



Institute of Tropics  
and Subtropics

# PROJECTS

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**CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE**

# Czech University



The Czech University of Life Sciences Prague (CULS Prague) is the oldest agricultural university in the Czech Republic. The history of the University started with the establishment of the Department of Agriculture at the Czech Technical University Prague in October 26, 1906, by the Decree of Franz Josef I, Emperor of Austria. In 1952 the decree of the government of Czechoslovakia established the independent University of Agriculture by a transformation of the High School of Agriculture at the Czech Technical University in Prague.

At present, the Czech University of Life Sciences Prague (CULS Prague) has five faculties and two institutes: Faculty of Agrobiological Sciences, Faculty of Environmental Sciences, Faculty of Forestry and Wood Sciences, Faculty of Economics and Management and Faculty of Technology, Institute of Tropics and Subtropics and Institute of Education and Communication.

The University is a very important education establishment with more than 20,000 students who, together with about 1,200 staff (teachers, researchers, technicians and administrative staff), constitute an University academic community where each of them has his or her own role. CULS Prague belongs among the leading Czech universities, which has been proved both in the international evaluation and by its successful graduates in all fields of agriculture and related sectors.

CULS Prague is proud of its current position within the Czech educational system and of its extensive international cooperation. University students and professors from all EU countries as well as from other regions and continents come to CULS Prague to study and share experience or participate in international conferences and workshops.



INSTITUTE OF TROPICS AND SUBTROPICS

www.its.

# of Life Sciences Prague

## The Institute of Tropics and Subtropics

The Institute of Tropics and Subtropics (ITS) is the former Institute of Tropical and Subtropical Agriculture (ITSA). ITS is independent, educational, research and scientific academic body of CULS Prague for research and studies of tropical and subtropical regions.



### Teaching and Instruction

ITS offers education in agricultural, environmental and rural development in specific tropical and subtropical regions (TS) on both undergraduate and postgraduate levels. ITS graduates are awarded B.Sc., M.Sc. and Ph.D. degrees. Teaching activities are conducted by three ITS departments which are provided with necessary facilities: experimental greenhouses, laboratories and computer hardware and software infrastructure.

### ITS departments are:

- Department of Engineering, Economics and Rural Development in Tropics and Subtropics (DEERDTS) focused on technological and economic subjects in TS.
- Department of Crop Sciences and Agroforestry in Tropics and Subtropics (DCSATS) focused on crop production and agroforestry in TS.
- Department of Animal Sciences and Food Processing in Tropics and Subtropics (DASFPTS) is ITS body focused on animal sciences and food processing in TS.

The structure of study programmes respect the principles of BOLOGNA DECLARATION based on 3 + 2 academic years (B.Sc.) and (M.Sc.) followed by 3 years of Ph.D. studies. The subjects are compulsory and optional. There are three study programs at ITS:

- "Tropical and Subtropical Agriculture"
- "Sustainable Rural Development in the Tropics and Subtropics"
- "Wildlife Management in Tropics and Subtropics"

The first programme offers education on B.Sc., M.Sc. and Ph.D. levels, the last two on M.Sc. levels only.

There are other ITS units and activities important for its main tasks implementation – Advisory and Project Service Centre, Lifelong Learning Programme Erasmus Implementation Unit and ITS Staff Implementation of Development Projects.



## Research and Science

ITS research activities encompass both basic and applied research in the field of tropical and subtropical agriculture and sustainable rural development in the tropics and subtropics. ITS cooperates especially with countries and regions selected according to priorities of the Czech Official Development Assistance together with countries where ITS has a long history of mutual relationship: Angola, Jordan, Moldova, Mongolia, Peru, Senegal, Uzbekistan, Vietnam, Zambia are the most important. These projects are presented in this booklet.

Research is financed by government grants and private donors or entrepreneurs' contributions. New research topics are being introduced with an emphasis on the sustainable development of rural areas in developing countries.

ITS is a coordinating institution and participates in both Czech and international projects (EC, FAO and UNIDO). The projects where ITS is participating are mostly formulated by its research and scientific staff according to the needs of the recipient countries with the assistance of various foreign institutions involved. The project selection targets the most pressing sectors (usually food production and security, and rural development) and the poorest countries or regions. ITS is an active member of international association NATURA (Network of European Agricultural (Tropically and Subtropically Oriented) Universities and Scientific Complexes Related with Agricultural Development). Since 2004 NATURA secretariat has been hosted at the CULS.

