



# FEED-TO-FOOD

Project full title:

**REINFORCEMENT OF FEED TO FOOD RESEARCH CENTER AT  
INSTITUTE FOR FOOD TECHNOLOGY OF THE UNIVERSITY OF NOVI SAD**

Project acronym: **FEED-TO-FOOD**

Type of funding scheme: **Coordination and Support Actions (Support)**

Work program topics addressed: **FP7-REGPOT-2007-3**

Grant agreement no: **207043**

Project duration: **36 months (01.02.2008-31.01.2011)**

Project coordinator: **dr Jovanka Levic, FINS**

Project officer: **Dr Irmela Brach**

Budget: **944.072 Euro**

Novi Sad, 19.10.2010.



**FOOD-CLUSTER initiative**





# FEED-TO-FOOD

The project FEED-TO-FOOD has an explicit strategic importance.

Agriculture is one of the principal business affairs in Serbia and WBC region.

Agriculture and Food is one of seven national R&D priorities defined in “Scientific and Technological Development Strategy of the Republic of Serbia 2009 to 2014”. Knowledge advancement in sustainable management, production and use of biological resources and development of new technologies and products in the food processing industry are some of priority topics in this strategy fully compatible with the directions of the EC.

FEED-TO-FOOD project is in conformity with general EU approach, its foreign and development policies, aimed, above other things, at promoting and enhancing research organizations in West Balkan Countries (WBC) and other countries in the region within the process of their preparation for accessing EU.



## What we have at the beginning ?



# FEED-TO-FOOD

Centre for FEED AND ANIMAL PRODUCTS (FAP), as an organizational unit within the Institute for Food Technology (FINS) at the University of Novi Sad (UNS), is the only scientific-research unit specialized for a wide range of issues related to the feed technology in Serbia and there is no similar organization in the former-Yugoslavia Republics, other Western Balkan countries (WBC) and Member States (MS) in the region.

**43 years long tradition**

**Recognition in the region**

**Experienced and motivated research team**

**Good references**

**Important research area**



# Project objectives



## FEED-TO-FOOD

Planned project programmes forms a coherent set of coordination, training, dissemination and development actions directly aimed at:

- Reinforcement of FAP into the modern FEED-TO-FOOD Research Centre upgraded with Pilot Plant equipment and new researchers capable for investigation in feed manufacturing technology.
- Creation of network for cooperation between research teams, with scientific interest concerned with the feed to food production chain.
- Improvement of research capacities and filling the gap in experience in how to take part in complex and long term research EU projects



# Project partners - beneficiaries



## FEED-TO-FOOD



University in Novi Sad  
INSTITUTE FOR FOOD TECHNOLOGY  
RESEARCH CENTRE „FEED-TO-FOOD“

Novi Sad – Srbija

<http://www.fins.uns.ac.rs>

Team leader and project coordinator: dr Jovanka Levic

E-mail: [jovanka.levic@fins.uns.ac.rs](mailto:jovanka.levic@fins.uns.ac.rs)



INTERNATIONAL FORSCHUNGSGEMEINSCHAFT FUTTERMITTELTECHNIK, (IFF)

Braunschweig - Germany

<http://www.iff-braunschweig.de>

Team leader: dr Alexander Feil

E-mail: [iff@iff-braunschweig.de](mailto:iff@iff-braunschweig.de)



INSTITUTE NATIONALE DE LA RESEARCHE  
AGRONOMIQUE (INRA),

Clermont-Ferrand /Theix – France

<http://www.international.inra.fr>

Team leader: Dr. Dominique Bauchart

E-mail: [dominique.bauchart@clermont.inra.fr](mailto:dominique.bauchart@clermont.inra.fr)



NATIONAL RESEARCH-DEVELOPMENT INSTITUTE FOR ANIMAL BIOLOGY AND NUTRITION (IBNA)

Balotesti – Romania

<http://www.ibna.ro>

Team leader: dr Catalin Dragomir

E-mail: [catalin.dragomir@ibna.ro](mailto:catalin.dragomir@ibna.ro)



INSTITUTE OF ANIMAL SCIENCE OF LVA (IAS)

Baisogala-Lietuva

<http://www.lgi.lt>

Team leader: dr Violeta Juskiene

E-mail: [violeta@lgi.lt](mailto:violeta@lgi.lt)

Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative





# Work program



# FEED-TO-FOOD

Programme is divided into 5 Work packages

WP-1	Project Management
WP-2	Reinforcement of FEED-TO-FOOD Research Potentials
WP-3	Developing and unlocking of Research Potentials
WP-4	Knowledge Transfer
WP-5	Dissemination and promotion activities





## WP1 Project management



# FEED-TO-FOOD

**Management activities are the unavoidable prerequisite steps in FEED-TO-FOOD project realization.**

**The main objective of FEED-TO-FOOD project management is to ensure the basic infrastructure of the CSAs for coordination and administration and to allow the Research Center FEED-TO-FOOD to reinforce as planned on time and within budget.**

**To achieve all project objectives going through work packages and each task we organized and manage all activities and established good cooperation between project beneficiaries.**



# WP2 Reinforcement of FEED-TO-FOOD Research Potentials



## FEED-TO-FOOD

### Objectives:

Improving the RTD capacity of FEED-TO-FOOD Research Centre in terms of:

### 1. UPGRADING AND RENEWAL S&T RESEARCH EQUIPMENT



Fine grinder



Mixers



Pellet press



Extruder



Vacuum coater



Cooler/Dryer



Steam generator





## WP2 Reinforcement of FEED-TO-FOOD Research Potentials



# FEED-TO-FOOD

Reinforced Pilot Plant Laboratory was opened by prof. Viktor Nedović, assistant minister for international cooperation and European integration in the Ministry of Science and Technological Development of Serbia at the inauguration ceremony held on 29<sup>th</sup> of September during the 1<sup>st</sup> FEED-TO-FOOD project Workshop.



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative





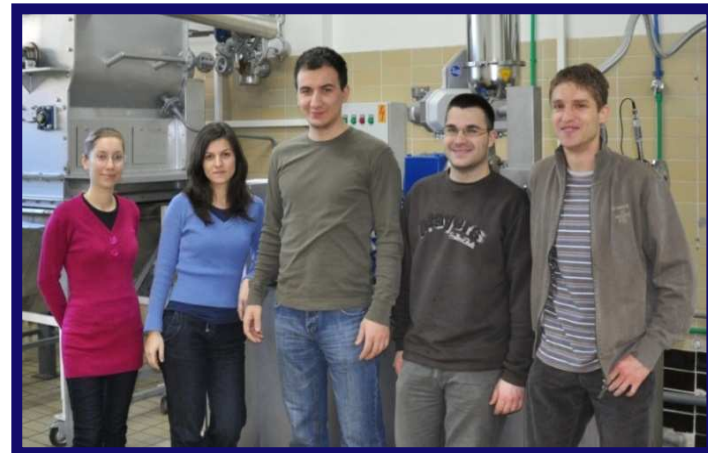
## WP2 Reinforcement of FEED-TO-FOOD Research Potentials



# FEED-TO-FOOD

2. Development of S&T human potential and opening the opportunity for young researchers to be hired and later employed by the centre and thus prevent “brain-drain”.

**4 Young researchers** chosen as the best postgraduate students are hired to work on the activities of FEED-TO-FOOD project  
**Young technician** is hired to work and trained for maintaining a specific new pilot plant equipments.





# WP3 Developing and unlocking research potential



## FEED-TO-FOOD

International board meetings were organized in Brussels, Mersin, Novi Sad and every time we met at another events

Encourage the return of nationals having left the country

Dr Dragan Palic is encouraged to return in Feed to Food Research Center as experienced researcher in the field of feed chemistry by the EC funding of FEED-TO-FOOD project.



Exchanging research experience through short stays at MS's Research institutes IFF and INRA:

