



Proiecte europene - Povesti de succes

Prof. Mona Popa, USAMV
Bucuresti

24 iunie 2014, Dezbateri ASAS Bucuresti, Romania



Forest resource sustainability through bio-based-composite development and applications in agriculture and food packaging , a successful story in fp7 - KBBE 212239, coordinated by Univ. of Pisa, Prof. Andreea Lazzeri





Proiect FORBIOPLAST

Large-scale European Project in the 7th Framework Programme. KBBE-2007-3-1-04: FOREST PRODUCTS - New forest based products and processes

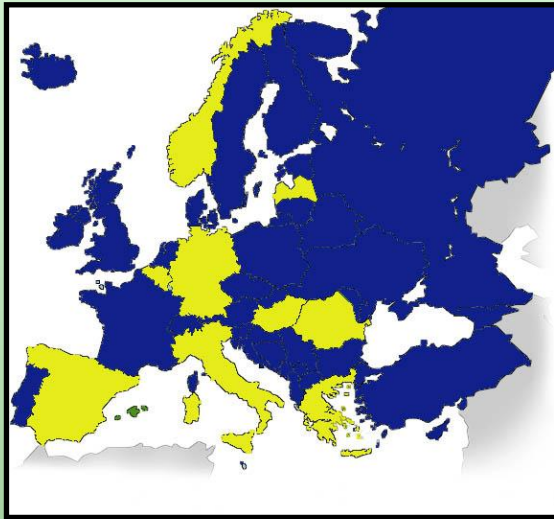
Obiective:

- ✿ Valorificarea resurselor padurii pentru obtinerea unor bioproduse;**
- ✿ Identificarea celor mai bune cai de exploatare industrială a biomasei forestiere la nivel european;**
- ✿ Dezvoltarea de tehnologii îmbunătățite în ceea ce privește sinteza industrială a poliuretanului și implementarea lor la scară industrială;**
- ✿ Înlocuirea fibrei de sticlă și a umpluturilor minerale cu lemn și fibre de lemn în unele părți interioare și exterioare ale automobilului;**
- ✿ Dezvoltarea unor compozite biodegradabile pe baza de polimeri și fibre de lemn pentru aplicații în domeniul ambalajelor și în agricultură;**
- ✿ Producția de poliuretan din materiale pe baza de resurse ale pădurii.**



Participantii in FORBIOPLAST

Consortiul FORBIOPLAST:
16 parteneri.



Producers

- PEMŰ Plastic Processing Co. (Hungary): car components, packaging
- RODAX (Romania): equipment
- Ritols Ltd. (Latvia): PU foams
- Incerplast (Romania): packaging

Researchers

- University of Pisa (Italy): coordinator, nanotechnology, material processing
- University of Budapest (Hungary): fibres modification
- Latvian State Institute of Wood Chemistry (Latvia): PU expert
- University of Almería (Spain): biovalorisation, biodegradation
- Fundacion CARTIF (Spain): forest material expert
- **University of Agronomic Sciences and Veterinary Medicine, Bucharest (Romania): agriculture, ecotoxicity, valorization, biodegradation**
- Organic Waste Systems (Belgium): composting, LCA
- Norconserv-Nofima A.S. (Norway): packaging tests

End users

- FIAT Research Center (Italy): vehicle prototypes, LCA on car components
- Neochimiki L.V. Lavrentiadis S.A. (Greece): users and tests on packaging
- Cosmetic (Greece): users and tests on packaging

Market expert

- Wiedmann GmbH. (Germany)



Industrial Advisory Board



Kemijski inštitut
Ljubljana
Slovenija



JOENSUUN TIEDEPUISTO | JT





Aplicatii



Resursele
padurii

Ambalare



Auto



Agricultura

Biomasa



Rezultate asteptate

- Scaun de masina
- Ghivece biodegradabile
- Legaturi pentru tomate in camp
- Fertilizatori incapsulati in materiale biodegradabile
- Ambalaje (containere pentru cosmetica, chimicale, peste, oua ecologice)



