

NATIONAL AGRICULTURAL AND FOOD CENTRE

Inovations and knowledge transfer in agriculture and food

SWG AKIS, 27-28 March, 2017, Bratislava

SK Agriculture, Food and Forestry Research – main research institutions

National Agricultural and Food Center – NPPC

www.nppc.sk

National Forestry Centre - NLC www.nlcsk.sk

Slovak Agriculture University Nitra www.uniag.sk







Close collaboration with scientific and academic institutions

Innovation addressed by RIS 3 SK

Vision

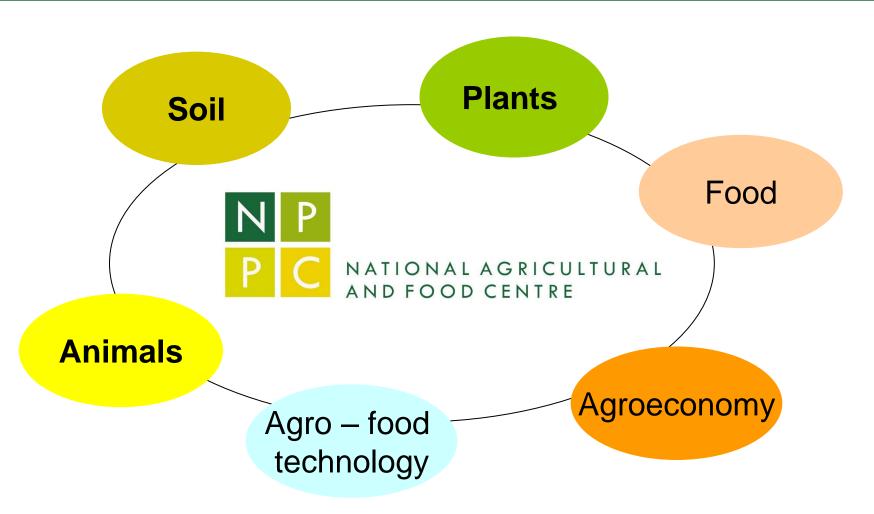
- "To drive a structural change of the Slovak economy towards growth based on increasing innovation capability and R&D excellence to promote self-sustaining growth in income, employment and standard of living."
- The priorities for RIS 3 implementation for the period of 2014-2020 have been elaborated in five areas of specialization from the point of view of available research and development capacities in compliance with RIS3 with a link to the areas of economic specialization and perspective areas of specialization.

RIS 3 SK areas of specialization

- Material Research and Nanotechnologies
- Information-Communication Technologies
- Biotechnologies and Biomedicine
- Agriculture and the Environment Including Modern, Environmentally-Friendly Chemical Technologies
- Sustainable Energy Industry and Energy

High potential in biomaterials, biotechnologies, agriculture, food, forestry, chemical technologies, bioenergy....,

Organizational changes in agri-food research in 2014



SOIL SCIENCE AND CONSERVATION RESEARCH INSTITUTE

Gagarinova 10, 827 13 Bratislava, Slovakia, director: doc. RNDr. Jaroslava Sobocká, CSc., j.sobocka@vupop.sk

RESEARCH INSTITUTE OF PLANT PRODUCTION

Bratislavská cesta 122, 921 68 Piešťany, Slovakia, director: Ing. Pavol Hauptvogel, PhD., hauptvogel@vurv.sk

RESEARCH INSTITUTE FOR ANIMAL PRODUCTION NITRA

Hlohovecká 2, 951 41 Lužianky, Slovakia, director: doc. Ing. Jaroslav Slamečka, CSc., slamecka@vuzv.sk

AGROECOLOGY RESEARCH INSTITUTE

Špitálska 1273/12, 071 01 Michalovce, Slovakia, director: RNDr. Ján Hecl, PhD., hecl@minet.sk

GRASSLAND AND MOUNTAIN AGRICULTURE RESEARCH INSTITUTE

Mládežnícka 36, 974 21 Banská Bystrica, Slovakia, director: Ing. Milan Túroci, turoci@vutphp.sk

FOOD RESEARCH INSTITUTE

Priemyselná 4, P.O.Box 25, 824 75 Bratislava 26, Slovakia, director: doc. RNDr. Peter Siekel, CSc., siekel@vup.sk

RESEARCH INSTITUTE OF AGRICULTURAL AND FOOD ECONOMICS

Trenčianska 55, 824 80 Bratislava, Slovakia, director: doc. Ing. Štefan Buday, PhD., stefan.buday@vuepp.sk

