



Kmetijsko gozdarska zbornica Slovenije

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INSTRUCTIONS FOR FARMING IN UPPER MEŽIŠKA VALLEY

Authors:

Dr. Dušica Majer,

Chamber of Agriculture and Forestry of Slovenia

Dr. Nives Vrbič Kugonič,

Institute for Environmental Research ERICo

Doc.dr. Boštjan Pokorny,

Institute for Environmental Research ERICo

Mag. Matej Ivartnik,

Institute of Public Health

presented by: dr. Janko Rode, CAFS



WHERE



Charintia – Mežiška Valley:

- 330 km²
- 400-1.200 m above the sea
- 70% of forests
- 5.418 ha of land in use
- 589 farms
- 72 of organic farms





WHY

Challenge:

- Long tradition of mining and metallurgical activities
- Accumulation of heavy metals in soil and plants
- Affected area:
 - 1650 ha of land in use
 - 181 farms
- No clear guidance for farmers
- Initiative of local stakeholders





PROJECT PARTNERS

Agriculture

- Farmers from degraded area

Advising

- Chamber of Agriculture and Forestry of Slovenia (public farmers advisory service-pFAS)

Research

- Institute for Environmental Research ERICo

Public body

- Institute of Public Health Ravne na Koroškem



PROJECT STRUCTURE

- **Time line:** February 2012 – October 2012
- **Objectives:**
 - Asses the situation
 - Find innovative solutions and
 - prepare technological instructions

Phases of work:

- 1 Creation of operational working group
- 2 Preparation of the plan of work
- 3 Preparation of instructions for farming
- 4 Evaluation of instructions and implementation in practice

Funding: The project was funded from the state budget for the program of work for pFAS on CAFS, which was appointed Coordinator of the project.



SETTING UP THE GROUP

- **Key experts and stakeholders were invited to collaborate:**
 - Biotechnical Faculty
 - Faculty of Agriculture and Life Sciences
 - Agricultural Institute of Slovenia
 - Institute of Public Health
 - Institute for Ecological Research ERICo
 - Public farmers advisory service (pFAS) for the Carinthia region
 - representatives of farmers from the area



PREPARATION OF WORK PLAN - the first meeting

- Review of existing research and analytical results
- Standardization and guidelines for the sampling and analytics: Institute of Public Health, BF
- Identification of contaminated sites and the characteristics of farming in these areas: CAFS-PFAS
- Preparation of compendium of results: pFAS – CAFS
- Preparation of a range of measures to reduce the intake of heavy metals in plants and over plants, humans and animals, selection of agricultural crops: the whole group
- Preparation of written instructions: pFAS - CAFS preparation of a draft, supplemented by other partners
- Evaluation in the practice: pFAS – CAFS; **deadline: at least 1 year** and addition on the basis of new experiences



CONTINUING OF THE WORK

- **Two meetings of all partners:**
 - Extensive discussion and exchange of experience
 - Review of the work already done and identification of obstacles
- **The fourth meeting:**
 - ERICo, Institute of Public Health and pFAS
 - Review the draft material and preparation of final version.



COMPLETION OF THE FIRST PART OF THE PROJECT

Preparation of instructions

- **The result** of this part of the project are written **instructions for farming** Upper Mežiška valley
- The characteristics of farming in Zg. Mežiška Valley (natural resources, structure of farms)
- Spatial identification of contaminated sites
- Measures for reduction of intake of heavy metals in plants and entering the food chain
- The definition of contamination of cattle feed
- The state of contamination of food of animal origin and
- measures to prevent the introduction of pollutants into human body



EVALUATION AND IMPLEMENTATION IN PRACTICE 2nd PART OF THE PROJECT

- **Presentation** at the Ministry for Agriculture and the Environment
- **Evaluation and implementation of instructions in practice:**
 - 2.1 Theoretical farmers' awareness raising lectures, thematic circles
 - 2.2 Practical test of recommendations
 - 2.3 Monitoring and review of results
 - 2.4 Aquainting with examples of good practices
- **Public promotion:**
 - Articles in professional journals (Kmečki Glas, Zelena dežela, Kmetovalec)
 - Articles and contributions in local newspapers and on the radio
 - Press releases for journalists at a press conference



EXPERIENCES AND RECOMMENDATIONS

- Successful is **individual work** with farmers or in the **form of interest circles** (groups)
- Important for farmers is **to see best practices and experiments**
- **Idea** for the project **must come from the practice**, “from the bottom-up” approach
- **Equality of group members** and the corresponding **financial support** are important
- **Experienced coordinator** of the group and **responsible partners** are the key of success
- **Agricultural consultants** are good group coordinators and a link between professionals and farmers (farmers know and trust them, implementation is easier and more successful)
- At the beginning it is necessary to **set clear objectives, share tasks** and **set deadlines** for implementation
- **Regular communication** between partners to determine how to run the project, solve the problems and determine critical points is crucial



**THANK YOU FOR YOUR
ATTENTION!**