Since 1967 ITS has been publishing its scientific journal **AGRICULTURA TROPICA ET SUBTROPICA** (ATS) with ISSN 0231-5742 and ISSN 1801-0571 (on-line). The international scientific journal is published under the authorization of the Czech University of Life Sciences Prague and under the direction of the Institute of Tropics and Subtropics. The journal is published in English and focuses on ITS research and scientific activities in the field of tropical and subtropical agriculture and rural development. The journal is mailed to interested institutions in many countries of the world.



## Networking for Development

**NATURA** is the **N**etwork of European **A**gricultural (**T**ropically and **S**ub-tropically oriented) **U**niversities and **S**cientific **C**omplexes **R**elated with **A**gricultural **D**evelopment. NATURA was established in 1988 and involves 26 members from 16 European countries. NATURA is a non-profit organization that aims at developing concerted actions towards poverty reduction and sustainable rural development. Priority fields include:

- Sustainable Agriculture
- Forestry and Forest Management
- Food and Human Nutrition
- Livestock Management and Fisheries



### Scientific cooperation through a network

NATURA functions through a networking mechanism that promotes:

- institutional **reinforcement** of universities, national research centres and partners in developing countries
- **partnerships** between the European member organizations and partners in developing countries
- **alignment** of the scientific and technical potential among the NATURA members
- **policy** dialogue and **research** for development advocacy

### Activities

NATURA supports the development and implementation of joint projects for research and training in tropical and subtropical land-use and related areas. These projects are undertaken by NATURA members and developing country partners, usually with the support from bi- and multi-lateral donors. The activities of NATURA also comprise the preparation of projects submitted to e.g. ERASMUS MUNDUS, EDULINK, ASIALINK and TEMPUS programme.

### NATURA Secretariat

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# AGRICULTURA TROPICA ET SUBTROPICA

The international scientific journal is published under the authorization of the Czech University of Life Sciences Prague and under the direction of the Institute of Tropics and Subtropics.

## Aims and scope

The journal publishes original scientific papers, preliminary reports, short communications and reviews related to all aspect of Agriculture Science and Technology. Papers are published in English.

## Periodicity

The journal is published quarterly in English (numbers 1 - 4) and distributed worldwide via internet [www.its.czu.cz](http://www.its.czu.cz)

## Submission of manuscripts:

Two copies of manuscript and electronic version should be addressed to:

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Institute of Tropics  
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# PROJECTS

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# Farming of Eland at Farm at Lány under Management of the Institute of Tropics and Subtropics, Czech University of Life Sciences Prague (ITS CULS Prague)

## Aims of eland husbandry at Farm at Lány

1. To evaluate the breeding technology from an animal welfare perspective and raise this species for meat production in the Czech Republic.
2. To continue with scientific research and further knowledge about eland.
3. To educate and train students of ITS CULS in breeding techniques with semi-domesticated species and to sponsor student research.

## Research

Because there are many things we still do not know about eland physiology and behaviour, we are challenged to describe their ability to adapt to different regions. We used infrared thermography to determine how eland cope with low temperatures. We found that eland can protect themselves against heat loss by reducing their body surface temperature as cattle do at ambient temperatures close to 0° C. Eland are also able to eliminate perennial weedy plants from pastures by permanent grazing. Their feeding behaviour, reproduction, maternal care and social behaviour still raise many unanswered questions.

## Domestication

Eland were recommended for domestication by Food and Agriculture Organization (FAO) in 2000, because of their physiological, morphological and breeding similarities to cattle. One of the most successful domestication experiments has been running at Askanya Nova (Ukraine) since 1892. There, an intensive husbandry system with early weaning, milking and fattening, similar to intensive cattle management, is performed.

On the other hand, the extensive ranching of game (including eland) prevails in Africa. We are at the beginning of the eland's domestication, because we have bred eland since 2000.





# ANGOLA

## Centre of Agricultural Education in Bié Province

**Target Country:** Republic of Angola

**Project Coordinator:** Bohumil Havrland

**Project Team:** Martin Lostak, Hynek Ciboch, Zdena Horajsova, Martin Blabolil, Pavel Burian, Pavel Smrha, Jiri Hejkrlik, Dan Marek, Petra Charousova, Jana Mazancova

**Partner(s) of the Project:** Ministry of Agriculture and Rural Development, Fishery and Environment of Angola; Ministry of Education and Culture of Angola; CARE International Angola

**Donor:** Ministry of Education, Youth and Sports of the Czech Republic

**Duration of the Project:** 2006 – 2008

### Aim of the Project:

The aim of the project is to establish Centre of agricultural education and develop training and extension services for local farmers in the Bié province. Besides the secondary-school courses including both general and agriculture subjects, an applied research and consultant services complement the integral part.