Web Site <http://www.forbioplast.eu>

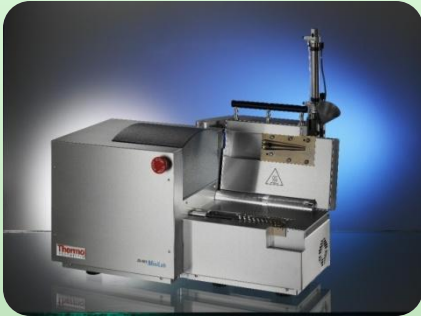


INNOVATION CONVENTION BRUXELLES 5-6th December 2011



Extrusion at UNIPI

Haake mini extruder



The COMAC co-rotating twin screw extruder EBC 25HT



Productie Prototipuri

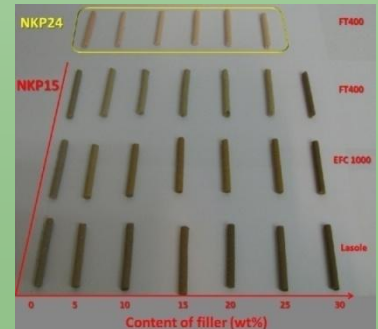
INCERPLAST



PEMU



Laboratory of Plastics and Rubber Technology Budapest



Validare Prototipuri



**University of Agronomical Sciences
and
Veterinary Medicine of Bucharest**
Agriculture and food packaging
application, ecotoxicity, degradation tests



University of Almeria
Ecotoxicity, Agriculture

NORCONSERV-NOFIMA
Migration tests



RODAX
Transmittance
Sealing
Temperature Resistance





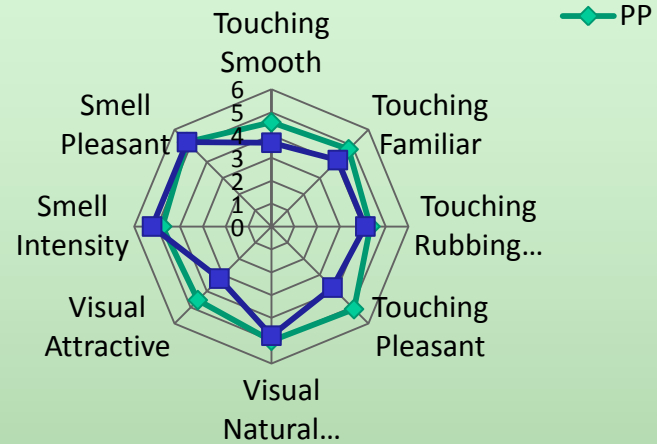
Validare Prototipuri

COSMETIC

Immersion tests

Compatibility with commonly used preservatives

Customer acceptance tests



NEOCHIMIKI

Evaluation of the suitability of new packaging materials for the storage of acrylic monomers and solvents used for the synthesis of polymers



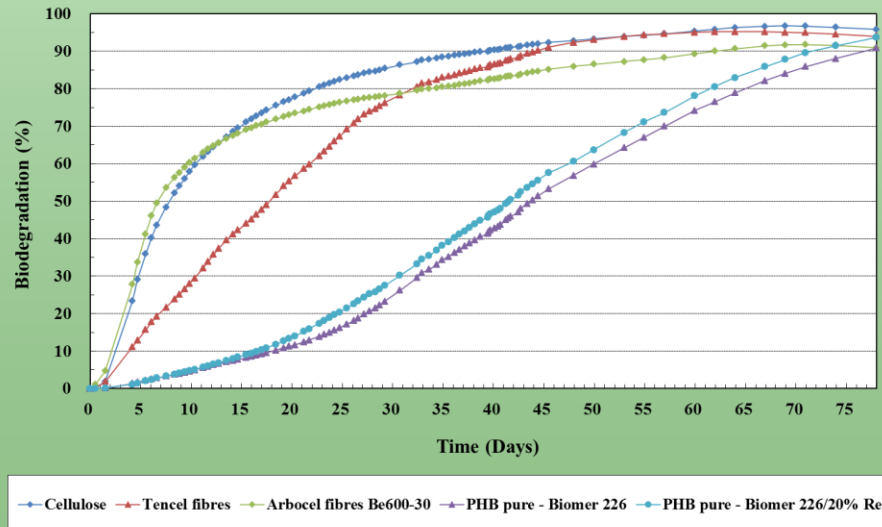
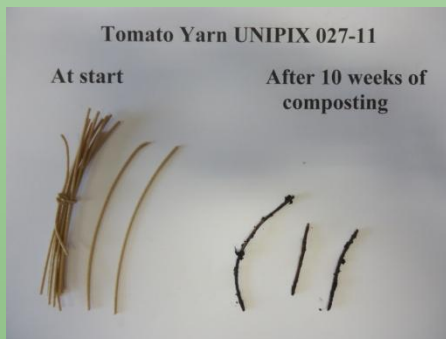


