



NUTRITION
THIRD WORLD

Annual Report 2007

Brussels, May 2008



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Nutrition Third World

Annual Report 2007

Summary / Highlights

- In 2007, 8 projects in 7 countries were supported by NTW.
- The evaluation by grantees showed that NTW supported research has been very diverse, context specific and that results have been disseminated internationally and in various ways. NTW's funding allowed researchers in developing countries to carry out studies that benefit the local population in a field relevant for the local context. Through their activities, researchers gained valuable experience, a necessary precondition to secure additional funds from other sources. The fact that NTW focuses on applied research, or aims to improve the application of already known tools, is definitely highly appreciated and responds to a need.
- The website has been revised extensively and updated with pictures from NTW supported research.
- NTW has been accepted for affiliation with the Association for Ethical Fundraising (AERF) and NTW letters will bear the AERF logo from now on.
- NTW's Scientific Committee is sad to report the loss of Dr. François Delange who died in 2007. Four new members were appointed to the Committee
- Dr. Patrick Kolsteren, senior academic expert in the field of nutrition research was appointed Managing director of NTW. He was since 2002 an active member of NTW's Scientific Committee.

PART I / OVERVIEW

1. Introduction

In 2007, NTW focused on the consolidation of administrative reforms. It also carried out an evaluation of the research it supports, which provided important lessons for strategic orientation and future actions. Although the attraction of new projects was not actively pursued in 2007, several high quality protocols were received and reviewed by NTW.

2. Support for research

✓ Research projects

In 2007, NTW financed 8 projects in 7 countries (see list in Annex 1). A summary overview of NTW supported research in 2007 is included as Part III of this report.

For 2008, a new project entitled “The evaluation of an alternative approach for taking care of child malnutrition in rural Burkina Faso” was accepted. Its main researchers are Dr. Laetitia Nikiema and Prof Dr. Blaise Sondo from Burkina Faso. This study aims at offering an alternative strategy to improve nutritional status of under-fives by linking child growth promotion and malnutrition care. The study will test the effect of this strategy on health facilities performance and on the nutrition status of children from 0 to 59 months. This intervention will consist of a reinforcement of nutrition activities within the “Integrated Management of Childhood Illness” programme. One group of health workers will be trained according to the national strategy and another using the child-centred approach. The project will start in 2008 and will end in 2010.

✓ Enquiries

Seven enquiries were handled by the secretariat, respectively from Mongolia, Bangladesh, Burkina Faso (2), Vietnam, The Philippines and Tanzania (see list in Annex 3). Upon acceptance of the letter of intent, full proposals were reviewed by external reviewers. Most of these applications were of high quality and are still under consideration for funding in 2008. One researcher from Sri Lanka expressed her intention to submit a letter of intent for 2008.

As a result of the experience over the last 10 years, of the expectations voiced by NTW’s researchers on the occasion of the 2004 Symposium, and of the evaluation recently conducted, the Board has decided to increase NTW’s support to the “strengthening of research capacity” in developing countries, and to make it a more explicit objective of the Association’s mission.

Operational decisions to this effect will be made in 2008.

✓ *The Scientific Committee*

On 15 June 2007 the Scientific Committee suffered the sad loss of one of its prominent members, Dr. François Delange. As professor of paediatrics at the Free University of Brussels, he combined clinical paediatrics and research on thyroid physiopathology and was the author or co-author of 12 books and over 300 scientific publications. He was a member of the Board of the International Council for the Control of Iodine Deficiency Disorders since 1986, its coordinator for Europe and its Executive Director. He was an internationally known specialist and consultant to many international organisations such as WHO, IAEA, UNICEF and the European Union. Professor Delange was a member of NTW's Scientific Committee since its establishment and he contributed immensely to the quality of NTW sponsored research through his highly critical and demanding concern for excellence combined with a respectful and positive attitude towards young scientists in developing countries.

In 2007, the Scientific Committee was enlarged with the following new members:

- Bart Criel (Belgium), Professor of Public Health, Institute of Tropical Medicine;
- Lena Davidsson (Sweden), formerly president of the International Committee on Nutritional Anaemia ; ex-researcher at the Polytechnic Institute of Zürich, and currently responsible for nutrition at the International Atomic Energy Agency, Vienna;
- Annemarie Kruger (Republic of South Africa), Research Co-ordinator, AUTHeR, Faculty of Health Sciences, North West University of Potchefstroom
- Peter Mamiro (Tanzania), former NTW grantee, Food Scientist and Nutritionist, Researcher in the department of Food Science and Nutrition, lecturer at the Sokoine University of Agriculture, Morogoro

The full composition of the Scientific Committee (as of 31/12/2007) is given in Annex 8.