### Outputs of the Project:

- Preparation of educational materials and texts
- Education and training in the Centre for agricultural education
- Laboratories for chemistry, pedology and botany
- The computer laboratory and library
- Meteorological station
- Redaction of the school journal
- Demonstration poultry-raising and preparation of school plots
- Consulting services and courses for state and private agricultural consultants and farmers
- The school farm in Kunje



### Contact:

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# ANGOLA

## Consultancy in Fish and Poultry Production

**Target Country:** Republic of Angola  
**Project Coordinator:** Petra Holikova  
**Project Team:** Pavel Trefil, Lukas Kalous  
**Partner(s) of the Project:** Government of Bié Province  
**Donor:** Ministry of Agriculture of the Czech Republic  
**Duration of the Project:** 2006 – 2009



### Aim of the Project:

The intention of the project is to increase agricultural production and productivity in Bié province which is the most destroyed province after the civil war in Angola. The main objective of the project is creation specific methodology of the fish and poultry production and its integrated system and establishing conditions of its implementation in the local communities.

### Outputs of the Project:

- Trained agricultural producers in the area of fish and poultry production and its integrated system
- Trained students of the Centre of Agricultural Education in Bié province in the area of fish and poultry production and its integrated system
- Establishment of websites which includes information about the project, fish and poultry production in Angola available in Czech and Portuguese
- Implementation of the integrated system of fish and poultry production in the selected communities in Bié province
- Publishing of scientific study (methodology and practical manual) of fish and poultry production and its integrated system useful for local farmers, students of agriculture, provincial government and non-governmental organizations

### Contact:

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# Crossbreeding of Imported Mutton and Prolific Sheep Breeds with Local Awassi Sheep and the Development of Research, Training and Extension Centre in Jordan

**Target Country:** The Hashemite Kingdom of Jordan

**Project Coordinator:** Momany Shaker Mohamed

**Project Team:** Ivan Sada, Jan Blaha

**Partner(s) of the Project:** Jordan University of Science and Technology (JUST) Irbid

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 1998 – 2007

## Aim of the Project:

- Research part of the project  
Recording, processing, selection and crossing to improve performance traits of Awassi sheep breed, forming of synthetic sire lines.
- Construction part of the project  
Establishing a permanent Research, Training and Extension Centre in Sikhra – Ajlun.

## Outputs of the Project:

- Increase of mutton production in Jordan
- Improvement of the sire and dam adaptability and fertility
- Improvement of the Offspring viability, growth intensity, body conformation and Feed conversion
- Improvement of the lean meat production and meat quality
- Forming of synthetic sire lines
- Special workplace for implementation the crossbreeding program
- Train farmers and students about the more recent methods and technique of animal breeding
- Educate farmers and students about the theoretical and practical knowledge of animal breeding
- Presentation of project crossing acquired results
- Furnish students to make an experiment on animals for MSc. and PhD. thesis
- Place for commencement and promotion of commercial ties between Czech and Jordanian firms

## Contact:

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# MOLDOVA

## Support to the Study Programme Development at the State Agrarian University of Moldova in Chisinau and Harmonization of its Educational System with EU Standards

**Target Country:** Republic of Moldova

**Project Coordinator:** Bohumil Havrland

**Project Team:** Martin Muzikant, Alexandr Kandakov, Jaroslav Vana, Sergej Ustak, Constantin Ojog

**Partner(s) of the Project:** State Agrarian University of Moldova, Chisinau

**Donor:** Ministry of Education, Youth and Sports of the Czech Republic

**Duration of the Project:** 2006 – 2008

### Aim of the Project:

- development of study programmes including formulation of new ones
- harmonization of the education system with the EU one
- introduction of new research and advisory activities (ecology, alternative energies)
- establishment of a "Pedagogic laboratory" and "Laboratory of Bio-energy"

