



# Innovation and strategic development at Szent István University

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**Innovative higher education - regional development and networks**

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SZENT ISTVÁN  
UNIVERSITY



# Szent Istvan University: a „bird view”





# Szent Istvan University: a „bird view”

- **Number of faculties: 8**
- **Number of students: 15,000**

(including students in the correspondence and distance-learning trainings)

- **Number of international students: 1,400**

- **Number of PhD students: 450**

- **Number of academic staff: 1,000**

(professors + associate professors, assistant professors, research fellows etc.)

- **Number of staff: 1,900**

- **Languages of the courses: Hungarian, English,**



# Cooperation of 8 Faculties

Ybl Miklós Faculty of Architecture and Civil Engineering (**Budapest**)

Faculty of Agricultural and Environmental Sciences (**Gödöllő**)

Faculty of Mechanical Engineering (**Gödöllő**)

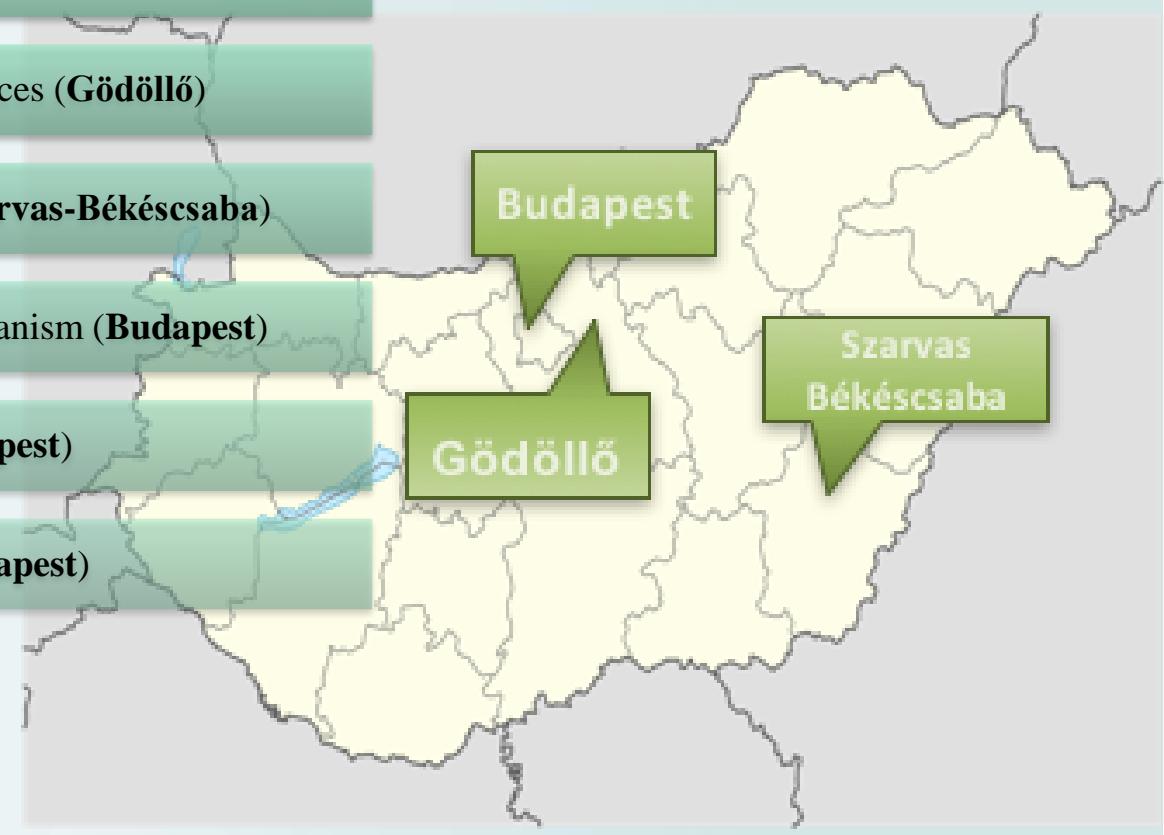
Faculty of Economics and Social Sciences (**Gödöllő**)

Faculty of Economics and Agriculture (**Szarvas-Békéscsaba**)

Faculty of Landscape Architecture and Urbanism (**Budapest**)

Faculty of Horticulture (**Budapest**)

Faculty of Food Sciences (**Budapest**)