Validare Prototipuri

University of Almeria
Composting, deterioration



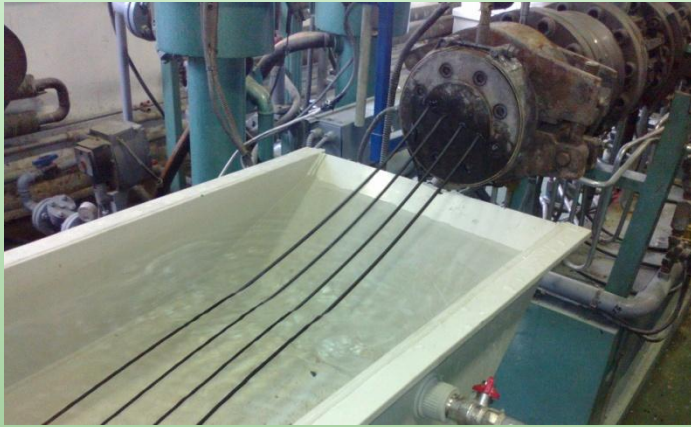
Organic Waste System
Composting, Anaerobic Digestion
Life Cycle Analysis





APLICATII AUTO

rPP, compatibilizers and wood fibres



Processing at PEMU



Car bottom seat prototypes made by Forbioplast materials from CRF

POLIURETAN



Latvian State Institute of Wood Chemistry
Rigid Polyurethane from Tall Oils

University of Pisa
Soft Polyurethane from Lignin

PEMU production of spoilers
Ritols production of T-nodes

Cooperation with FIAT Research Centre and Laboratory
of Plastics and Rubber Technology Budapest

University of Almeria
Use of Polyurethane foams as carrier for immobilization
of microorganisms

Soft Polyurethanes



T-node



Spoiler





Analiza pietii si Exploatare WIEDEMANN GmbH

Soft Polyurethane



Rigid Polyurethane



T-node



Spoiler

Tomato yarns



Sticks



Pots



Packaging



TRACK_FAST—Training Requirements And Careers for Knowledge-based Food Science and Technology in Europe

FP7-KBBE-2008-2B

Coordination and support action

GA 227220

27 Partneri

+ Track Fast Project

+ Activities

- Consortium

All Partners

Coordinator

Advisory Board

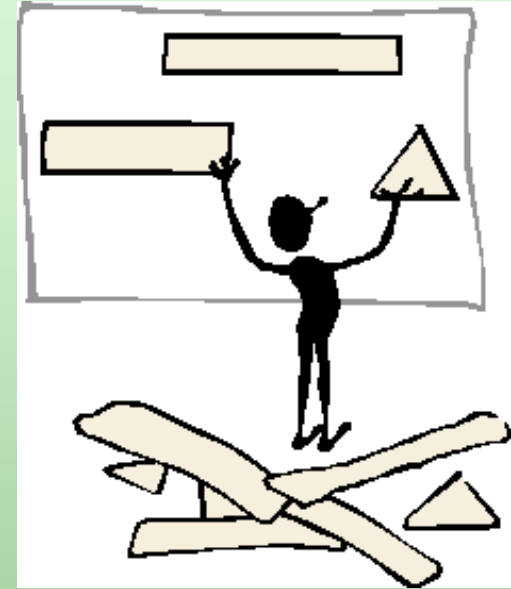
Steering Committee

Consortium



Objective

- Definirea carierei de tehnolog de industrie alimentara
- Perfectionarea continua si realizarea unui portofoliu de dezvoltare a carierei de tehnolog de industrie alimentara
- Motivatii pentru tineri de a urma o cariera in acest domeniu
- Analiza (brainstorming workshopuri) desfasurate in 16 tari privind abilitatile si competentele cerute de industrie pentru absolventii de inginerie si tehnologii alimentare





9) Of the Food Science Technologists in your organisation that have a degree, approximately how long ago did they graduate?