### Outputs of the Project:

- Proposal of restructuring study programmes, implementation of new environmental programmes
- Revised selected of current study subjects including their syllabi and their enlistment in study fields
- Evaluation of the implemented credit system ETCS and its utilization for international mobility of students and for controlling performances of faculties and departments
- Reorganization of study according to the Bologna declaration and control of its effect on the preparation quality of experts
- Expansion of SAUM teachers' qualifications in pedagogical, scientific and research and advisory activities
- Organization „Laboratory of consultant service for students and teachers in issues of instruction, research and training courses for selected SAUM staff at the Czech University of Life Sciences and other pedagogical workplaces in the Czech Republic
- Laboratory for applied research, demonstration course and consultant of service in the field bio-power
- Training of selected workers for „Laboratory bio-energy“ at the Czech University of Agriculture and research institutions in the Czech Republic
- Establishment of contacts between the Moldavian state university in Chisinau and Czech educational and research institutions and private businesses
- Stays of teachers, research and executive workers of the Moldavian state university in Chisinau at the Czech university of agriculture and other Czech pedagogical and research institutions

### Contact:

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# MOLDOVA

## Support to the Rural Development - the Improvements of Management Qualifications and Advisory Capacities

**Target Country:** Republic of Moldova

**Project Coordinator:** Bohumil Havrland

**Project Team:** Martin Muzikant, Alexandr Kandakov, Sergej Ustak, Constantin Ojog, Hynek Ciboch

**Partner(s) of the Project:** Agency for Sustainable Development, Chisinau; ACSA agency

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 2006 – 2009

### Aim of the Project:

- Courses, workshops and excursions in the Czech Republic and Republic of Moldova to improve management and advisory qualifications
- Establishment of an information system for the agricultural and agri-food sectors
- Formulation of methodology and contents of training for farmers and other workers in the agricultural sector
- Recommendations on organization and management of the ACSA agency

### Outputs of the Project:

- Courses, workshops (seminars) and excursions for consultants of ACSA in agriculture and rural development, farm management
- Stays in Czech Republic of selected management and coordination staff in the agricultural and rural development sectors, management of companies (KSP) and consultants ACSA and Ministry of Agriculture
- Establishment of information system on agricultural and food products and its utilization for the establishment of trade and cooperation relationships and marketing of Moldavian agricultural and food products
- Gathered information and experience, analyses of available references and formulation of methodology for training farmers and KSP workers
- Organization of model training sessions as the way of verification of methodology and contents of training for farmers and KSP
- Recommendation on organization and management of the ACSA agency
- Proposal and implementation of new approaches to ACSA consulting activities

### Contact:

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# MONGOLIA

## Identification of Animals in Central Region (Mongolia)

**Target Country:** Republic of Mongolia

**Project Coordinator:** Daniela Lukesova

**Project Team:** Vaclav Kouba, Jan Minar, Josef Holejsovsky, Alica Kocisova, Bohumil Havrland, Zayat Batsukh, Batkhuu Enkhtuya, Jiri Tomes, Zdenek Hanzalek

**Partner of the Project:** Mongolian Ministry of Food and Agriculture

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 2007 – 2009

### Aim of the Project:

To assist Mongolian Ministry of Food and Agriculture in improvement of livestock production and health through new identification of food producing animals in order:

- to facilitate the introduction of identification of food producing animals following European Union standard
- to facilitate the export of food and other products of animal origin in European Union
- to facilitate the movement and breeding control of food producing animals
- to facilitate the monitoring of communicable diseases of food producing animals

For this purpose the project will prepare and equip selected specialists from individual Central Region somons in ear-marking of cattle who will transfer their new knowledge and skill to others (multiplying effect).

### Output of the Project:

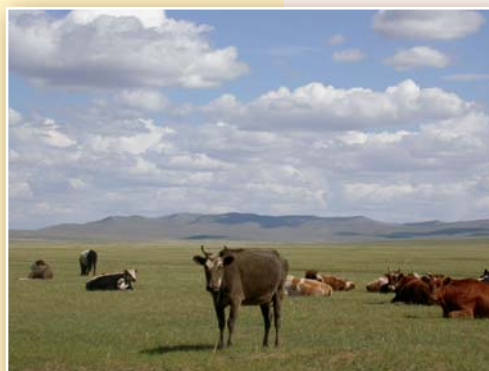
- Initiated identification of cattle in Central Region of Mongolia according to European Union standard
- Selected Mongolian specialists from individual somons trained in identification of animals by ear-marking
- Trainees of the project courses equipped by instruments for ear-marking
- Special manual in Mongolian language for ear-marking of food producing animals prepared for the project courses and for eventual use in the whole Mongolia

### Contact:

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**Websites:** www.vetnaadam.org



