CONTRIBUTION OF LIVESTOCK
AND LIVESTOCK PRODUCTS
TO FOOD SECURITY AND NUTRITION

FRIDAY JUNE 26TH

FRENCH PAVILION
EXPO MILANO 2015
13:30 – 18:00

A JOINT INITIATIVE OF THE FRENCH GOVERNMENT AND FAO
Dear guests,

Livestock and animal-source food can help meet the challenge of the fight against hunger and malnutrition. They are an important part of income and diet of many people around the world.

On behalf of FAO and the French Government, we are delighted to welcome you on the French pavilion today for a special event dedicated to:

**The contribution of livestock and livestock products to food security and nutrition**

While the Expo Milano 2015, with its core theme “Feeding the Planet, Energy for Life” provides an ideal platform to reflect upon the global food security and nutrition challenges of our world, this event will focus on the role and importance of livestock and livestock products to food security and nutrition. Our main objective is to exchange views and inform on the value of animal source food - from reducing malnutrition to gastronomy - but also on the economic, social and cultural value of livestock in a rapidly changing world.

Panelists and participants include key stakeholders from civil society, the private sector, research institutions, international organizations and the public sector. The discussions will be held in French and English with interpretation service available in both languages.

We sincerely hope you will find the sessions valuable and informative and we look forward for successful and fruitful discussions and exchanges of experiences among all the panelists, presenters and participants.

Yours sincerely,

Berhe G. Tekola
Director
Animal Production and Health Division
Food and Agriculture Organization of the United Nations (FAO)

Serge Tomasi
Ambassador, Permanent Representative of France to FAO
A GROWING DEMAND

An estimated 805 million people in the world suffer chronic malnutrition. Livestock provide approximately 26 percent of human global protein consumption and 13 percent of total calories.

Particularly in low – and middle – income countries, demand for livestock products is increasing. With an expected growth of the world population from 7.2 billion to 9.6 billion by 2050, and growing incomes and urbanization, the demand for animal-source food (ASF) is projected to increase. Compared to consumption levels in 2010, by 2050 demand for pork and eggs will increase by 65-70 percent; for beef, dairy products and mutton by 80-100 percent; and demand for poultry meat is projected to increase by 170 percent. There will be regional variation in these trends, with demand growth particularly strong for poultry products in South Asia (mainly driven by trends in India), for beef and dairy products in East Asia (mainly accounted for by trends in China) and strong growth for all product types across Africa (e.g. 380 percent for meat). The highest growth in total and per-capita consumption of ASF is projected to occur in low and lower middle income countries.

SIGNIFICANT NUTRITIONAL BENEFITS

ASF can provide a critical supplement and diversity to staple plant-based diets, and are particularly appropriate for combating undernutrition and a range of nutritional deficiencies. They are energy-dense and good sources of protein, vitamins and of key micronutrients. ASF can measurably enhance quality in diets, especially for young children, the elderly, and pregnant and lactating women in food insecure households.

ASF consumption is very low in undernourished populations; under these circumstances moderate increases in ASF consumption can provide critical nutritional benefits. The high nutrient density of ASF makes them attractive as a food-based intervention for populations that have difficulty consuming large volumes of food, including very young children and the sick. Micronutrients (including iron, zinc, calcium and phosphorus, vitamin A and D) also tend to be more bioavailable in ASF, and some, such as vitamin B12, are found naturally only in ASF.

In addition to the benefits of direct consumption of ASFs, the sale of animal products often also assists in complementing the food basket with other essential elements of healthy diets.

Conversely, over-consumption of food, including ASF, is also frequently indicated as contributing to food-related health risks, such as obesity and cardiovascular diseases.

A KEY CONTRIBUTION TO RURAL DEVELOPMENT AND IMPROVEMENT OF RESILIENCE

Whilst the critical target of halving extreme poverty by the end of 2015 has been met, the world still counts more than one billion people that live in extreme poverty. In many countries the gap between the rich and poor has grown, with economic opportunities restricted further by global economic crises. Within this context, livestock often becomes a last resort livelihood strategy for the most marginalized. The sector provides employment to 1.3 billion people and livelihoods to 1 billion poor, 70 percent of whom are women. Ten times more women own livestock rather than land. A growing body of evidence suggests that increasing women’s control over assets, including livestock, has positive effects on food security, child nutrition, and education, as well as women’s wellbeing.

