



Research and Development

Projects

World Wide

2013 - 2015



Czech University of Life Sciences Prague

**Faculty of Tropical
AgriSciences**

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Czech University of Life Sciences Prague

Faculty of Tropical AgriSciences

The Faculty of Tropical AgriSciences (FTA) is an independent, educational, research and scientific academic body of the Czech University of Life Sciences Prague (CULS) for research into and study of tropical and subtropical regions. It was established in 1961 as the “Institute of Tropical and Subtropical Agriculture”, which was later renamed to the “Institute of Tropics and Subtropics” (ITS). The faculty itself was established on 1st January 2013.

Teaching and Instruction

The FTA offers education in agricultural, environmental and rural development in specific tropical and subtropical regions at both undergraduate and postgraduate levels. FTA graduates are awarded B.Sc., M.Sc. and Ph.D. degrees. Teaching activities are conducted by four FTA departments, which are equipped with the necessary facilities: experimental greenhouses in the Botanical garden, fields, laboratories, farms and computer hardware and software infrastructure.

FTA Departments

- **The Department of Crop Sciences and Agroforestry** focused on crop production, agroforestry, agroecology and ethnobotany in tropics and subtropics (TS)
- **The Department of Animal Science and Food Processing** focused on the breeding, physiology, nutrition, welfare and etology of farm, domesticated and wild animals in TS
- **The Department of Economics and Development** focused on poverty alleviation strategies, agricultural extension, the development of farming systems, trade, market-chain and microfinance in TS
- **The Department of Sustainable Technologies** focused on implementation of appropriate technologies in rural areas of TS

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Faculty of Tropical AgriSciences

Other Units of the FTA

There are other FTA units and activities important for the implementation of its primary goals:

- Advisory and Project Service Centre
- Lifelong Learning Programme Erasmus Implementation Unit
- Erasmus Mundus Programme Implementation Unit
- Development Projects Implementation Unit
- Botanical Garden
- Experimental breeding farm for elands and guanacos

Structure of Study

The structure of study programmes respect the principles of the Bologna Declaration based on 3 (B.Sc.) + 2 (M.Sc.) academic years and followed by 3 years of Ph.D. studies. Subjects are both compulsory and optional.

Study programmes at the FTA are as follows:

Two B.Sc. programmes in Czech:

- Tropical and Subtropical Agriculture
- Sustainable Rural Development in TS

Six M.Sc. programmes in English:

- Tropical Forestry and Agroforestry
- Tropical Crop Management and Ecology
- Sustainable Rural Development in TS
- International Development and Agricultural Economics
- Animal and Food Science in TS
- Wildlife Management in TS

Two Ph.D. programmes in Czech and English:

- Tropical and Subtropical Agriculture
- Sustainable Rural Development in TS



Farming of Elands (*Taurotragus oryx*) and Guanacos (*Lama guanicoe*) at the Farm in Lány under the Management of the FTA

Target Country: The Czech Republic
(with possible applications in other temperate, subtropical or tropical countries)

Project Coordinator: Radim Kotrba

Project Team: Employees of the Department of Animal Science and Food Processing in Tropics and Subtropics, Faculty of Tropical AgriSciences, Czech University of Life Sciences Prague (CULS)

International scientific cooperation: University of Winnipeg, Canada; University of Veterinary Medicine in Vienna, Austria; University of Castilla-La Mancha, Spain; University of Stellenbosh, South African Republic

Donor: CULS, governmental and private funds

Duration of the Project: Elands - since 2002 (since 2006 at Lány), Guanacos – since 2009

Aim of the Project:

- to evaluate the breeding technology from an animal welfare perspective and raise these species for meat production, land maintenance and agro tourism in the Czech Republic
- to continue with scientific research to enhance knowledge about both, still not sufficiently understood, species
- to educate and train students of the FTA in breeding techniques with semi-domesticated species and to sponsor student research

Outputs of the Project:

- scientific publications, theses of students, consultancy and an intensive farming hand book for private farmers
- tame breeding stock selected for production and intensive husbandry, and the primary production of quality, low-fat meat

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Faculty of Tropical AgriSciences

DEVELOPMENT COOPERATION AND PROJECTS OF THE FACULTY OF TROPICAL AGRISCIENCES



CZECH REPUBLIC
DEVELOPMENT COOPERATION

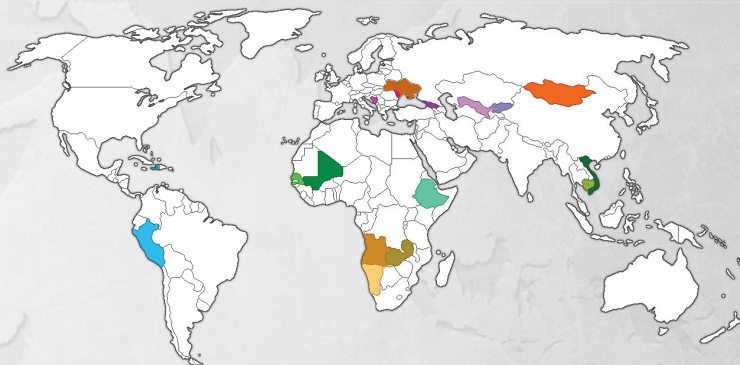
FTA research activities encompass:

- basic and applied research in the field of tropical and subtropical agriculture
- sustainable rural development in the tropics and subtropics

FTA cooperates especially with countries and regions selected according to priorities of the Czech Official Development Assistance together with countries, where FTA has a long history of mutual relationship.

Our development projects have been successfully conducted in the following countries:

Angola, Bosnia and Herzegovina, Cambodia, Ethiopia, Georgia, Haiti, Jordan, Mali, Kyrgyzstan, Moldova, Mongolia, Namibia, Peru, Senegal, Ukraine, Uzbekistan, Vietnam, Zambia



Research is financed by government grants and private donors and/or entrepreneurs' contributions. New research topics are being introduced with an emphasis on the sustainable development of rural areas in developing countries. The FTA is a coordinating institution and participates in both Czech and international activities (EU, FAO and UNIDO).

The projects in which FTA participates are mostly formulated by its research and scientific staff according to the needs of the recipient countries with the assistance of the various foreign institutions involved. Project selection targets the most pressing sectors (usually food production and security, rural development) in the poorest countries or regions.