Those that graduated within the past 5 years (%):

	Romania	SE	ALL
Diploma/BSC in Food Science Technology	2	9	5
Master	10	5	5
Ph D	1	2	1
Diploma/BSC in another related field	10	11	4
Master	2	6	5
Ph D	9	6	3
	35%	36%	23%



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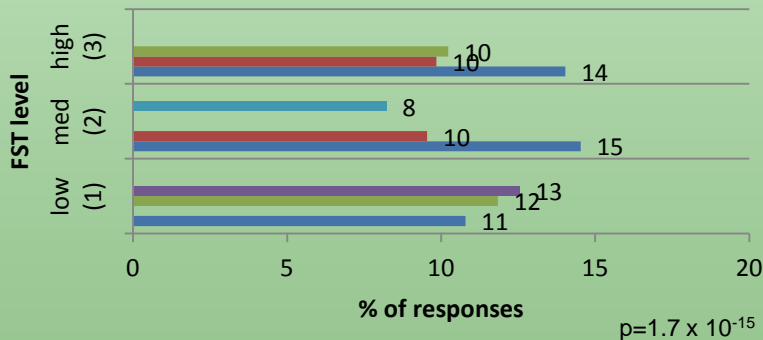
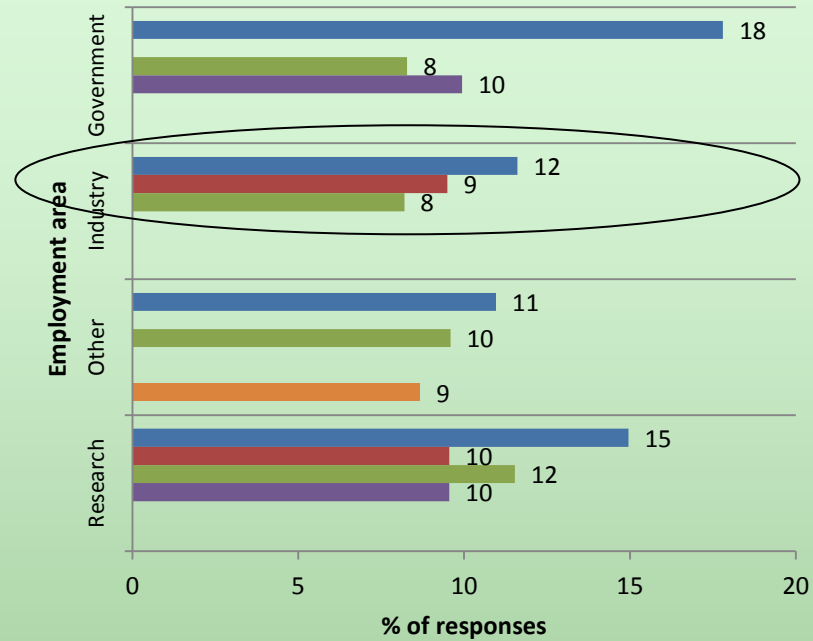
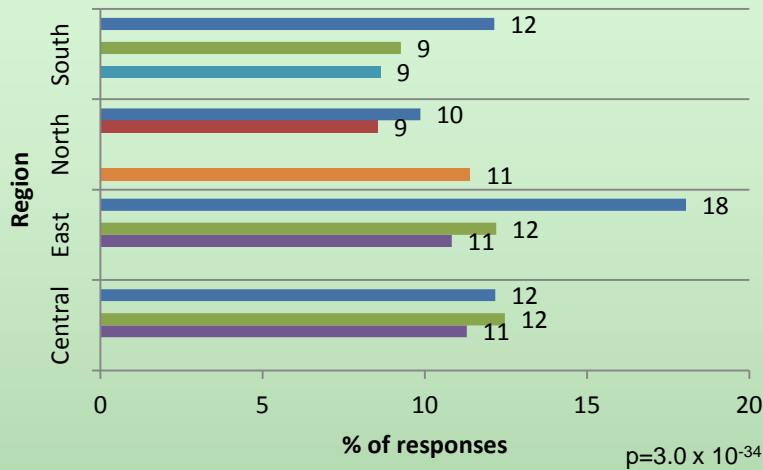


