



EÖTVÖS LORÁND UNIVERSITY

UNIVERSITAS BUDAPESTIENSIS DE ROLANDO EÖTVÖS NOMINATA

www.elte.hu/en



Faculty of Informatics



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Faculty of Informatics already has many successful cooperations with industrial partners on the fields of infocommunications, ICT for healthcare and ICT for financial sector.



BOSCH



Deutsche
Telekom



ERICSSON

 **Mediso**



otpbank



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In 2012 our faculty established the **EIT Digital Co-Location Centre** in Budapest, which **realised knowledge-triangle** between academic and industrial partners through many R&D projects in ICT as associated partner group. This year an opportunity for **cross-KIC cooperation** published in **EIT Digital calls** for proposals emphasizing **interdisciplinarity**. This is a good opportunity for R&D projects between EIT Digital and EIT Food.





Faculty of Informatics

Together with agricultural professionals we identified several those fields in our R&D activities, which can result significant added value for agricultural and food sector (AI, blockchain, data science, ERP systems, IoT, mobile development, robotics, security).

From this I would like to highlight **data science**. The research goals identified in our ongoing as well as future R&D activities concern several use-cases of data analytics, optimization and artificial intelligence.

More specifically, **handling and analyzing** large amounts of data coming from agricultural sensors, **mining and optimization** of various production processes, **prediction and forecasting** techniques for farming decision support, just to name a few.

Besides these main research areas we also focus on **security issues** and **large-scale software analytics and optimization** as well as IoT.



We already have **three submitted proposals**, all of them belong to honey production.

- H2020-proposal about sustainable beekeeping system,
- determination of pesticide residues in sunflower in vivo circumstances and
- determination of the position of bee queen in within the hive without to open the hive.





**THANK YOU FOR YOUR
ATTENTION!**

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