



V₄ Green Universities

Balázs Borkovits, international projectmanager
27 May 2020, 20th Steering Group Meeting of the Priority Area 2



University of Pécs

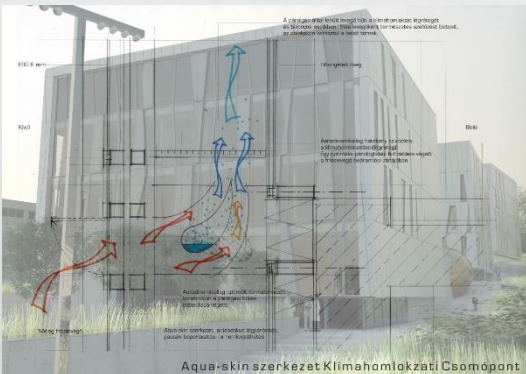


- Its roots date back to 1367
- 10 faculties, 22 doctoral schools
- 20.000 students, more than 4.000 international students
- 2.000 lecturers and researchers
- Szentágothai János Research Centre - biomedical, natural, engineering and environmental sciences
- Project based developments are supported by the Directorate of Grants of the Chancellery



• Visegrad Fund

Green Developments at UP



Setting up a 7700 m² research center (Science Building) - innovative ecological, passive house and smart house solutions, 30-40% lower maintenance cost compared to a traditional building. Building Physics Simulations and Building Management System. (2012)

Development of more advanced and cost-effective geothermal re-injection well technology that the currently used wells. (2021)

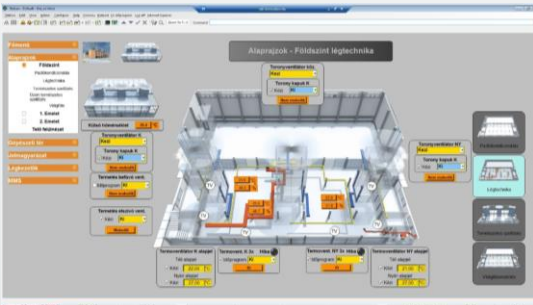
Installing PV panels, solar collectors, LED lighting at different premises



Green Developments at UP



Joint researches on raw material management, waste and residues (2021)



Elaborating educational program for designing and operating nearly zero energy buildings



Procuring electric vehicle (Nissan Leaf 2018) and charging station to promote e-mobility at Pécs

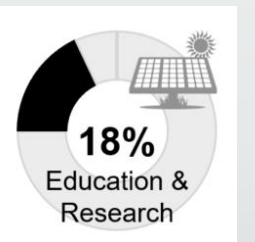
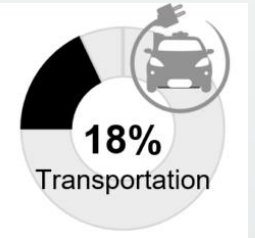
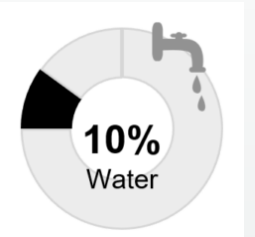
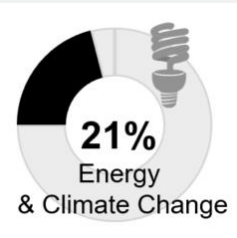
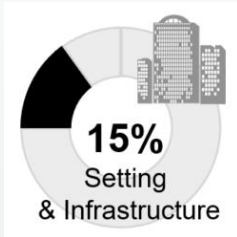


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Green University Program



- Started in 2016
- Complex system including built environment, ecologically conscious operation, behavioral change, creation of an educational and research background
- Voluntary cooperation of University employees, students
- Testing achievements in international environment: ranking of green universities launched by the University of Indonesia in 2010: <http://greenmetric.ui.ac.id/>
- Campaigns and project based developments
- Virtual Power Plant Program



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UI Green Metric



- Initiative of Universitas Indonesia, launched in 2010
- Uniform system, suitable to attract the support of thousands of the world's universities - results are based on a numerical scores that allows ranking
- Universities submit data via online surveys
- Setting & Infrastructure, Energy & Climate Change, Waste Water, Transportation, Education & Research



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V4GU – setting up the partnership



- Idea: Changing the behaviour of people may result in GHG cutbacks, but people need to be informed and motivated
- Why universities?
 - They represent **large communities** with their thousands of employees and ten thousands of students, who can also act as multipliers by sharing their eco-conscious practices with friends, family, wider public via social media.
 - They are also equipped with the **scientific knowledge** to measure the climate impacts of people's everyday routines, identify reduction potentials, measure results.
- As members of the Green Metric network, partners are all experienced in CP actions
- The Universities of the V4 countries take diverse positions in the ranking, which included 719 institutions (2018). These differences create great opportunities to learn from each other. Real cooperation can be established by a project.

