

# **„Open Innovation Space at the University of Agriculture in Krakow”**

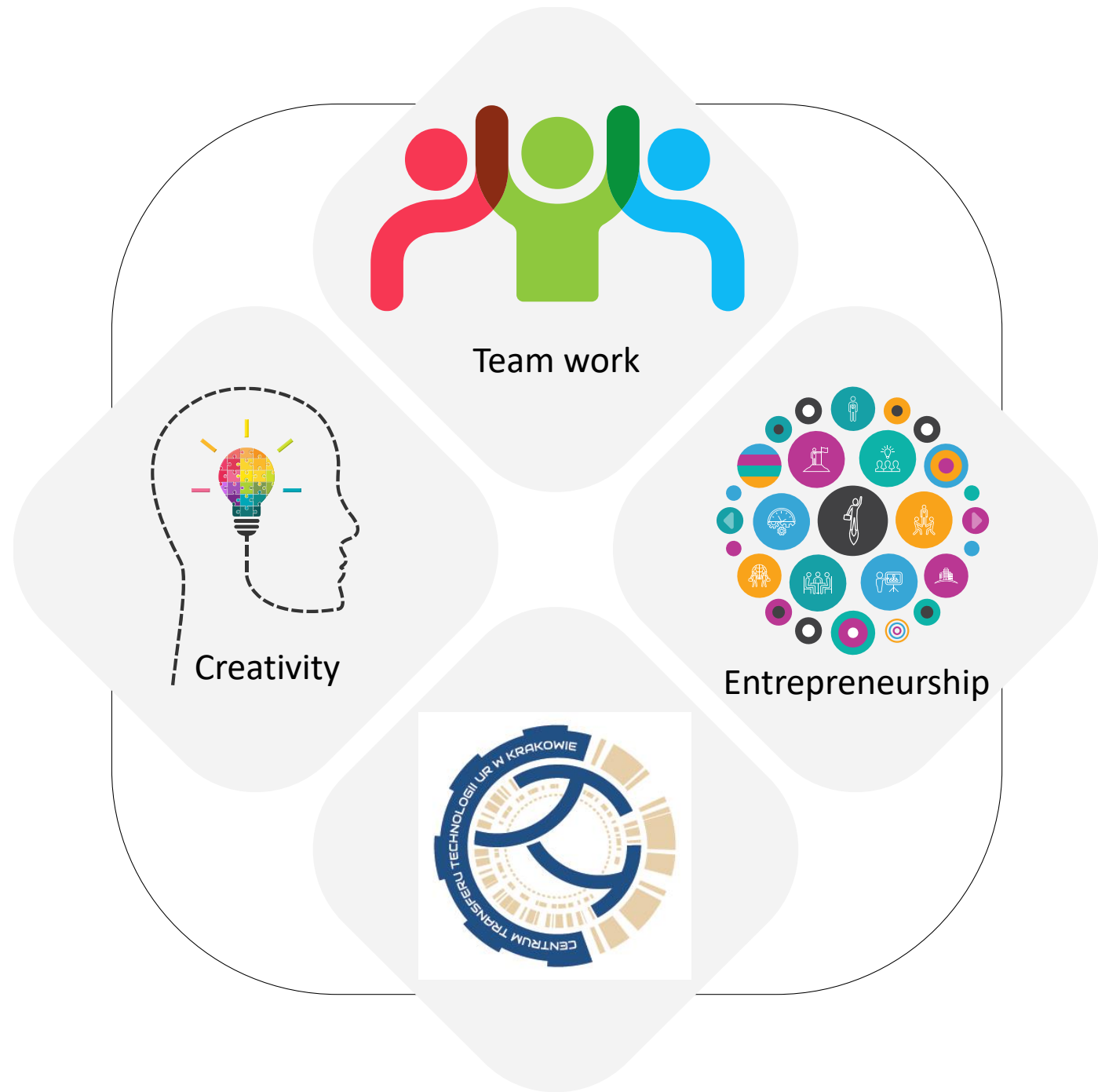
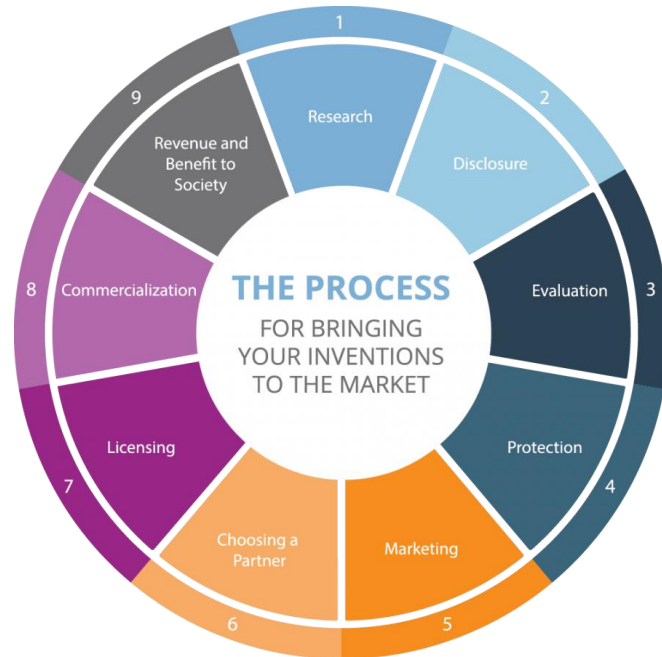
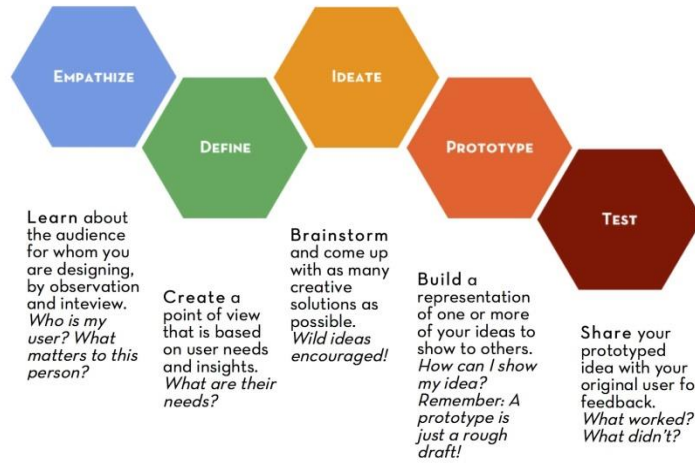
**„The technology transfer in agriculture –  
from university research to innovation”**