Towards a long-term Africa-EU partnership to raise sustainable food and nutrition security in Africa

Target region: The African continent

Project coordinator: Wageningen University (the Netherlands), Forum for Agricultural Research in Africa (Ghana), Centre de Cooperation International en Recherche Agronomique pour le Développement (CIRAD, France)

Project coordinator at CULS: Radim Kotrba

Project team CULS: Jan Banout, Petra Chaloupková, Bohdan Lojka

Project participants:

Austria (University of Natural Resources and Life Sciences), **Belgium** (Université Catholique de Louvain), **Botswana** (Centre for Coordination of Agricultural Research and Development for Southern Africa), **Burkina Faso** (Institut de l'Environnement et Recherches Agricoles), **Denmark** (University of Copenhagen), **Finland** (MTT Agrifood Research), **Germany** (Rheinische Friedrich-Wilhelms-Universität Bonn), **Ghana** (Crops Research Institute, Kumasi), **Hungary** (Szent István University), **Ireland** (Teagasc – the Agriculture and Food Development Authority), **Norway** (Norwegian Institute for Agricultural and Environmental Research), **Portugal** (Instituto de Investigação Científica Tropical), **Senegal** (Conseil Ouest et Centre Africain pour la Recherche et le Développement Agricoles/West and Central African Council for Agricultural Research and Development), **South Africa** (Agricultural Research Council), **Spain** (Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria), **Sweden** (Swedish University of Agricultural Sciences), **Uganda** (African Forum for Agricultural Advisory Services, The registered trustees of the Association for Strengthening Agricultural Research in Eastern and Central Africa), **United Kingdom** (University of Greenwich)

Donor: European Commission - research, programme Horizon 2020

Call: H2020-SFS-2014-1

Topic: SFS-06-2014

Type of action: CSA

Budget for CULS: 8 350 EUR

Duration of project: 2015 - 2017

Aim of the Project:

PROIntensAfrica intends to develop a proposal for a long term research and innovation partnership between Europe and Africa, focusing on the improvement of the food and nutrition security and the livelihoods of African farmers by exploring and exploiting the diversity of pathways to the sustainable intensification of African agro-food systems. The exploration will include environmental, economic and social externalities along the whole value chain. PROIntensAfrica has the ambition to

formulate a research and innovation agenda, identifying the domains in need of further research to realize the potential of African food systems. In addition, PROIntensAfrica will suggest governance mechanisms that are effective in supporting this partnership. Key is the perception that pooling resources is the best way to align existing, and initiate new, research. This perception follows the policy of the EU, where instruments of joint programming like ERA-NET, JPI and article 185 aim to accomplish synergy and increase the effectiveness of resources. Pooling resources goes beyond the scientific domain and reaches into the policy domain. Consequently, besides being rooted in sound and challenging research, any partnership proposal needs to address national and international policies to fly. Therefore PROIntensAfrica pays specific attention to engagement with the policy domain, as exemplified by the intended creation of a policy support group. The rationale of the project is that a variety of pathways can lead to the sustainable intensification of African food systems. Different pathways are advocated in the literature. High-input farming systems, for example, contrast with organic farming systems, each with their own supporters and critics. It is the conviction of the PROIntensAfrica consortium that moving beyond that debate will open up exciting new pathways, and that combining elements of different systems will yield innovative systems that are optimally adapted to specific contexts.

Outputs of Work Package 2 (Involvement of CULS):

- A literature review about experiences and research and innovation results obtained through a large spectrum of intensification pathways (month 8)
- An assessment framework including a list of criteria and indicators for evaluating the effects, impacts and drivers of different pathways of intensification at plot, farm, communities and public policies scales (month 9)
- A brief and in-depth case study reports of identified cases, including a synthetic cross-analysis report (month 19)
- A research and innovation agenda for sustainable intensification for the future joint partnership programme (month 20)

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Improving the Quality of Teaching at the Faculty of Agriculture and Food Technology at the University of Mostar and the Agromediterranean Faculty of the University Djemal Bijedić of Mostar

Target country: Bosnia and Hercegovina

Project coordinator: Vladimír Verner

Project team: Iva Nádvořníková, Libuše Valešová, Sandra Krupičková

Partners in Bosnia: University of Mostar, University Djemal Bijedić of Mostar

Donor: Czech Development Agency

Budget: 1 432 100 CZK

Duration of project: 2014 - 2015

Aim of the Project:

The project will help to reduce currently marginalized higher education in Bosnia and Herzegovina as well as improve the quality of education in the areas of agriculture and food industry through knowledge transfer, exchange of students and teachers, and the establishment of cooperation between the Czech University of Life Sciences Prague (CULS) represented by the Faculty of Tropical AgriSciences (FTA) and two universities in Mostar, the Faculty of Agriculture and Food Technology the University of Mostar (FZPTMO) and the Agro Mediterranean Faculty of the Djemal Bijedić University of Mostar (AFUDBMO).

Outputs of the Project:

- extended knowledge and experience of Bosnian students
- the development of joint research projects with both faculties
- strengthening the capacity of teachers and academic staff at FZPTMO as well as at AFUDBMO
- supporting the science and research capacities of both target universities through scientific seminars
- support for the international mobility of students

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The Capacity building for Higher Agricultural Education in Cambodia

Target country: Cambodia

Project coordinator: Petra Chaloupková

Project team: Jan Banout, Lukáš Kalous, Miloslav Petrtýl, Jiří Hejkrlik

Partners of the project: Royal University of Agriculture

Donor: Czech Development Agency

Budget: 3 122 625 CZK

Duration of project: 2012 - 2013, 2014

Aim of the Project:

The project is focused on support for the improvement of the quality of agricultural higher education in Cambodia through cooperation between experts from the Czech University of Life Sciences Prague (CULS) and the Royal University of Agriculture (RUA). The chief outputs of the project include support for development in the area of research, pedagogical and international activities. The project is based on direct contributions by Czech university lecturers and managers to the development of the Royal Agriculture University, especially at the following faculties: (i) Agricultural Technology and Management, (ii) Fisheries (iii) Agricultural Economics and Rural Development, and (iv) Agro-Industry. The target group of the project includes the students and teaching staff of the RUA.