### Short stay in IFF- Germany



### Short stay in INRA- France



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative







# WP3 Developing and unlocking research potential



# FEED-TO-FOOD

## Short stay in IAS- Lithuania



## Short stay in IBNA- Romania



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative





## WP3 Developing and unlocking research potential

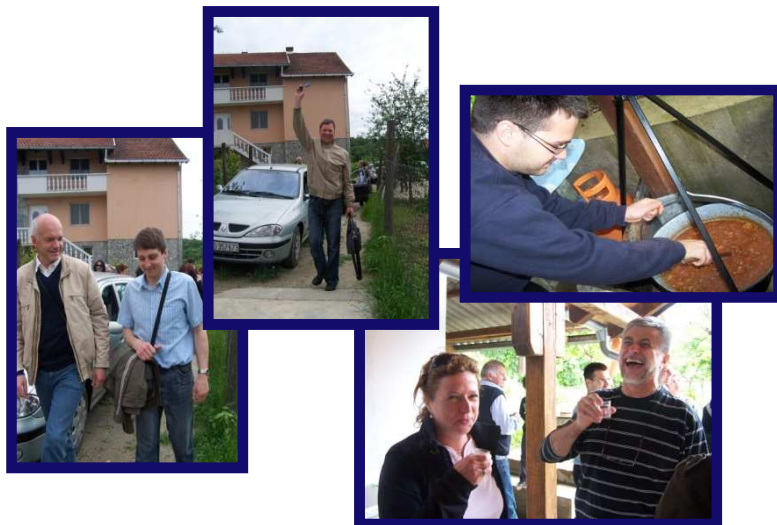


# FEED-TO-FOOD

- Exchanging research experience and know-how through secondments of research staff

Researcher from IFF-Germany and IAS-Lithuania, spent one to three weeks in Research Center FEED-TO-FOOD

Catalin Dragomir from IBNA, Rromania visited FINS



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative







## WP3 Developing and unlocking research potential



# FEED-TO-FOOD

### 1. Scientific visits and training for researchers from FEED-TO-FOOD Research Centre in EU Institutes

MSc. Olivera Đuragić, research assistant at FINS Research Centre FEED-TO-FOOD, spent 4 weeks in IFF Braunschweig



New hired young researchers from FINS were at two weeks training in IFF-Braunschweig

Ivana Sedej and Anamarija Mandić visited INRA



Dušica Ivanov, Tatjana Tasić and Predrag Ikonić Were at 1,5 month training in INRA

Radmilo Čolović and Đuro Vukmirović spend 1,5 month in IFF-Braunschweig



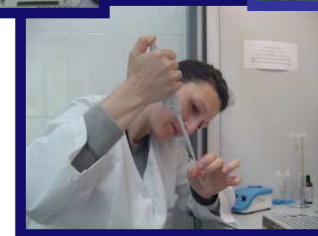


# FEED-TO-FOOD

Bojana Kokić, Nedeljka Spasevski, Dušica Ivanov, Radmilo Čolović and Đuro Vukmirović spent 2 weeks in IBNA-Romania



Bojana Kokić and Nedeljka Spasevski spent 1 month at IAS in Baisogala, Lithuania



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative





## WP3 Developing and unlocking research potential



# FEED-TO-FOOD

- As the result of international cooperation Coordinator (Research Center **FEED-TO-FOOD**) and beneficiaries no 2 (IFF) becomes the members of European Feed Technology Centre (**EUFETEC**).
- Eminent EU Institutes, members of EUFETEC (Ghent University-Belgium, and Wageningen University-Neatherland) accepted us as a research project participants in **FP7 KBBE-209-2-3-03: Sustainable-Food and Feed processing, Field2through** - An integrated sustainability assessment of European feed production. That first proposal submitted at the end of the first project year have a good score but it was ranged on the second place; we missed 0.5 point to get EU financial support.
- That did not discourage us and we prepared new research consortium within EUFETEC, and make a new succesful but not supported proposal trough **KBBE-2010-2-4-03 Quality and Safety aspect of Feed, Safe Feed for Safe Food-BENEFEEED**
- By coordination of Austrian Agency we get project **Strengthening cooperation in food safety, Safe Food for Europe-FOODSEG**
- Research Center **FEED-TO-FOOD** take opportunity to take part in the **South East Europe Transnational Programme**. We past first stage evaluation and hope that evaluation in second stage will be also good.





## WP4 Knowledge Transfer



# FEED-TO-FOOD

### Objectives

#### Knowledge transfer through Workshops and Round-table

- **1<sup>st</sup> Workshop “MODERN TRENDS IN PRODUCTION CHAIN FROM FEED TO FOOD”** was organized last year
- **2<sup>nd</sup> Workshop “EXTRUSION TECHNOLOGY APPLICATIONS IN FEED AND FOOD INDUSTRY”** is started today.
- **Roundtable discussion regarding legislation in the feed production is announced and it will be organized before the end of the project.**



## WP4 Knowledge Transfer



# FEED-TO-FOOD

1<sup>st</sup> Workshop “Modern Trends in Production Chain From Feed to Food” were organized and held in September 29-30 and October 01, 2009 in Novi Sad in order to facilitate knowledge transfer as well as to promote and disseminate FEED-TO-FOOD project activities

Speakers from more than 20 countries gave research and technical presentations on latest trends in feed technology quality and safety.