33rd CIRIEC International Congress, Valencia (Spain), 13-15 June 2022



How to make  
innovation?

# We are all DESIGNERS!





# Who we are?

# University of Agriculture in Krakow

Our University is developing in many directions through:

- adjustment of traditional fields of studies to future needs of agriculture and natural environment through modifications of present teaching programmes to meet the expectations of the young generation and match the socio-economic changes in Poland and in the EU,
- seeking new lines of teaching and research which can develop in future,
- concern for dynamic development of staff capable of conducting research on a world level in all disciplines represented at the University,
- organisational changes allowing for successful training of students, conducting research activities and simultaneously properly utilising the University resources.

## Faculty of Agriculture and Economics

- Precision farming
- Meadows and pastures fertilization
  - Crops improve
  - Soil protection



## Faculty of Animal Sciences

- Hormone and biochemical blood analysis
  - Cattle and pig breeding
- Fishing and fishing industry
- Feed analysis and testing



## Faculty of Forestry

- Ecology of the forest
- Forest soils
- Livestock farming
- Wood extraction



## Faculty of Environmental Engineering and Land Surveying

- Studies on technical environmental impacts (water, soil, air)
- Geodetic techniques





### Faculty of Biotechnology and Horticulture

- Plant protection
- Optimization of fertilization
- Landscape architecture
- Fruit and beekeeping management



### Faculty of Food Technology

- Food assessment
- Processing of animal products
- Technology of fruits, vegetables and mushrooms
- Human Nutrition



### Faculty of Production and Power Engineering

- Agricultural machinery
- Bioprocess control
- Biofuels
- Under cover crops production



### University Center of Veterinary Medicine UJ - UR

- Food safety
- Human health
- Animal health



# The Technology Transfer Center of the University of Agriculture in Krakow



- support researchers in each stage of their work
- help from the idea of the research, also in developing of idea and getting a research grant,
- help in patent or invention applied to the patent office,
- protect rights for the invention,
- participate in the commercialization process,
- help in seeing idea to the market place.



# The Innovation Center of the University of Agriculture in Krakow LTD



- deals in the commercialization of the results of scientific and research works created at the University of Agriculture by selling patents and licenses and creating spin-off companies.

# „Incubator of Innovation 2.0 and 4.0”



UNIVERSITY OF AGRICULTURE  
IN KRAKOW



implemented as part of a non-competitive project entitled „Support for management of scientific research and commercialization of R & D results in scientific units and enterprises" under the Intelligent Development Operational Program 2014-2020 (Measure 4.4)



Republic  
of Poland



Ministry  
of Education  
and Science

European Union  
European Regional  
Development Fund



The aim of the program called „**Incubator of Innovation 2.0, 4.0**” is to support the process of managing the results of scientific research and development work of employees and research teams of the **University of Agriculture in Krakow**, in particular in the field of their commercialization.

The implementation of the program contributes to the promotion of scientific achievements, increasing their impact on the development of innovation and strengthening cooperation between the scientific environment and the economic environment.

# GOALS

**DOMAIN:** Forestry Science/Mechanical  
Engineering/Agriculture and Horticulture  
**AREA:** Microwave device for destruction  
of invasive plants

