



# SUSTAINABILITY IN PRACTICE AT THE UNIVERSITY

## SUSTAINABILITY STEPS AT ELTE

PRESENTATION BY VIKTÓRIA MUDRA SUSTAINABILITY COORDINATOR, 2020



ELTE EKSZ

*„YOU MUST BE THE CHANGE YOU WISH TO SEE IN THE  
WORLD”(MAHATMA GANDHI)*



- 
- Visegrad Fund
-

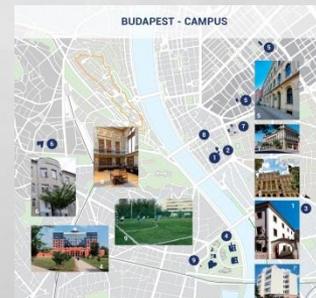
# ABOUT EÖTVÖS LORÁND UNIVERSITY

- ONE OF THE BIGGEST UNIVERSITIES OF HUNGARY, SINCE 1635
- 8 CAMPUSES
- 7 DORMITORIES, 5 SPECIAL DORMS
- 3 GRAMMAR SCHOOLS, 1 GRADE SCHOOL, 1 NURSERY
- NETWORKING OF UNIVERSITY LIBRARIES
- MORE THAN 10 OTHER INSTITUTIONAL LOCATIONS, AT LEAST 70 BUILDINGS (52 SPOTS OF OPERATION)
- 21000 STUDENTS
- MORE THAN 4000 STUDENTS IN DORMITORIES
- 3000 WORKERS



**ENORMOUS POTENTIAL IN THE FIELD OF ENVIRONMENTAL PROTECTION**

**FORMAL (EDUCATION, ENERGY DEVELOPMENTS) AND INFORMAL SUSTAINABLE INITIATIVES  
(BY NGOS)**



# ACTIVITY FIELDS IN SUSTAINABILITY – THE THEME IS MORE AND MORE IMPORTANT

## ● INSTITUTIONAL ACTIVITY

- ENERGY EFFICIENCY DEVELOPMENT INVESTMENT AT EÖTVÖS LORÁND UNIVERSITY – 2016-2018 15 MILLION EURO, 15 PLACES
- UNI-ECO – NEW INTERNATIONAL PROJECT, 2019-2022

## ● CIVIL ACTIVITY

- ELTE EKSZ = ELTE EGYÜTT A KÖRNYEZETTUDATOS SZEMLÉLETÉRT (TOGETHER FOR ENVIRONMENTAL CONSCIOUSNESS) – SUSTAINABLE ACTIVITY SINCE 2008 TO THESE DAYS

# ENERGY EFFICIENCY DEVELOPMENT INVESTMENT – KEHOP SOURCE (EU)

- 15 BUILDINGS (100000 M<sup>2</sup>) WERE RETROFITTED WITH EXTERNAL THERMAL INSULATION
- THE EXTERNAL DOORS AND WINDOWS WERE REPLACED, (5,000 NEW WINDOWS)
- THE BOILERS AND HEATING SYSTEMS WERE UPGRADED
- SOLAR PANELS HAVE BEEN INSTALLED IN THE UNIVERSITY BUILDING (AFTER THEIR COMMISSIONING, WILL PRODUCE A SIGNIFICANT PRIMARY ENERGY OF NEARLY 0.7 MVA FOR ELTE).
- ESTIMATED CARBON DIOXIDE REDUCTION IS 4600 TONS PER YEAR

