

### UPSCALING THE MEAT, DAIRY AND BREWERY PILOT PLANTS AT THE FACULTY OF FOOD SCIENCE AND ENGINEERING- AN INFRASTRUCTURE PROJECT DEVELOPED BY DUNAREA DE JOS UNIVERSITY OF GALATI

25<sup>th</sup> of May 2012 Novi Sad, Serbia



Inițiativă locală. Dezvoltare regională.







POR Axa 3.4.

### "Dunarea de Jos" University of Galați





Inițiativă locală. Dezvoltare regională.

#### UNIUNEA EUROPEANĂ



PENTRU DEZVOLTARE REGIONALĂ









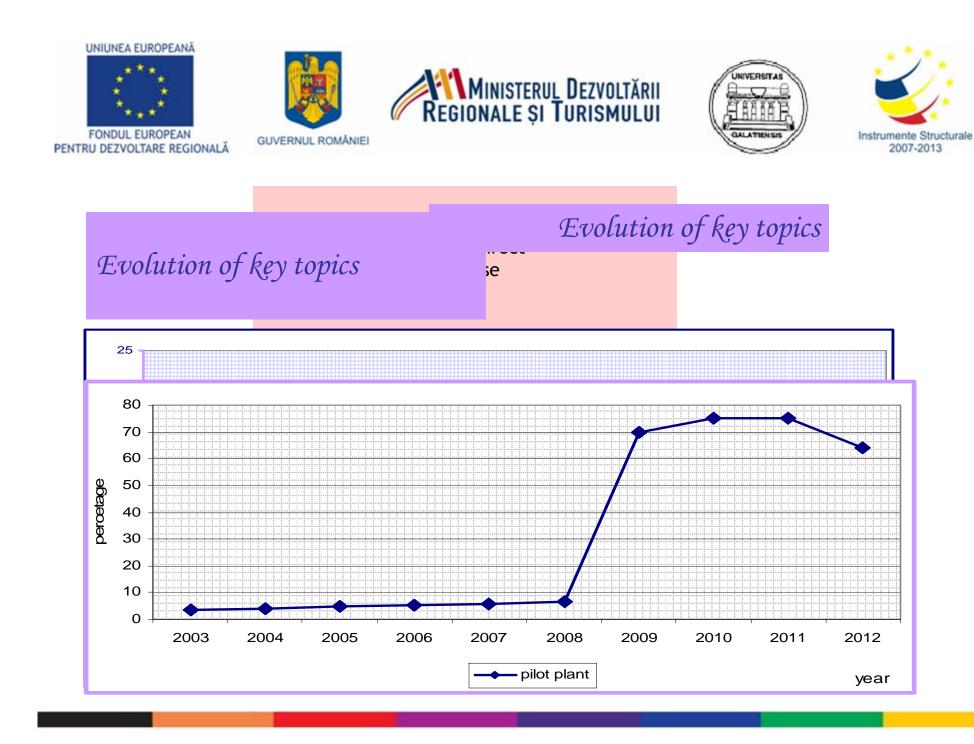
Romania Galati **Faculty of Food Science and** Engineering

