



GLOBAL AGENDA OF ACTION
IN SUPPORT OF SUSTAINABLE LIVESTOCK SECTOR DEVELOPMENT



Focus Area 3: Towards zero discharge

Recap and progress update

OUTLINE

- Focus area objectives
- Problem statement
- Issues and options
- Current status
- The focus area in practice - activities
 - Consult & network
 - Analyze & inform
 - Guide & pilot



FOCUS AREA OBJECTIVES

- **Reduce the environmental impacts**
 - from intensive, confined livestock production operations;
 - through improved manure management;
 - maintaining viability and contribution to food security.
- **Recovering nutrients and energy in manure:**
 - stop pollution, improve public health;
 - improve soil fertility, substitute for mineral fertilizer;
 - reduce GHG emissions and substitute fossil fuel.



PROBLEM STATEMENT

- Nutrients in manure >> synthetic N, P and K annually
- **Spatial clustering:**
 - limited opportunities for application to crops
 - direct discharge emits GHG, causes pollution, contributes to public health risks, biodiversity losses and economic losses;
- **Impacts will grow:**
 - Rapid expansion of confined livestock production
 - Concentration in geographically limited areas.



ISSUES AND OPTIONS (1)

- Technologies are widely known
- Wide variation regarding the economics of their adoption
 - among production systems, country, and policy environment;
- Strict regulation and incentive schemes successful in some countries, ineffective in many others
- Better understanding of:
 - reasons for industry agglomeration,
 - policy tools to balance and promote geographical distribution



ISSUES AND OPTIONS (2)

- Determination of consequences of environmental policies across different areas and farm structures;
- Develop effective policies for adoption new farm practices/technologies
 - without disruptive shocks in financial and technical management
- Balance livestock densities and the absorptive capacity of available land:
 - lowering adoption costs;
- Prevent 'leakage' "pollution havens"



CURRENT STATUS

- Seoul FA3 stakeholder consultation (April 2012) proposed initial set of actions for the FA programme, implemented through broad partnership activities:
 - Consult and Network;
 - Analyze and inform; and
 - Guide and pilot



THE FOCUS AREA IN PRACTICE - ACTIVITIES

CONSULT AND NETWORK

- Further consensus building through networking and information sharing activities;
- Collect and collate existing information;
- Knowledge Management
 - ‘Gridded-manure’ maps of the world - current and projected
 - Data; searchable repositories; projects info; experiences; marketplace
 - *The Manure Management kiosk*



THE FOCUS AREA IN PRACTICE - ACTIVITIES

ANALYZE AND INFORM

- Global inventory:
 - production of NPK in manures,
 - current manure management,
 - actual use as fertilizer and associated nutrient balances;
- Model:
 - potential agronomic and environmental impacts of better use of manures as fertilizer and for energy;
 - subsequent targeting and prioritization of further analyses:
socio-economics of spatial clustering,
distribution of livestock in different priority regions
impacts of different policy and institutional frameworks;
- Crowd-sourcing:
 - potential and opportunities of data collection and validation (a livestock wiki).



THE FOCUS AREA IN PRACTICE - ACTIVITIES

GUIDE AND PILOT

- Catalyze pilot projects:
 - provide practical experiences

- Identification of pilots:
 - Participatory approach:
involve all relevant actors: government, private
 - definition of problems and opportunities;
 - development of a plan of action;
 - identification of funding and implementation strategies;
 - sourcing of knowledge bases; experiences; services; technologies
(the Manure Kiosk)



THE FOCUS AREA IN PRACTICE

