

16 August 2017

Visit of **AGRAVIS Raiffeisen AG – Branch Coesfeld** (Figure 3) www.agravis.de :



Figure 3 Salesroom AGRAVIS

The Ugandan delegation was welcomed by one of its directors Mr. Manfred Schulze-Baek who guided the visitors through retail spaces and gave them the opportunity to tour the operational areas and who patiently answered all questions. The AGRAVIS Raiffeisen AG is a modern agricultural trading

company and the largest main cooperative in the German agricultural market. Their shareholders are mainly regional Raiffeisen Genossenschaften (cooperatives) whose members are normally agriculturalists (turnover about € 6.2 billion in 2016, 6,252 employees throughout Germany). AGRAVIS is active in various core segments: agricultural products, animal feed, plant production and agricultural technology (tractors etc.), furthermore energy, construction service and Raiffeisen markets. AGRAVIS is not only supplier of the most modern and used agricultural technology as i.e. all types of agricultural machines, it also offers competent repair services.

<https://www.youtube.com/watch?v=2qWpDtm40gw&t=65s> - Video with English subtitles: „What does AGRAVIS actually do?“ AGRAVIS offers among others an interesting perspective for the building-up of structures in Ugandan agriculture.

17 August 2017

Visit of **Weiling**, wholesale trade company in Coesfeld www.weiling.de (Figure 4 und 5):



Figure 4 Weiling Warehouse

Weiling is a reliable partner in the field of bio-products for 1000 customers throughout Germany. The company conducts another logistic centre in the south of Germany nearby Ulm. Its logistic systems daily guarantee freshness and reliability. Meanwhile the brand **bioladen*** even is the third-strongest brand among German organic food traders.

Bioladen*fair already exists more than 10 years and the “banana-cent“ became an important factor. 1 cent per banana can already make an important difference, several projects in Dominican Republic and in Ecuador (among others three school classes and three kindergarten groups with 100 children) could already be funded. Not only geographically but also on behalf of the diversity of goods **bioladen***fair constantly developed further in the last years. Dried mango pieces and cashew nuts originate from a **bioladen***fair project in Burkina Faso, Western Africa. The project in Western Africa could serve as example for the purchase of Ugandan agricultural products.



Figure 5 Weiling Robot-Storage-System

18 August 2017

Visit of **Chamber of Agriculture North Rhine-Westphalia** in Borken
www.landwirtschaftskammer.de/borken/

Director Dr. Peter Epkenhans gave a lecture about the responsibilities of the Chamber of Agriculture and its potential support regarding the development of Ugandan agriculture:

The Chamber of Agriculture is a corporation under public law and is under state control. Its responsibilities consist in supporting agriculture and employed persons in this sector and in strengthening the rural area. The Chamber offers service provisions regarding the operation of agricultural farms and a wide range of consulting services. The connected Technical College for Agriculture offers the further vocational training of agriculturalists to become certified agricultural business economist. The training takes two years. It offers the possibility to achieve the ‘Fachhochschulreife’ (= specialised A-levels) and the instructor’s licence. College attendance requires the training as an agriculturalist followed by one year practical experience at work. Also persons can be admitted who prove a relevant professional activity of at least five years.

The training of young Ugandans to become agricultural business economists at the Technical College for Agriculture as well as agriculturalists on agricultural farms in Münsterland has been discussed.

First visit of RIELA Karl-Heinz Knoop e.K. (Figures 6, 6a, 6b) in Riesenbeck, www.riela.de



Figure 6 RIELA Karl-Heinz-Knoop e.K. From left: Prince Eng. Dr. Kimbugwe Edward, Hanfred Spirgatis, Prime Minister Retired General Moses Ali (MP), Minister of State for Northern Uganda Kwiycwiny Grace Freedom (MP), Karl-Heinz Knoop



Figures 6a/6b RIELA Karl-Heinz Knoop e.K.
Donation Maize Sheller

19/20 August 2017

Visit of agricultural farms in Coesfeld District

In Germany about 3 percent of its population still live from agriculture, that means about 400,000 agricultural farms with an area of more than two hectare. In the interest of maintaining an agricultural farm as functional unit the Westphalian law of entail only grants one heir to a farm to take over the farm. At the same time heirs who do not take over the farm will be granted a compensation the amount of which is regularly limited.

After Second World War the primary aim was to produce as soon as possible enough food for the population. In spite of the lack of cultivation areas in the East the food production could be improved very fast. This is mainly due to the fact of the increasing mechanisation. On the basis of more and more machines it was possible to increase the production in the fields. In addition the use of artificial fertilizer and pesticides considerably simplified the work.

Agricultural farm **Hof Wigger** in Holtwick: Broiler farm (Figure 7a)/Biogas plant (Figure 7b) – Electricity generation from biomass



Figure 7a Chicken barns



Figure 7b Biogas plant

Here the Ugandan delegation could visit a broiler farm. Within six weeks 50,000 broilers are raised from chicken to slaughtering weight. The own biogas plant produces electricity (generating capacity of about 2 million kilowatt hours per year) as well as heat which occurs as a byproduct and with which the agricultural buildings and the private living area are heated. The total percentage of generating capacity from biomass in Germany amounted to 6.9 % in 2016, the total percentage of renewable energies concerning gross electricity consumption amounted to 31.7 % in 2016 (Figure 7c).

The farm owner Bernhard Wigger explained to Prime Minister Retired General Moses Ali the enormous size of the property: “In former times the farm had to host and feed a lot of people who have all been involved in agricultural work.” Today Bernhard Wigger manages the farm alone with his ultra-modern machinery.

Struktur der Stromerzeugung in Deutschland 2016

gesamt: 648,3 Milliarden Kilowattstunden (Mrd. kWh)

Anteile in Prozent (Vorjahr in Klammern)

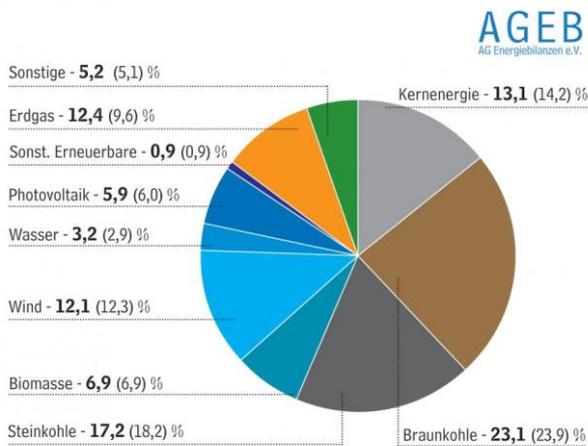


Figure 7c Structure of electricity generation

Stand: August 2017

Hinweis: Der Gesamtanteil erneuerbarer Energien am Bruttostromverbrauch lag 2016 bei 31,7 Prozent (Vorjahr: 31,5 Prozent).



Figure 7d Right next to ultra-modern machines from today an old plough from the 1920s can be discovered

Of course the present industrialised agriculture in Münsterland should not be completely applied to Uganda. The misstep to over-industrialisation should be avoided. But Ugandan agriculture should increasingly and stronger focus on using machine power to release especially Ugandan women from heavy physical work in agriculture. In order to ensure the economic use of machines in Ugandan agriculture the agricultural lands ought to be amalgamated whereby an increasing harvest yield would be guaranteed at the same time.

Agricultural farm **Hof Beuse** in Dülmen: Visit of a mobile chicken coop (Figure 8 and 9)

The big sized chicken coops that are usual in Germany are not practicable in Uganda because of the completely different climatic conditions. The risk of disease in these big sized chicken coops is disproportionately high, temperatures over 33 degrees Celsius lead to clumping of the protein in the chicken's blood, the chickens would die. Chickens are scratching birds which find scratching their food like flies, insects and beetles in the grass. Of course the supply with water and grain food is necessary. They like to bath in the sand to protect themselves against infestations with chicken fleas. Mobile chicken coops with 100 to 1000 chickens are movable and can be moved again and again on fresh grassland. The mobile coops are produced from insulating material. In the night the chickens sleep in the coop on perches, then the flap will be closed against nocturnal predators. In the morning at sunrise the flap will be opened again. It is important to note that this kind of egg production is purely biological.



Figure 8 Hof Beuse: Mobile Chicken Coop



Figure 9 Hof Beuse: Mobile Chicken Coop
From left: Hon. Atim Joy Ongom (MP),
Hon. Ababiku Jesca (MP), Hon.
Kwiyucwiny Grace Freedom (MP)

Baumschule (Nursery Garden) Schwieters in Holtwick: www.schwieters.de

After the plant tour the owner Paul Schwieters (Figure 10) gave a fascinating lecture on collection and processing of seed as well as on plant propagation.



Figure 10 Baumschule Schwieters
with Paul Schwieters (right)

21 August 2017

Follow-up visit of the company **RIELA Karl-Heinz Knoop e.K.** in Riesenbeck.

The Ugandan delegation had the opportunity to get a general idea of grain processing for its country. The German company RIELA is highly interested in investments in Ugandan agriculture. The visit of its owner Karl-Heinz Knoop in Uganda has already been arranged.

All visited agricultural organisations and private companies firmly expressed their willingness to support the development of Northern Uganda and are waiting with great anticipation for positive signals from Ugandan government authorities to start their cooperation in an unbureaucratic way.



Figure 11 At HS Optikmaschinen the Minister of State Grace Kwiycwiny got a first impression of modern metal processing, Agreement existed on the fact that the vocational training in Germany based on a dual system of training – vocational education and academic studies – should be promoted and implemented in Uganda.



Figure 12 Ophthalmologic goods are prepared for the container transport to Uganda at HS Optikmaschinen



Figure 13 Prime Minister Retired General Moses Ali is starting from the delegation's hotel



Figure 14 Visit at GRABOWSKY KÄLTETECHNIK (Refrigeration Technology): Owner Helmut Grabowsky offered his support in the field of knowledge sharing in regard of food cooling and the air conditioning of operating theatres

Figure 15 At Bazungu e.V. the Minister of State received a refraction device for the mobile use in ophthalmology in Uganda. Independent of electrical supply the device will find a valuable and intensive use especially in Northern Uganda.



Figure 16 The Ugandan Members of Parliament visited the catholic (right) and protestant churches on Sunday.