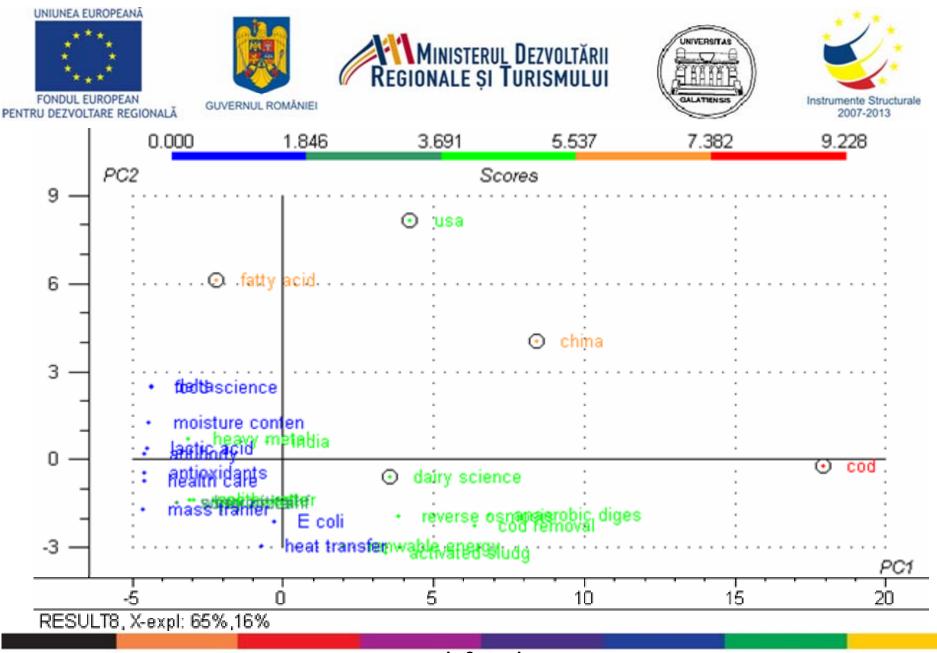




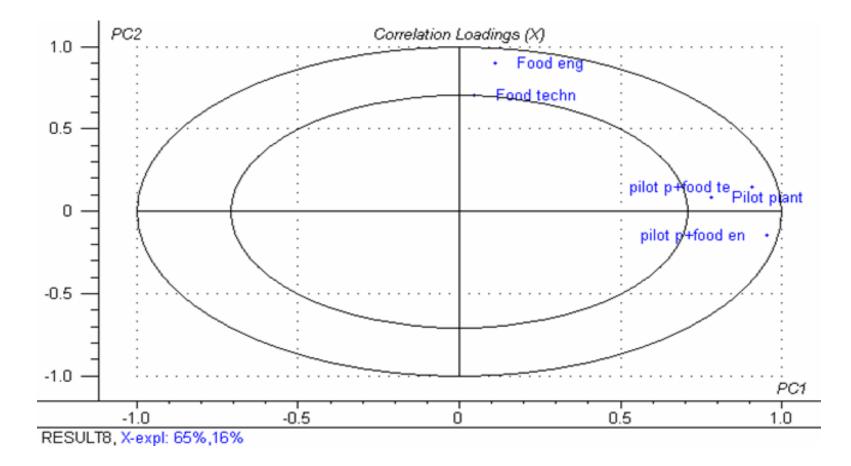
Inițiativă locală. Dezvoltare regională.













# Priority 3 – Infrastructure

**Specific objective** is the improvement of the quality of the **educational infrastructure** in training centers, schools and **universities**.



Inițiativă locală. Dezvoltare regională.



<u>General objective</u> improvement of the applied research infrastructure at the Faculty of Food Science and Engineering in Galați, Dunărea de Jos University

**Development of a food engineering training center in the South East region to** help the development of the sustainable economical growth **in the food sector** 



Inițiativă locală. Dezvoltare regională.

UNIUNEA EUROPEANĂ









### Project Budget 2010-2013

NR. CRT.	FUNDING SOURCE	Cost (euro)	
I	Total value of the project	3.273.252	
a.	Other costs	2996	
b.	Total eligible costs	2.747.636	
С.	VAT	522620	
II	Contribution:	57.949	
a.	Contribution of the University (2%)	54.953	
b.	Other contributions to the project	2996	
с.	Project income*	0.00	
Ш	VAT	2.247.266,61	
IV	EU funding-Structural contribution	2.692.683	



Inițiativă locală. Dezvoltare regională.











No	Team members	Responsability
1	Conf dr. ing. Daniela Borda	General manager / Dairy pilot plant
2	Prof dr. ing. Popa Corneliu	Scientific advisor / Technological lab.
3	Prof. dr. ing. Alexe Petru	Economic director / Meat pilot plant
4	Şef lucr. dr. ing. Gitin Liliana	Executive Director / Minimal processing
5	Sef lucr. dr. ing. Stanciuc Nicoleta	Quality management
6	Prof dr. ing. Hopulele Traian	Brewery
7	Prof dr. ing. Nicolau Anca	Dissemination
8	Conf. dr. ing. Stanciu Silvius	Purchasing
9	Conf. dr. ing. Banu Iuliana	Specialist
10	Sef lucr. dr. ing. Vasile Aida	Specialist
11	Şef lucr dr. ing. Aprodu Iuliana	Specialist
12	Asis. drd. ing. Bleoanca Iulia	Specialist
13	Asis. drd. ing. Neagu Corina	Specialist

14	Asis dr. ing. Constantin Oana	Specialist
15	Prep. dr. ing. Bonciu Camelia	Specialist
16	Prep. drd. ing. Dumitrașcu Loredana	Specialist
17	Prep. drd. ing. Mocanu Dănuț	Specialist
18	Prep. drd. ing. Andronoiu Doina	Specialist
19	Drd. ing. Ciuciu Ana-Maria	Specialist
20	Drd. ing. Manțoc Livia	Specialist
21	Drd. Ing. Cotârleț Scantee Mihaela	Specialist
22	Drd. ing. Coman Gigi	Specialist
23	Dr. ing. Stanciu Violeta	Specialist
24	Sef lucr dr Drăgan Aurelian	Specialist
24	Ing. Diaconu Georgian Gabriel	Engineer



Inițiativă locală. Dezvoltare regională.





# Technological & Educational Research Laboratory

## >purchasing applied research equipment

> upscaling the existing structure with equipment intended for educational purposes



Inițiativă locală. Dezvoltare regională.



INIVERSIT ALATIENS



Supplier: NATEX Prozesstechnologie GesmbH, Ternitz, AUSTRIA

Characteristics:

- maximum pressure 550 bar
- pressure in separator 1: 250 bar, separator 2: 100 bar
- total volume of extractor 2 litri
- extraction temperature: 40 60°C



Inițiativă locală. Dezvoltare regională.