In these three days, over 150 visitors, working in companies, research institutes, laboratories and governmental organizations, had chance to get introduced with latest scientific achievement, new ideas for future research or industrial activities.



Novi Sad, 19.10.2010.







## WP4 Knowledge Transfer



# FEED-TO-FOOD

Connection between experts and scientific workers, as well as producers, was one of the most important additional goal of these meetings.

Other organizers, project beneficiaries, eminent guests and all participants must also be mentioned because they contributed to the success of these meetings.

A proceeding, consisted of forty five papers, was printed, in both, Serbian and English language. CD with proceedings was prepared for web site and are distributed together with 2<sup>nd</sup> year leaflet as it's constituent part.



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative





## WP5 Dissemination and promotional activities



# FEED-TO-FOOD

### Objectives

- Results of the Project will be presented at conferences at national and international level, and through food-cluster initiative.
- Promotions of the developed FEED-TO FOOD- RESEARCH CENTRE and the results of knowledge transfer and networking of all beneficiaries through workshops, roundtables, public presentations, communication with stakeholders etc.



## WP5 Dissemination and promotional activities



# FEED-TO-FOOD

Throughout the reporting period all project beneficiaries takes different activities to engage with public and the media about the project objectives and results and to highlight the European Community financial support.

Some of promotional activities have been disseminated through other meetings and events supported not only by EU but from other sources of funding.

A few project presentations were made in Serbia, Germany, Romania, Lithuania, Latvia, Bulgaria and Belgium. The project presentations gave a short overview of project objectives and activities, the partners, EU funding opportunities for research, development and innovation etc.

Project Website, [www.feed-to-food.uns.ac.rs](http://www.feed-to-food.uns.ac.rs) is up to date as a tool to disseminate information about FEED-TO-FOOD project and main activities. Also, a link toward project website was posted on the websites of FINS, IBNA and IFF Institutes.



# FEED-TO-FOOD

Roll-up banner of FEED-TO-FOOD project was prepared and displayed and first leaflets were distributed at number of national and international conferences. EC also published this leaflet and distribute it on the stand of FOOD CLUSTER INITIATIVE at Research Connection Conference held in Prague. New Leaflets containing information about the progress of the FEED-TO-FOOD project were printed at the end of the 1<sup>st</sup> project year and distributed to project beneficiaries for further distribution. CD with Proceedings from 1<sup>st</sup> FEED-TO-FOOD project Workshop is the constituent part of Leaflet and it will be distributed together at meetings and conferences to researchers, authorities, EC, FOOD-CLUSTER meetings participants, WIRE conference, SMEs, NGO's etc.

1<sup>st</sup> FEED-TO-FOOD Workshop deserved much media attention. Numerous television programs, radio and newspapers have devoted considerable time and space to this event, young researchers, recruited nationals and FEED-TO-FOOD project generally.







# WP5 Dissemination and promotional activities



# FEED-TO-FOOD

## Week of Innovative Regions in Europe Granada



**WIRE: Week of Innovative Regions in Europe – Granada, 15<sup>th</sup> – 17<sup>th</sup> March 2010**

RESEARCH POTENTIAL: REGPOT-2007-3 GRANT AGREEMENT: No 207043

ACRONYM: **FEED-TO-FOOD**

FULL TITLE OF THE PROJECT:  
**REINFORCEMENT OF FEED TO FOOD RESEARCH CENTER AT INSTITUTE FOR FOOD TECHNOLOGY OF THE UNIVERSITY OF NOVI SAD**

START/ENDING DATE: 01.02.2008/31.01.2011

**ENTITY DETAILS**  
UNIVERSITY OF NOVI SAD  
INSTITUTE FOR FOOD TECHNOLOGY (IFNS)  
RESEARCH CENTER FEED-TO-FOOD  
<http://www.feed-to-food.org>  
Novi Sad - Autonomous province of Vojvodina - SERBIA  
FIELD OF ACTIVITY (UNESCO code)  
• Animal feed (3309.02)  
• Veterinary science – Nutrition (3109.06)  
• Nutrition sciences (3206)  
• Industrial technology (3351)  
• Food technology (3308)

**SWOT LINKED TO ACTION PLAN**

**STRENGTHS**

- Unique research center in WIRE
- Good research experience
- New equipment
- New young researchers
- Strong networking at EU level
- Participation in Food Cluster initiative