# Strategic areas

Innovation as a horizontal issue

Innovation

Teaching and research of food source production

Food quality and safety

Water as strategic resource

Protection and sustainability of nature and the environment

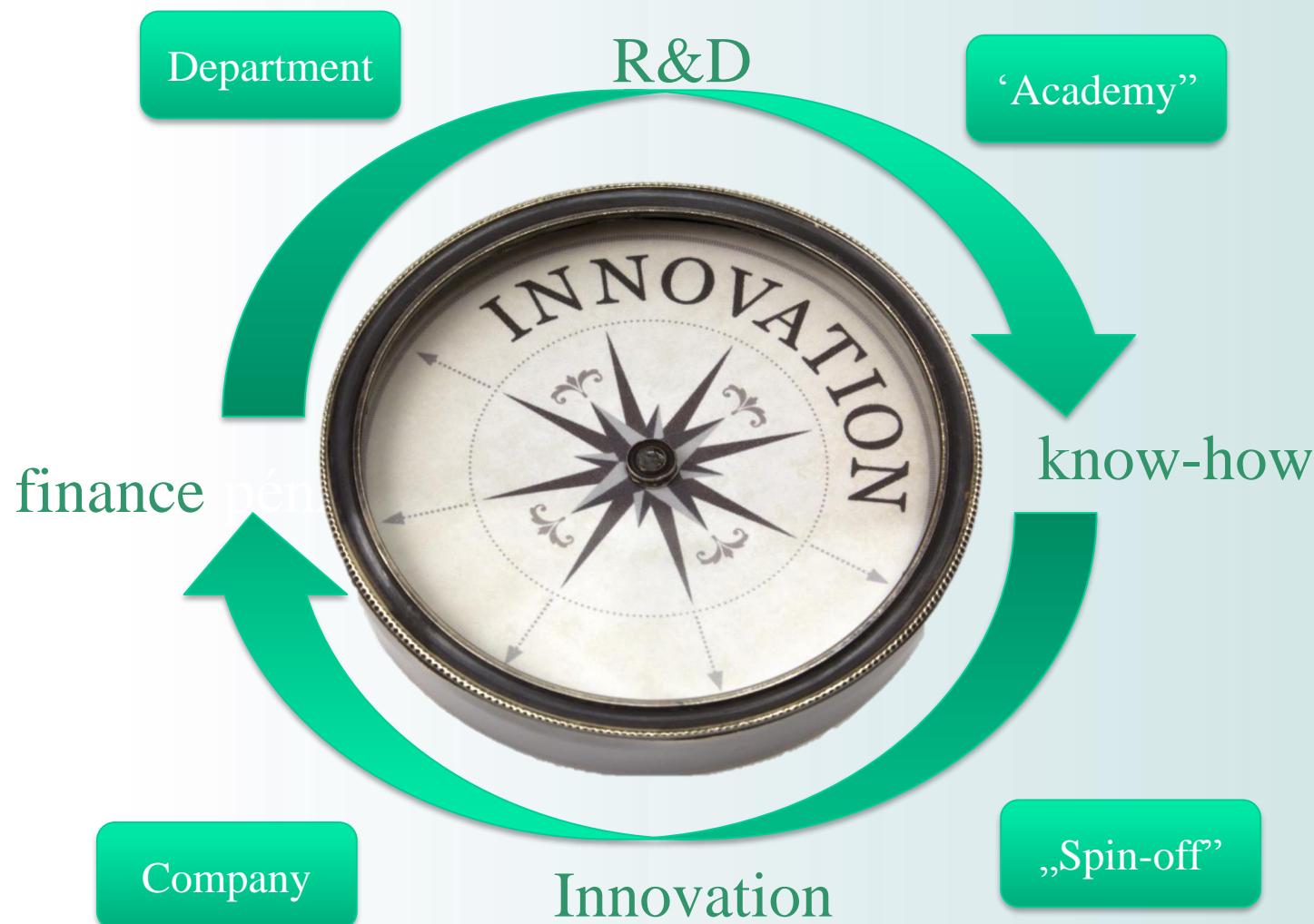
Energy security

Architecture in agricultural sector

Technologies, IT in Agriculture



# Innovation – as we see it





# Case 1 : Green Industry Innovation

**Program design was supported by strong communication**

- government, scientific organizations, civil society, Academy of Science

**Two main areas supported:**

**Sub-program 1:** Reduced production of waste and emissions to air, water and ground

- ✓ waste management and environmental remediation;
- ✓ water quality management;
- ✓ air quality.