Outputs of the Project:

The objective is fulfilled by the following activities. In the area of the quality of education, the focus is mainly on building up the pedagogical and didactical capacities of the local academic staff by Czech experts, the implementation of a system of quality control, organized Career Days, a Film Festival and Summer School for both Cambodian and Czech students. In the area of research, the main focus is placed on the identification and implementation of joint research topics, support for the scientific activities of RUA and support of talented Cambodian students and their research projects. In the area of international relations, the project prioritizes the preparation of joint projects oriented towards student mobility (e.g. the Erasmus Mundus project "ALFABET") and research activities (the Erasmus Mundus project "ASK Asia"). An important part of the project also includes the provision of necessary equipment to the RUA and project promotion in the Czech Republic and Cambodia.

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The Enhancement of Quality and Extent of Extension Services of Angacha Woreda, Kembata Tembaro Zone

Target country: Ethiopia

Project coordinator: Kristina Rušarová

Project team: Hidare Diriba Debar, Emlelu Abi, Anteneh Zenebe, Muluaem Masresha, Yetbark Ababa, Henock Haile

Partners in Ethiopia: Bureau of Agriculture and Rural Development of SNNPR, Woreda Agricultural and Rural Development Office of Angacha Woreda

Donor: Czech Development Agency

Budget: 14 461 000 CZK

Duration of project: 2011 - 2015

Aim of the Project:

The project aims to improve the efficiency of the extension system in Angacha woreda through enhancing the capacity and knowledge of development agents (DAs) in Farmer training centres (FTCs) and to introduce new technologies and income generating activities for the farmers and development agents.

Outputs of the Project:

- enhanced capacity and knowledge of DAs and farmers in Angacha woreda – training focused on Beekeeping, Animal Breeding (small ruminants health, nutrition, hybridization), Processing of Agricultural Products and Storage, Production of Oil Crops, Water Harvesting and Watershed management
- equipping of eight FTCs: agricultural tools, training room furniture, beekeeping tools, water tank, water harvesting pond, etc.
- establishment of a Processing Centre for Agricultural products – equipment available: two movable threshing machines, an oil pressing machine and filter, a seed cleaner, a grinder (hammer-mill), a mill-stone, a solar dryer, an enset (qocho) squeezer
- establishment of an Animal Breeding Centre – for the natural insemination of local sheep and goats by males of the improved breeds Dorper and Boer respectively
- establishment of a Beekeeping Centre
- establishment of a farmers' cooperative in order to manage the Centres and to facilitate cooperation between this newly established cooperative and FTCs
- construction of three residences for DAs

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ETHIOPIA

Czech Teachers Supporting Quality Improvement at the Hawassa University Institute of Technology in Ethiopia

Target country: Ethiopia

Project coordinator: Kristina Rušarová

Project team: Hidare Diriba Debar, Jan Banout, David Herák, Moltot Zewdie, Dessalegn Jawesso, Feto Ismo, Jana Mazancová, Milan Kroulík, Jiří Hejkrlík, Jiří Votava

Partners of the project: Faculty of Engineering, CULS Prague

Partners in Ethiopia: Hawassa University Institute of Technology

Donor: Czech Development Agency

Budget: 3 162 000 CZK

Duration of project: 2013 - 2015

Aim of the Project:

The project is focused on improvement of both the practical and theoretical efficiency of knowledge transfer to the Institute of Technology (IoT) students through the involvement of the Czech University of Life Sciences Prague (CULS) teachers.

Outputs of the Project:

- participation of the CULS teachers in the teaching of chosen subjects (for example, Processing of Agricultural Products, Alternative Energy Sources, Waste Management)
- training for IoT teachers and management – seminars to increase and upgrade pedagogical and didactical competencies, workshops regarding the gaps identified by the IoT teachers
- material provision to the IoT (books) and to the School for Biosystems and Environmental Engineering of IoT (laboratory equipment)
- support for Science and Research at IoT – seminars regarding research and publication activities, the provision of small research grants to IoT students

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Czech Teachers Supporting Scientific and the Development of the Research Capacities of Teachers at the Hawassa University Institute of Technology

Target country: Ethiopia

Project coordinator: Kristina Rušarová

Project team: Hidare Diriba Debar, Jan Banout, David Herák, Moltot Zewdie, Dessalegn Jawesso, Feto Ismo, Iva Kučerová, Petr Hrabě, Čestmír Mizera

Partners of the project: Faculty of Engineering, CULS

Partners in Ethiopia: Hawassa University Institute of Technology

Donor: Czech Development Agency

Budget: 1 581 000 CZK

Duration of project: 2014 - 2015

Aim of the Project:

To contribute and support towards the improvement of Ethiopian higher education at the Institute of Technology (IoT) and the improvement of Hawassa University's professional prestige at the international level. The objective of the project is to increase the quality of scientific-research activities of the teachers at IoT through involvement of the Czech University of Life Sciences Prague (CULS).

Outputs of the Project:

- mutual scientific cooperation between IoT and CULS based on support for the carrying out of research by IoT teams under the supervision of CULS experts (Jan Banout, David Herák)
- provision of specific workshops for team leaders
- improvement in the quality and quantity of science & research activities at IoT – the submission of the results of the research teams in the form of manuscripts to prestigious scientific journals and in the form of contributions to international conferences
- training for young researchers regarding research and preparation of scientific outputs

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ETHIOPIA

Support of Small and Medium-sized Enterprises in Food Processing and Conservation Technologies

Target country: Ethiopia

Project coordinator: Vladimír Krepl

Project team: Pavel Burian, Jana Bukovská

Partners of the project: Ministry of Industry in Ethiopia

Donor: Ministry of Industry and Trade, Czech Republic

Budget: 2 056 000 CZK

Duration of project: 2012 - 2014

Aim of the Project:

The aim of project is determined to by its predecessors: the 2012 project was focused on training material preparation for the cereal and oil-processing industries, the 2013 project on improvement of teaching skills and the proper use of the materials prepared in previous year.

The follow-up for 2014 is aiming to create a practical training environment, where the workers of selected industries will be able to gain practical knowledge and know-how, as well as to learn about Czech-made machinery for the industry. Due the nature of the target sectors, the edible-oil processing sector was selected for 2014.