Livestock also provides other important products and services such as asset savings, traction, manure for fuel and fertilizers, and leather and fiber.

Moreover, in all countries around the globe, Animal Source Food is part of the culinary culture. France would not be France without its many cheeses. Livestock itself is part of people’s life and culture in many places around the world from the Swiss Alps to the suburbs of Mumbai. This cultural dimension of livestock adds to the quality of life of many of us.
AGENDA
FRIDAY JUNE 26TH

Berhe G. Tekola, Director, Animal Production and Health Division, FAO
Frédéric Denhez, Moderator

Key findings and conclusions of the “Sustainable Livestock and Climate Smart Agriculture: Joint Action for Common Challenges?” workshop of June 25th.
Shirley Tarawali, Assistant Director General, International Livestock Research Institute (ILRI)

13:45 – 14:30  Importance of livestock and livestock products – Three perspectives:
• Importance of pastoral economies
  Saverio Kratli, Editor, Nomadic Peoples, IUAES Commission on Nomadic Peoples
• Nutritional value of livestock products
  Boitshepo Giyose, Senior Nutrition Officer - Policy and Programmes, FAO
• Livestock at the foundation of European civilisation’s unity and diversity
  Frédéric Saumade, Professor of social anthropology, University of Aix-Marseille

14:30 – 15:25  Roundtable discussion: Livestock products – from quality nutrition to quality of life
On the value of animal source food, from reducing malnutrition to gastronomy
Boitshepo Giyose, Senior Nutrition Officer, Policy and Programmes, FAO
Anne Roulin, Vice-President, Nutrition, Health & Wellness & Sustainability, Nestlé
Piero Sardo, President, Slow Food Foundation for Biodiversity
Pierre Weill, President, Association Bleu-Blanc-Coeur

15:25 – 16:20  Roundtable discussion: Livestock and livestock products – a factor of economic and social growth and cohesion
On the economic and social value of livestock in both developed and developing countries
Philippe Ankers, Chief, Livestock Production Systems Branch, FAO
Nico van Belzen, Director General, International Dairy Federation
Emmanuel Coste, Organic Suckler Cows and Sheep Breeder, Chairman of Interbev’s International Challenges Working Group
Arona Diaw, Director, Local Dairy Sourcing Development Manager, La Laiterie du Berger (Senegal)

16:20 – 16:30  Wrap up and Conclusions
Catherine Geslain-Lanéelle, Executive Director, French Ministry of Agriculture, Agrifood and Forestry
Frédéric Denhez, Moderator

16:30 – 17:00  Tour of the French Pavilion

17:00 – 18:00  Cocktail
**PHILIPPE ANKERS**

*Chief, Livestock Production Systems Branch  
Food and Agriculture Organization of the United Nations (FAO)*

Philippe Ankers joined the Food and Agriculture Organization of the United Nations in 2008 as Animal Production Officer, contributing to the development and implementation of programmes for preparedness, response and prevention of pandemics. Since 2011, Philippe is Chief of the Livestock Production Systems Branch (AGAS) of FAO. The Branch serves as the global reference unit within FAO for knowledge and expertise on Animal Husbandry and Animal Production Systems.

Formerly the Executive Director of the International NGO “Vétérinaires Sans Frontières-Switzerland”, he has over 20 years of professional experience in the preparation, implementation and evaluation of livestock programmes in West Africa, East Africa, Asia, the Caribbean and the Caucasus.

Philippe worked as a rural veterinarian in Switzerland before opting for a career in Development Cooperation.

He holds Bachelor and Doctoral degrees in Veterinary Medicine from the University of Bern and a Post Graduate Diploma in Development and Environment from the University of London.

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**NICO VAN BELZEN**

*Director General  
International Dairy Federation*

Since May 2012, Dr. Nico van Belzen is Director General of the International Dairy Federation, which represents the dairy sector worldwide, especially towards intergovernmental organisations. From 2003-2012, he was the Executive Director of the European branch of the International Life Sciences Institute (ILSI Europe), which facilitates scientific cooperation on food safety and nutrition between government, academia and industry. He represented ILSI Europe, and sometimes ILSI worldwide, towards EFSA, EC, FAO, WHO etc.