3. *Evaluation*

Since its foundation in 1984, Nutrition Third World has supported applied scientific research by emerging researchers in the South. In 2007, researchers who benefited from NTW grants were contacted to provide feedback on NTW's support and to review the actual impact of their research. A questionnaire-based survey was carried out to see how research results have been applied and what the benefits were for the target population.

For the last 10 to 15 years, applied nutrition research has undergone a fairly promising development, thanks to the increasing involvement of researchers established both in the North and in the South.

Areas covered in NTW supported research are, *inter alia*, the prevention and treatment of child malnutrition; micronutrient deficiencies (mainly iodine, iron, vitamin A and zinc); young child feeding; the “food based” approach in tackling nutritional deficiencies; the planning and evaluation of nutrition interventions; the promotion of growth and development of young children; maternal health and

nutrition; the prevention of intra-uterine growth retardation; the “nutritional transition” phenomenon and the training and management of village-level workers.

NTW's efforts also contributed successfully to the strengthening of research capacity in the South. Lastly, substantial progress was achieved in the development of methodologies for studying nutritional problems and for assisting operational agencies methodologically to conduct applied nutrition research; training doctors and other health personnel; planning and implementing interventions; and evaluation.

3. *Financing the Association*

The fund raising campaign was postponed to 2008 for three main reasons:

- the need to consolidate the secretariat and ensure the successful transition to new management arrangements
- the concern for quality in preparing the said campaign (meeting with the Advisory Board, final development of the website, preparation of a brochure)
- the choice of a strategy

The subject will be the central theme of a Board meeting early in 2008.

NTW has been accepted for affiliation with the Association for Ethical Fundraising (AERF). From now on, the logo of AERF will appear on the heading of NTW letters.

4. *Management / Administration*

✓ *A new managing director*

At the meeting of the Board of Directors of April 20, 2007, Patrick Kolsteren, head of the Child Health and Nutrition Unit of the Prince Leopold Institute of Tropical Medicine in Antwerp was appointed Managing Director of NTW. He succeeds Dr. I. Beghin after a period of transition that started at the beginning of 2006. Dr. Kolsteren is a medical doctor, an academic of ITM and a professor at Ghent University. He is a senior expert in nutrition research in low and middle income countries with numerous international publications on various topics. He has worked and lived in Nepal and Thailand and carried out different assignments of field research around the world. He was already a member of NTW's Scientific Committee and attended a number of Board meetings as a guest. Dr. Ivan Beghin remains active as a Director on the Board and will direct his activities mainly towards promotion and fund raising. The composition of the Board of Directors is given in Annex 6.

✓ *The Secretariat*

M. Carl Lachat, a professional nutritionist, has taken over the position of M. Armando Perez-Cueto as project administrator for NTW. Mr. Lachat works as a PhD research fellow at the Child Health and Nutrition Unit of the Institute of Tropical Medicine in Antwerp.

✓ *The Association's governance*

The Board of Directors remained unchanged in 2007. It met three times at Bank Degroof in Brussels: on 28 February, 20 April and 21 September.

The Advisory Board remained unchanged in 2007 and its composition is given in Annex 7.

The Bureau also remained unchanged in 2007 comprised, the Managing Director, the former Managing Director, two volunteer Directors and the secretariat. The Bureau met three times to coordinate managerial issues of NTW's operations and to prepare the meetings of the Board of Directors.

5. *Promotion and communication*

✓ *Website*

NTW's website www.nutrition-ntw.org has undergone vast changes in 2007. NTW supported researchers were asked to send pictures of their research in the field. Various sections were added to the website and links to public documents for downloading were inserted. The following elements (amongst others) were included in the website:

- The report of the evaluation of NTW supported research;
- A summary version of the annual report;
- An announcement of the Royal Academy for Overseas Sciences Competition and of the Development Cooperation Prize as an encouragement to NTW supported research.

✓ *Proceedings of the 2004 Symposium*

The remaining copies of the Proceedings of the 2004 Symposium were distributed to project applicants upon request.

✓ *Donorinfo*

Donorinfo has included a special page on its website with information on NTW.

PART II / FINANCE

General

As in previous years, the Association's accounts have been kept by Mr. Jean-Pierre Lood and the "Subsidiary Companies team" of Bank Degroof.

The accounts were audited by Messrs. Jean Fossion and Jean-Philippe Michaux, representing PricewaterhouseCoopers. NTW wishes to extend warm thanks to them for their thorough and precious contribution.