# Sustainable Management of Natural Resources in Peruvian Amazon

# PERU

**Target Country:** Republic of Peru

**Project Coordinator:** Bohdan Lojka

**Project Team:** Jana Lojkova, Jan Banout, Zbynek Polesny, Daniel Preininger

**Partner(s) of the Project:** UNU - Universidad Nacional de Ucayali, ICRAF – World Agroforestry Centre, INIA – Institución Nacional de Investigación Agraria

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 2007 – 2009

## Aim of the Project:

- Improvement of agroforestry systems and production of small-scale farmers
- Project supports investigation, development and implementation of suitable agroforestry systems that would lead to increased diversification and improved sustainability of agriculture production and also development and implementation of simple intermediate technologies for processing of agriculture and forestry products
- Improved marketing of local agroforestry products (Main objective of this point is support of marketing of product of small-scale farmers via sale cooperative, elaboration of market analysis for chosen product, support of organic certification, that should lead to increase market prices of the products)
- Capacity building among local farmers, agricultural and forestry experts, extension service and governmental authorities, students and university staff

## Outputs of the Project:

- Use of improved agroforestry methods among farmers
- Implementation of intermediate technologies in agriculture and forestry
- Better access of local products to the national and international markets
- Organic certification of local small farmers
- Agroforestry manual as a tool for agroforestry systems dissemination
- Improvement of technical skills of local farmers, experts, authorities and policy makers
- Improvement of educational and practical training facilities on UNU

## Contact:

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# SENEGAL

## Support to Natural Reserves and National Parks of Senegal

**Target Country:** Republic of Senegal

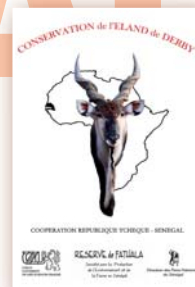
**Project Coordinator:** Marketa Antoninova

**Project Team:** Pavla Hejzmanova, Karolina Kolackova, Jiri Vahala, Michal Hejzman, Petr H. Verner

**Partner(s) of the Project:** Directorate of National Parks of Senegal, Society for the Protection of the Environment and Fauna in Senegal

**Donor:** Ministry of Environment of the Czech Republic

**Duration of the Project:** 2007 – 2009



### Aim of the Project:

The project aims to participate to the Western Giant Eland (*Taurotragus derbianus derbianus*) conservation and breeding in Senegal, to support the wildlife conservation, to implement local people to the management of natural resources and in consequence to contribute to the rural development on periphery of national parks by promoting ecotourism and biodiversity conservation education.

### Outputs of the Project:

- To support the captive breeding programme of Giant eland in semi-captivity
- To create new breeding herds of Giant eland in Fathala Reserve in Delta du Saloum National Park, Senegal
- To promote ecotourism in the Delta du Saloum National Park region
- Education of locals and their children about necessity of biodiversity conservation and strengthening the knowledge in the sustainable wildlife utilization
- To contribute to the economic and rural development in the region

### Contact:

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# UZBEKISTAN

## Improvement of the Quality of Drinking and Irrigation Water in the Aral Sea Region by Cleaning Equipment and Sorbents Produced in the Czech Republic

**Target Country:** Republic of Uzbekistan

**Project Coordinator:** Vladimír Krepl

**Project Team:** Radomír Malis, Miloš Horák and short-term experts

**Partner(s) of the Project:** Faculty of Biology and Crop and Soil Sciences, Tashkent University, Academy of Sciences of the Uzbek Republic

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 2004 – 2006, project extended to 2007 - 2008

### Aim of the Project:

The focus is on the development of small water treatment facilities infrastructure in Uzbekistan with the aim of improving water management and environmental protection. During the project implementation the facility demonstration and consequent negotiations with potential local buyers and partners for joint manufacturing company in Uzbekistan will take place. The water treatment facility will be installed in a chosen locality of Aral Sea. That will improve the supply of this environmentally endangered region with safe water.

### Outputs of the Project:

- Preparation and data processing of complex technological solution of water management for children hospital in NUKUS
- Work out a project in sanitarian and water-supply network including engineering legalization at the Tuberculosis elimination children hospital (sanatorium) in Nukusu
- Transport of the cleaning potable water technology to sanatorium in Nukusu from Czech Republic
- Negotiations with heads of management, academic community and businessmen in the Khorezm region and Karakalpakstan

### Contact:

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# Vietnam

## Sustainable Development in Phong My Commune

**Target Country:** Socialist Republic of Vietnam

**Project Coordinator:** Jan Banout

**Project Team:** Vladimír Verner, Bohdan Lojka, Jaroslav Havlík, Jana Lojková, Zbyněk Polesný, Olga Zárubová-Pfefermann, Petr Ehl

**Involved Institutions in Vietnam:** Centre for Rural Development in Central Vietnam (CRD)

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 2006 – 2009

### Aim of the project:

The overall objective of the project is the improvement of livelihoods of pure households in Phong My commune. The target of the project is improvement of homegardens, agroforestry practices, livestock breeds, implementation of intermediate (appropriate) technologies and capacity building for local stakeholders.