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- Visegrad Fund
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V4GU – setting up the partnership

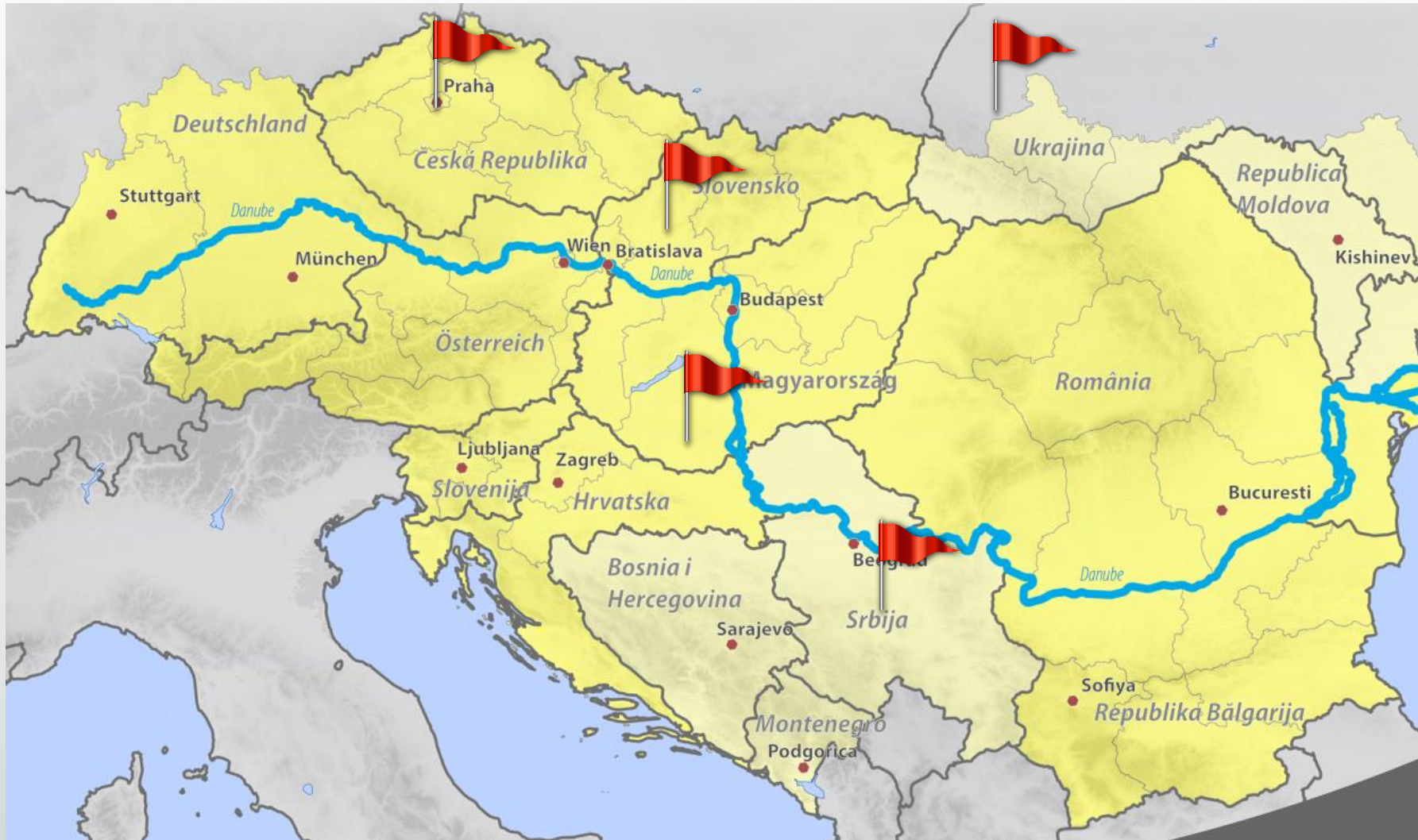


| Ranking | University | Total Score | Setting & Infrastructure | Energy & Climate Change | Waste | Water | Transportation | Education & Research |
|---------|---|-------------|--------------------------|-------------------------|-------|-------|----------------|----------------------|
| 46 | Czech University of Life Sciences Prague | 7275 | 1025 | 1650 | 1650 | 675 | 875 | 1400 |
| 77 | University Of Szeged | 7050 | 1175 | 1025 | 1650 | 550 | 1450 | 1200 |
| 141 | University Of Pecs | 6075 | 975 | 1100 | 1350 | 550 | 1075 | 1025 |
| 161 | Adam Mickiewicz University, Poznan | 5875 | 1275 | 800 | 1275 | 425 | 675 | 1425 |
| 265 | Eötvös Loránd University Budapest | 5225 | 925 | 675 | 1350 | 350 | 775 | 1150 |
| 278 | Gdansk University Of Technology | 5125 | 1100 | 850 | 1200 | 100 | 950 | 925 |
| 322 | University of Lodz | 4900 | 400 | 875 | 825 | 475 | 850 | 1475 |
| 351 | University of Hradec Kralove | 4750 | 650 | 1175 | 975 | 100 | 1175 | 675 |
| 355 | University of Debrecen | 4750 | 650 | 750 | 975 | 250 | 1050 | 1075 |
| 460 | Budapest Business School | 4275 | 600 | 1250 | 825 | 400 | 600 | 600 |
| 467 | University of Pardubice | 4250 | 525 | 1025 | 900 | 425 | 550 | 825 |
| 499 | University of Miskolc | 4075 | 500 | 1150 | 450 | 100 | 575 | 1300 |
| 526 | Corvinus University of Budapest | 3950 | 650 | 700 | 450 | 450 | 650 | 1050 |
| 534 | Szent Istvan Egyetem | 3900 | 675 | 725 | 525 | 325 | 825 | 825 |
| 549 | Slovak University of Agriculture in Nitra | 3800 | 800 | 525 | 600 | 175 | 600 | 1100 |