**WEAKNESSES**

- Unsufficient visibility of institute in EU
- Lack of experienced researchers
- Lack of domestic financial support
- Unsufficient SME's investments in R&D

**OPPORTUNITIES**

- Agreements to set up funds
- Status of EU associated country
- Increasing demands for food and feed
- Chance to become center of excellence
- New technologies in feed to food chain

**THREATS**

- Unfavorable political situation in region
- World financial crisis
- Brain drain
- Slow economical development of Serbia
- Unharmonized national and EU regulations

**MAIN OBJECTIVES OF THE PROJECT**

- Choose SMT cooperation list
- Western Balkan Countries
- EU member States
- EU regions of convergence
- Improving research capacities
- Equipment
- Researchers
- Networking with EU research institutions
- Gaining experience in how to take part in EU research projects

**COLLABORATIVE ENTITIES OF THE PROJECT**

RESEARCH INSTITUTE OF FEED TECHNOLOGY (RIFT)  
Bismarckstrasse 14  
41000 Novi Sad, Serbia  
Tel: +381 21 429 11 11  
E-mail: [info@rifi.rs](mailto:info@rifi.rs)

NATIONAL INSTITUTE FOR AGRICULTURAL RESEARCH (INRA)  
Domovinski put 15  
11000 Belgrade, Serbia  
Tel: +381 11 363 11 11  
E-mail: [domovinski@inra.rs](mailto:domovinski@inra.rs)

NATIONAL RESEARCH-DEVELOPMENT INSTITUTE FOR ANIMAL BREEDING AND NUTRITION (DIRA)  
Batajnici - Beograd  
Tel: +381 11 363 11 11  
E-mail: [dira@inra.rs](mailto:dira@inra.rs)

INSTITUTE OF ANIMAL SCIENCE OF USA (IAS)  
Batajnici - Beograd  
Tel: +381 11 363 11 11  
E-mail: [ias@inra.rs](mailto:ias@inra.rs)

**EXPECTED IMPACT**

- Developed researchs potential
- Visibility at EU level
- New cooperations
- Gain of excellent knowledge
- Participation in EU research projects
- Appearance of brain drain
- Promotion of scientific excellence

Project coordinator: Dr Jovanka Levic  
E-mail: [jovanka.levic@ifns.uns.ac.rs](mailto:jovanka.levic@ifns.uns.ac.rs)  
Project website: [www.feed-to-food.uns.ac.rs](http://www.feed-to-food.uns.ac.rs)

Presidencia Española de la Unión Europea

Novi Sad, 19.10.2010.







## WP5 Dissemination and promotional activities



# FEED-TO-FOOD

## FOOD-CLUSTER INITIATIVE

All **FEED-TO-FOOD** project beneficiaries except **INRA** Institute are active members of **FOOD CLUSTER INITIATIVE** of EC, which helps us to build partnership across the Europe, get information, exchange knowledge and experience, and improve our future activities through regional food sector networking. **FEED-TO-FOOD** project beneficiaries took part in 5 Food Cluster Meetings held in Brussels, Mersin, Wageningen and Thessaloniki





# FEED-TO-FOOD

Feed to Food Research Center proposed **FOOD CLUSTER INITIATIVE** as one of the topics for The European Research Information event: “Towards Integration into the European Research Area” which was held in Belgrade on 29<sup>th</sup> of June 2009. The JRC, the Commission's Research Directorate General and the Serbian Ministry of Science and Technological Development jointly organized this high-level conference with more than 400 participants. Vice-prime minister and Minister for Science and Technological Development Božidar Djelić and the European Commissioner for Research Janez Potočnik addressed the participants during the Opening Statements.



Prof dr Xavier Gelink coordinator of **FOOD CLUSTER INITIATIVE** took part in EC delegation and gave presentation “Pathways to develop a cluster approach: Experiences from the EU Food Cluster”. During this event Prof Gelink have a meeting with Vice-prime Prof Victor Nedovic, Assistant minister for international cooperation and European integration in Ministry of Science and Technological Development .



# FEED-TO-FOOD



Taix – Novi Sad



PTEP - Divčibare



Research Connection Prague



Sofia



Stara Zagora





# FEED-TO-FOOD

THANK YOU FOR  
YOUR ATTENTION



Novi Sad, 19.10.2010.



FOOD-CLUSTER initiative