FP7/KBHE 227228





Abilitatile personale pentru angajatul ideal in domeniul industriei alimentare



- Communicating
- Thinking & Solving Problems
- Demonstrating Positive Attitudes & Behaviours
- Being Responsible
- Working with Others
- Product Development

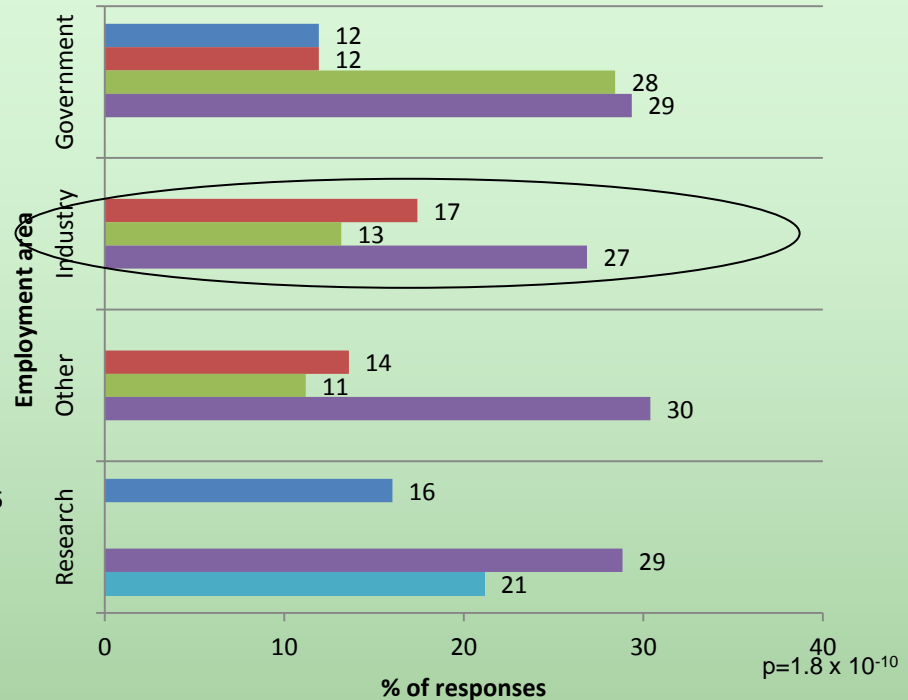
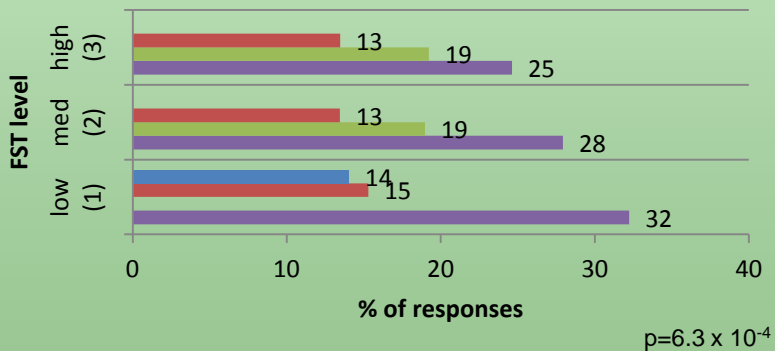
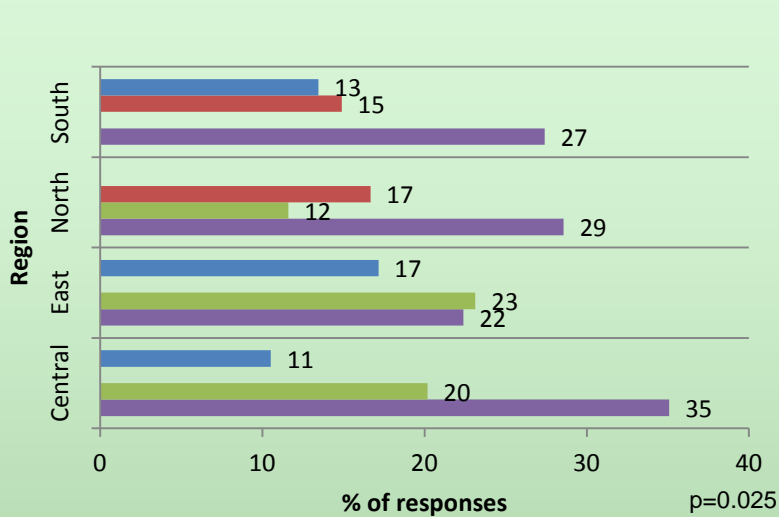
$p=2.4 \times 10^{-8}$