**Sub-program 2:** More use of environmentally friendly technologies such as

- ✓ nano-, photo-, and biotechnology, materials, others

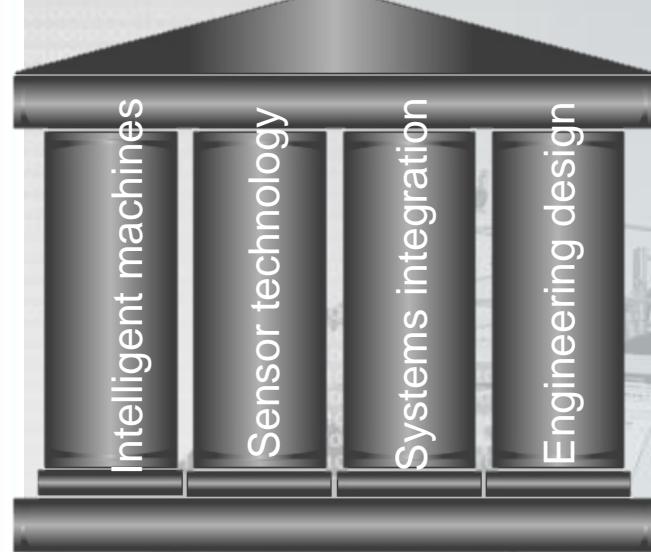
**Project size:** minimum 170.000 € - maximum 1.600.000 €.

**Projects:** 37 projects with 27 mEUR total budget (2 calls, over 50 % partnership projects)

**Donor program partner:** Innovation Norway



# CASE 2: AgIT – University/Industry cooperation center



Overall budget: 6 mEur (10 mEur)  
2016-2020 – 4 year program

Design and implementation of new laboratory

- 700 m<sup>2</sup> laborspace
- State of the art technologies

ISOBUS testing facility

- Confirmity tests
- "Embedded" systems
- Sensor technology

Digital production systems

- Systems integration
- Application development
- Modelling agro-production

Data management

- BigData analyses
- Artificial intelligence in agriculture
- Machine learning



# In partnership for AgIT

**Leading partner:** Szent István University

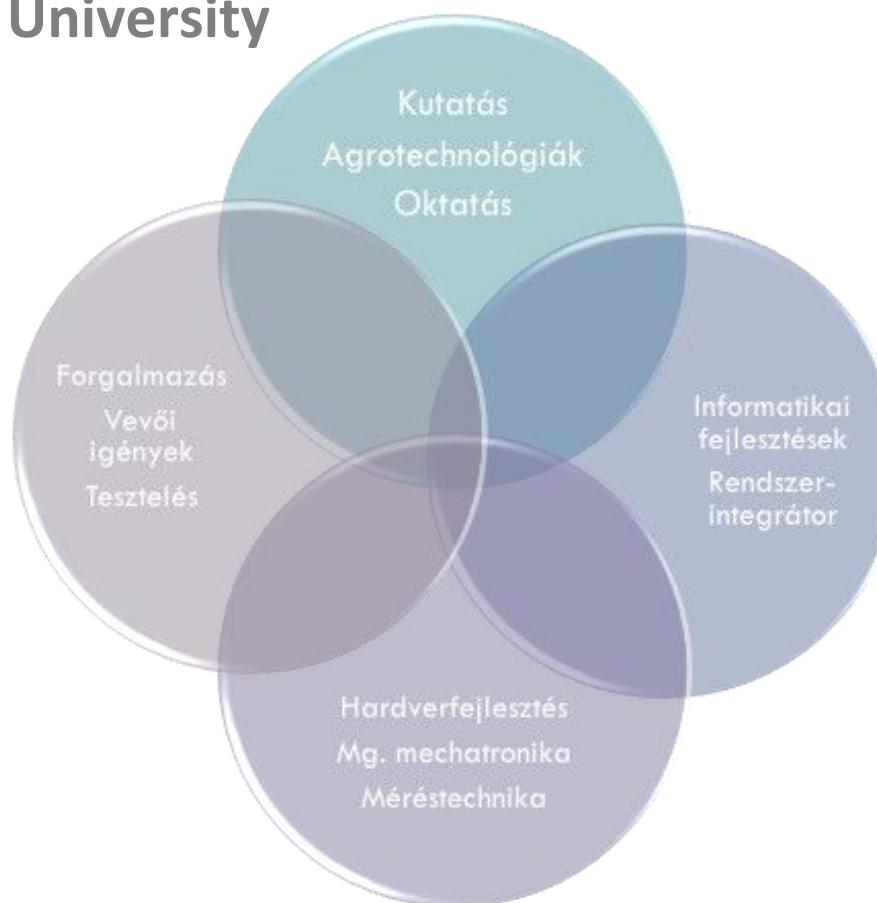
**Partners:**

SKC-Consulting Ltd.

