



Dear Reader,

International cooperation in agriculture continues to be very important to secure food security, food safety and the application of sustainable and environmentally friendly farming practices.

Adapting to climate change, increasing water scarcity and other global challenges are continuously requiring for new solutions in agricultural sector. Technological innovations and fresh insights are offering opportunities to improve farming technologies and management practices and the efficiency of agricultural production systems.

ADT provides services with technical assistance, training and demonstration to contribute towards exploiting the development potential in agricultural and food sector as well as promoting international co-operation.

Last year ADT increased its portfolio and resources in the areas of agricultural value chain development, sustainable agriculture and climate change, veterinary and animal health services, food safety and services on seed sector development.

This Newsletter will give you a brief impression of the work of some of our projects in the last year.

*The ADT team wishes our partners, experts and all readers of this Newsletter health, peace and success for the New Year 2017.*



Ekkehard Schröder

## Best practice in manure management in China

### *Successful cooperation with business partners in China*

In 2016 the “German-Sino cooperation project on animal breeding” expanded its activities by the initiation of cooperation in the Chinese pig husbandry sector as well as by the involvement of new business partners into the project. In 2016 in total 19 German business partners, among them breeding companies, service providers and technology input suppliers, supported the public-private partnership (PPP) project.

A successful example of cooperation with business partners was the seminar “Best practice in manure management” which took place in October 2016 in Tianjin, China.

In China, growing dairy and pig farms with increasing numbers of animals as well as the separation of animal and plant production into different farm businesses leads to amounts of manure that are difficult to manage for many farms. Yet, on many farms, technical Solutions are scarce but the Chinese Government is increasingly demanding for more environmentally friendly manure management practices.

Together with the business partners Fan Separator GmbH, Fliegl Agrartechnik GmbH, Bernard van Lengerich Maschinenfabrik GmbH & Co.KG und Michael Herdt-Ingenieure ADT organized the seminar “Best practice in manure management” which aimed at demonstrating solutions and practical examples on the field. 80 participants, among them researchers, representatives of local authorities and farmers from different provinces in China attended the seminar. The seminar was very successful and underpinned for more information and international experiences on manure management practices suitable for Chinese conditions.

The “German-Sino Cooperation Project on Animal Breeding” is funded by the German Federal Ministry of Food and Agriculture (BMEL) and the Chinese Ministry of Agriculture. Additional support is granted by German business partners and Chinese demo farms.

**For more information: [www.adt-tierzucht-china.org](http://www.adt-tierzucht-china.org)**



## Animal Identification and Traceability at a glance!

Animal Identification, Registration and Traceability remains a top priority subject with the technical portfolio of ADT conducting BTSF trainings as well as technical assistance projects and consultancies for various clients.

ADT and its subcontractor, the Institut de l'Élevage, France, continued the one-week training events on Animal IRT under the "Better Training for Safer Food" (BTSF) initiative of the EU with five more workshops in Lyon, Warsaw, Lisbon, Ljubljana and Munich. Between 25 and 30 delegates attended each training event which provided theoretical briefings, case studies and practical group work. Each training session was completed by a one-day field trip giving the participants an insight in the practical implementation of EU requirements on Animal Identification, Registration and Traceability. The training dates and locations for 2017 are published on [www.btsf.adtprojekt.net](http://www.btsf.adtprojekt.net).

OSPRI New Zealand (Operational Solutions for Primary Industries) contracted ADT in 2016 to undertake a comparative analysis of the New Zealand National Animal Identification and Tracing scheme (NAIT) against RFID based cattle traceability system in place in other jurisdictions, in the context of current international traceability requirements and standards. The in-

ternational comparative analysis was used to support and inform a wider independent review of NAIT being undertaken by industry and Government stakeholders. Core delivery of the assignment was a gap analysis between the NAIT and four other AIT systems in the world. The gap analysis was divided into four areas with (i) the overall framework, drivers and incentives of the AIT schemes, (ii) the legal framework and provisions of the AIT key functionalities, (iii) system requirements, and (iv) the assessment of the systems' performance and economic features.

In addition, ADT continued its technical assistance on AIT system implementation with the assignments in Tanzania, Jamaica and Ethiopia. Whereas Tanzania is disposing of a functional AIT system already for two years, Jamaica started with the roll-out into the field in the first half of 2016. This is expected for the Ethiopian AIT system in the first half of 2017. In addition, recently a new assignment has been awarded to the consortium of UBK, ADT and VetEffect to introduce an AIT system in Suriname. The Animal Traceability Solutions (ATS) - platform remains the backbone for all these projects and confirms its excellent suitability to be customized for different species, purposes and production systems.

[www.animaltraceabilitysolutions.net](http://www.animaltraceabilitysolutions.net)



## Dairy Symposium in Morocco

*CECAMA and FIMALAIT signed convention for future cooperation in training activities*



On 15 December 2016, the German-Moroccan Centre of Excellence for Agriculture (CECAMA) in cooperation with the Moroccan Ministry of Agriculture and Marine Fisheries (MAPM) and the Moroccan Interprofessional Federation of Milk (FIMALAIT) organized a dairy symposium at the Hassan II Institute of Agronomy & Veterinary Medicine in Rabat. About 150 participants of different regions of Morocco attended. The symposium features particularly the development of fodder production and dairy cow feeding management as well as the improvement of milk quality in the dairy value chain. In the frame of the symposium, CECAMA and FIMALAIT signed a convention for the future cooperation in training activities.

The public-private partnership project CECAMA is part of the bilateral cooperation programme of the German Ministry of Agriculture and Food (BMEL). The consulting companies AFC Consultants International and ADT Projekt GmbH are implementing the project CECAMA in cooperation with the public Agricultural Advisory Service of Morocco (ONCA) and private sector partners.

[www.cecama.ma](http://www.cecama.ma)  
[www.agrimaroc.ma/une-convention-de-partenariat-signee-entre-la-fimalait-et-cecama](http://www.agrimaroc.ma/une-convention-de-partenariat-signee-entre-la-fimalait-et-cecama)

## Food safety in Moldova

*ADT/GFA provide expertise to align Food Safety Agency's regulatory system with EU requirements*

Moldova's economy is agriculture based and agricultural value chains contribute about 30% to its GDP. After signing the Association Agreement with the EU on June 27, 2014, the country has opted to align its food safety regulatory framework with ISO 17020 in order to be able to export more products of animal origin to the EU than honey and caviar, the main export products currently.

This endeavor is supported by GIZ with a 3-year funding of technical assistance to improve food safety in the Republic of Moldova and to provide support to the National Food Safety Agency (NFSA) by means of a project team based in the Agency.

The project team has an ambitious work program which spans interventions in four areas, namely (i) establish a quality management system and drafting national working procedures in line with ISO 17020, (ii) training of inspectors, (iii) support of the internal audit system and (iv) upgrading of selected food of animal origin producing establishments.

The consortium ADT/GFA as sub-contractor of GIZ has compiled a pool of experts who provide specialized input to the implementation of the work program during the period August 2016 to January 2018.

## Indo-German Cooperation on Seed Sector Development

*Continuous workshop sessions for harmonisation of technical regulations and standards on seeds*



In the frame of the Indo-German bilateral cooperation on seed sector development, the third joint workshop was carried out from 29 to 30 November 2016 in New Delhi. The workshop was organised by the Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA) and the Department of Agriculture, Cooperation and Farmers Welfare (DAC&FW) of the Ministry of Agriculture and Farmers Welfare (MoA&FW), Government of India. The Indo-German seed sector project is part of the bilateral cooperation programme of the German Ministry of Food and Agriculture (BMEL).

Beside two high level representatives from the German Federal Plant Variety Office (BSA) and an expert of German Plant Breeders Association (BDP), also the President of the Community Plant Variety Office in Europe (CPVO) and two seed sector experts from the Netherlands contributed to the technical sessions of the two-day workshop.

Key topics of the workshop have been the harmonisation of technical regulations and standards on registration and protection of plant varieties, discussion and preparation of a work plan to achieve bilateral Con-

vention Country Agreements between India and European countries and options of India to become in future member of the International Convention for the Protection of Plant Varieties (UPOV). About 90 participants from public and private organisations of the Indian seed sector attended the workshop.

Since November 2015, ADT Projekt GmbH is supporting the German Plant Breeders Association (BDP) in the coordination of the project activities in India with the provision of the German project coordinator.

In December 2016, the consortium of Sortenförderungsgesellschaft mbH (SFG), ADT Projekt GmbH (ADT) and the German Plant Breeders Association (BDP) applied for the new project phase 01/2017 – 12/2018 of the Indo-German Cooperation on seed sector development and awarded to implement the new phase. The phase 2017-2018 will continue with activities to harmonise legal and technical regulations and standards on seeds at national level but also activities to improve production, processing and marketing of high-quality seeds in the Federal State of Telangana are an important part of the new phase.

## Skills development in India

### ADT collaborates with the Green Innovation Centre in India

India, the second most populated country with a fast growing economy, has opted to invest heavily in education and social development of all members of society. The collaboration between the German Welthungerhilfe and Indian NGOs and corporate social institutions to set up "Green Colleges" subscribes to support this Government endeavor. Supported by the Green Innovation Centre India, a program of GIZ, funded by the BMZ, nine Green Colleges have been identified in three different States of India, offering 22 different courses in the Agricultural Sector. The overall objective is to reach out to the rural farmers, many of whom are subsistence farmers and to impart skills to them that could enable them to earn a decent living. This is seen as a mitigating measure against people leaving the countryside seeking for jobs in the cities.

One of the courses offered since end of 2015 by the Green Colleges at Certificate level is the "Animal Health Worker (AHW)". Currently offered by the KGVK Centre in Ranchi and by the TSRDS Centre in Jamshedpur, this course is intended for partici-

pants with a keen interest in livestock.

ADT was invited in autumn 2016 to provide its expertise to make a first assessment on the performance of those Green Colleges in the delivery of the AHW course and to make suggestions for the improvement and expansion of this type of training.

The consultant was able to confirm that livestock based agriculture is a backbone of rural farming, with different emphasis in the catchment areas of the two colleges (Ranchi: increasingly dairy farming; Jamshedpur: local breeds for draught purpose). This is encouraging and confirms that the course produces graduates for a profession in high demand. Furthermore, amendments to the current curriculum for AHW were suggested in view of making the training more practice oriented and adapted to the prevailing livestock husbandry and health problems. A concept for advanced and refresher courses in a modular approach was also suggested.

The Green Innovation Centre India and Welthungerhilfe through their Green Col-



leges have embarked on an ambitious project to impact on skills levels and poverty reduction in selected States and ADT is very proud to be associated with this laudable and successful program.