From 1998-2003, he held R&D management positions at DMV International, the business-to-business division of Campina, where he established a new laboratory to study the efficacy of bioactive ingredients and was involved in product development, biochemical and physical analyses of food ingredients and pharmaceutical excipients and marketing support. From 1994-1998 he was research group leader at the department Hematology, Erasmus University Rotterdam (NL), using rearranged immunoglobulin genes as markers for B-cell non-Hodgkin’s lymphoma.

At the same university, from 1990-1994 he was research group leader at the department Pathology where he cloned cancer-related genes, e.g. Drg1/NDRG1 that is now used in cancer diagnostics. He received a PhD in cell biology from the University Utrecht (NL) in 1990.
EMMANNUEL COSTE
Organic Suckler Cows and Sheep Breeder
Chairman of Interbev’s International Challenges Working Group

Emmanuel Coste is currently breeder in Haute Loire on an organic farm producing cattle and sheep for meat.

After many years with responsibilities in the meat industry, Emmanuel Coste currently represents sheep and goat farmers in Europe (Copa-Cogeca) and the sheep sector at international level at the International Meat Secretariat. He was elected President of the sheep sector at the International Meat Secretariat in 2014.

Emmanuel Coste was elected at the National Ovine Federation in 1986. He was elected Secretary General and then Vice President until recent years. In 1992, he was elected President of Interbev Sheep, an inter-branch organisation gathering breeders involved in all aspects of the cattle industry including animal merchandising, slaughtering, cutting and distribution of sheep meat to butchers or supermarkets.

Finally, with other officials, Mr. Coste created Ovimiades in France, true races of young future shepherds using modern means of breeding.

Emmanuel Coste is a graduate of agricultural engineering school ISARA in Lyon (France) and worked as a consultant in Algeria.

FRÉDERIC DENHEZ
Moderator

After postgraduate studies in fundamental and applied ecology, Frédéric Denhez became environmental engineer. However, he never practiced, preferring to write. For ten years, he has been working for Geo and National Geographic magazines (France) on major environmental investigations, for example trafficking in ivory, bush meat, the price of vegetables, Diesel ... and many underwater subjects. Upset historian, he is also passionate - under and above the water - for the eruption of Mount Pelee, on May 8, 1902, one of the biggest disasters in history.

Frédéric Denhez is also the author of fifteen books of essays and surveys on global warming, invisible pollutants, overfishing, car as the main mode of transport, or what he calls the “dictatorship of the carbon indicator”. He works a lot on agriculture, particularly through his last essay that deals with soils (“Let’s stop ruining our soil” ed. Flammarion).

Speaker and discussion leader, Frédéric loves to talk. Very present in the media, he is a columnist in the TV show “CO2 mon amour” on France Inter.
**ARONA DIAW**  
*Director, Local Dairy Sourcing Development  
La Laiterie du Berger (Senegal)*

Arona Diaw as young Veterinarian, promoted a small private business at 1995 (veterinarian clinic and pharmacy). At 1997, Arona diversified earlier his business in a small dairy company and as consultant for NGO and development projects.

At 2008, Arona worked for full time as dairy manager in value chains development projects funded by USAID, in GRET-NGO as project manager for implementing a Livestock Services Center in North of Senegal.

At 2012, Arona joined La Laiterie du Berger, a growing dairy business, and worked to develop local and sustainable dairy supply chain with more than 800 small producers and few small modern farmers.

**CATHERINE GESLAIN-LANEELLE**  
*Executive Director  
French Ministry of Agriculture, Agrifood and Forestry*

Ms. Geslain Lanéelle is a graduate of the Institut National Agronomique Paris-Grignon and the National School of Rural Engineering of Waters and Forests. On 1 September 2013, she took the lead of the General Directorate of agricultural and food policies and territories of the French Ministry of Agriculture, Food and Forestry (MAAF), that became, under her leadership, the Directorate General for MAAF’s economic and environmental performance of companies since 1 May 2015.

She previously held, the function of Executive Director of the European Food Safety Authority since July 2006. From April 2003 to June 2006, she was regional and interdepartmental director of Agriculture and Forests of Île de France, after having been Director General of Food at the Ministry of Agriculture and Fishing from August 2000 to February 2003.
BOITSHEPO GIYOSE

Senior Nutrition Officer, Policy and Programmes
Food and Agriculture Organization of the United Nations (FAO)

Boitshepo Bibi Giyose recently joined FAO (May 2014) as the Senior Nutrition Officer for Policy and Programmes in the Nutrition Division, Economic and Social Department in Rome HQ. Her main focus is on integrating nutrition at policy and programme level into agriculture and other development agendas.