Tax relief certificates were sent to donors at the beginning of the year.

Financial reporting follows the format decided on last year.

Financial report

- **Donations.** In 2007 the Association received donations for an aggregate amount of 101,550 Euros. One donation amounted to 100,000 Euros.
- **Financial income** of 4,393 Euros was booked at 31 December 2007 compared to 11,200 Euros last year. **Financial expenses** amount to 2,380 Euros, including 182 Euros banking costs and 2,198 Euros exchange loss.
- Cost of **sundry goods and services**, at 76,812 Euros, include scientific support (24,000 Euros), project costs (49,412 Euros) and miscellaneous costs for publications, maintenance of the server and web domain, and general administrative costs.
- The Association's **own funds** increased in 2007 by 25,584 Euros, i.e. the difference between total income and expenditure. At year end, own funds amount to 455,867 Euros. From this sum 85,886 Euros are pledged for the following projects: Child development in Burkina Faso (€ 35,000), Micronutrients in Burkina Faso (€ 5,886), School Gardens in South Africa (€ 10,000) and Vitamin D in India (€ 35,000).

Underlying causes for nutrition insecurity among black South African farm workers in the North West Province, South Africa – Social Research from the household and gender perspective

Final Report

Principal Investigators : **Dr. Annamarie KRUGER**, Faculty of Health Sciences, North West University, Potchefstroom, South Africa and **Dr. Stefanie LEMKE**, Justus Liebig Universität, Giessen, Germany, in collaboration with the German Research Foundation and the South African Research foundation.

In South Africa, farm workers are one of the poorest population categories in terms of income, education, health, and nutrition security. This study is carried out within the infrastructure of the multidisciplinary “Farm Labour and General Health” programme (FLAGH) aimed at the development and evaluation of intervention programmes for improving the nutritional status and the quality of life of poor farmers. Four farms in the North West Province were selected and data obtained from 60 households on socio-demographics, economic status, nutrition security, social networks, coping strategies and perceptions of farm workers and their families. The quantitative study combined focus groups and direct observation.

In 2007, the project was successfully concluded. The main activities concentrated on final collection of data, capacity building and dissemination of results.

Research carried out in the context of the project enabled various young researchers from South Africa, Germany, Botswana and Zimbabwe to complete their degrees. A total of 15 researchers, predominantly young women, benefited from capacity building efforts generated by this project.

The highlight of the year was an international workshop held in October 2007 where the results were communicated to all relevant stakeholders and the way forward was discussed. The project paved the way for the establishment of an interdisciplinary forum to continue advocating the improvement of the living, health and nutrition situation of farm workers in South Africa.

In 2007, the results from the study were also presented at the EU Summer School of Public Health Nutrition in Giessen, a congress on Anthropology in South Africa, an academic seminar at the University of Witwatersrand. The results were also written up and submitted for publication in the Journal of Public Health Nutrition. Other publications are in preparation in 2008.

**Impact on birthweight of micronutrient supplementation and anti-malaria
chemo-prophylaxis during pregnancy**

Progress report

Principal investigator: **Mr Patrick KABORE**, in collaboration with the University of Ouagadougou and the School of Public Health of Brussels University - ULB (Prof. Dramaix). Co-financed by NTW and CEMUBAC.

The objective of this project is to study the impact of micronutrient supplementation during pregnancy on low birthweight, growth, morbidity and mortality in children during the first six months of their lives. The study is a randomized double blind clinical experiment carried out in a rural area, including 1,200 women subjected to two different treatments, one providing zinc and vitamin A in addition to the control treatment. The results of the project could lead to public health interventions aiming at reducing low birthweight in children in Burkina Faso.

This project did not take off notwithstanding NTW's approval of the financing in 2005. The researchers first contacted a French firm for the supply of the micronutrients. Negotiations for the purchase of the micronutrients and placebo delayed the implementation of the project. The activities effectively started in 2007 after purchase and delivery of the micronutrients. Micronutrients were received in Burkina Faso in December 2007.

The project is now scheduled for completion in 2008.

The Metabolic Syndrome in Bolivian Adolescents Study

Final report

Researchers: **Ms. Ana BAYA-BOTTI**, Universidad UNIVALLE, Cochabamba, Bolivia and **Mr. Federico PÉREZ-CUETO EULERT**, Ghent University, in collaboration with ITM. The study is co-financed by UNIVALLE's institutional research funds.

