Livestock and Manure Management

20 - 24 June 2016, Panama City

Theun Vellinga (WU – NE)
Cristobal Villanueva (CATIE - CR)
Claudio Machado (UNICEN – ARG)
Manure is like money.....

Accumulated it’s a problem....

Well spread it’s a blessing........

And you need it to keep the system going..!!! So don’t waste it.!!!
Manure: more than methane emissions!

- **Source of energy**

- **Source of raw materials**

- **Complete fertiliser**
  - Organic substances
  - Primary macronutrients
  - Secondary macronutrients
  - Micro or trace elements

**CLIMATE & CLEAN AIR COALITION**
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS
CCAC project: Opportunities of Practice Change

OPC Bangladesh: policy development/training

OPC Vietnam: training

OPC Ethiopia: policy development/training

OPC Malawi: training/integrate IMM in CLIP

OPC SICA: regional policy development

OPC Argentina: promote IMM in feedlot industry

● Opportunity for Practice Change
★ Regional Centre / Central Hub
A dichotomy of the livestock sector

**Industrial, specialized**
- Commodity based
- Optimizing animals
- Primary crops, good land
- Trade-off to environment
- Global sources, markets
- High energy input
- High CO₂ profile

**Smallholder**
- Multifunctional
- Optimizing system
- Crop residues, marginal land
- Trade-off to animal
- Local sources, markets
- Low energy input
- Low CO₂ profile
The main take-home messages

- The development of an effective enabling environment for integrated manure management requires engagement of both the public (governmental and non-governmental) and private sector (industry and farmers).
- Manure management requires long term attention of all stakeholders, but it is realised with well-thought small steps.
- Good manure management is using an opportunity, not solving a problem.
Thanks for your attention!