



University of Natural Resources and Life Sciences, Vienna

Integrated Doctoral Program for Environmental Policy, Management and Technology – INTENSE 586471-EPP- 1-2017- 1-EE- EPPKA2-CBHE- JP **KICK-OFF- Meeting Vienna, Austria, 26th – 28th March 2018**

SHORT INTRODUCTION OF THE ESTONIAN UNIVERSITY OF LIFE SCIENCES

KALEV SEPP

INSTITUTE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES ESTONIAN UNIVERSITY OF LIFE SCIENCES (EMÜ)



Short history in brief:

1848 – Tartu Veterinary School

1919 – Faculty of Agronomy (UT)

1951 – Estonian Academy of Agriculture

Different names of the Institution:

1951-1991 Estonian Academy of Agriculture

1991-2005 Estonian Agricultural University

Since 2005 Estonian University of Life Sciences, Eesti Maaülikool

Structural reforms in 2004/2005 Faculty of Agronomy Inst. Zooloogy and Botany **Inst. Experimental Biology** Inst. Plant Agrobiotechnology Inst. of Environmental Protection Inst. of Horticulture (in Polli) **Faculty of Veterinary Medicine** Inst. Animal Husbandry Agrobiocentre **Fac. Forestry** Inst. Forest Research Fac. Rural Engineering Fac. Agricultural Engineering Fac. Economics and Social Sci.

Institute of Agricultural and Environmental Sciences

Institute of Veterinary Medicine and Animal Sciences

Institute of Forestry and Rural Engineering

Inst. of Technology

College of Technology

Inst. of Economics and Social Sciences

- One of the 6 public universities in Estonia, 4th in size among public Estonian universities
- At the end of 2017, 926 people worked at the University, including 446 in an academic position
- As of 31.12.2017, the number of employees in full-time equivalent units constituted 775, of which 359 held an academic position.
- The average age of the academic staff was 46, that of professors 55, associate professors 49, lecturers 48, assistants 38, senior researchers 54, researchers 42 and junior researchers 33





DEVELOPMENT PLAN OF THE ESTONIAN UNIVERSITY OF LIFE SCIENCES, 2016 - 2025



University of Life Sciences is the only university in Estonia whose priorities in academic and research activities provide the sustainable development of natural resources necessary for the existence of Man as well as the preservation of heritage and habitat

The Development Plan (2016-2015) focuses on serving the society and increasing the competitiveness of the University, enhancing research and development activities, raising the efficiency of teaching and building up and boosting the strength of the University – integrated value chain approach in bio-economy sectors

Our mission:

The University creates and shares knowledge to the promotors of bioeconomy for the best of Nature and Man

Our vision is a green university with smallest possible ecological footprint, with healthy and good working and learning environment, university that takes into account the principles of sustainable development in all decision making processes and sets example in society









- According to Thomson Reuters Essential Science Indicators, Estonian University of Life Sciences belongs to the 1% of most cited research institutions in the world in the field of: a. plant and animal sciences; b. environment and ecology
- According to QS World University Rankings, the Estonian University of Life Sciences belongs to top 100 universities in the world in the field of Agriculture and Forestry (rank 51-100)
- Professor Ülo Niinemets being the most cited Estonian researcher altogether, one of the most influential natural and social scientists in the world by company Clarivate Analytics, who compiles the leader board of researchers. Head of the Centre of Excellence, EcolChange – Ecology of Global Change: natural and managed ecosystems





INSTITUTES AND AREAS OF SCIENTIFIC FIELDS - CHAIRS



J

EMU

EVERYTHING IN ONE PLACE – EMÜ CAMPUS ON THE OUTSKIRTS OF TARTU





RESEARCH CENTRES AND FIELD BASES





I

SMEAR Estonia. A large scale research infrastructure, the Station for Measuring Ecosystem-Atmosphere Relations (SMEAR) has been established in cooperation with University of Tartu, Tartu Observatory and University of Helsinki http://smear.emu.ee

- SMEAR Estonia started in 2008 at Liispõllu 20m tower
- SMEAR Estonia: the new 130m tower operates since 2013. Measurements of CO2, H2O and BVOC. Assessing meteorological data, concentrations of greenhouse gases and reactive trace gases such as ozone and Nox
- Linking the fields of plant- and ecophysiology, soil sciences, forestry, micrometeorology, atmospheric chemistry and physics and mathematical modeling



Key finding 2012: Dense hemiboreal mixed forest leads to accumulation of gases inside the canopy





Number of Students ~3400

Bachelor studies	2300
MSc	900
PhD	220
Foreign students	182



PhD Programs

- Environmental Sciences and Applied Biology
- Forestry
- Agricultural Sciences
- Veterinary Medicine and Food Science
- Engineering Sciences

English-language programmes

- Veterinary Medicine Studies
- Landscape Architecture (Master's Programme)



- Erasmus+: 242 agreements with EU universities, 01.02.2018
- Erasmus+ credit mobility inter-institutional agreements (outside EU): 11 agreements (Belarus, Ukraine, Armenia, Jordan, Georgia, Kazakhstan, Uzbekistan, Serbia, Mexico, USA).
- Other bilateral agreements: 22
- Full International programmes: landscape architecture, veterinary medicine
- International study modules in English in each study programme group
- Target for 2022: 12 % international students, 10 % international teaching staff
- Students and staff members from 33 countries (Finland, Ukraine, Iran etc)



 International projects: Europe Research Grant (ERC), Horizon 2020, Europe Culture, Erasmus+, Interreg, Biodiversa, Cost Action, Era-Planet, LIFE+





























EUROPEAN CENTR F ENERGY NETWORK

















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Co-operation with the Ministries:

- Strategy on Adapting Climate Change, 2100 (forestry, tourism, hunting, biodiversity, inland waterbodies, hunting, ecosystem services, agriculture, fishing)
- Defining and mapping ecosystem services of agriculture; rivers, lakes and sea
- Applied research and surveys for Ministries
- The Estonian Presidency Conferences in 2017: "Nature-based Solutions: From Innovation to Common-use" (NBS2017); "Soil for food production and ecosystem services"
- **Thematic conferences:** Soil Science, Plant Health, Agroforum Mare Balticum, Green Growth Forum, Baltic Surveying, Innovative Approaches in Environmental Sciences
- Science Popularization: Living Science, Researchers' Night, Natural School, Science Battle

Other partners:

Estonian Land Board, Estonian Agricultural Registers and Information Board, State Real Estate Ltd, Estonian State Forest Management Centre (RMK), Tartu City council, etc.













THANK YOU!