



Bulgaria-Serbia IPA Cross-Border Programme  
CCI Number 2007CB16IPO006

**Project number:** 2007CB16IPO006-2009-1-24  
**Project name:** SELENIUM AS AN ESSENTIAL NATURAL MICROELEMENT FOR THE HUMAN HEALTH PROTECTION

**Project partners:**  
▪ **Lead partner:** Mining and Metallurgy Institute Bor, Serbia  
▪ **Project partner 2:** Vidin Chamber of Commerce and Industry, Bulgaria

**Budget:** 138 622,20 Euro  
**Project duration:** 12 months

**Project description:**

The main goal of the project was to examine chemical characterization of cultivable soil and grains (wheat and corn) on selenium content (natural microelement important for the health of people) in the two cross-border regions, Bor and Vidin. The project achieved the following results:

- Investigated the selenium content in soil and grains (wheat and corn) in Bor and Vidin districts. For the chemical analysis on selenium were used: 200 soil samples (100 soil samples from the Bor District and 100 soil samples from the Vidin district) and 200 grain samples (50 wheat samples from the Bor District and 50 corn samples from the Bor District and 50 wheat samples from the Vidin District and 50 corn samples from the Vidin District). All the samples have been analysed;
- Obtained data for the selenium content in soil and grain samples are used for the creating the data base (electronic and hard copy) for the Bor and Vidin region. These data are the part of the Final Study. The full study is available on the project web site;
- During the soil sampling, the coordinates of the places where the samples were taken have been determined by GPS and recorded. This data are used for the creating topographic map of the target region (electronic and hard copy). The purpose of the activity was to gain a better visibility of the sampling place on the printed map, which was split in 9 partial maps of target region. The all maps are presented in Final Study;
- The project report on diseases and the most common causes on mortality in target districts is the one more results of this project. This report is done in electronic and hard version on English language;
- A project report on available agricultural resources on both sides is also done in electronic and hard version on English language;
- A project web site was developed: <http://www.ipaselenium.org>

The project was successfully completed in November 2012.



*200 soil samples and 200 grain samples have been collected and analyzed*



The Programme is co-funded by the  
European Union.



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*Research results were presented at the final conference which took place in Bor, Serbia*



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