The metabolic syndrome is defined as the presence of at least three of the following factors: arterial hypertension, dyslipidemia, overweight and abdominal obesity, high levels of fasting glucose, insulin resistance and diabetes. These disorders are at the root of chronic diseases such as cancer or heart diseases, responsible for the majority of deaths in the world. Although these ailments predominantly affect adults, there are important indications that point to the presence of the metabolic syndrome in adolescents. Since adolescence is a period of consolidation of feeding habits and lifestyles, it is a sensitive period to initiate prevention. It would appear necessary to investigate the prevalence of these metabolic disorders in order to target future interventions more effectively.

The aim of the project is to identify the risk of metabolic syndrome and chronic diseases in Bolivian adolescents and to determine its link to their nutritional status and socio-demographic characteristics. The project consists of a nutritional survey (food consumption) that will use tools developed in a previous study (PAFI project, co-financed by NTW) and the collection of a blood sample, the registration of socio-demographic data, the measure of weight, height, blood pressure and abdominal girth.

Activities in 2007 comprised the collection, input and analysis of data on adolescents. In total data from 3653 participants were analysed and will provide national representative data for Bolivian adolescents. The data collected for the purpose of this study will provide detailed insights into the metabolic syndrome and will contribute to the body of evidence addressing diet related chronic diseases in adolescents living in low and middle income countries.

The study was carried out in collaboration with various ministries, 5 universities, 3 hospitals and 48 schools.

The project terminated in 2007. Results from the study will be written up and submitted for publication in international journals in the course of 2008.

School Gardens and Vitamin A, Republic of South Africa

Progress Report

Researchers: **Dr. Mieke FABER**, Nutrition Intervention Research Unit, Medical Research Council, Tygerberg, Republic of South Africa and **Mrs. Sunette Marlize LAURIE**, Agricultural Research Council, Pretoria, Republic of South Africa. Additional funds were obtained from the Agricultural Research Council, the Medical Research Council and the Sugar Association.

Vitamin A deficiency is of public health significance in South Africa, mostly because of an inadequate dietary vitamin A intake. Dietary vitamin A is available as preformed vitamin A (commonly found in foods from animal origin) and provitamin carotenoids, derived from yellow-orange coloured fruits and vegetables and dark-green leafy vegetables. The availability of and access to beta-carotene rich fruits and vegetables are often limited in rural areas. As suggested by local research, this can be improved through local production.

The challenge now is to scale up these projects and show that mechanisms can be put into place to ensure availability and accessibility of these vegetables in poor disease-stricken rural communities. The aim of this study is to determine whether a school gardening project can extend the availability of and access to beta-carotene-rich vegetables and ultimately reduce vitamin A malnutrition among primary school children and their families in a rural area that has a high prevalence of vitamin A deficiency. This is done by (i) introducing school gardens that focus on beta-carotene-rich crops, (ii) incorporating locally produced beta-carotene-rich vegetables into the existing school feeding programme, (iii) training pupils and parents in crop production, (iv) educating pupils and parents on nutrition, and (v) linking the school gardens with community gardening activities. The study is done in four schools in a rural area approximately 50 km northwest of Durban in the KwaZulu-Natal province.

A baseline situation assessment was done in 2007. The intervention phase includes the establishment of school gardens, nutrition education and promotion, and training in gardening activities. Project monitoring involves the routine collection of information of project activities on an ongoing basis. For impact evaluation, changes in (i) nutritional value of the school feeding meal, (ii) knowledge regarding vitamin A nutrition of pupils, educators and parents, (iii) vitamin A intake of grade 6 and 7 pupils, and (iv) crop production at community level will be determined annually for a period of two years.

Two teachers per school and six community health workers were trained in implementing vegetable gardens.

**Influence of Aflatoxin and Fumonisin exposure on growth and iron status of
Tanzanian infants consuming maize-based complementary foods**

Progress Report

Principal investigator: **Martin KIMANYA**, Tanzania Food and Drugs Authority (TFDA), in collaboration with the Sokoine University of Agriculture and Ghent University. The study is co-financed by the International Foundation for Science.

The study started as result of a previous NTW funded research on complementary foods in Tanzania led by Dr. Peter Mamiro. The project launched the hypothesis of contamination by moulds in rural Tanzania as one of factors explaining the poor growth and nutritional status of children.

The general objective of the study is to explore the influence of two mycotoxins (aflatoxin and fumonisin) exposure on the growth and nutritional status of Tanzanian infants aged 6 to 12 months consuming maize-based complementary foods.

In 2007 the project carried out the follow-up measurements of length, weight and haemoglobin level, and exposure will be further estimated using the data on the complementary food intake. This design is essentially a case control study.