ENERGOTEST Ltd.

Axiál Ltd.

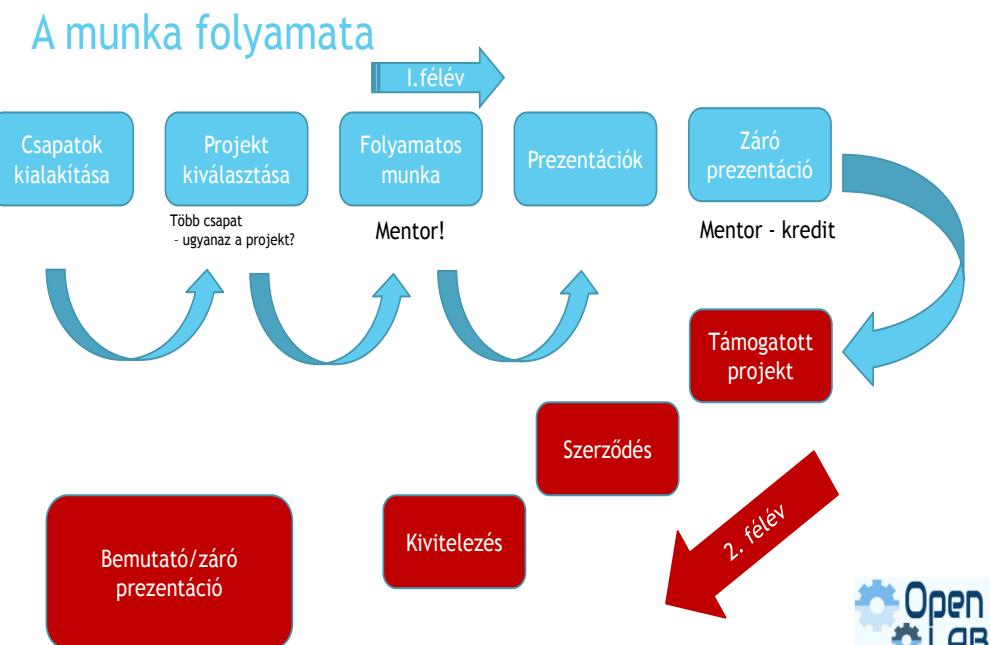
ASSECO Central Europe Inc..





# Case 3.: OpenLab initiative

- To enhance entrepreneurship and practice orientation
- 2 semester long project (for credits)
- Teamwork (students from different faculties involved)
- Mentoring system
- Projects from:
  - Company
  - University
  - Students
- IPR agreements





# Case 4: Tudaskapu (KnowledgeGate)

The screenshot shows the homepage of the Széchenyi Tudás park website. The main header features the university's logo and name. Below the header, there are several navigation links: EGYETMUNK, KAROK, KÉPZÉSEK, FELVÉTELZŐKNEK, HALLGATÓNAK, and KUTATÁS / PÁLYÁZATOK. A search bar is present above a large image of autumn leaves. The central content area is titled "Szent István Egyetem TUDÁSKAPU". It contains a "Megkeresés tártyákra" section with a dropdown menu set to "Kérni válasszon". Below this is a "CAPTCHA" field with the text "c3t25" and a "A képen látható kód" input field. At the bottom, there is information about the TUDIR system, EU funding, and project details.

This screenshot shows the same website as the previous one, but with a simplified contact form. The "CAPTCHA" field and its associated input field are removed. The rest of the form fields remain the same, including "Kutatás, fejlesztés", "Felvételvezető célja", "Szerelemtulajdon-hasznosítás", "Kapcsolatfelvételi jogi állásza", "Szerzett neve\*", "Szektor\*", "Cég mérete\*", "Szervezet címe", "Ország\*", "Város\*", and "Cím\*". The background image of autumn leaves is still visible.

- Direct access for companies
  - R&D projects, ideas
  - Study & training
  - Reduce „distance”



# THANK YOU FOR YOUR ATTENTION!

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