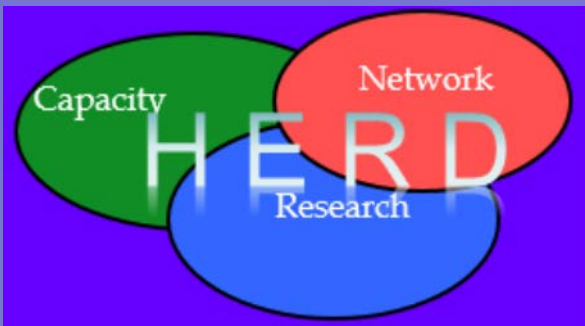
- uninvestigated subject under our conditions related to Zn, Se, Fe, and Cd content in feed
- soil, plant and blood collection, questionnaire – 16 farms
- maize experiment in farmers field – connection with agricultural practice and farmers (the same experiment in Mostar, Banja Luka i Sarajevo – good collaboration) – four years lasts
- clearer picture of micronutrient status of soil, plant and animals for the country.
- impact on farmers for introducing this as regular fertilization practice to make them aware of the impact of selenium and zinc on animal and human health through feed and food chain



Research

sampling

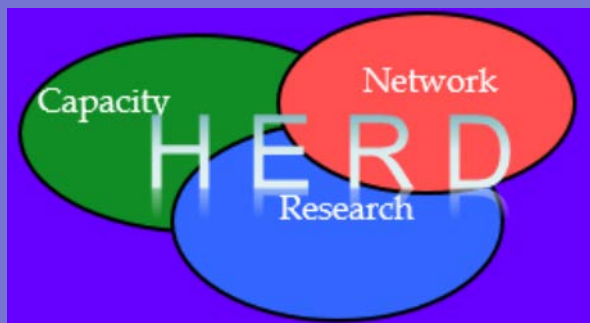




Research

Biofortification of Corn silage plants by Zn and Se - experiment





Scientific outcomes

A. Scientific Papers

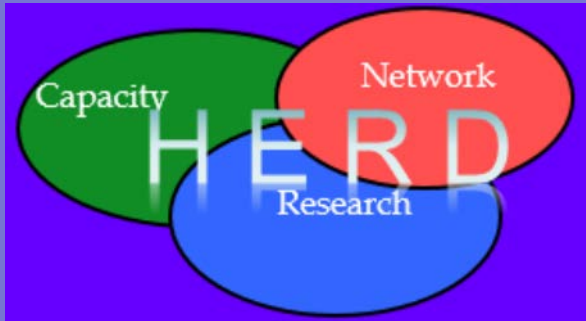
- Ademi, A., Govasmark, E., Bernhoft, A., Hysen Bytyqi , MirhaDjikić , Maja Manojlović, Zdenko Lončarić, Milanka Drinić, Adrijana Majić Filipović and Bal Ram Singh(2015). Status of selenium in sheep and dairy cow blood in Western Balkan countries. Acta Agric. Scand. B. Animal Sciences DOI.org/10.1080/09064702.2015.1048712.
- Džomba, E., M. Đikić, Z. Lončarić, D. Gadžo, V. Ivezić, S. Muratović, M. Šperanda, B.R. Singh(2014): Selenium status of cows and sheep as a consequence of regional differences and feeding practice on small farms in Central Bosnia and Eastern Slavonia. Krmiva 56 (2), 63-70.
- Đikić, M., E. Džomba, D. Gadžo, T. Gavrić, J. Grahić, Dž. Hadžić, B.R. Singh (2015): Relations between soil chemical properties and cadmium content in green mass of silage maize. Works of the Faculty of Forestry University of Sarajevo. Special Edition. Volume 22, pp. 255-261. ISSN 2490-3193.



B. Conferences

- Dzomba E., S. Muratovic (2011) The effect of sodium selenite and vitamin E injection to late pregnancy ewes on selenium status on ewes and offspring. 18th International Conference "Krmiva 2011", Opatia, Croatia.
- Džomba, E., M. Đikić, Z. Lončarić, D. Gadžo, S. Muratović, M. Šperanda, B.R. Singh (2014): Selenium status of cows and sheep as consequence of regional differences and feeding practice at small farms in Central Bosnia and Eastern Slavonia. Book of Abstracts 21st International Conference KRMIVA 2014, June 4-6, Croatia.
- E. Džomba, S. Muratović, S. Čengić-Džomba, Dž. Hadžić (2015): Seasonal fluctuation of selenium in natural pastures of Bosnia and Herzegovina. 22nd International conference KRMIVA 2015, 27-29 May, 2015, Opatija, Croatia.
- T. Gavrić, M. Đikić, D. Gadžo, J. Grahić, B. R. Singh (2015): Mineral matter content in the grain of common and Tartary buckwheat. 26th International scientific-expert conference of agriculture and food industry, 27-30 September, Sarajevo, B&H.
- M. Đikić, E. Džomba, D. Gadžo, T. Gavrić, J. Grahić, Dž. Hadžić and B. R. Singh (2015): Relations between soil chemical properties and cadmium content in green mass of silage maize. 9th Congress of the Soil Science Society of Bosnia and Herzegovina, 23-25 November, Mostar, B&H.

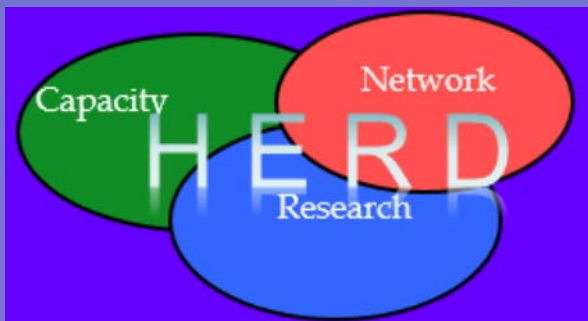
Afterwards



1st Student Congress Food-Nutrition-Health
Sarajevo, 7-9, July, 2016



- Kučera I., Ivezić V., Lončarić Z. (2016): Winter wheat agrofortification by foliar application of zinc and selenium
- Grubišić S., Rebekić A., Lončarić Z. (2016): *In vitro* bioavailability of wheat grain iron and zinc

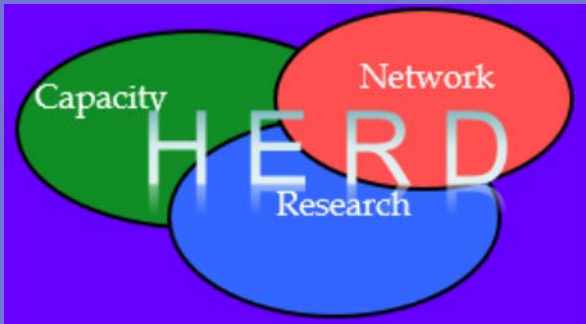


27th International Scientific-Expert Congress of Agriculture and Food Industry, Bursa, Turkey 26-28 September.



Afterwards

M. Đikić, E. Džomba, D. Gadžo, Đ. Grujčić, A. Filipović, M. Drinić, S. Aliu, and B. R. Singh (2016):
Agronomic Biofortification of Fodder Maize with Zinc and Iron



Finally

Implementation of the HERD project has brought a new dimension to scientific cooperation among regional institutions.



11/24/2016