In 2007, data analysis and write-up of the results took place. The write-up and publications of the findings will continue in 2008, culminating in the PhD defence of the main researcher.

In 2007, results of the study were presented on various occasions such as a workshop in Ghent, an international Mycotoxin Symposium in Istanbul, and the participation in a PhD symposium in Leuven, Belgium.

Next to the principal researcher, various other young researchers benefited from research carried out in the context of this study. More particularly, Stephen Otchere of Ghent University successfully defended his thesis entitled "Assessment of fumonisin exposure of Tanzanian infants via maize consumption" in 2007. Evodia Uggi of the Open University of Tanzania finalised a special project paper entitled "Nutritional status and adequacy of local complementary food used for feeding infants aged 6 to 12 months in Tarakea division, Rombo district, Tanzania" for a BSc degree in Human Nutrition.

Based on the results of the study, policymakers have included clauses regarding strategies to reduce mycotoxins contamination in foods with emphasis in foods for young children in the Food Safety Policy of Tanzania.

The study will end in 2008.

**Nutritional quality of street foods and their role in schoolgoing adolescents' diets
in Benin**

Progress report

Principal investigator: **Ms. Eunice NAGO**, University of Abomey-Calavi, Cotonou, Benin. The study is co-financed by the International Foundation for Science.

This study's main objective is to assess the nutritional quality of street foods and their role in schoolgoing adolescents' diets in urban zones of Benin. It is conducted in Cotonou, the country's most populous city. Particular aims are: (1) to evaluate adolescents' food intake on schooldays and the relative contribution of street foods; (2) to set up a data base of the nutritive composition of street foods ingested by those adolescents at school; and (3) to obtain a view on the factors determining street food consumption by these Cotonou adolescents at school. This research forms part of a wider group of studies on street foods (economic, behavioural, hygienic aspects, etc.) with the aim of helping Benin to formulate relevant policies.

The study started effectively in January 2007. In 2007, the study included anthropometrical measurements and a survey of food and nutritional intake by adolescents using the 24 hour recall method repeated twice on a sample of 637 pupils. The activities in 2007 were mainly dedicated to the collection and input of data on anthropometric characteristics, food intake, physical activities, attitude, perceptions and knowledge of adolescents with regard to healthy lifestyles and nutrition. The outcome of the baseline survey in 2007 will pave the way for a second part of the study to be launched in 2008.

In 2007, the researcher secured additional funding from VLIR, the Flemish Interuniversity Council.

The study will be completed in 2008.

**Qualitative and quantitative assessment of nutritional status and lifestyles of
Vietnamese adolescents**

Final Report

Principal Investigators: **Le Thi Hop, Le Nguyen**, National Institute of Nutrition (NIN) – Vietnam in collaboration with the Nutrition and Child Health Unit of ITM, Antwerp (M. C. Lachat). Co-financed by the NUTRICIA Foundation

In 2007, collection and input of data was completed and featured a qualitative assessment of knowledge, attitude and practices (KAP) with regard to out-of-home eating. The qualitative assessment started with exploratory group discussions. From these interviews, a KAP questionnaire was developed and presented to schoolgoing adolescents in rural and urban areas. The same adolescents that were measured previously were included for this. The project met all its milestones and was successfully concluded in 2007.

Data analysis and write-up of the results will take place in 2008.

The project foresees the implementation at national level of a nutritional programme for adolescents (the NIN is part of the Ministry of Health). The baseline data of the project paved the way for a national survey on adolescents in Vietnam.

Vitamin D in low birthweight babies in India

Progress report

The principal investigator is **Dr. Trilok Kumar**, Dept of Biochemistry, Institute of Home Economics, Delhi University, India. The study is co-financed by the Government of India and “Sight and Life Foundation”.

Vitamin D deficiency is common in India. Breastfed infants of low income women are at a particularly high risk of deficiency. Available evidence supports a causal role for vitamin D in preventing severe respiratory infections. Low birthweight due to intrauterine growth retardation is very common in India and these infants are at a high risk of respiratory and other morbidity. In some western countries, infants with low birthweight, primarily due to preterm birth, are routinely supplemented with vitamin D in early life. It is unknown whether infants who are intrauterine growth-retarded should be similarly supplemented.

The study evaluates whether daily vitamin D supplementation from birth to 6 months of LBW infants from low income Indian families will reduce mortality and hospital admissions and the incidence of infectious disease severe enough to require medical intervention, e.g. antibiotics, but not hospitalization.