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| 198 | Ukrainian National Forestry University, Lviv | 5600 | 1175 | 675 | 975 | 400 | 900 | 1475 |
| 384 | University of Kragujevac | 4575 | 800 | 800 | 600 | 425 | 900 | 1050 |
| 549 | Slovak University of Agriculture in Nitra | 3800 | 800 | 525 | 600 | 175 | 600 | 1100 |

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V4GU – setting up the partnership



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V4GU – setting up the partnership



| | |
|------------|------|
| Prague | (CZ) |
| Nitra | (SK) |
| Kragujevac | (RS) |
| Lviv | (UA) |

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V4GU



- Duration: 1 March 2020 – 31 Aug 2021
- Budget: 32.300 EUR
- GM members see their positions in the ranking, but we do not have the possibility to **compare our results** in details. V4GU erases this barrier, and helps us to support citizens in understanding climate change, and their possibilities for reducing GHG.
- V4GU will reach more than 66.000 students and almost 11.000 employees
- Filling GM network with practical content, measurable GHG reductions. The partners also intend to keep organising annual workshops for their countries' universities to strengthen co-operations.
- Conferences in Slovakia and Czech Republic have been erased – to be integrated into the continuation



V4GU - Activities



| Activities | Timeplan | | | | | | | | | | | | | | | | | |
|--|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| | 2020 | | | | | | | | | | 2021 | | | | | | | |
| Tasks | mar | apr | may | jun | jul | aug | sep | oct | nov | dec | jan | feb | mar | apr | may | jun | jul | aug |
| Audit | | | | | | | | | | | | | | | | | | |
| Project design | | | | | | | | | | | | | | | | | | |
| Project website development: project description, activities (documents of events, video) and contact details in all partners' language versions. Edited and uploaded by HU, translations will be supported by the staff all partners (short texts, not translation fee is calculated). Launched in Apr, updated regularly during the project. | | | | | | | | | | | | | | | | | | |
| V4 Green University conference with press conference at Pécs - 22 Apr (Wednesday) , Earth Day. Attendees: project partner universities and all universities of the Hungary - altogether min 80 persons. | | HU | | | | | | | | | | | | | | | | |
| Kick off meeting at Pécs - 22 Apr - after the conference | | HU | | | | | | | | | | | | | | | | |
| Local workshops with press conference: All partners organise a workshop for the universities of their countries on 5 Jun , at the World Environment Day. Experiences of the V4 conferences and the social campaigns will be forwarded for local universities in all partner countries. At least 20 participants per event. | | | | | | | | | | | | | | | | All | | |
| Creating video campaign with innovative tools such as infographics, cartoons. Campaign should be launched at least 1 month before the social competition at HU, CZ, SK | | | | | | | | | | | | | | | | | | |
| Social competition for students (e.g. photo competition, energy saving competition, tests on knowledge on climate change, etc.) | | | | | | | | | | | | | | | | | | |
| Promo materials for the competition: T-shirts, canteens, USBs, etc. | | | | | | | | | | | | | | | | | | |
| Radio, TV, newspaper articles, interviews - general on the project and on green university messages | | | | | | | | | | | | | | | | | | |

Fund

Video campaign

1st place (2019): <https://youtu.be/3U1YA7tCoNM>



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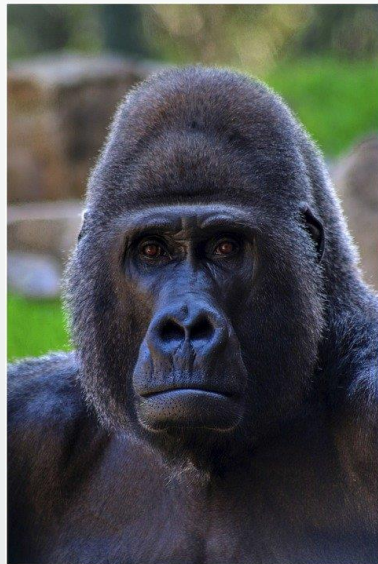
Awareness raising - Energy efficiency



Solar Decathlon 2019
(architecture: 2nd place, energy efficiency: 3rd place, viewer's choice award)

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Awareness raising - Waste



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Awareness raising - Transport



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Awareness raising – Water and nature



Jubileum Park – planting 650 trees

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Living labs / AR

Cooperation with the city

University of Pécs: awareness raising for students and citizens



City of Koprivnica (CR): Test field for public lighting industry





<http://v4gu.pte.hu/>

THANK YOU FOR YOUR
ATTENTION !

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