

# FACULTY OF FOOD TECHNOLOGY AND SCOPE OF ACTIVITIES

Latvia University of Life Sciences and Technoloogies





Head of Technology and Knowledge Transfer Centre

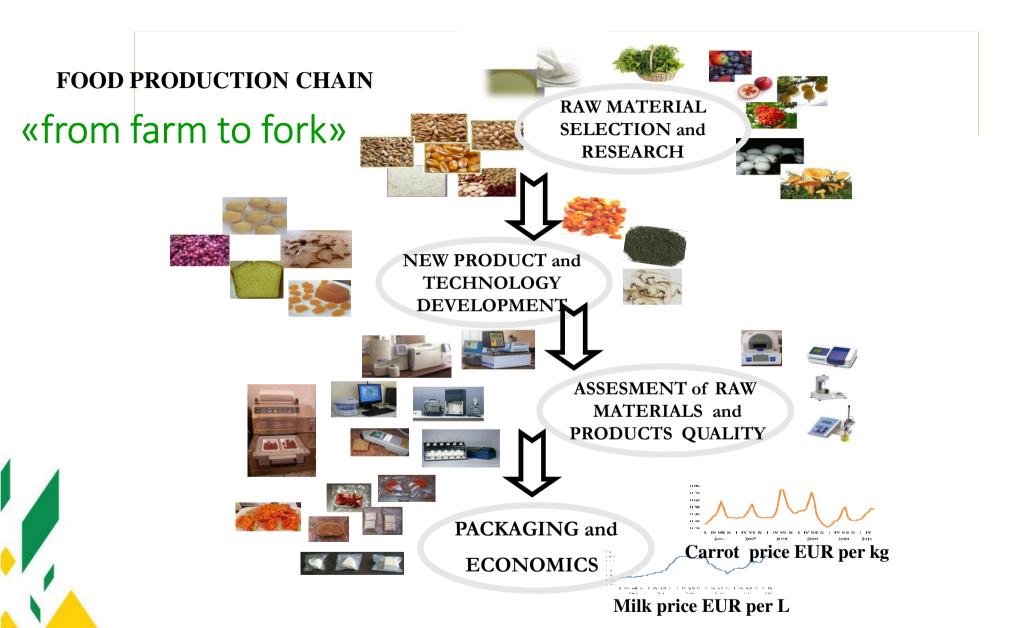
Profesor of Faculty of Food Technology

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### Study and Science Center of the Faculty of Food Technology



- Suitability, use for processing and production of novel products of non-traditional food materials, including byproducts
- Options for increasing the nutritional value of vegetable products
- Professional competencies of hospitality workers
- Sensory evaluation of food and exploring the structural characteristics
- Solutions to reduce food waste
- Food storage regime and time optimisation



TASK 2.1. RECOGNIZING THE CONDITIONS FOR COLLABORATION: STUDY VISIT TO LATVIA, 1<sup>ST</sup> July 2021

#### • Faculty of Food Technology is the center of studies and science with more than 65 years of experience



high pressure processing equipment



microbrewery



heat exchanger-pasteurizer



meat processing plant





evaporation unit

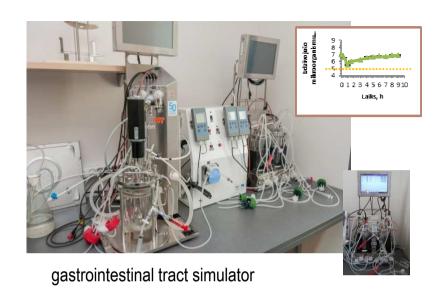








Task 2.1. Recognizing the conditions for collaboration: Study visit to LATVIA,  $1^{\text{ST}}$  July 2021





sensory evaluation laboratory







Testing of product safety, microstructure, including biologically active substances

TASK 2.1. RECOGNIZING THE CONDITIONS FOR COLLABORATION: STUDY VISIT TO LATVIA, 1<sup>ST</sup> July 2021

### Packaing laboratory











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Market type analysis

Food quality assessment and testing

We also compare the quality of similar products produced in different countries

New product development<sup>4</sup>

Technology improvement

Resources management

Possibilities for extended shelf life

products with high added value from local raw materials

Fiber-rich Protein-rich products, etc.

Technologies

Packaging solutions (convencional, biodegradable (bio-based), active, intelligent)

#### **Cooperation forms:**

- Companies seeking cooperation to develop innovative products
- Scientific bodies for the development of joint scientific cooperation







# **Grain Flakes MILZU!**



SIGNIFICANT ACHIEVEMEN





**EXPORT EXCELLENCE AWARD** 



IMPORT REPLACEMENT PRODUCT 2015



RED DOT AWARD 2016 winner

#### HIGH NUTRITIONAL VALUE GRAIN PRODUCTS





#### Cereal Mixes "Musli Graci" «Felici», Ltd.



- GRACI products all are developed in cooperation with Latvian and Norwegian scientists and tested at German Laboratories
- main focus is on natural high nutritional value
- functions of the products are all based on studies and clinical trials have been performed