# SOLAR PANELS AND THE HEATING SYSTEM



# UNI-ECO

- PARTICIPANTS: UM, UB, UU, TRINITY COLLEGE, ELTE, CESIE, UNIMED – INTERNATIONAL CONSORTIUM, EU-SOURCE
- PART OF A BIGGER COOPERATION: CHARM-EU
- MISSION:
  - AWARENESS AND SENSITIZATION OF SUSTAINABLE INNOVATION IN HIGHER EDUCATION INSTITUTIONS, PREPARATION OF SURVEYS
  - COLLABORATE WITH PARTNER UNIVERSITIES AND OTHER INSTITUTIONS TO EXCHANGE GOOD PRACTICES, IMPLEMENT INNOVATIVE IDEAS FROM STUDENTS AND STAFF (GREEN CHALLENGES).
  - LIVING LABS: DEVELOPMENT OF AN E-LEARNING PLATFORM ON SUSTAINABLE INNOVATION AND THE ENVIRONMENT, AND JOINT IMPLEMENTATION OF SUSTAINABLE PROJECTS FROM STUDENTS AND STAFF



# ELTE EKSZ – ELTE TOGETHER FOR ENVIRONMENTAL CONSCIOUSNESS

## One main objective in 2008:

Organising selective waste collection at  
Eötvös Loránd University

-No professional toolbars

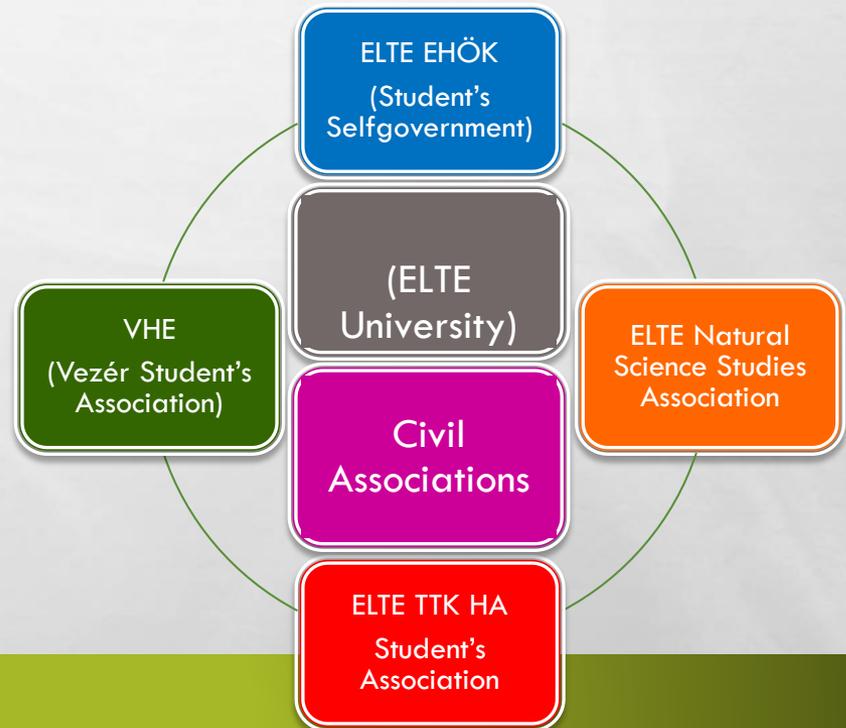
-No system

-Separated attempts of recycling at ELTE:

2001, ELTE VUK, 2006, ELTE NFK, 2007,  
ELTE TTK-IK-TATK, 2008, ELTE NUK , 2008,  
ELTE ADK



## Participants in 2008



# SUSTAINABILITY IN PRACTICE – MAIN PROGRAM ELEMENTS



ELTE EKSZ

# UNIVERSITY AND NGO COOPERATION

## Operating system – (during fulfillment)

IU= Institutional unit

ISt= Institutional staff

SWG= Sustainability working group (Civil formation)