Outputs of the Project:

- finalization of the Job Description of the Food, Beverage and Pharmaceutical Industry Development Institute
- provision of multi-year practical training plans encompassing all stakeholders in cooperation with the Ministry of Industry in Ethiopia
- provision of professional workshops and excursions for the two groups of Ethiopia experts in the Czech Republic

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Support of Effective Cooperative Management in the Imereti Region, Georgia

Target country: Georgia

Project coordinator: People in Need

CULS project coordinator: Jiří Hejkrlik

Project team: Helena Kotková, Jana Mazancová, Alena Neradová, Zbyněk Polesný

Donor: Czech Development Agency

Budget: 5 500 000 CZK

Duration of the project: 2013 – 2015

Aim of the Project:

The project addresses the current needs of agricultural development in the rural areas of Georgia. Farmers are often reluctant to work together using traditional techniques and keeping stereotypes for generations. Poor management of production and marketing with local commodities often results into low profits and weak market competitiveness. Despite this, several surveys indicate that cooperation is crucial for the survival of agriculture as an economic sector.

The main objective of the project is to improve the economic situation in rural areas of the Imereti region through sustainable management of cooperatives, agricultural enterprises and professional associations focused on cooperation between small farmers.

Outputs of the Project:

- to improve agricultural production and its volume through the enhancement of the capacities and knowledge of farmers in management, field cooperation and new technologies
- to ensure the sustainable running of the agricultural cooperatives supported bringing together farmers and entrepreneurs from the Imereti region and helping their further development
- to improve the entrepreneurial environment for farmers by disseminating information related to the corresponding agricultural sector focused on new agricultural legislation and farmers' involvement in planning the development of agricultural infrastructure

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GEORGIA

ENPARD Georgia: Enhancing Small Farmers' Cooperation and Productivity in the Imereti Region

Target country: Georgia

Project coordinator: People in Need

CULS project coordinator: Jiří Hejkrlik

Project team: Jana Mazancová, Alena Neradová

Partners of the project: Biological Farming Association Elkana, Association of Young Economists Georgia

Donor: European Commission – ENPARD, Europe Aid

Budget: 3 million EUR

Duration of the project: 2014 – 2017

Aim of the Project:

The main objective of the project is the reduction of rural poverty in Imereti. Via the development of business-oriented small farmers' and rural entrepreneur groups and with support for a more favourable agribusiness environment, the project supports Imereti farmers in achieving economies of scale and ultimately fulfil the region's agricultural development potential.

Within the project at least 24 cooperatives will be established. These will be chosen on the basis of a grant competition with the possibility of receiving technical sub-grants valued from 35 000 EUR to 60 000 EUR. As part of the grant competition, a mandatory intensive training course for all applicants will be provided, focusing on the principles and organisation of cooperatives, the development of business plans and the drafting of cooperative statutes.

Outputs of the Project:

- to increase farmers' incomes via more efficient business practices and the successful development of business-oriented small farmers' and entrepreneur groups
- to increase agricultural yields and the volume of sales thanks to modern, improved farming, production, processing and marketing techniques
- to improve the agribusiness environment and agriculture sector legislation as a result of farmers' and rural populations' direct participation in policy making processes

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Improvement of the Quality of Education at Akaki Tsereteli State University

Target country: Georgia

Project coordinator: Jana Mazancová

Project team: David Gegechkori, Jiří Hejkrlík, Roman Kvasnička, Tomáš Hes, Tomáš Rätinger, Vladimír Verner, Jiří Votava, Suraj Ghimire

Partners in Georgia: Akaki Tsereteli State University in Kutaisi, Faculty of Agriculture (FA) and Faculty of Business, Law and Social Sciences

Donor: Czech Development Agency

Budget: 1 536 000 CZK

Duration of project: 2014 - 2015

Aim of the Project:

The project contributes to filling the current gap in the Georgian tertiary education in the sector of the development of agricultural cooperatives and small and medium agricultural enterprises, which is a priority of new Georgian Government as well as of international donors (e.g. EU – ENPARD project) through know-how transfer between CULS Prague and the Akaki Tsereteli State University (ATSU) in Kutaisi, the Faculty of Agriculture and the Faculty of Business, Law and Social Sciences, in particular.

Outputs of the Project:

- increased quality of education in seven study courses at the Faculty of Agriculture and the Faculty of Business, Law and Social Sciences
- the improvement of the pedagogical competencies of teachers of ATSU in Kutaisi
- the strengthening of research and scientific capacities of ATSU among Kutaisi academic staff
- a Summer school in Georgia ATSU in Kutaisi

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GEORGIA

Missions of Czech Professors to Moldova – Support to Increasing the Quality of Higher Education in Selected Developing Countries

Target Country: Republic of Moldova

Project coordinator: Bohumil Havrland

Project team: Tatiana Ivanova, Alexander Kandakov, Lucie Ackermann Blažková

Partners in Moldova: State Agrarian University of Moldova (SAUM), Chisinau

Donor: Czech Development Agency

Budget: 2 200 475 CZK

Duration of project: 2012 – 2014

Aim of the Project:

The present project is focused on resolving the low quality of Moldovan agricultural university education, which is closely linked to the slow development of Moldovan rural areas. The project aims to support educational processes, research and international activities at the State Agrarian University of Moldova (SAUM) through a series of organizational, technical and material inputs, attempting to bring the quality of its main activities up to European standards.

Outputs of the Project:

- increasing the quality of the teaching process, research and international activities at the SAUM via international cooperation between universities and the involvement of professors from Czech universities
- the computerization of the SAUM,
- the certification of the bioenergy laboratories
- the provision of support for the activities of the scientific and teaching laboratories

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Enhancement of Fruit and Vegetable Production with Added Market Value in Moldova

Target country: Moldova

Project coordinator: People in Need

CULS project coordinator: Jana Mazancová

Project team: Jiří Hejkrlík, Jan Banout, Alexander Kandakov

Partners in Georgia: agricultural cooperatives in the localities of Hirtop, Sculeni, Casanesti, Dobrogea Vece, Delaceu a Puhaceni

Donor: Czech Development Agency

Budget: 1 280 000 CZK

Duration of project: 2014 - 2016

Aim of the Project:

The project focuses on giving support to selected agricultural cooperatives in Moldova. Above all, it will include technical assistance to help the effective operation of the selected cooperatives, strengthen their capacities through training sessions, optimizing business plans and provide support in finding access for their agricultural products to local and foreign markets.

