



NON-PROFIT LIMITED LIABILITY COMPANY FOR  
QUALITY CONTROL AND INNOVATION IN BUILDING

**QUALITY CAN BE MEASURED**

As the Association is responsible for project implementation,  
we would like this solution to be accepted by our partners  
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## ÉMI at a glance

QUALITY | INNOVATION | EXPERTISE

02 10 2019

# ÉMI in a nutshell

- Statistical headcount: 204 people
- Professional staff composition
  - 16 researchers
  - 11 completed PhD or ongoing PhD program
  - 102 engineer → 40 with expert authority
- Average age 42 years
- More than 75% of our employees have university degree
- Country-wide operation and branches (Szentendre, Paks, Miskolc [FIEK], Győr, Debrecen + mobile laboratories)
- Science and Technology Park and Visitors Centre (Model House Park) in Szentendre



# Knowledge centre for the industry

QUALITY | INNOVATION | EXPERTISE

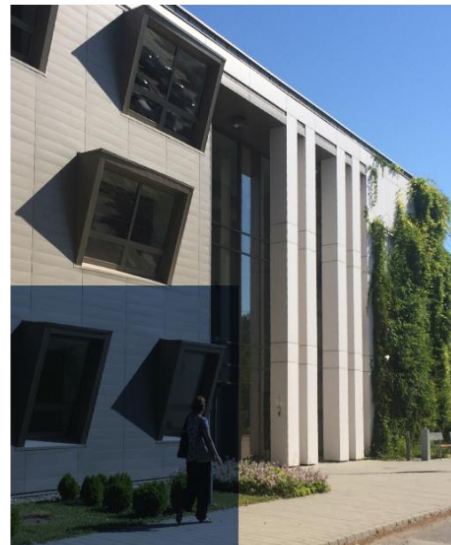
- 56 years of professional experience (engineering expertise and services, RDI)
- 1000 test procedures -> 700 accredited inspections (notified body)
- More than 2000 industrial partners
- More than 200 international partners
- Strategic partnership with 5 institutions of higher education(HU)
- Strategic innovational collaborations (Bosch, BorsodChem, SEGA, Tungfram, Valor Hungariae)
- Cooperation and activity in 15 international RDI organizations



# 4 priority fields in 3 directorates



PROFESSIONAL TECHNICAL SERVICES,  
EXPERTISE



R&D&I, TRAINING AND  
EDUCATION, TECHNICAL  
REGULATION



BACK OFFICE and FINANCES



EXPERTISE IN NUCLEAR FACILITY  
DESIGN, CONSTRUCTION AND  
MANAGEMENT

# Wide range of professional technical services at national and international level

- Technical expertise (experts, laboratory tests)
- Quality control
- Complex building diagnostics
- Compliance assessment
- Research, development and innovation
- Expertise for the nuclear facilities
- Construction management and support for large-scale public infrastructure and building development projects
- Supervision
- Special services for protected cultural heritage buildings
- Organization of professional events
- Technical regulation support for the government
- Training and education
- Demonstration and awareness-raising



# Directorate for Innovation

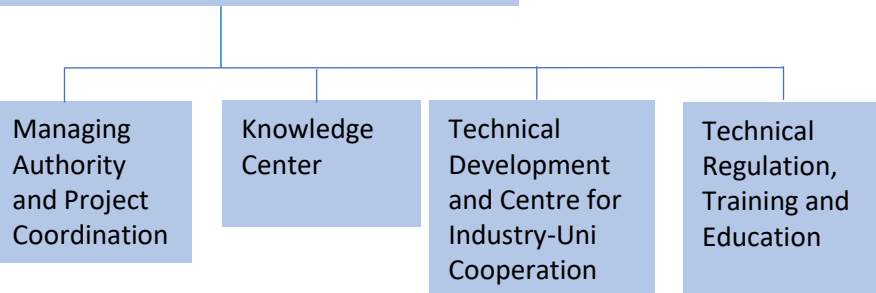
## R&D&I key topics

- Living and sustainable built environment
- Energy efficiency, renewable energy, climate protection
- Innovative and environmentally friendly building materials, structural elements
- Education, professional training, curriculum development

## Organization - 4 offices

- 41 permanent employees
- 10 interim students

## Directorate of Innovation



- Professional support for the implementation of the national construction-economics strategy
- BAY Holding R&D&I Institutional Integration (1 Jan, 2020)
- Managing Authority
- Construction Cost Data Management
- Rehabilitation and EE programs
- Technical Directives and Regulation
- Construction Management Training Program

## Municipalities Energy and Climate Action Planning - EMI Nominated for the international COM Program

### coordination - Related Results

Cooperation: Miskolc, Békéscsaba, Szabolcs-Szatmár-Bereg County, Veszprém County + 5 cities, Debrecen, Borsod-Abaúj-Zemplén County

## Innovation initiatives in partnership with universities

### MISKOLC-FIEK

- Modern materials and intelligent technologies
- Innovative and eco-efficient insulation materials, prefabricated structural elements, sustainable and smart facility management

Project size: HUF 5,837 billion | ÉMI support: 512 M HUF



Preparation of new cooperation: University of Pécs (PTE), Pannon University

## International project results:

- 23 completed international projects 1.02 billion HUF in total
- 6 ongoing international projects 3.18 billion HUF in total
- SDE 19 university innovation housebuilding competition - 3 billion HUF
- 3 new international projects 211 M HUF in total
- 1 international project before submission

# Solar Decathlon Europe 2019 and National Model House Park

**Organizer:** ÉMI Nonprofit Ltd.

**Location:** ÉMI Scientific and Technology Industrial Park

**More than 400 university students during one month**

- 3 continents
- 8 countries
- 27 universities

**The main topic of the competition:** renovation of buildings with large population

**Result:** 10 energy-efficient model house – further buildings planned in 2020

**Visitors:** 15.000 people

**The Solar Decathlon Europe 2019 international university competition in innovative homebuilding is supported by the Hungarian Government.**







solar  
decathlon  
europe

SZENTENDRE  
HUNGARY

19

*Model House Park*

*The art of smart building.*





THANK YOU FOR YOUR ATTENTION!