

# GLOBAL AGENDA OF ACTION IN SUPPORT OF SUSTAINABLE LIVESTOCK DEVELOPMENT

2-4 APRIL 2012 >> FAO HQ - ROME, ITALY



CONSULTATION ON FOCUS AREA NUMBER 1:  
**CLOSING THE EFFICIENCY GAP IN NATURAL RESOURCE USE**

# GLOBAL AGENDA OF ACTION IN SUPPORT OF SUSTAINABLE LIVESTOCK DEVELOPMENT

CONSULTATION ON FOCUS AREA NUMBER 1:  
CLOSING THE EFFICIENCY GAP IN NATURAL RESOURCE USE

2-4 APRIL 2012 >> FAO HQ - ROME, ITALY

## BACKGROUND

Growing demand for livestock products combined with dwindling natural resources is likely to increase market volatility and production costs in the long run. The livestock sector can address these challenges and, at the same time, deliver environmental benefits by improving resource use efficiency. Although the technological frontier continues to expand at the margin, the bulk of producers often apply very inefficient practices.

In the focus area *Closing the efficiency gap in natural resource use*, we argue that using available technology to close the gap, between attainable and actual efficiency rates, will bring larger environmental, economic and social gains than incremental advances at the technological frontier.

**The objective of the workshop is to clarify the following:**

- > What is the efficiency gap?
  - a. How do we define natural resource use efficiency?
  - b. How do we measure natural resource use efficiency?
- > Where are the efficiency gaps and how can they be closed?
  - a. Where are the largest efficiency gaps?
  - b. Where should we target actions and why?
  - c. What is required to narrow the gaps?
- > Institutional goals
  - a. Who and what else do we need to get on board in this focus area?
  - b. How could the Global Agenda of Action be best positioned to add value to ongoing and past activities?

## >> 2 APRIL <<

### > 09:00-10:00 Introduction:

*Opening by hosts and sponsors / introduction of participants* – Modibo Traoré, FAO

*Introduction to the development of “sustainable livestock agenda” so far, the Brasilia Consensus and the Phuket Road Map for the 3 focus areas* – Henning Steinfeld, FAO

*Objectives of the workshop* – Jeroen Dijkman, FAO

### > 10:00-10:30 Break

### > 10:30-12:20 Plenary presentations and discussion:

#### **Definitions and findings on the natural resource use efficiency gap for livestock**

Chair: Ulf Magnusson, Swedish University of Agricultural Sciences (SLU)

Presentation: *Why focus on natural resource use efficiency?* – Ben Henderson, FAO

Presentation: *Resource use efficiency in dairy farming, how to measure improvements?* – Ludwig Lauwers, Institute for Agricultural and Fisheries Research (ILVO)

Presentation: *Environmental & animal production efficiencies* – Philippe Lecomte, Agricultural Research for Development (CIRAD)

Presentation: *How to detect and quantify inefficient use of nutrients in livestock systems?* – Jaap Schröder, Wageningen University

Presentation: *Life cycle assessment* – Greg Thoma, University of Arkansas

Plenary discussion

### > 12:20-13:50 Lunch

### > 13:50-15:40 Plenary presentations and discussion: **Findings on livestock productivity gaps and trends, and their implications for natural resource use efficiency**

Chair: Ulf Magnusson, Swedish University of Agricultural Sciences (SLU)

Presentation: *Livestock productivity and the global performance gap* – Carlos Ludena, Inter-American Development Bank (IDB)

Presentation: *Livestock productivity, global land use and biomass appropriation* – Stephan Wirsenius, Chalmers University



2-4 APRIL 2012 >> FAO HQ - ROME, ITALY

Presentation: *Yield gaps and natural resource use efficiency* – Alejandro Nin Pratt, International Food Policy Research Institute (IFPRI)

Presentation: *Opportunities and limitations of by-product based feeding systems to increase efficiencies of livestock production* – Michael Blummel, International Livestock Research Institute (ILRI)

Plenary discussion

- > **15:40-16:10** Break
- > **16:10-17:40** Plenary presentations and discussion: **Natural resource use efficiency issues – private sector perspectives**  
Chair: Richard Doyle, International Dairy Federation (IDF)

Presentation: *Feed sector perspectives* – Nicholas Martin, International Feed Industry Federation, (IFIF)

Presentation: *Dairy sector perspectives* – Stanislav Jas, International Dairy Federation (IDF)

Presentation: *Beef sector perspectives* – Tamara McCann Thies, National Cattlemen's Beef Association (NCBA)

Presentation: *Pig sector perspectives* – Marc Trudelle, Fédération des producteurs de porcs du Québec (FPPQ)

Plenary discussion

- > **18:00-19:30** Reception

### >> 3 APRIL <<<

- > **09:00-09:30** Plenary presentation  
Chair: Hayden Montgomery (New Zealand Government)  
  
Presentation: **Summary of day 1 discussion:** methods, gaps and key issues that were identified; and links to Partnership on benchmarking and monitoring the environmental performance of livestock  
– Pierre Gerber, FAO
- > **09:30-11:00** Working groups: **identifying natural resource use efficiency gaps** and underlying causes by livestock commodity group  
  
WG1: Dairy  
WG2: Beef and small ruminants  
WG3: Pig and poultry
- > **11:00-11:30** Break

- > **11:30-12:30** Working groups report back to plenary on the identified efficiency gaps  
Chair: Hayden Montgomery (New Zealand Government)
- > **12:30-14:00** Lunch
- > **14:00-15:30** Working groups: **interventions/ actions to bridge the gaps** in  
a) natural resource use efficiency, where there is sufficient information on efficiency gaps; and  
b) in measuring/assessing natural resource use efficiency, where information on efficiency gaps is scarce:  
  
WG1: Dairy  
WG2: Beef and small ruminants  
WG3: Pig and poultry
- > **15:30-16:00** Break
- > **16:00-17:30** Working groups report back to plenary on interventions/actions to bridge the gaps  
Chair: Richard Doyle, International Dairy Federation (IDF)

### >> 4 APRIL <<<

- > **09:00-09:30** Plenary presentation  
Chair: Hsin Huang International Meat Secretariat (IMS)  
  
Presentation: **Tentative Action programme** – Chris Redfern, FAO
- > **09:30-11:00** Working Groups: initial Action programme and **year 1 implementation steps**  
  
WG1: Dairy  
WG2: Beef and small ruminants  
WG3: Pig and poultry
- > **11:00-11:30** Break
- > **11:30-13:00** Working groups report back to plenary  
Chair: Hsin Huang International Meat Secretariat (IMS)
- > **13:00-14:30** Lunch
- > **14:30-15:30** Plenary agrees on **Initial Action programme and year 1 implementation steps**  
Chair: Richard Doyle, International Dairy Federation (IDF)
- > **15:30-16:00** Conclusions and Workshop Closure

2-4 APRIL 2012 >> FAO HQ - ROME, ITALY

[HTTP://WWW.LIVESTOCKDIALOGUE.ORG](http://www.livestockdialogue.org)



**FURTHER INFORMATION**

Henning Steinfeld  
Chief, Livestock Information,  
Sector Analysis and Policy Branch  
Animal Production and Health Division  
Food and Agriculture Organization  
of the United Nations  
[henning.steinfeld@fao.org](mailto:henning.steinfeld@fao.org)