Outputs of the Project:

Successful project implementation will contribute to the target of the project – to ensure continuous access of agricultural products from small and medium-sized farmers to the local market, to ensure food security and thus to increase the living standards of small and medium-sized producers of agricultural products in Moldova.

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MOLDOVA

Improving the Quality of Teaching at the Mongolian University of Life Sciences

Target country: Mongolia

Project coordinator: Jana Mazancová

Project team: Jiří Hejkrliík, Petr Herold, Alena Neradová, Suraj Ghimire, Vladimír Verner, Jiří Votava, Gombodorj Ganchimeg

Partners of the project: Mongolian University of Life Sciences

Donor: Czech Development Agency

Budget: 2 620 000 CZK

Duration of project: 2012 – 2014

Aim of the Project:

The project contributes to the improvement of the quality of Mongolian higher education in the field of agriculture and rural development through the transfer of know-how between the Czech University of Life Sciences Prague (CULS) and the Mongolian University of Life Sciences (MULS) in Ulaanbaatar city. The project will be based on direct contributions from Czech university lecturers and managers to the development of the School of Economics and Business (SEB) within MSUA.

Outputs of the Project:

- analysis of the current situation in the field of education, international relations and science; several activities in each domain will be executed based on these results
- the improvement of selected courses (Econometrics, Environmental economics, Project management) through the direct participation of Czech FTA/CULS lecturers in Mongolia
- the enhancement of the pedagogical and didactical capacities of the local academic staff, the introduction of modern teaching methods (case study teaching, discussions, project design and implementation, etc.) and enhancement of the English speaking abilities of Mongolian lecturers
- the identification and implementation of joint research topics, the support of scientific activities of the SEB and support of talented Mongolian students and their research projects
- the evaluation of the existing IT system for the registration of students and their results
- the improvement of the preparation of students for international mobility
- support in terms of equipment for the SEB departments and library

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Derbianus Conservation: The Western Derby Eland Conservation Programme in Senegal

Target country: Senegal

Project coordinator: Karolína Brandlová

Project team: Pavla Hejzmanová, Pavla Jůnková Vymyslická, Tamara Fedorova, Magdalena Žáčková, Kateřina Hozdecká, Markéta Gloneková, Petr H. Verner

Partners of the project: Directorate of National Parks of Senegal, Society for the Protection of the Environment and Fauna in Senegal, World Association of Zoos and Aquariums (WAZA), Pilsen Zoo, Ostrava Zoo, Lord Derby's Knowsley Safari Park and others (United Kingdom)

Donor: Private donations and grants of Derbianus Conservation

Duration of project: since 2010

Aim of the Project:

Derbianus Conservation is a non-governmental organization founded by a group of experts from the Faculty of Tropical AgriSciences in 2010. The main activities of Derbianus Conservation are focused on the conservation programme for the Western Derby Eland (*Taurotragus derbianus derbianus*) in Senegal. The conservation programme is based on three main pillars: population management, research, and education.

Outputs of the Project:

- more than 80 Western Derby Elands in semi-captivity in Bandia and Fathala reserves in Senegal
- fifth breeding and second bachelor herds created in recent years – more than 60 antelopes transported among breeding herds.
- population management based on the annual identification of new born calves in reserves
- new knowledge of the ecology, feeding behaviour and genetics of Western Derby Eland
- educational programmes for children and workshops for reserve staff, teachers, and local people in Senegal and in the Czech Republic running a studbook for the Western Derby Eland
- cooperation with the Antelope & Giraffe Group of the Czech and Slovak Union of Zoological gardens, the European Association of Zoos and Aquariums - Antelope & Giraffe Taxon Advisory Groups, the International Union for Conservation of Nature Antelope Specialist Group, the zoological gardens in Jihlava and Ostrava (CZ)

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SENEGAL

AgroInvest

Target country: Ukraine

Project coordinator: Chemonics International Inc., University of Missouri

CULS project coordinator: Jiří Hejkrlik

Project team: Tomáš Ratering

Partners of the project: Polish Institute of Rural and Agricultural Development

Donor: USAID/Ukraine

Budget of CULS as a partner: 18 700 USD for period of 2013 - 2014

Duration of project: 2011 - 2016

Aim of the Project:

- to provide technical assistance to accelerate and broaden economic recovery in the Ukraine through the provision of support to the agriculture sector and increasing the country's contribution to global food security

Outputs of the CULS role in the Project:

- to provide assistance with analyzing the scope of government regulation of agricultural production and trade in the countries of the EU and determining the diverse roles played by self-regulatory organizations in regulating production and trade in agricultural commodities and food products in these countries
- to assist the AgroInvest Project in organizing a study tour of key government officials and other stakeholders to gain experience of efficient government regulation and the successful self-regulatory activities of industry associations in the Central Europe

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Activities of the FTA in Developing Countries 2000 – 2012

Republic of Angola

- Establishment of the Centre of Agricultural Education in the Bié Province (2003 – 2005)
- Centre of Agricultural Education in Bié Province (2006 – 2009)
- Consultancy in Fish and Poultry Production (2006 – 2009)
- Capacity Building in the Area of Fish and Poultry Production (2008 – 2009)
- Support of the Agricultural Training School in Catabola (2009 – 2011)
- Improvement of Institutional Conditions for the Development of the Agricultural Training School in Catabola and Empowerment of Extent and Quality of Extension Services in Catabola Municipality, Bié Province (2010 – 2011)

Bosnia and Herzegovina

- Delivery of Pregnant Heifers (2011 – 2013)

Federal Democratic Republic of Ethiopia

- Promoting the Quality and Extent of Advisory Services in Woreda Angacha, Kembata Tembaro Zone (2011 – 2013)

Democratic Republic of Georgia

- Establishment of the Agor-service Center in Martivili, Samegrelo Region (2009 – 2010)

Republic of Haiti

- Strategic Plan for the Improvement of Agricultural Production through Capacity Building in Haiti (2010 – 2012)

Hashemite Kingdom of Jordan

- Crossbreeding of imported mutton and prolific sheep breeds with local Awassi sheep and the development of research, training and extension Centre in Jordan (2002 – 2008)