Chi square test

Null hypothesis:
The most desired FST skills are independent of employment area, region and FST level.

Strongly rejected.

Abilitatile ideale de domeniu



- Quality management, quality assurance and quality control
- Food safety management, food hygiene and food safety control
- Food legislation and control
- Product Development
- Research

Chi square test

Null hypothesis:
The most desired FST skills are independent of employment area, region and FST level.

Strongly rejected.



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latest news

Publication of Knowledge and Skills draft document version 2.0
03.2012

upcoming events

PAS 220 : 2008 & FSSC 2200
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The Taste of Life

Once upon a time...

Mission Possible

Brave new food

I eat therefore I am

To eat or not to eat

I am the king of the kitchen

A small product for the consumer - a giant process for the producer

MY FOOD CAREER

Food production and processing

E-numbers

High pressure

Waste management

Experiments with food

Health ingredients

Nutrition

Nano technology


Study in food science

Food career

Highlights

Candy

Wed, 13 Jun 2012



Candy is a confection made from a concentrated solution of sugar in water, to which flavourings and colorants are added. Other ingredients can be...

Read more

EN < > 10:47

<http://www.foodgalaxy.org/>

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The Taste of Life

Taste
Sensorial
Odours
Flavours
Colours

I am the king of the kitchen

Brave new food

Amazing Machines
Innovative Food
Emerging Technologies

MY FOOD CAREER

The Taste of Life

I eat therefore I am

Food & Age
Food & Attitude
Food & Brain
Food & Health
Food & Religion
Food & Sex
Food & Sports
Food & Weight

Proiectul FP7 TrackFast

<https://www.trackfast.eu>

Alte propuneri rezultate

- FP7-KBBE-2013-7-single-stage

1).Innovative Biotechnological Approaches for Converting Biorefinery By-products into Bio-based Products

Proposal acronym: LIGNOVALOR - 19 parteneri

2).FORBIOPLAST: Valorisation of forest resource for biotechnology, packaging and agriculture market.

Proposal acronym: FORBIOPLAST2 - 15 parteneri

- Alte Propuneri: CORE ORGANIC PLUS - 3, din care o propunere a trecut de first stage si lucram la propunerea integrala

- SUSFOOD - 2 propuneri

- SEE -Norvegia - 3 propuneri din care 1 castigat.

Alte propuneri rezultate

• Propunere HORIZON 2020 - H2020-ISIB-2014-2015

Sustainable and Advanced Industrial Valorisation of Multipurpose Oil Crops - first stage - VAL-OIL - 20 parteneri

Publication date	2013-12-11	Deadline Date	12.03.2014 17:00:00 (Brussels local time)
Topic: Renewable oil crops as a source of bio-based products		Stage 2	26.06.2014 17:00:00 (Brussels local time)
Total Call Budget	€16,000,000	Main Pillar	Societal Challenges