Before joining FAO, she worked for the New Partnership for Africa’s Development (NEPAD) Planning and Coordinating Agency where she was Senior Advisor for Food and Nutrition Security for 9 years. Prior to NEPAD she worked for the UNDP/UNAIDS as a regional project coordinator for HIV and Nutrition, and the Commonwealth Regional Health Community Secretariat for East, Central and Southern Africa (CRHCS-ECSA) as Regional Food and Nutrition Programme Coordinator. She has also served in the Government of Botswana and the private sector in various capacities, and as a consultant for numerous organizations.

Ms. Giyose was awarded a “Distinguished Alumna Award” in recognition of exceptional professional achievement by Appalachian State University in North Carolina, USA in April 2007. She holds a MS in International Nutrition from Cornell University, New York, and a BS in Nutrition and Dietetics from Appalachian State University, North Carolina in the USA.

SAVERIO KRAELI

Editor, Nomadic People
IUAES Commission on Nomadic Peoples

Saverio Krätli is a freelance researcher and consultant in pastoral systems. With a background in philosophy and anthropology of development, and a PhD on cattle breeding amongst pastoral Wodaabe in Niger, from the UK based Institute of Development Studies (IDS), Saverio is specialising in the interface between producers, science and policy, with a focus on pastoral production strategies.

For over fifteen years Saverio has carried out research with pastoral groups in Sudan, Niger, Uganda, Kenya, Chad, Ethiopia and Mongolia, with the Institute of Development Studies, the International Institute for Environment and Development (IIED), Tufts University and the German School of Tropical and Sub-Tropical Agriculture (DITSL). As an international consultant, Saverio has worked with pastoral associations, NGOs, government development agencies and global organisations, engaging with all levels of stakeholders.

Recent publications include Pastoralism: A critical asset for food security under global climate change (with Christian Hülsebusch, Sally Brooks and Brigitte Kaufmann), and Valuing Variability. New perspectives on climate resilient drylands development (lead author). Since 2009, Saverio is honorary editor of the peer reviewed journal Nomadic Peoples.
ANNE ROULIN

Vice-President, Nutrition, Health & Wellness & Sustainability
Nestlé

Anne Roulin is responsible for Nutrition, Health & Wellness (NHW) and Sustainability within Research and Development based at the Nestlé HQ in Switzerland, and reports to the CTO.

In this role, she works across Nestlé, R&D in over 30 centres globally to embed NHW and sustainability at the earliest phase of the product development cycle. The approach encompasses the entire value chain from agriculture through choice of ingredients, packaging, processing and distribution including the important issue of food waste. The overall objective is to develop products that are tastier, healthier and with a lower environmental impact.

Previously she was Global Head of Packaging for Nestlé and prior to Nestlé, she founded and built up a company specialised in Package Development, after spending 10 years with Tetra Pak in Switzerland, the USA & Italy. She has a Bachelor’s degree in Chemistry and a Ph.D in Materials Science.

PIERO SARDO

President
Slow Food Foundation for Biodiversity

Born in Bra in 1946, Piero Sardo has been president of the Slow Food Foundation since 2004. One of the founders of Slow Food and member of the first national steering committee for Radio Libere, he has worked as a journalist since the 1980s with a particular focus on enogastronomy, amongst others themes.

Editor of several books on cheese and traditional products (Il Buon Paese, Formaggi d’Europa, Formaggi d’Italia and Verso i Cru del Roccaverano, etc.), he was taster and writer for the Guida dell’Espresso e all’Unità and continued with many publications. He is a regular contributor to the Slowfood magazine and several daily and weekly publications.

He conceived some of Slow Food’s most important projects (Ark of Taste, Presidia, Earth Markets) and is involved in numerous Slow Food campaigns, particularly to protect raw milk cheese (Slow Cheese), introduce correct labeling for quality products (Narrative Labels), and to promote animal welfare.
FRÉDÉRIC SAUMADE

Professor of social anthropology
University of Aix-Marseille

Frédéric Saumade is professor of social anthropology at the Aix-Marseille University and member of the Institute of Mediterranean, European and comparative Ethnology (IDEMEC-CNRS).