The project started enrolling infants in 2007. The project plans to continue recruitment until the desired number of infants is obtained. Due to various administrative difficulties, NTM’s support effectively started in December 2007.

A mid-term analysis of the initial data is planned for 2008 in order to assess preliminary results. The possibility of conducting another study linked to the DIVIDS cohort is currently being investigated.

The Principal Investigator has received a Commonwealth Academic Fellowship and will be travelling to London in 2008 to learn laboratory techniques that will help further strengthen the laboratory techniques in New Delhi.

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Annex 1: Research Projects

Projects in progress or ended in 2007

- Nutrition Security of Poor Farmers, Kruger, RSA & Lemke, Germany
- Micronutrients and Anti-malaria Chemoprophylaxis in Pregnant Women, Kaboré, Burkina Faso
- Metabolic Syndrome in Adolescents, Bayá & Pérez Cueto-Eulert, Bolivia
- School Gardens and Vitamin A, Faber & Laurie, RSA
- Mycotoxins in Food and Child Growth, Kimanya, Tanzania
- Street Foods, Nago, Benin
- Nutrition and Lifestyles, Le Nguyen, Vietnam
- Vitamin D in low birth-weight, Trilok-Kumar, India

<p style="text-align: center;">Nutrition Third World</p> <p style="text-align: center;">Annual Report 2007</p> <p style="text-align: center;">Annex 2: Examples of co-financing</p>		
Co-sponsors	Research themes	Countries
<u>Belgian public organisations</u>		
DGCD	- Anaemia among schoolchildren (Sejas)	Bolivia
VLIR	- Prevention of intrauterine growth retardation (Centre Muraz) - Complementary food (Van Camp)	Burkina Faso Tanzania
CIUF	- Ambulatory nutrition rehabilitation (Nyombo)	RDC
FWO-VL	- Vitamin A and zinc (Diniz)	Brazil
Steve Biko Foundation	- Complementary food (Van Camp) - Prevention of intrauterine growth retardation (Centre Muraz)	Tanzania Burkina Faso
BTC	- Mycotoxins in food and child growth (Kimanya)	Tanzania
<u>International public organisations,</u>		
EU - STD programmes	- Evaluation of nutrition interventions (Eusebio)	Philippines, Peru, Bolivia
- INCO programmes	- Growth promotion of children (Tchibindat)	Congo (Brazzaville)
WHO	- “Thyromobil” Evaluation of salt iodisation (Ntambwe)	West-Africa
UNICEF	- “Thyromobil” Evaluation of salt iodisation (Ntambwe) - Growth promotion of children (Tchibindat)	West-Africa Congo (Brazzaville)
IFAD	- Planning and evaluation methodology (CPPE)	
<u>Private or mixed sources</u>		
IFS	- Bio-availability of vitamin A (Gouadou) - Traditional weaning products (Kana Sop) - Mycotoxins in food and child growth (Kimanya) - Street foods (Nago)	Cameroon Cameroon Tanzania Benin
Nestlé Foundation	- Iron salts for anaemia prevention (ICDDR,B)	Bangladesh
IRD	- Growth promotion of children (Tchibindat)	Congo (Brazzaville)
Kiwanis International	- “Thyromobil” Evaluation of salt iodisation (Ntambwe)	West-Africa
ICCIDD	- “Thyromobil” Evaluation of salt iodisation (Ntambwe)	West-Africa
Hestia Foundation	- Fortified complementary food (Sinkala)	Zambia

Co-sponsors	Research themes	Countries
German Science Foundation	- Nutrition security of poor farmers (Kruger)	South Africa
Institute of Child Health (UK)	- Fortified complementary food (Sinkala)	Zambia
Ellison Foundation	- Fortified complementary food (Sinkala)	Zambia
Nutricia Foundation	- Adolescent nutrition and lifestyles (Le Nguyen Bao Khanh)	Vietnam
CEMUBAC	Micronutrient and malaria chemoprophylaxis in pregnant women (Kabore)	Burkina Faso
Sight and Life	- Vitamin D in low birthweight (Trilok-Kumar)	India
ITM	- Management of child nutrition in primary health care (Ouedraogo)	Burkina Faso
<u>External, local sources</u>		
CNPq	Vitamin A and zinc (Diniz)	Brazil
Government of Uganda	Nutrition planning at district level (Byekwaso)	Uganda
South African Sugar Association	- Nutrition security of poor farmers (Kruger) - School Gardens and Vitamin A (Faber)	South Africa South Africa
National Institute of Statistics	Household budgets and nutrition (Perez)	Bolivia
DK International	Street foods and schoolchildren (Ngouffo)	Cameroon
South African Agricultural Research Council	School Gardens and Vitamin A (Faber)	South Africa
South African Medical Research Council	School Gardens and Vitamin A (Faber)	South Africa
UNIVALLE Universidad	- Metabolic Syndrome in Bolivian Adolescents (Bayá)	Bolivia
Government of India, Department of Biotechnology	Vitamin D in low birthweight (Trilok-Kumar)	India

Notes

- This table gives examples. It does not claim to be exhaustive.
- The financial contributions by associated universities or research institutes on their own funds are not mentioned.
- Only one investigator is mentioned.

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Annex 3: Enquiries received by country and researcher

<u>Africa</u> Burkina Faso Burkina Faso Kenya Niger Tanzania	Laetitia Ouedraogo Nikiema Roger Bila KABORE Ruth K. Oniang'o Françoise Falaise Kissa Kulwa
<u>Latin America</u> Bolivia	Anna Baya Botti
<u>Asia</u> Bangladesh Mongolia Philippines Sri Lanka Vietnam	Khurshid Talukder Tserennadmid Enkhjargal Pura Rayco-Solon Lalani Munasinghe Cao Thi Thu Huong
<u>Europe</u> United Kingdom	Katie Williams

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Annex 4: List of abbreviations

AEDES : Agence Européenne pour le Développement et la Santé
AERF : Association pour l’Ethique dans la Recherche de fonds
AUTHer : Africa Unit for Trans-disciplinary Health Research
BTC : Belgian Technical Cooperation
CEMUBAC : Centre Scientifique et Médical de l’Université Libre de Bruxelles pour ses Activités de Coopération
CERES : Centre d’Enseignement et de Recherche pour l’Environnement et la Santé
CIUF : Conseil Interuniversitaire de la Communauté Française
CNPq : Conselho Nacional de Desenvolvimento Científico e Tecnológico, Brazil
CPPE : Comprehensive and Participatory Planning and Evaluation
DGCD : Directorate General for Development Cooperation
DIVIDS : Delhi Infant Vitamin D Supplementation
EU : European Union
FAO : Food and Agriculture Organisation
FLAGH : Farmer Labour and General Health
FWO-VL : Fonds Wetenschappelijk Onderzoek, Vlaanderen
IAEA : International Atomic Energy Agency
ICCIDD : International Council for the Control of Iodine Deficiency Disorders
ICDDR,B : International Centre for Diarrhoeal Disease Research, Bangladesh
IFAD : International Fund for Agricultural Development
IFS : International Foundation for Science
INCO : International Cooperation
IRD : Institut de recherche pour le développement (ex ORSTOM), France
ITM : Institute of Tropical Medicine (Antwerp)
IVACG : International Vitamin A Consultative Group
KAP : Knowledge, Attitude and Practices
LBW : Low Birth Weight
NIN : National Institute of Nutrition (Vietnam)
RDC : République Démocratique du Congo
RSA : Republic of South Africa
STD : Science Technology for Development
TFDA : Tanzanian Food and Drugs Authority
ULB : Université Libre de Bruxelles
UNICEF : United Nations International Children's Emergency Fund
VLIR : Vlaamse Interuniversitaire Raad
WHO : World Health Organisation

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Annex 5 : Summary Annual Accounts

The annual accounts in their full legal format and the external auditor's report (PricewaterhouseCoopers) may be obtained on request at the following address: info@nutrition-ntw.org .

A summarized version is presented below. The auditor has issued an unqualified opinion.

Balance sheet as at 31.12.2007

Assets	(Euros 000)	Liabilities	
Fixed assets	0.0	Association's funds	43.6
		Earmarked funds	
Current assets		Endowment fund	102.3
Debtors (one year maximum)	39.3	Earmarked for projects	68.9
Short term investments	419.0	Result carried forward	<u>241.0</u>
Cash at banks	2.2	Total own funds	455.9
Regularisation accounts	<u>0.1</u>	Debts maturing in less than one year	<u>4.7</u>
Total	460.6	Total	460.6

Profit and Loss Account for the year ended 31 December 2007

Debit	(Euros 000)	Credit	
Research subsidies granted	73.4	Donations received	101.6
Overhead expenses	3.4		
Other expenses	1.2	Financial income	4.4
Financial expenses	<u>2.4</u>		
	80.4		
Result of the period	<u>25.6</u>		
Total	106.0	Total	106.0

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Annex 6: Board of directors

Mr. Alain Philippson (Chairman)

Member of the Board of Directors, Bank Degroof

Mr. Patrick Kolsteren (Managing Director)

MD, Head of the Nutrition and Child Health Unit at the Institute of Tropical Medicine in Antwerp and Professor of Nutrition at the University of Ghent.

