Action Area

Waste to worth

hosting the

Livestock and Manure Management Component for reducing Short-lived Climate Pollutants of the CCAC Agriculture Initiative

The Manure Knowledge Kiosk

a CCAC funded project

Eddy Teenstra, Manager Manure Knowledge Kiosk
Objective: Catalyze multi-stakeholder dialogue into local practice change.

Addresses three major areas:

1. food security and global health;
2. equity and poverty reduction;
3. and resources and climate
Objective: Accelerate practice change and innovation in integrated manure management to reduce SLCPs and to support sustainable livestock sector development
## Short-lived Climate Pollutants

**Near term response to mitigation**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Anthropogenic Sources</th>
<th>Lifetime in Atmosphere</th>
<th>Impacts/Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Carbon (BC)</td>
<td>![Fire], ![Furnace], ![Industry]</td>
<td>Days</td>
<td>![Local], ![Regional], ![Global]</td>
</tr>
<tr>
<td>Methane ((\text{CH}_4))</td>
<td>![Sheep], ![Plants], ![Industry], ![Trash]</td>
<td>12 years</td>
<td>![Local]</td>
</tr>
<tr>
<td>Tropospheric Ozone ((\text{O}_3))</td>
<td>![Industry], ![Car], ![Boots], ![Grass]</td>
<td>Weeks</td>
<td>![Local], ![Regional], ![Global]</td>
</tr>
<tr>
<td>Hydrofluorocarbons (HFCs)</td>
<td>![Refrigerator], ![Dehumidifier], ![Chemical]</td>
<td>15 years (Weighted by usage)</td>
<td>![Global]</td>
</tr>
</tbody>
</table>
Objective: Accelerate **practice change and innovation** in **integrated manure management** to **reduce SLCPs** and to **support sustainable livestock sector development**

Tool: **Manure Knowledge Kiosk**

Offer: **Extensive support and technical services** (not exclusively CCAC)
practice change

integrated manure management

reduce SLCPs (methane)
Agriculture Initiative

Livestock and Manure Management component

Three Action Areas (currently)

1. Closing the Efficiency Gap
2. Restoring Value to Grasslands
3. Waste to Worth

Improved Manure Management

Manure Knowledge Kiosk (MKK)
Today...

Action Area
Waste to worth
Manure Knowledge Kiosk
“Tomorrow”…

other actions

Manure
Knowledge
Kiosk
LMMC implementers

- Wageningen UR Livestock Research
- U.N. Food and Agriculture Organization (FAO)
- Centro Agronómico Tropical de Investigación y Enseñanza (CATIE) (Tropical Agricultural Research and Higher Education Center)
- Stockholm Environment Institute (SEI)
- International Livestock Research Institute (ILRI)
Integrate manure management practices into livestock systems...

by managing and removing barriers to action...

with a view toward enhancing food security and sustainable development

Subject matter knowledge

Global assessm. & OPCs 

Precondition for overall goal

# Opportunities for Practice Change
Great diversity; no single solution

- Taking into account local circumstances
  - Climate, scale, tradition, agricultural practices etc.
  - Increase efficiency / reduce emissions
Integrated Manure Management

- Collection
- Treatment
- Storage
- Application

- Composting
- Drying
- Separating
- Anaerobic Digestion
- ...

CLIMATE AND CLEAN AIR COALITION
TO REDUCE SHORT-LIVED CLIMATE POLLUTANTS
Manure Knowledge Kiosk

Web-based Knowledge Counter

☞ one Front Door to:

- Subject library
- Global overview of lessons learned
- Entry to Livestock GEO wiki (Google Earth mapping)
- E-market for service and assistance (Roster of Experts)
- List of Opportunities for Practice Change

www.manurekiosk.org
Excretion
• Animal nutrition
• Enteric fermentation

Manure Management
• Collection – Storage – Treatment
• Products & Application/use

Fertilization
• Organic matter & Nutrients
• Crop requirements
Thank you for your attention

more information in the presentation space, 
session D, 6:30 pm today

www.livestockdialogue.org