### Supplier: Resato International, The Netherlands

Technical characteristics: -max. pressure 10000 bar -four vessels of 100 cc -temperature -20-120°C

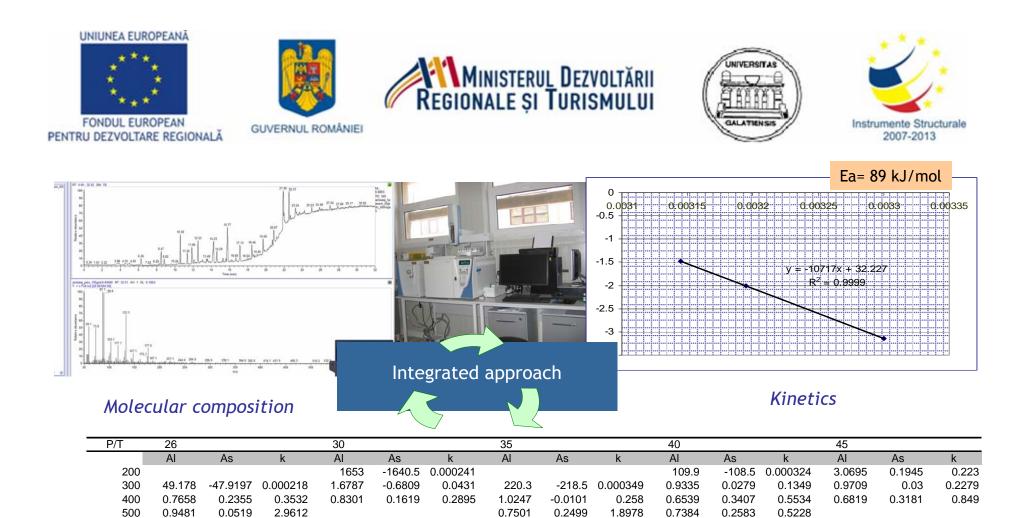
Studies:

- Enzyme inactivation studies : inactivation of PPOs and PODs from peach puree using PATP
- Characterization of the multi-polymeric packaging material used for HPP treated foods
- inactivation kinetics of different microorganisms PATP ( Penicillium)

Integrated approach









600

0.8535

0.1465

0.6372

Texture



Inițiativă locală. Dezvoltare regională.

0.7384





### Equipment for

> dairy pilot plant

> meat pilot plant

> brewery pilot plant



Inițiativă locală. Dezvoltare regională.



Dairy pilot plant: construction work for the rooms and the hygienic flow







Inițiativă locală. Dezvoltare regională.

UNIUNEA EUROPEANĂ



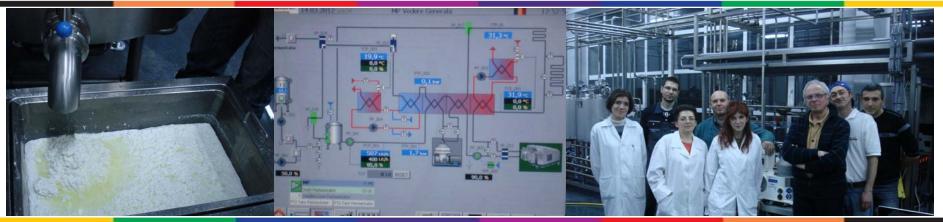
PENTRU DEZVOLTARE REGIONALĂ















### Meat pilot plant

- > upscaling the supplying system of all the utilities (energy, water);
- > equipment to replace the old ones dating from 1985;
- > purchasing new equipment for specific operations.

Wolf, Cutter, Chain Saw, Stuffing machine, Pickle injector, Smoking room, Slicing machine, Vacuum Packaging, Thumbler, Colloidal mill



Inițiativă locală. Dezvoltare regională.

















Inițiativă locală. Dezvoltare regională.





### To be brew pilot plant

#### $\checkmark$ construction work in the existant rooms - 172 $m^2$

✓ purchasing brewery equipment



#### Microbrewery unit of 2.5 hl/batch

Malt mill Brew system Whirlpool Fermentation tank Cooler Filter Bear tank Cleaner Filling machine Pasteurizer

Inițiativă locală. Dezvoltare regională.

PROGRAMUL OPERATIONAL REGIONAL



### TARGET GROUPS

✓ improvement of the educational system and increase the attractiveness of food engineering training for students;

✓ better trained students for the labor market ;

✓ development of the applied research themes in partnership with the local SMEs;



Inițiativă locală. Dezvoltare regională.



### TARGET GROUPS

✓ obtaining new products and development of students` entrepreneurial skills;

✓ organizing short training programs for teachers working in high schools or for the industry



Inițiativă locală. Dezvoltare regională.

# Thank you for your attention !

contact:

Daniela BORDA (Project Manager) E-mail: dborda@ugaI.ro Număr de telefon: +40 (0)336 130 177; mobil: 0726 224 330

> "Investim în viitorul tău! Proiect selectat în cadrul Programului Operațional Regional și co-finanțat de Uniunea Europeană prin Fondul European pentru Dezvoltare Regională."

Conținutul acestui material nu reprezintă în mod obligatoriu poziția oficială a Uniunii Europene sau a Guvernului României.