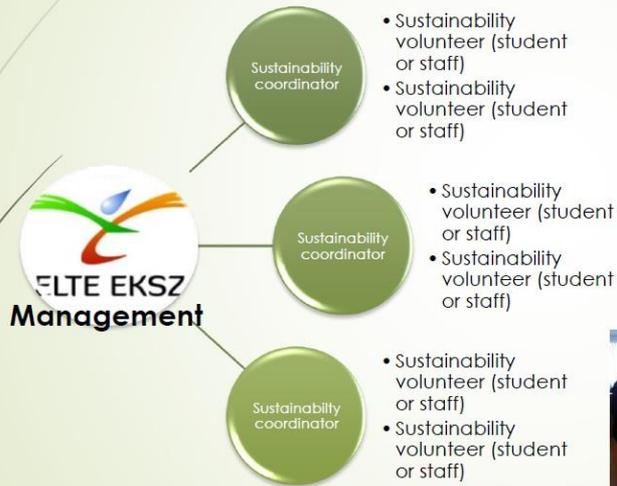
### Eötvös Loránd Tudományegyetem

IU																						
ISt																						
SWG																						

**ELTE EKSZ=Together for Environmental Awareness, ELTE**

# SUSTAINABILITY VOLUNTEERS AND WORKING GROUPS

## Operating system – SWTs (sustainability working groups)



# RESULTS BETWEEN 2008-2020

## Waste altogether

At least 2000 tons of waste to recycle from 2010 to 2019

From 1 st April 2014 several bins are cancelled due to the selective waste collection, saving 3.000.000 forints (10.526 euros per year to the insitution – 4 places)

## Compost

50000 liters of composting capacity

Kitchen and garden composting in place  
About 20-50% less waste in the bins



# Oil

2.300 liter
2.300.000 liter water saved



# Paper

On 2000 tons of recycled waste about 850 tons kg was paper
2000 tons of tree saved, didn't need to be cut

Volunteers'  
Working  
hours

50.000 hours

Value of  
80000 euros

Animals  
plants

8000 frogs  
50 Great tits  
50 Hedgehogs

10000 Flowers  
and Trees  
(100 trees)

# MAIN RESULTS

Estimated goodwill of the program

420.000.000  
forints

1.473.680  
euros

Education

The ELTE EKSZ Program compliances

The 6th Hungarian National Educational Program about Sustainable Development (2014-2019), because of the high involvement of the youth.