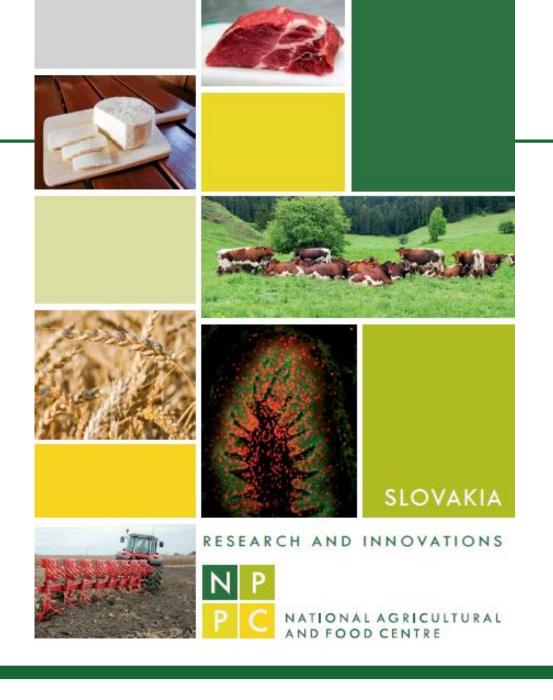
AGRICULTURAL TECHNICAL AND TESTING INSTITUTE

900 41 Rovinka, Slovakia, director: Ing. Štefan Pepich, PhD., riaditel@tsup.sk

Objective of the NAFC is to offer complex objective information, advice, services to specialist and nonprofessional public and interconnection of research teams in the sphere of agricultural and food sciences and related fields of science.

TURN TO US WITH CONFIDENCE IN THE FUTURE TOO!

NPPC, Hlohovecká 2, 951 41 Lužianky - Slovakia Phone: +421 37 65 46 122, E-mail: nppc@nppc.sk, www.nppc.sk



MISSION

Comprehensive research and gathering of knowledge in the sustainable use and protection of natural resources, especially soil and water resources for crop production and animal husbandry, quality and safety, innovation and competitiveness of food and non-food products of agricultural origin, productive and non-productive impact of agriculture on the environment and rural development and the transfer of knowledge from agricultural and food research to end users.

National Agricultural and Food Centre

FACTS AND NUMBERS:

- Unique research organization of the Ministry of Agriculture and Rural Development
- 8 research institutes
- Experimental facilities

FOCAL ISSUES:

- Sustainable agriculture and food production
- Regional development
- Competitiveness
- · Quality of life
- Environment
- Bioeconomy



NPPC

- Strong research backround (270 sci staff)
- Qualified experts extension, advisory activities
- Services, analyses, studies
- Experiments per order
- Training for practice, education
- Advisory activities
- Expert work for the ministry,..., EC working group (institutional money and expert tasks)

Activities and tools supporting AKIS

- Research and innovations (national and international, H2020,)
- Research in cooperation with agro-food industry (ESIF – Research and Innovations, APVV agency, INTERREG)
- Advisory activities
- Training/educational activities (RDP, end users demands)
- Expert work for the ministry,..., EC working group (institutional money and expert tasks)



Innovations and knowledge transfer activities



AKIS activities - examples

Bioskoh

(large international H2020, BBI JU)

KLIMAPARK

(Cross-border INTERREG)

Econmodmilk

(Institutional application)

Agrofilm, Agrokomlex

(festival and fair exibition)





BIOSKOH

Innovation Stepping Stones for a Novel European Second Generation Bioeconomy

Showcasing a sustainable, circular bioeconomy, BIOSKOH will realise a flagship 55 kton second generation biorefinery for Europe.

Using its 'Innovation Stepping Stones', the project will transform a brownfield industrial site in eastern Slovakia to produce cellulosic ethanol for EU biofuel mandates. Eleven partners from seven EU member states represent the full value chain:

- Land owners
- Feedstock producers
- Supply chain experts
- · Agronomical researchers
- Leading biotech companies
- Innovative technology providers
- Plant constructors and operators









...two stage investment process and development path to realise the largest (110 kton) second generation (2G) biorefinery in Europe. It starts from a brownfield industrial site in the eastern part of the Slovak Republic to realise the 1st stage Flagship plant to produce 55 kton of cellulosic ethanol per year for EU bio-fuel mandates. Partners include the full value chain starting from land owners and feedstock producers, supply chain experts and an agronomical research partner to set-up a new biomass value chain exploiting large amounts of currently unused crop residues...

BIOSKOH steps

4 Innovation Stepping Stones

- Superior biorefinery technology
- A brownfield approach, improving regional infrastructure
- Industrial symbiosis and energy autonomy
- Abundant, secure and sustainable biomass

2 Development Phases

- A flagship 55 kton second generation biorefinery will produce cellulosic ethanol for EU biofuel mandates
- Paving the way for second stage investment and scale-up to 110 kton – the largest biorefinery in Europe

The project will also explore emerging bio-based materials, such as:

- Lignin by-products from the BIOSKOH process
- Bio-ethylene

climatepark

- The overall **objective** of the Climate Park project is to implement practical activities in the field of climate protection (afforestation, habitat restoration) on Szentendre Island, and to complement these with environmental education and dissemination activities in Hungary and Slovakia.
- Two local authorities from Szentendre Island (Szigetmonostor and Pócsmegyer), an international environmental organisation (the Regional Environmental Center), a university (Corvinus University of Budapest) and a Slovakian research institute (National Agricultural and Food Centre) form the consortium implementing the Climate Park project.
- 2013-2015. Supported by the European Union. The project is implemented under the Hungary-Slovakia Cross-Border Cooperation Programme 2007-2013 (HUSK/1101/2.2.1/0158).

http://climatepark.rec.org/













NATIONAL AGRICULTURAL AND FOOD CENTRE

RESEARCH INSTITUTE FOR ANIMAL PRODUCTION NITRA



0,00

EkonMOD milk

Development of the decision support tool for dairy farm management including a farmfocused calculator for emissions from dairy farm



Development of the decision support tool for pig farm management including a farm-focused calculator for emissions from pig farm



What are we doing in practice-oriented

research
of GHG and
ammonia?