Buckwheat flour as basic raw material for production of functional food products

Extruded buckweat snacks

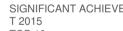


**Pancakes** 





## Ltd. "MILZU!"





THE BRAND OF THE YEAR -LATVIA 2014



"THE RISING STARS" 2015





fiber

OATS

vitamins

and vitamins

Contains lignans

High in beta-glucan

Loaded with important

Making feel more full

Rich in natural minerals

Reduced sugar

#### PRODUCTS WITH INCREASED PROTEIN CONTENT





High in vegetable protein! (25%) High Fiber! (13%)

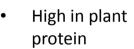




**Extruded products** from legumes



Ltd. "Krippu"



Vit: A; D; K; B<sub>12</sub>



chickpeas + herbs + seeds + vegetables

Plant based drink «Happea»

Ltd. «Nature Foods"











#### READY MEALS WITH REDUCED AMOUNT OF SALT AND SUGAR AND LONG STORAGE **TIME**



Sterilized soups and soup concentrates with long shelf life in flexible packaging



These ready-to-eat products are produced using a specific technology peeled and cut vegetables are steamed in their juice in the vacuum packaging



**Processed Vegetable Products** Ltd. "Paplāte Nr.1", Ltd. "Nissi"



Soups Ltd. «Kronis"





PROJECT "The edible coating formulated with liquid acid whey protein and bioactive compounds, and biodegradable packaging for safety of probiotic cheese" (EEZ3) Nr. LT08–2–LMT–K–01–046 (BIOCOAT) 01.01.2021. – 31.12.2023.) European Economic Area Financial Mechanism / Norwegian Financial Mechanism.

#### **INNOVATIVE DAIRY PRODUCTS**



Cheese balls «ARCH»
Ltd. «VZM»

It is made from cheese and curd whey and is a high-quality dietary product



Whey

- Fermented drink from whey
- Ice cream from whey and pumpkin





Functional food

- •Ice cream from decreased lactose content from whey
- Yoghurt with germinated grains
- •Ice-cream with lactobionic acid
- Yoghurt with immaturated grains

Products with added value

- •Lactobionic acid
- Products from colostrum



Milk protein drink «Piena spēks»

Ltd. «Smiltenes piens"

# INNOVATIVE FRUIT, VEGETABLE AND BERRY PRODUCTS, AS WELL AS BEE PRODUCTS



Baby food
Ltd. «Lat Eko Food"



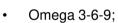
Ltd. «Keefa"



- 100% natural and organic ingredients
- No GMO
- Great snack at any time of the day
- Contains Jerusalem artichoke
- Fruit, berry and vegetable

  Source of fiber, inulin
  - No or low amount of added sugar





All amino acids (both essential and non-essential);

purees

- Vitamins A, B (except B<sub>12</sub>), C, D, E and PP, K;
- Huge variety of micro-, macroelements such as
- Fe, Ca, Mg, Mn, Cl, P, S and many others



Organic herbal tea +
fresh squeezed juice from North
meadows
Ltd. «Dabas Dots"



Apple and pear chips "Garden Snack"

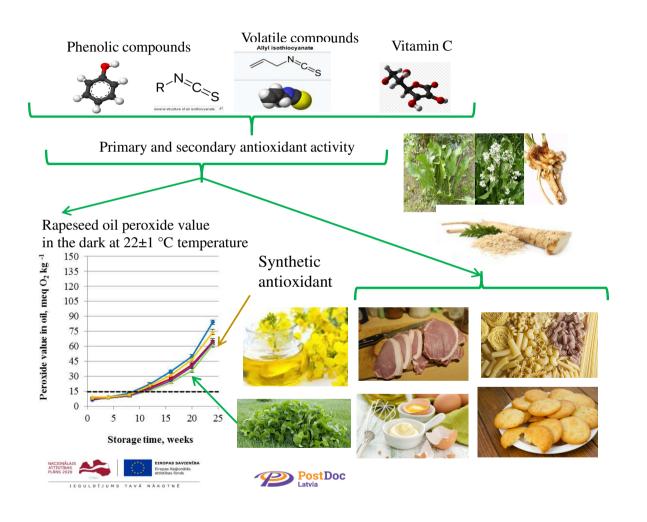
Ltd "Garden Snack"



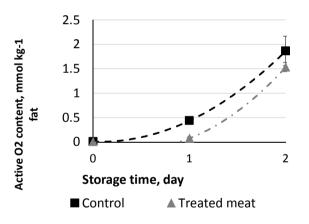




#### **HORSERADISH** – as a source of natural antioxidant



A compact and eco-friendly method for food antioxidant production using industrial potato peel by-products as the only source material



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# Models of cooperation

#### Contracts between:

- scientists and entrepreneurs;
- scientists, entrepreneurs and incubators;
- scientists and associations;
- scientists and authorities;

Projects;

Courses;

Educational seminars;

etc. forms of cooperation.







TASK 2.1. RECOGNIZING THE CONDITIONS FOR COLLABORATION: STUDY VISIT TO LATVIA, 1<sup>ST</sup> JULY 2021



# Thank you for your attention and successful cooperation!