Republic of Mali

- Experimental and Training Center in Republic of Mali (2001 – 2005)

Republic of Moldova

- Support for Study Programme Development at the State Agrarian University of Moldova in Chisinau and the Harmonization of its Educational System with EU Standards (2006 – 2008)
- Support for Rural Development - Improvements in Management Qualifications and Advisory Capacities (2006 – 2009)
- Increasing the Competitiveness and Efficiency of Moldova's Small and Medium-sized Farmers with a Focus on Production with High Value Added - for Selected Target Groups in the Areas of Ungheni, Anenii Noi and Cahul (2011 – 2012)

Mongolia

- Identification of Animals in the Central Region (2007 – 2009)
- Livestock Identification System Implementation in Mongolia (2010 – 2012)
- Livestock Identification System Implementation in Mongolia - Delivery of the Equipment (2010 – 2011)
- Support of Vocational Agricultural Education in the Vocational Education and Training Center (VETC) in Darkhan (2011 - 2012)

Republic of Namibia

- Support for the Development of Secondary and Tertiary Agricultural Education in Namibia (2003 – 2005)

Kyrgyz Republic

- Sustainable Rural Development in the Leylek District (2008 – 2010)

Republic of Peru

- Establishment of a Development and Extension Centre for Sustainable Agriculture in Peruvian Amazon (2003 – 2006)
- Sustainable Management of Natural Resources in Peruvian Amazon (2007 – 2009)

Republic of Senegal

- The Conservation and Breeding of the Western Giant Eland in Senegal (2000 – 2006)
- Support for the Natural Reserves and National Parks of Senegal (2007 – 2009)

Republic of Uzbekistan

- Improvement of the Quality of Drinking and Irrigation Water in the Aral Sea Region with Cleaning Equipment and Sorbents Produced in the Czech Republic (2004 – 2008)

Socialistic Republic of Vietnam

- Support of freshwater fish farming in mountain areas (2008 – 2010)
- Sustainable Development in Phong My Commune (2006 – 2009)
- Technical and Methodical Assistance in the Development of Technical, Environmental and Agricultural Engineering at the Hanoi Agricultural University (2006 – 2010)
- Renewable Energy Resources for Rural Areas in Thua-Thien Hue Province (2011 – 2013)

Republic of Zambia

- Improving the Production Characteristics of Livestock in the Kaoma District (2007 – 2009)

For more information about these projects, please, see our websites.

Educational Projects of the Faculty of Tropical AgriSciences

EURASIA2

EUROPEAN ACADEMIC MOBILITY NETWORK WITH ASIA

Duration of Project: 2010 - 2014

Project Coordinator: Faculty of Tropical AgriSciences, CULS

Donor: European Commission - The Education, Audiovisual and Culture Executive Agency

Budget: 2 467 150 €

Partners of the Project:

Asia: **China** (Nanjing Agricultural University, Northwest A&F University), **Indonesia** (Bogor Agricultural University, Tadulako University), **Laos** (National University of Laos), **Malaysia** (University Putra Malaysia), **Mongolia** (Mongolian University of Life Sciences), **Thailand** (Chiang Mai University, Thammasat University), **Vietnam** (Can Tho University, Hanoi University of Science and Technology, University of Economics Ho Chi Minh City)

Europe: **Austria** (University of Natural Resources and Applied Life Sciences), **Czech Republic** (Czech University of Life Sciences Prague), **France** (Universite SupAgro Montpellier), **Germany** (Göttingen University, Humboldt University of Berlin), **Poland** (Warsaw University of Life Sciences), **Sweden** (Göteborg University), **The Netherlands** (Wageningen University)

Associates: **Cambodia** (Royal University of Agriculture), **France** (CIRAD), **Indonesia** (University Gadjah Mada), **Thailand** (Kasetsart University, Prince of Songkla University), **Vietnam** (Research Institute for Aquaculture N.1); **Europe** (Agrinatura Association)

Aims of the Project:

- to contribute to the promotion of the European system of higher education world-wide (the Bologna Declaration)
- to strengthen the existing network of co-operation between universities in Asia and Europe by expanding experience
- to improve education and research capabilities of EU and Asian countries in subjects relevant to sustainable environmental and natural resource management (i.e. applied life sciences in the broadest sense of the term) to meet present and future societal challenges by contributing to education for sustainable development
- to promote cooperation and solidarity among scientists and scholars in the EU and Asian partner countries
- to contribute to the enhancement of academic and professional staff expertise in the area of human resources
- to produce and transmit scientific and scholarly knowledge and information on curriculum development

Outputs of the Project:

- in total 120 mobility flows from Asian partner universities to the EU (involving Bachelor, Master, Doctorate and Post-doctorate students as well as Academic staff)
- doctoral theses (including a co-supervisor from the sending institution)
- further scientific cooperation between the institutions on topics of mutual interest
- contributions to the exchange of information about the Bologna process and the ECTS system via the mobility of post-docs and academic staff
- the development of further joint research and educational projects

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EURASIA2



ALFABET

Asia • Life • Food • Agriculture • Biology • Economics • Technology

Duration of the Project: 2014 - 2018

Project Coordinator: Faculty of Tropical AgriSciences, CULS

Donor: European Commission - The Education, Audiovisual and Culture Executive Agency

Budget: 3 007 075 €

Partners of the Project:

Asia: **Cambodia** (Chea Sim University of Kamchaymear, Royal University of Agriculture), **China** (Nanjing Agricultural University), **Indonesia** (Bogor Agricultural University, Tadulako University), **Laos** (National University of Laos), **Malaysia** (The National University of Malaysia), **Mongolia** (Mongolian University of Life Sciences), **Thailand** (Kasetsart University, Prince of Songkla University), **The Philippines** (Mindanao State University), **Vietnam** (Hue University, Vietnam National University of Agriculture)

Europe: **Austria** (University of Natural Resources and Applied Life Sciences), **Czech Republic** (Czech University of Life Sciences Prague), **France** (Universite SupAgro Montpellier), **Germany** (Göttingen University), **Poland** (Warsaw University of Life Sciences), Portugal (University of Porto), **The Netherlands** (Wageningen University)

Associates: **Europe** (Agrinatura Association), **France** (CIRAD), **Indonesia** (University Gadjah Mada), **Thailand** (Chiang Mai University), **The Philippines** (SEARCA)