"Bringing tailored decision support tools for farm management to remove bottlenecks to the delivery of practice-oriented research to end-users"

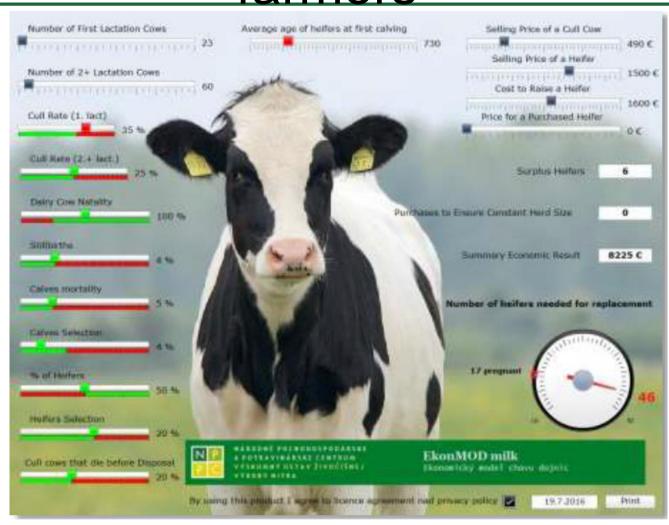
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contact: zahradnik@vuzv.sk,+421 37 6545 371

Econmodmilk – tools for dairy farmers



Inspirational Ideas

NEWSLETTER AUGUST 2016



Decision support tool for dairy farm management

Following long-term cooperation between dairy farms and researchers in Slovakia, a new user-friendly decision support tool for dairy farm management has been developed. The application is a handy way for the farmer to improve decision-making regarding the dynamics of the dairy herd structure and market volatility.

A handy app to face a volatile market

Thedevelopment of this tool *EkonMOD milk* was led by researcher Miroslav Záhradník from the National Agricultural and Food Centre (Slovakia). He says "Market volatility means that 'optimal decisions' for an individual dairy farm are constantly changing. Even the on-farm conditions change rapidly." The competitiveness and sustainability of dairy farms

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(Cross-border INTERREG)

Econmodmilk

(Institutional application)

Agrofilm, Agrokomlex

(festival and fair exibition)



Promotion and education – Agrokomplex fair



































ÚSTAVY NPPC

- Výskumný ústav pôdoznalectva a ochrany pôdy
- Výskumný ústav rastlinnej výroby
- Výskumný ústav živočíšnej výroby Nitra
- Výskumný ústav agroekológie
- Výskumný ústav trávnych porastov a horského poľnohospodárstva
- Výskumný ústav vinohradnícky a vinársky
- Výskumný ústav potravinársky
- Výskumný ústav ekonomiky poľnohospodárstva a potravinárstva
- Technický a skúšobný ústav pôdohospodársky



Aktuality

Pozývame Vás na odborný seminár Starostlivosť o raticovú zver, ktorý sa bude konať dňa 19.05.2016 na Okresnom úrade v Žarnovici.

Pozvánka - TU

6.apríla 2016 bola podpísaná Dohoda o spolupráci medzi Národným poľnohospodárskym a potravinárskym centrom a Ústavom zemědělské ekonomiky a informací

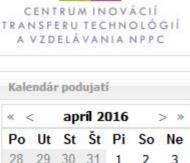
Fotografie - TU

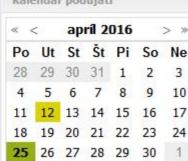
Foto

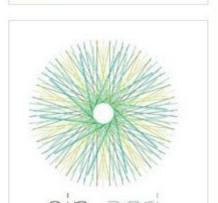
Výskumný ústav vinohradnícky a vinársky je od 1.3.2016 súčasťou Výskumného ústavu potravinárskeho a naďalej zabezpečuje služby a analýzy pre vinárov a vinohradníkov.

Čítať ďalej...

18.2.2016 sa v priestoroch NPPC - VÚŽV Nitra konal 5. ročník medzinárodnej konferencie "Významné aspekty chove jeleňovitých".









Thank you for your attention! Cooperate with us

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Innovation projects and activities





31st international film festival 31. medzinárodný filmový festival 28.9. – 2.10. 2015 nitra - lužianky - zvolen www.agrofilm.sk



festivalové miesta:









