

Weihenstephan-Triesdorf 'green' and innovative

Applied Research and Development at the green University of Applied Sciences



Teaching and Research Structure

Departments

- » Biotechnology and Bioinformatics
- » Horticulture and Food Technology
- » Landscape Architecture
- » Agriculture and Food Economy
- » Agriculture
- » Environmental Engineering
- » Forestry

Students

- » 6,300 students
- » 1,700 new students (2014/15)

Research Facilities

- » Centre for Research and Continuing Education
 - > Institute for Horticulture
 - Institute for Landscape Architecture
 - Institute for Food Technology
- » Straubing Centre of Science

Research Projects

- » 12 projects supported by the EU
- » 57 projects supported by the federal government and the State of Bavaria
- » 88 projects supported by external sponsors
- » 62 cooperative dissertations



Four Societal Challenges of "Horizon 2020" meet HSWT Research Topics

Challenge 1: Health, Demographic Change and Wellbeing	Challenge 2: Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
HSWT 1. Land Use and Nutrition 2. Renewable Energies and Renewable Raw Materials 3. Technological Impact Assessment and Precautionary Environmental Planning	
Challenge 3: Secure, Clean and Efficient Energy	Challenge 4: Climate Action, Environment, Resource Efficiency and Raw Materials

Research Topics HSWT

HOCHSCHULE WEIHENSTEPHAN-TRIESDORF UNIVERSITY OF APPLIED SCIENCES









GHG Europe

Greenhouse gas (GHG) management in European land use systems

Research Focus

Greenhouse gas emissions are not evenly distributed across land use systems and regions of Europe. Spatial concentrations (*hotspots*) and temporal discontinuities (*hotmoments*) predominantly account for the existing uncertainties in the quantification of the European greenhouse gas budget.

GHG-Europe will focus on *hotspots* (peatlands, mediterranean shrublands, Eastern European forests) *hotmoments* (land use change, intensification/extensification of land use, bioenergy production) and *driving factors* (climate/climate variability, management, disturbances, N-deposition).







PERFORMANCE

PERsonalised FOod using Rapid MAnufacturing for the Nutrition of elderly ConsumErs

PERFORMANCE is a 3-year (EU-funded) research project addressing patients with mastication and swallowing problems.

Research Focus

Development of a personalised food supply chain for elderly people based on 3-D Food Printing. Personalisation will be based on preferences, portion size and nutrient composition as well as food texture. The innovative products developed (based on food purees) will have the appearance and taste of natural traditional meals.





HSWT has Joint Research Projects with over 120 Business Enterprises

- » For education and research, HSWT cooperates closely with a large number of companies from different sectors that are involved in the energy transition
- » The cooperation with self-help business institutions and non-governmental organizations which are supporting the energy transition critically is of particular importance.
- » For the regional planning management and implementation, the close cooperation with communities, official agencies and ministries is of crucial importance.



Selection of partnerships



HSWT Cooperates with National and International Universities and Research and Technology Institutions

- » Over 100 projects in joint research and development with national universities, research and technology institutions
- » National cooperation with 55 universities
- International cooperation with over 100 universities
- » 62 cooperative dissertations

With its campus Weihenstephan, the HSWT forms part of the largest "green" campus in Germany with numerous renown institutions like f. ex. the Technical University Munich and some State Institutes of Bavaria.

Fraunhofer-Institut für Verfahrenstechnik Humboldt-Universitä Ludwigs-Maximilians-Universität München Universitä Hochschule für Wirtschaft und Technik Dresden Max-Planck-Institut für Biogeochemie Wissenschaftszentrum Weihenstephan für Ernährung, Landnutzung und Ernährung Forschungsinstitut für biologischen Landbau Hochschule München Karlsruher Institut für Technologie Leibniz-Institut für Ostseeforschung Warnemünde Leibniz-Universität Ha München Universität Regensburg Leibniz-Zentrum für Agrarforschung **Agroscope Changins-Wädenswil 'hünen Institut** Helmholtz-Zentrum für Umweltforschung

Selection of partnerships



We are looking for ...

... projects and project partnerships in the following fields of Societal Challenges defined in Horizon 2020

- » Health, Demographic Change and Wellbeing
- » Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the Bioeconomy
- » Secure, Clean and Efficient Energy
- » Climate Action, Environment, Resource Efficiency and Raw Materials



Thank you for your attention!



Campus Freising-Weihenstephan



Campus Triesdorf



Experimental Station of Fruit-Growing at Lake Constance



Campus Straubing