As a specialist in bull-riding cultures of southwestern Europe and North America (Mexico, USA), he conducted numerous field investigations on bullfights, rodeos and associated farms, as well as on the celebrations and rituals that feature, in one way or another, the ox and the horse considered as fundamental animal couple of post-Neolithic Western economy and societies.

On this subject, he published numerous articles in scientific journals, five academic books (the last one resulting from a French National Research Agency program, with the collaboration of the geographer Jean-Baptiste Maudet), and two popular science articles. He also produced a video documentary.

He took part in the public debate on this subject in the media and conferences. Moreover, he also published articles and a book on alternative ideologies of modernity (fascism in particular) and more recently on the history of anthropology.

SHIRLEY TARAWALI

Assistant Director General
ILRI

Shirley Tarawali is Assistant Director General at the International Livestock Research Institute (ILRI) based in Nairobi, Kenya with responsibilities spanning strategy, planning, partnerships, communications and knowledge management. She is also secretary to the ILRI Board of Trustees.

Prior to this, Shirley was Director of the People, Livestock and the Environment Theme at the International Livestock Research Institute (ILRI), based in Addis Ababa, Ethiopia with responsibilities across sub-Saharan Africa and Asia, and including scientific coordination and leadership, as well as institutional management, decision making and representation.

Shirley holds a PhD in Plant Science from the University of London, UK.

Previously, Shirley held a joint appointment with ILRI and the International Institute of Tropical Agriculture (IITA) based in Ibadan, Nigeria. She has authored or co-authored over 50 articles in scientific journal or peer-reviewed publications and contributed in an authorship or editorial capacity to 38 books and proceedings articles. Her fields of specialization include crop livestock and pastoral systems in sub Saharan Africa and Asia.

Shirley has 30 years experience in research for development in Africa and Asia and currently serves on a number of international scientific and editorial committees.
BERHE G. TEKOLA

Director, Animal Production and Health Division
Food and Agriculture Organization of the United Nations (FAO)

Dr. Berhe G. Tekola, a national of Ethiopia, holds a DVM from the University of Camaguey, Cuba; a MVSc from l’École nationale vétérinaire de Toulouse, France and a PhD from l’Institut national polytechnique de Toulouse, France.

From 1986-1992 he served as a field veterinarian and different levels of professional assignments in different areas in Ethiopia. Dr. Tekola joined the National Veterinary Institute (NVI) of Ethiopia in 1992 as a Junior Research Officer and in 2003, he became General Manager of the Institute, a position he held until 2007.

In 2007, Dr. Tekola was appointed to the position of Director, Animal and Plant Health Regulatory Directorate within the Ministry of Agriculture and Rural Development of Ethiopia.

Since August 2011, he joined the UN-Food and Agriculture Organization of the United Nations as Director of the Animal Production and Health Division, leading the Animal Health Service (AGAH), the Animal Genetic Resources Branch (AGAG) the Livestock Production Systems Branch (AGAS) and the Livestock Information, Sector Analysis and Policy Branch (AGAL). He and his team strive to address the sustainability of the Livestock sector for the benefit of the livestock keepers (including the wildlife) finding a balance between the livestock/animal and the environment.

PIERRE WEILL

President
Association Bleu-Blanc-Cœur

Pierre Weill, a French agronomist, has been working in the breeding sector since 1970. In 1992, he created his own company “VALOREX” dedicated to a “new feeding concept” far from the dominant “corn-soy” system. This was the starting point of a nice adventure with a lot of articles in the scientific press describing experiments involving the link between animal feeding as well as the environmental effects of breeding activity.

Recognizing the strong link between forage choices – soil quality – animal and human health and life cycle assessment of balanced food chain, he created the Bleu-Blanc-Cœur, a non-profit association in 2000. Today, more than 6000 farmers and 500 companies are members of this association.

Bleu-Blanc-Cœur (healthy farming association) is active in twelve countries and is supported by the French government as well as by the United Nations.

Since 2012, Weill is also president of the “Valorial” cluster a group of 300 organizations from economic and academic world which work on “tomorrow’s food and feed”.

He also published three books on the link between nutrition and environment.
CONTACTS
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www.fao.org
www.fao.org/ag/aga.html