Aims of the Project:

- to exchange capacities between Asian and European universities oriented to Life Sciences, Food, Agriculture, Biology, Environment and Technology to respond to the principle international challenges affecting the well-being of the coming generations
- to promote the mobility of students and academic staff between Asian and European universities oriented to Life Sciences, Food, Agriculture, Biology, Environment and Technology
- to create innovative opportunities for doctoral qualification in the above-mentioned fields, to enhance the skills and qualifications of higher education (HE) staff
- to promote the European system of higher education
- to improve the accessibility of HE especially for the most vulnerable groups
- to promote the creation of joint degrees (double/multiple degrees)

Outputs of the Project:

- in total 143 mobility flows from both Asian and European countries (involving Bachelor, Master, Doctorate and Post-doctorate students as well as Academic staff) will be provided
- the mobility of young researchers will result in further scientific cooperation between the institutions on topics of mutual interest
- the mobility of academic staff will contribute to the exchange of information about the Bologna process and the ECTS system as well as to the development of further joint research and educational projects

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ALFABET

Duration of the Project: 2012 – 2016

Project Coordinator: Humboldt-Universität zu Berlin, Germany

Project Joint Co-ordinator: Universidad Autónoma de Chapingo, Mexico

Donor: European Commission - The Education, Audiovisual and Culture Executive Agency

Partners of the Project:

Latin America: **Argentina** (Universidad Nacional del Nordeste), **Chile** (Universidad de Los Lagos), **Colombia** (Universidad Nacional de Colombia, Universidad del Magdalena), **Costa Rica** (Facultad Latinoamericana de Ciencias Sociales), **Cuba** (Universidad de La Habana), **El Salvador** (Universidad Centroamericana “José Simeón Cañas”), **Guatemala** (Universidad de San Carlos, Universidad Rafael Landívar), **Honduras** (Universidad Nacional Autónoma de Honduras), **Mexico** (Universidad Autónoma de Chapingo, Universidad Veracruzana), **Nicaragua** (Universidad Nacional Autónoma de Nicaragua, Universidad de las Regiones Autónomas de la Costa Caribe Nicaragüense), **Venezuela** (Universidad de los Andes)

Europe: **Austria** (University of Natural Resources and Applied Life Sciences), **Czech Republic** (Czech University of Life Sciences Prague), **Finland** (University of Turku), **France** (Universite SupAgro Montpellier), **Germany** (Humboldt University of Berlin), **Italy** (Sapienza University of Rome), **Spain** (Universidad de Córdoba, Universidad de Deusto)

Aim of the Project:

The main objective is to deepen the existing cooperative relations between universities in Latin America (LA) and Europe, contributing to the creation of internationally attractive, competence-oriented and high-quality education & research activities, as well as promoting multidisciplinary, multilateral academic and scientific cooperation with a long-term perspective. Moreover, students become agents of change and embody the introduction of new knowledge and professional networks when they return to their home countries.

The EULALinks specific objectives:

- to increase capacities for structured international cooperation and the range of compatible studies by increasing cooperation and solidarity among scientists and scholars and by strengthening the capacity for international and interdisciplinary cooperation
- to build broad patterns of high quality mobility and collaboration leading to sustainable interdisciplinary research clusters guaranteeing mobility from less developed areas and the participation of women and indigenous people
- to join forces in promoting sustainable development, cultural diversity, the social and democratic values of the EU and the better understanding of the multifaceted and rich Latin American culture and its huge experience in participatory processes, learning and intellectual development
- to contribute to sustainable development in the partner countries through targeted education and research activities developed together with local stakeholders

Outputs of the Project:

- more than 100 mobilities from less developed regions, chosen on academic criteria
- the advancement of the social and democratic values of the EU and promotion of a better understanding of LA in Europe
- support for access to higher education for indigenous people and women from LA

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Duration of the Project: 2014 – 2018

Project Coordinator: Humboldt-Universität zu Berlin, Germany

Project Joint Co-ordinator: Universidad Autónoma de Chapingo, Mexico

Donor: European Commission - The Education, Audiovisual and Culture Executive Agency (EACEA)

Partners of the Project:

Latin America: **Colombia** (Universidad del Magdalena, Universidad de los Llanos), **Costa Rica** (Facultad Latinoamericana de Ciencias Sociales), **El Salvador** (Universidad Centroamericana “José Simeón Cañas”, Universidad de El Salvador), **Guatemala** (Universidad de San Carlos, Universidad Rafael Landívar), **Honduras** (Universidad Nacional de Honduras, Universidad Pedagógica Nacional Francisco Morazán), **Mexico** (Universidad Autónoma de Chapingo, Universidad Veracruzana), **Nicaragua** (Universidad Nacional Autónoma de Nicaragua, Universidad de las Regiones Autónomas de la Costa Caribe Nicaragüense)

Europe: **Austria** (University of Natural Resources and Applied Life Sciences), **Czech Republic** (Czech University of Life Sciences Prague), **France** (Universite SupAgro Montpellier), **Germany** (Humboldt University of Berlin), **Italy** (Sapienza University of Rome), **Slovakia** (Slovak University of Agriculture in Nitra), **Spain** (Universidad de Córdoba, University of Extremadura)

Aim of the Project:

- to promote bilateral collaboration among European Union and Latin American Institutions
- to promote an increase in the mobility flow of students and academic staff between the partners and to enable contact between participants from other linguistic and cultural environments
- to contribute to cultural dialogue and mutual understanding through links between Europe and Latin America
- to enrich society through a mobility scheme for open-minded and internationally experienced academics and students

The EULALinks SENSE specific objectives:

- To increase the mobility flow of TG3 (= nationals of the Partner countries who are in particularly vulnerable situations, for either social or political reasons) participants
- To increase the mobility flow of students and academic staff from Europe to Latin America

Outputs of the Project:

- 176 mobilities (130 from Latin America, 46 from Europe), chosen on academic criteria
- to advance the social and democratic values of the EU and to promote a better understanding of LA in Europe
- to support access to higher education for indigenous people and women from LA

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Duration of the Project: 2013 – 2015

Project Coordinator: AGROSUP Dijon, France

Donor: EU Leonardo da Vinci programme supported by the European Commission

Budget: 27 324 €, contribution of the FTA 9 109 € (total budget 36 433 €)