### Outputs of the Project:

Ensuring a Sustainable Production of Good-quality Food

- Improvement of homegardens biodiversity
- Distribution of new livestock breeds in selected households
- Implementation of solar dryer for postharvest processing of local products
- Microbiological sampling of stored food in selected villages in Phong My commune

Water Access and Sanitary Equipment

- Building of irrigation channels to improve a rice production
- Building of local toilets and composting latrines

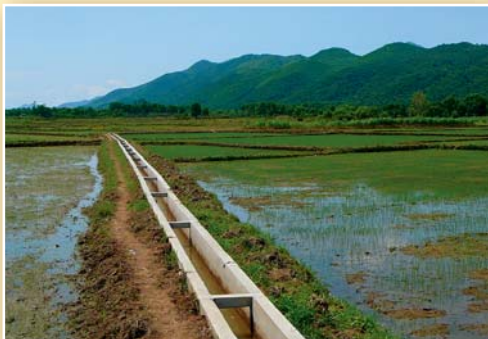
Capacity Building

- Rapid Rural Appraisal for problems identification in the target area
- Solar treatment of drinking water - workshop
- Principles of animal husbandry – workshop
- Principles of tree plantations in home gardens and agro forestry plots - workshop

### Contact:

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# Technical and Methodical Assistance in Development of Technical, Environmental and Agricultural Engineering at the Hanoi Agricultural University (HAU), Hanoi, Vietnam

**Target Country:** Socialist Republic of Vietnam

**Project Coordinator:** Vladimír Krepl

**Project Team:** Jan Chysky and short-term experts

**Partner(s) of the Project:** CEPECE – Ministry of Education and Training (Centre for International Professional and Technological Cooperation and Exchange), HAU – Hanoi Agricultural University

**Donor:** Ministry of Trade and Industry of the Czech Republic

**Duration of the Project:** 2006 – 2010

## Aim of the Project:

The project aims at development of qualified human resources in teaching as well as extension/advisory areas with a special emphasis on applied technical, environmental and agricultural engineering in Vietnam. Enhancement of communication and didactical skills of teachers and advisors is essential in order to effectively disseminate relevant information at all levels. Furthermore, the project contributes to the improvement of the development process of scientific and applied research based on real conditions resulting from a practical survey.

## Outputs of the Project:

- Analysis of the current competencies of teaching and advisory staff of HAU in technical, environmental and agricultural engineering; organization of relevant workshops
- Assessment of environmental studying programmes and needs identification; joint development of the proposal of environmental studying programmes
- Needs identification in practical technical and environmental engineering; selection of location and equipment for the technical environmental laboratory
- Selection of location and staff for Centre for Rural Sociology
- Assessment of current advisory services and competencies in environmental problematic of the CEPECE staff; organization of relevant workshops

## Contact:

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# ZAMBIA

## Improving the Production Characteristics of Livestock in Kaoma District

**Target Country:** Republic of Zambia

**Project Coordinator:** Josef Holejsovsky

**Project Team:** Richard Sovjak, Daniela Lukesova, Girma Tewelde

**Partner(s) of the Project:** Ministry of Agriculture and Cooperatives, Zambia

**Donor:** Ministry of Agriculture of the Czech Republic

**Duration of the Project:** 2007 – 2009

### Aim of the Project:

- Increased milk and meat production of Barotse breed cattle
- Improvement of veterinary care in Kaoma district
- Introduction of border inspection control at the border with Botswana

### Outputs of the Project:

- Selected Barotse breed cattle animals with higher milk and meat production and/or crossbred of Barotse breed cattle with higher milk and meat production
- New and renewed Veterinary Camp Houses and their appropriate equipment newly constructed border inspection post at the border with Botswana

### Contact:

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# NOTES:





**CZECH REPUBLIC**  
DEVELOPMENT COOPERATION

INSTITUTE OF TROPICS AND SUBTROPICS

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