



GLOBAL AGENDA FOR SUSTAINABLE LIVESTOCK

Livestock and Manure Management

20 - 24 June 2016, Panama City

Theun Vellinga (WU – NE)
Cristobal Villanueva (CATIE - CR)
Claudio Machado (UNICEN – ARG)



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

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.!

MSH GASL Nairobi, 2012, Theun Vellinga.



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS



GLOBAL AGENDA

Manure: more than methane emissions!

Source of energy



Complete fertiliser

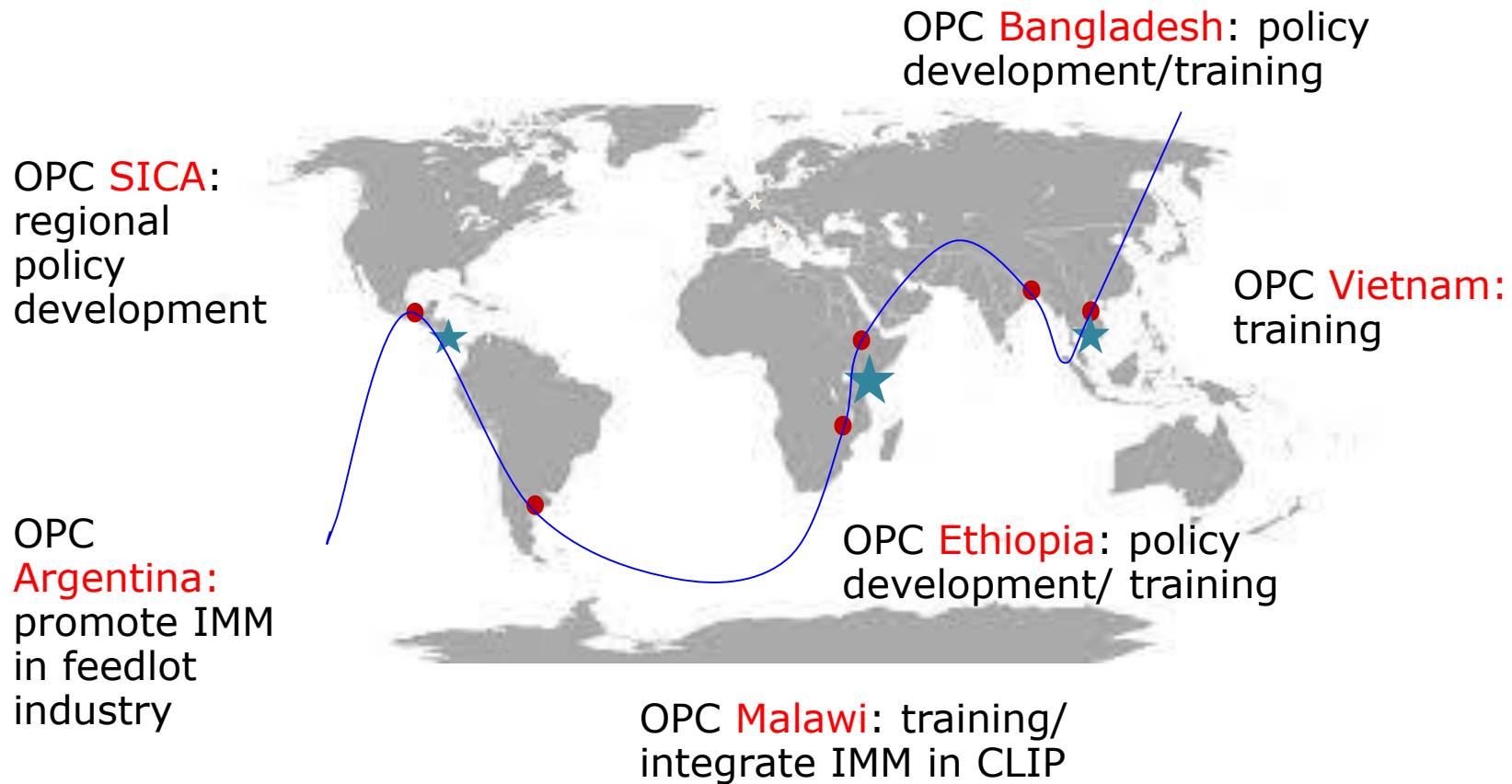


Source of raw materials



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

CCAC project: Opportunities of Practice Change



- Opportunity for Practice Change
- ★ Regional Centre / Central Hub



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS



GLOBAL AGENDA

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



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS



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!



GLOBAL AGENDA



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS