



NEWSLETTER

Improving Food Security and Economic Growth in
Mozambique through Higher Polytechnic Education
Provision (NICHE/MOZ/150)



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Introduction



Carel Jaspers,
Director
Q-Point BV

The project "Improving Food Security and Economic Growth in Mozambique through Higher Polytechnic Education Provision" (NICHE/MOZ/150) is funded by the Nuffic/NICHE program and will cover a four-years period.



Olivia Ansenk, gender and labour market specialist of Q-Point, visits the new campus ISPG

The project will focus on capacity building in the field of Agriculture Hydraulic and Water Supply and on Agro processing and

Project introduction



Dr. Pedro Comissal
General Director
ISPG

The ISPG is a newly created Polytechnic Higher Education (2006) in Mozambique. ISPG aims at influencing, at its level and, where possible, positive changes in the province, region and surrounding communities, by promoting sustainable resources management, food security and economic growth.

Food Technology, responding to the needs in the market in Mozambique and with a gender perspective. In this newsletter you find information about the project, the state of affairs, but also backgrounds, stories and experiences of students and teachers. I hope you enjoy reading.

Carel Jaspers, director Q-Point

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The Chókwè District where the ISPG is located is essentially agrarian, both in terms of agriculture and livestock. During the harvesting season, significant production is lost in the farms and / or, in many cases, sold in the market at a very low price and without added value, although the region has recognized agriculture potential, for crops and animal production.



Irrigation canal Chókwe district

This imposes the need for qualified professionals with the right set of knowledge and skills.

The overall project objective is formulated as follows: To contribute to food security and economic growth in Mozambique through the provision of qualified professionals for the market in the areas of agro-processing and agriculture hydraulic and water supply. This project aims at strengthening the capacity of ISPG to provide better

agricultural education, research and technical assistance services especially in the areas of agro processing and agriculture hydraulic and water supply according to the needs of the market with a gender perspective. By doing so it expects ISPG to better be able to contribute to food security and economic growth in Mozambique through the provision of qualified professionals for the market.



Welcome of mr. Jaspers at ISPG office.

Visit Dairy and Food Science Technology Department of Egerton University



**Carel Jaspers,
Director
Q-Point BV**

On November 1, Project director Carel Jaspers visited the Dairy and Food Science Technology Department of Egerton University. After a warm welcome by Prof. Alexander Kahi, Dr. Faraj, introduced us to the department.

The department is committed to developing and disseminating scientific knowledge and providing the society with quality personal for tackling production research and extension who can contribute to sustainable agro industrial

development of Kenya with emphasis on food and milk processing. The department offers several academic programmes on PhD, MSc, and BSc and diploma level.

The Department of Dairy and Food Science Technology has very nice lab facilities, in which students are trained in the basic principles of food technology. For practical training, there is a professional Dairy Pilot plant with new equipment. The dairy plant is certified on ISO 22000. Students from all parts of East and Southern Africa are trained in the department.



Dairy food processing plant Egerton



Dairy food processing plant Egerton

In 2014, some staff of ISPG will be involved in MSc or PhD courses in the field of food technology.

A qualitative frog leap in Chimoio

Enhancement of teaching quality and management capabilities



Dr. Olaf McDaniel
Managing partner
CBE Group

It does not happen often, that a polytechnic has the opportunity to invest in the improvement of nearly all aspects that are responsible for quality of education. With the help of NUFFIC investment, the Polytechnic ISPG in Chokwe (Mozambique), a consortium of parties is assisting the polytechnic to improve in teacher skills and management skills in the time frame of 2013-2016. Furthermore with another foreign investment (Qatar) a new campus is under construction. This allows the polytechnic to make a giant quality frog leap in the coming years.

The assistance to improve teacher quality and effectiveness contains a number of actions.

- First of all a substantial number of the teachers is trained in their specific field of expertise; many of them to a Master level and some even to PhD level. This will enhance the quality,

actuality and relevance of the subjects that are taught.

- Secondly, the teaching skills will be improved by offering the teachers specific and tailor made courses on the basis of a self-assessment scan.
- Thirdly, the level of ICT use will be strengthened through the introduction of a electronic learning environment and teachers will be facilitated with a Wifi network and modern equipment to be able to optimize the use for students and teachers.

In other words: a modern and high quality approach. And this is all carried out with specific gender attention and consideration of the requirements of graduates for the labor market.

The managers of ISPG were open, hardworking and studious and have taken another step towards a more effective management approach in their daily practice.



New library ISPG

Management of educational institutions is a complex task. In ISPG many of the teachers have also a management task, most often in the field of curriculum design and planning as well as directing a number of teachers to do the right thing.

Most difficult issues at ISPG are (selection):

- Lack of commitment of teachers;
- Insufficient budget;
- To get people of the organization to understand and accept to implement the government rules;
- To build teamwork to make people follow the same direction to reach the mission, vision, and organizational goals;
- Lack of coordination of activity between different departments;
- Improving the communication system
- Participation of all;
- Manage performance of teachers and staff.

Sounds familiar?

The managers of ISPG were open, hardworking and studious and have taken another step towards a more effective management approach in their daily practice.

Labour market need assessment



Olivia Ansenk
Trainer
Q-Point BV

From 27th till 29th of May 2013 I had the pleasure to work closely together with ISPM staff in Chimoio on the Labour market Need Assessment (LNA) approach. The LNA is one of the activities within the Nuffic NICHE/MOZ/150 project.

ISPG together with the consortium will develop and implement new curricula for Degree and short courses in agro food processing. Since Instituto Superior Politecnico de Manica (ISPM) is similarly developing new curricula for courses in agro food processing, a collective approach to assess the labor market needs was chosen. ISPG focusing on sector stakeholders in Chockwe & Maputo

and ISPM focusing on stakeholders in Chimoio & Beira.



First steps in pig meat processing

The aim of the labour market need assessment is first of all to determine the competences and subjects that future employees need to master in order to be successful in the Food Technology / Agro-processing sector. Secondly the aim is to explore significant and meaningful employer engagement in program design and implementation (incl. research).

Thirdly the assessment functions as a pilot (first step towards) the implementation of a system for regular review on labour market needs, involving relevant sector stakeholders.



Sausage processing

Carrying out interviews, going into the field, building personal relationships is very relevant for further course developments activities.

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During my visit we took our time to develop a questionnaire using input from previous experiences and similar labour market assessments, we practiced the interview process and questionnaire through a simulation, followed by several visits to industry players in the

Curriculum development



**Sebastiaan Hetterschijt
Trainer
Q-Point BV**

In January 2014 there was a second mission about curriculum development. To get a clear picture about current situation at ISPG, a Labour Market Needs Assessment (LNA) was conducted. This

surrounding of Chokwe and in Maputo to test and improve the developed questionnaire and to reflect on the interview process together.

We visited a skin processing -, meat processing -, milk processing- and cereal company. The stakeholders we visited were very open and informative.



Visiting stakeholder ISPG

The participants expressed that they felt well prepared and confident to perform the interviews using the tools developed collectively in the training. The active participation of ISPG staff in the training led to fruitful results. Afterwards a reporting format was developed for both ISPG and ISPM to compile results and ease analysis.

important step was necessary before starting the development of the new curriculum. We discussed about the agricultural strategy of the government of Mozambique, also to use this information in the curriculum.

An important part of the new curriculum in agro food processing are the agribusiness developments in Mozambique. It is important to incorporate these market

developments in to the new curriculum and lesson materials.

By the LNA, ISPG will be more connected with the agro business in Mozambique and will offer student more practical lesson so that they are more useful for companies.



Project team inception phase

Important technology's for agro-food education: meat (including: egg's, poultry, beef, aquaculture, pig, leather production, dairy, fruit & vegetables (like corn, beans), seed production).

Discussion about LNA, important issues are: Knowledge of usage of machines, marketing, selling products, entrepreneurship, certification of products etc. It is important to listen good to your stakeholders, it will be the bases for the course. We talked about the professional domains:

1. Research and development
2. Commerce, service and support
3. Application and production laboratories
4. Laboratory Diagnostics
5. Engineering
6. Manufacturing / production
7. Quality Assurance.

Important element in education: Business Industry Centre / commercial kitchen / pilot plant, to encourage emerging farmers, to work-out business cases for farmers, to promote linkage in the agro-food chain, mechanization, supply chain, value chain management.

An impression of Carel Jaspers visit to Mozambique



Generate income ISPG



Explanation of food technologist Mozseeds



Open field irrigation tomato ISPG Chókwe region



Aquaculture training facility ISPG

MSc courses in Brazil



Lateiro Salvador de Sousa
project coördinator ISPG

In December 2013, Dr. Pedro Comissal, General Director ISPG and Mr. Lateiro Salvador de Sousa visited the Universidade Federal de Vicosa of Brasil.

In our project, some teachers and staff of ISPG, will be trained on MSc level in the field of agro food technology and food processing and in the field of water and irrigation. During meetings Universidade Federal de Vicosa, ISPG signed a Memorandum of Understanding (MoU) for long term collaboration.



Partners



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The Netherlands



CBE International
The Netherlands



IPC Groene ruimte
The Netherlands



Egerton University
Kenya



University of the Free State
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Requesting organisation



Instituto Superior Politécnico
de Gaza

Donor



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Colophon

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