

Reinforcing the scientific excellence and innovation capacity in logistics technologies of the University of Miskolc



2016 UMi 2018
T W I N N



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Project datasheet

UMi-TWINN

Reinforcing the scientific excellence and innovation capacity in logistics technologies of the University of Miskolc

Jan. 2016 – Dec. 2018

36 months



MISKOLCI
EGYETEM
UNIVERSITY OF MISKOLC



Fraunhofer

IFF



Graz University of Technology



Project Objectives

- ❖ The project aims to raise the research and innovation excellence of the institute of logistics at the University of Miskolc (UMi).
- ❖ The Twinning activities will benefit UMi but also the other consortium partners.
- ❖ The project will also benefit the Hungarian and European industries and markets requiring logistics technologies.



Project Objectives

Objective 1

- Strengthen UMi's research excellence in logistics technologies

Objective 2

- Enhance the research and innovation capacity of UMi and Twinning partners

Objective 3

- Raise the research profile of UMi and the Twinning Partners

Objective 4

- Contribute to the research and innovation priorities of Hungary

Objective 5

- Support research and innovation on a European level

Research Topics

❖ Design of logistic systems and networks

- *Modelling and mathematical description of systems and processes of materials handling and logistics.*
- *Development of new equipment selection methods for production systems.*
- *Computer-aided simulation and scenario analysis of production and service processes.*

❖ Intelligent transport systems

- *Transportation, freight-forwarding.*
- *Information-flow, telecommunication.*
- *Energy, energy-utilization.*

❖ Dynamical analysis of materials handling machines

- *Analysis the system and operation parameters.*
- *Determination of the specific parameters of continuous and discontinuous serving process.*
- *Analysis of the unit handling process*

Project Activities

❖ Twinning activities and staff exchange between UMi, Fraunhofer-IFF and TU Graz.



❖ Training events (workshops, summer schools, and international conference).



❖ Promotion and dissemination of project results to a large audience.



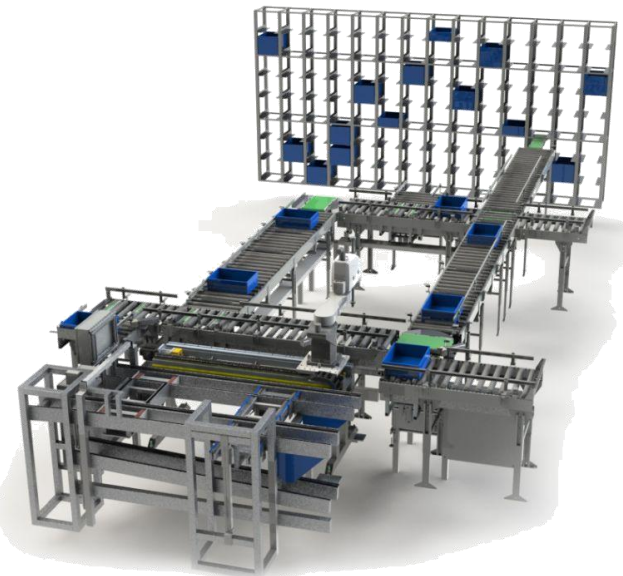
Project partners

Institute of Logistics at UMi

- ❖ The Institute builds its excellent reputation based on its various collaborations and R&D projects with numerous industrial actors: Bosch Rexroth, Claas, Electrolux, Linamar and Vorskla Steel, Audi, Carl Zeiss, DHL, etc.
- ❖ The Institute of Logistics UMi is an excellent and experienced partner to work with. They are keen to share their experience and knowledge as well as developing new collaborations in the field of logistics technology.



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Project partners

Fraunhofer – IFF

- ❖ Fraunhofer Institute for Factory Operation and Automation (IFF) concentrates its research on factory planning, operation and automation as well as new methods and technologies of digital engineering in the development, production and operation of products/manufacturing systems.



Technical University of Graz

- ❖ The institute focuses on the classic problems of logistics planning for the intra- and distribution logistics and the associated layouting and engineering design of logistic systems.



Intelligentsia Consultants

- ❖ Intelligentsia has a strong experience in European project management and technology transfer activities. Intelligentsia will provide tailored training to UMi staff on transferable skills topics.





Thank you for your attention



www.umi-twinn.com