**TEAM:**

**Head:** Prof. Krzysztof Słowiński,

**Research team:** Prof. Sylwester Tabor,  
Beata Grygierzec, PhD



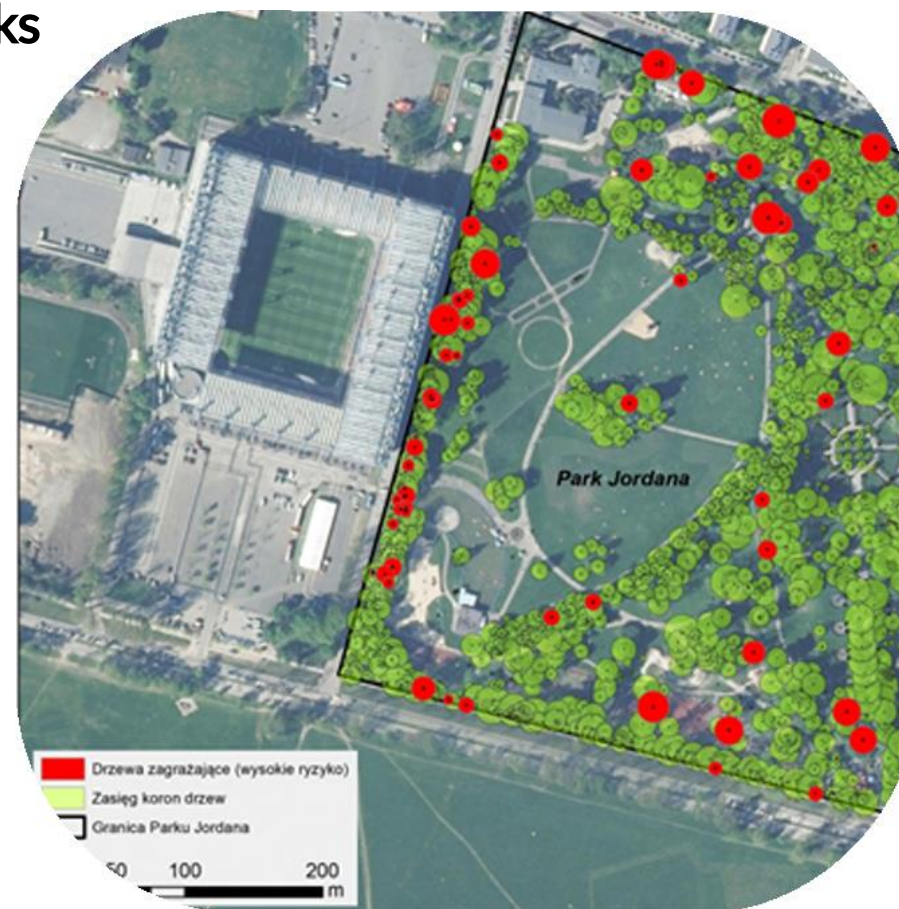


## Current stage of selected R&D pre-implementation works

**DOMAIN:** Forest Sciences (Urban Forestry)

**AREA:** Mobile application with data set

**Head of the Grant:** Prof. Piotr Wężyk



**DOMAIN:** Mechanical Engineering/Agriculture and Horticulture

**AREA:** The innovative eco-technology HUGO is based on two solutions: Hugo – Growth Stimulator and Hugo – Agricultural Robot. The solution makes use of state-of-the-art developments in the precision farming and remote sensing industries.

**TEAM:**

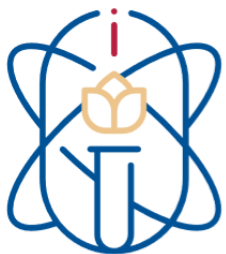
Prof. Agnieszka Klimek-Kopyra, Prof. Tomasz Czech



Spin –off Company !!!







**Centre for Innovation  
and Research into Safe  
and Health Promoting Food**  
University of Agriculture in Krakow



Rzeczpospolita  
Polska













MAŁOPOLSKA

Unia Europejska  
Europejski Fundusz  
Rozwoju Regionalnego



## COOPERATION NETWORKS

				
<b>EUA</b>	<b>BLOOM</b>	<b>EPNOE</b>	<b>VUA</b>	<b>KUN</b>
				
<b>IROS FORUM</b>	<b>EFI</b>	<b>IUFRO</b>	<b>IROICA</b>	<b>ICA</b>

# WE INVITE YOU TO COOPERATION!

## University of Agriculture in Krakow

The Technology Transfer Center of the University of Agriculture in Krakow  
Innovation Center of University of Agriculture in Krakow LTD

### Authors of presentation:

**Tomasz Czech PhD, Eng.**, Director of the Technology Transfer Center at the University of Agriculture in Krakow

**Wojciech Przywała**, Technology Broker at the Innovation Center of the University of Agriculture in Krakow LTD

**Wojciech Borówka**, Technology Broker at the Technology Transfer Center at the University of Agriculture in Krakow

## Contact information:

**Tomasz Czech PhD, Eng., prof. of UAK**

**Director of the Technology Transfer Center at the University of Agriculture in Krakow**

Al. Mickiewicza 21 C/2, 31 – 120 Kraków

[www.ctt.ur.krakow.pl](http://www.ctt.ur.krakow.pl)

T: 12 662 41 93

E: [tomasz.czech@urk.edu.pl](mailto:tomasz.czech@urk.edu.pl)

W: <https://www.facebook.com/CTTURKrakow/>

**Innovation Center of University of Agriculture in Krakow LTD**

Al. Mickiewicza 21/2, 31 – 120 Kraków

[www.innowacje-ur.pl](http://www.innowacje-ur.pl)

T: 12 662 44 49

E: [wojciech.przywala@innowacje-ur.pl](mailto:wojciech.przywala@innowacje-ur.pl)

W: <https://www.facebook.com/centruminnowacjiurkrakow/>





**Thank you  
for your attention**