Project team: Bohdan Lojka, Pavel Junek, Martina Opočenská

Partners of the project:

Abacus Organic Associates Ltd (**United Kingdom**), Association Française d'Agroforesterie (**France**), Association pour la promotion de l'agroforesterie en région wallonne et bruxelloise (**Belgium**), Czech University of Life Sciences in Prague (**Czech Republic**), Etablissement Public Local d'Enseignement Agricole de l'Aube (**France**), European Agroforestry Federation (**France**), Mare Nostrum NGO (**Romania**), University of Debrecen (**Hungary**)

Associated partners:

Warwick University (**United Kingdom**), Liceul Teoretic "Ovidius" (**Romania**), Association réseau international Formation Agricole et Rurale (**France**), Centre des technologies agronomiques (**Belgium**), Warwickshire College (**United Kingdom**)

Aim of the Project:

The overall objective of the project is to develop a teaching system for agroforestry promotion in Europe. The project aims to build an innovative training system: conceptual, modular training, with use of ICT (Information and Communication Technologies – computers, tablets etc.) and with professional participation.

Outputs of the Project:

- a professional book of references as a support for transfers in training with a common framework and adaptation to the local or national context
- a knowledge database used for tools and training resources and integrating existing resources;
- implementation of initial training in individual countries
- a certification system for all levels of education adapted to the education systems and needs in particular countries

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AGROFE

ASK Asia

Duration of the Project: 2013 - 2015

Project Coordinator: Faculty of Tropical AgriSciences, CULS

Donor: European Commission - The Education, Audiovisual and Culture Executive Agency

Partners of the Project:

Asia: **Cambodia** (Royal University of Agriculture), **China** (Nanjing Agricultural University), **Indonesia** (Tadulako University), **Mongolia** (Mongolian University of Life Sciences), **Thailand** (Prince of Songkla University), **Vietnam** (Hue University)

Europe: The European Alliance on Agricultural Knowledge for Development (Agrinatura Association), Erasmus Mundus Students and Alumni Association (EMA), **Austria** (University of Natural Resources and Applied Life Sciences), **Belgium** (Gent University), **France** (Agreenium – Consortium national pour l'agriculture, l'alimentation, la santé animale et l'environnement)

Aims of the Project:

- to assess how the Erasmus Mundus (EM) graduates in Agriculture and related Life Sciences perform on the professional job market in Asia
- to identify specific competences and skills that provide these graduates with a comparative advantage in meeting the expectations of their first destination employers following the education/training period
- a survey on the totality of the EM students graduated to date from selected Erasmus Mundus programmes in the 6 following countries in Asia (Cambodia, China, Indonesia, Mongolia, Thailand and Vietnam), which will allow updating the professional data on the EM alumni from these programmes in Asia (and also will include a self-assessment of the skills and competences acquired in Europe)
- to allow European and Asian universities to discuss their comparative advantages in educational training, and how the specificities required for the Asian job market can be better taken into consideration when a part of the training is done in Europe

Outputs of the Project:

- a joint database of the Erasmus Mundus graduates coming from Asia
- lessons learned, feedback from employers on the Asian job market
- six national workshops organized at partners' universities in Asia (Cambodia, China, Indonesia, Mongolia, Thailand and Vietnam), a regional workshop organized in Asia and the final project workshop hosted in Europe
- six professional analyses carried out in Asian partner countries and summarized in one joint study

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ASK ASIA

Research and Science



The Faculty of Tropical AgriSciences is an active member of the international association AGRINATURA (The European Alliance on Agricultural Knowledge for Development), the AGRINATURA secretariat has been hosted at the CULS since 2004.

AGRINATURA is a new alliance formed by 30 European universities and research organizations from 16 European countries working in agricultural research, education, training and capacity strengthening for development.

AGRINATURA members are involved in a broad range of issues related to agricultural research and education for development, contributing through their expertise and experience.

AGRINATURA focuses on initiatives that open up new opportunities for farmers to enhance food security and improve the agro-food sector in general, whilst reducing the negative impact of agricultural activities on the environment.

AGRINATURA's vision

An active European Research Area that joins forces with international partners, especially from developing and emerging countries, for agricultural research and education for development with a sufficient critical mass to meet the common global challenges.

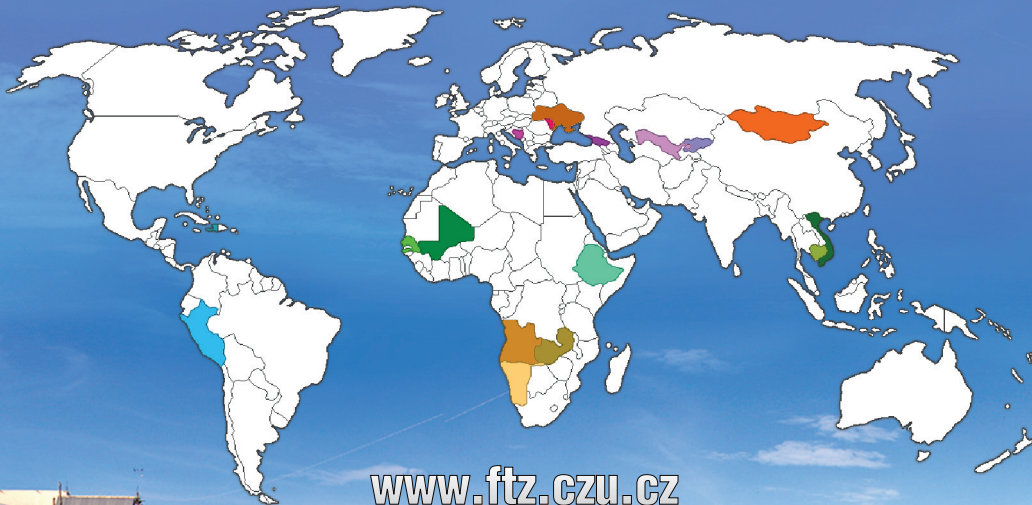
Fields of interest:

- Tropical and subtropical agriculture
- Food science and technology & human nutrition
- Natural resources
- Forestry
- Veterinary medicine
- Environmental and related sciences

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**Faculty of Tropical
AgriSciences**