2016 – 2nd international place – ISCN

2017 – Magyar Telekom Delfin Díj

Benefits, savings

**NGO organisation works in order to institutional interests in a nonprofit way\_**

**KNOW HOW**

**30-40 million Ft-s/year= 62.500-70.000 euros**

**Waste know how: wood, plastic, composting in big scales**

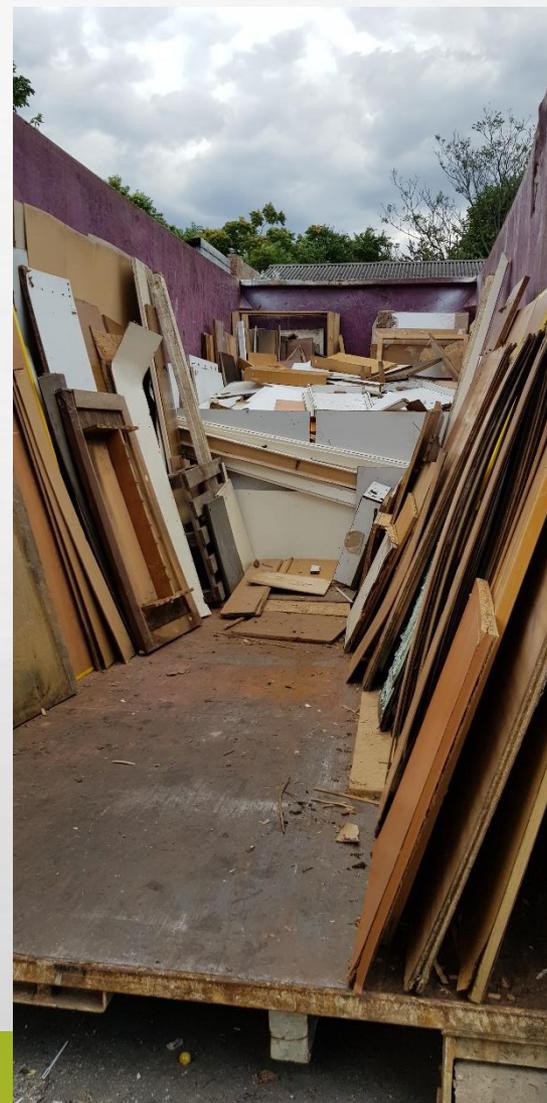


ELTE EKSZ

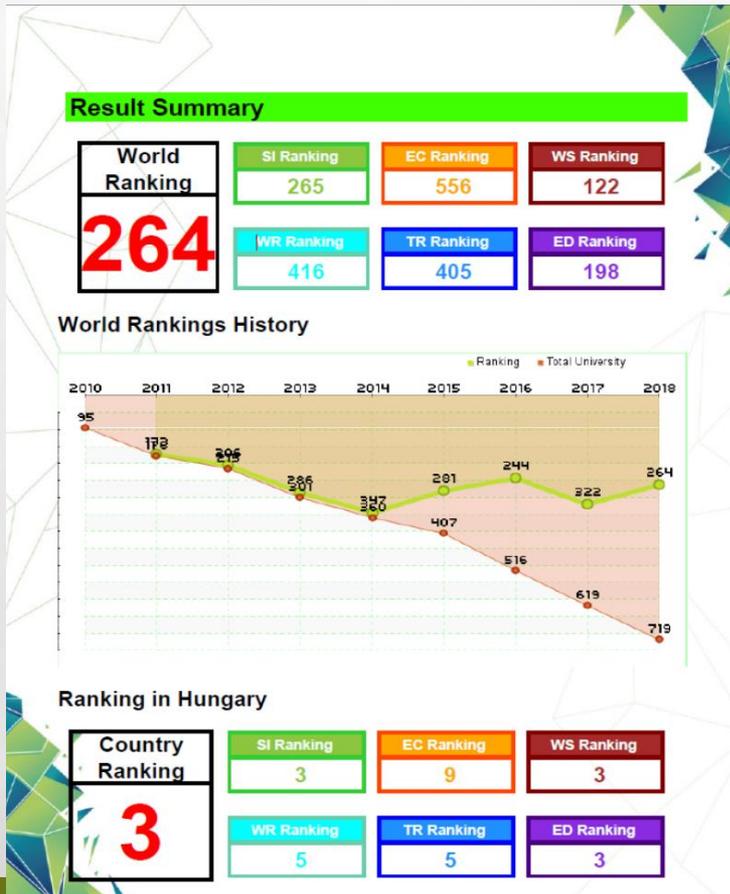
 KERESS MINKET A FACEBOOK-ON IS!

TÉGED IS VÁRUNK!

[www.fenntarthatosag.elte.hu](http://www.fenntarthatosag.elte.hu)



# INTERNATIONAL IMPROVEMENT - UI GREENMETRIC



## 2. RESULTS SUMMARY

<b>World Ranking</b>	<b>SI Ranking</b>	<b>EC Ranking</b>	<b>WS Ranking</b>
<b>244</b>	206	520	117
	<b>WR Ranking</b>	<b>TR Ranking</b>	<b>ED Ranking</b>
	512	332	169

## 3. WORLD RANKINGS HISTORY



Figure 3.1 World Rankings History Diagram

## 4. RANKING IN HUNGARY

<b>Country Ranking</b>	<b>SI Ranking</b>	<b>EC Ranking</b>	<b>WS Ranking</b>
<b>4</b>	3	5	4
	<b>WR Ranking</b>	<b>TR Ranking</b>	<b>ED Ranking</b>
	5	4	2

# **FUTURE, AIMS, PROJECTS**

- **INTERNATIONAL NETWORKING**
- **HUNGARIAN NETWORKING**
- **DEVELOPMENT OF THE PROGRAMS – UN SDGS**
- **SOURCE DEVELOPMENT**