Dr. Ivan Beghin (Director)

MD, Honorary Professor and past Head of Nutrition, Institute of Tropical Medicine, Antwerp. Former nutrition expert at the World Health Organisation, member and past president of the Belgian Royal Academy of Overseas Sciences

Mr. Etienne de Callataÿ (Director)

Chief Economist and Head of Equity research, Bank Degroof

Dr. Denis Goldschmidt (Director)

MD, Surgeon

Dr. Isaline Greindl (Director)

MD, Public Health Specialist, Technical adviser in charge of the AEADES programmes

Ms. Anne Henricot (Director)

Economist, consultant

Mr. François Masquelin (Director)

Barrister

Dr. Gilles Robers (Director)

MD, Neuropsychiatrist

Mr. Léo Goldschmidt (Honorary Chairman)

Director, European Corporate Governance Institute

Mr. René Devillez (Honorary Director)

Doctor of Laws

Bank Manager, retired

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Annex 7: Advisory Board

Karel Boone

Chairman and Managing Director, Lotus Bakeries N.V.

Alain Bruyninckx

Director of companies

Pierre de Maret

Former Rector, ULB, Brussels University

Georges Jacobs

Chairman of the Board of Directors, Group Delhaize

Michel Lechat

Professor Emeritus, UCL, Catholic University of Louvain

Paul Trân Van Tinh

Former Ambassador of the European Union

Marc Van Montagu

Professor Emeritus, Ghent University

Eric Wittouck

Chairman, ARTAL Group S.A.

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Annex 8: Scientific Committee and external referees

Scientific Committee

Michel Andrien

FOREM, Coordinator Carrefour Emploi Formation de Liège
Former Director, Centre d'Enseignement et de Recherche pour l'Environnement et la Santé (CERES), University of Liège
Liège

Bernard Brabin

Professor of Tropical Paediatrics, Child and Reproductive Health Group, Liverpool School of Tropical Medicine
Liverpool

Djamil Benbouzid

Paediatrician, former Faculty Professor in Algiers, former Senior Medical Officer of the Nutrition Programme at the headquarters of the World Health Organisation.
Geneva

Bart Criel

MD, senior lecturer, Health Policy and Financing Unit, Public Health Department at the Institute of Tropical Medicine in Antwerp
Antwerp

Lena Davidsson

PhD, Head Nutrition and Health-related Environmental Studies Sector. IAEA (International Atomic Energy Agency).
Vienna

Francis Delpuech

PhD, Head of the "Nutrition, Food, Societies" Unit of the Institut de Recherche pour le Développement (IRD – formerly ORSTOM),
Correspondent member of the Belgian Royal Overseas Academy of Sciences.
Montpellier

André Huyghebaert

PhD, former Head of the Department of Food Technology and Nutrition, former Dean of the Faculty of Agriculture, University of Ghent.
Ghent

Annamarie Kruger

PhD, Research Co-ordinator AUTHeR. Faculty of Health Sciences, North West University of Potchefstroom (South Africa).
Potchefstroom

Pierre Lefèvre

PhD, sociologist, scientific collaborator, Epidemiology and Disease Control Unit, Department of Public Health, Institute of Tropical Medicine.

Antwerp

Richard Longhurst

PhD in Economics, consulting expert with the World Health Organisation, UNICEF and FAO, formerly senior civil servant of the Commonwealth, now evaluation consultant.

London

Dr. Peter Mamiro

PhD, Food Scientist and Nutritionist, Researcher in the Department of Food Science and Nutrition, Sokoine University of Agriculture, Morogoro, Tanzania.

Ruth Oniang'o

PhD, nutritionist, Professor at the Jomo Kenyatta University of Agriculture and Technology, Editor-in-Chief of the African Journal of Food, Agriculture, Nutrition and Development (AJFAND), Member of the Kenyan Parliament.

Nairobi

Leonor Pacheco Santos

PhD, nutritionist, formerly Professor at the Federal University of Bahia, Member of IVACG (International Vitamin A Consultative Group), now with the Federal Ministry of Social Development and Fight against Hunger.

Brasilia

Wim Van Lerberghe

MD, PhD, Professor and formerly Head of the Department of Public Health, Institute of Tropical Medicine, Antwerp; coordinator, health systems policies and operations, World Health Organisation.

Geneva

External referees

Lieven Huybregts (Belgium)

Dr. Mekite Wondefrash (Ethiopia)