Investors’ Forum

Entrepreneurial Conservation Agriculture Services Provision to Medium and Smallholder Farmers Program

“Huduma kwa Mkulima 25”
What does it mean to have 1 million farmers in Kenya practicing Conservation Agriculture?

- Easy doubling of cereal yields (1.5 to 3 tonnes per hectare); thus an increase of one million tonnes annually worth 22 billion Kshs.

- Significant improvement in mother and child nutrition. Inter-cropped and relayed legumes (lablab, beans, peas, soya beans) and oil seeds (sunflower, simsim, canola, etc.) are rich in proteins and essential nutrients.

- Surplus cereals, legumes and seed cake form the basic ingredients for expansion of women controlled small-stock (poultry, dairy goats, aquaculture, etc.) livestock feeds industry and other income generating enterprises.

- An open but organised market of crop production inputs and services for one million medium and smallholder farmers and service providers:
  - Decent rural employment for at least 16,000 farmers as CA mechanisation service providers (contractors); agro-dealers and processors
  - Weather related crop insurance premium of 5 billion Kshs annually (5,000 per ha)
  - Financing for production inputs (37,500 Ksh per hectare) i.e. 37.5 billion Kshs annually

- Climate smart farming. Not ploughing saves 8 lts of diesel per hectare, i.e. a saving 4 million lts of diesels for 50% of the 1 million farmers using tractors and equivalent to 400 million Kshs annually. At 2.9 kg of greenhouse gas (GHG) emissions per lt of diesel, 11,600 tonnes of GHG are saved annually.

- Kshs: 175 billion worth of Conservation Agriculture equipment market is an opportunity for locally adapted designs, manufacturing, importation and distribution.

The Huduma kwa Mkulima 25 Consortium invites innovative business minds of interested private sector players into the partnership to transform smallholder and medium farming in Kenya – forever.
Huduma Kwa Mkulima 25

Huduma Kwa Mkulima 25 consortium is led by African Conservation Tillage Network (ACT), in partnership with the Government of Kenya (Ministry of Agriculture, Livestock and Fisheries) and CAADP.

Aims of Huduma Kwa Mkulima 25

1. Contribute to half poverty and eliminate hunger in Kenya by 2025.
2. Have 1 million farm households adapt CA by 2025.
3. Rooted on agribusiness based PPP.
4. Farmers to provide entrepreneurial mechanised CA services to farmers.

Key Interventions

The Huduma Kwa Mkulima 25 programme will provide services to farmers using climate smart agriculture technologies, and innovative agribusiness models along the value chain under the following objectives:

- Increased public awareness of CA
- Packaging and adoption of CA packages for various farming systems
- Increased access to inputs and services offered commercially by key CA actors
- Mainstreamed CA in training institutions and service provision levels
- Provision of research and development driven technologies to farmers and service providers

The programme intends to cover 25 Counties in Kenya in the next 5 years and deepen services in the same Counties in a 5-year phase II of the programme.
### Projected CA Mechanization Machinery Requirements for Kenya by 2025

<table>
<thead>
<tr>
<th>Item</th>
<th>2015</th>
<th>2020</th>
<th>2025</th>
<th>Unit Cost</th>
<th>Total cost by 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jab planters</td>
<td>25%</td>
<td>20%</td>
<td>15%</td>
<td>25,000</td>
<td>7,500,000</td>
</tr>
<tr>
<td>Knapsack sprayers</td>
<td>20%</td>
<td>40%</td>
<td>60%</td>
<td>20,000</td>
<td>60,000,000</td>
</tr>
<tr>
<td>Animal-drawn Rippers</td>
<td>40%</td>
<td>30%</td>
<td>10%</td>
<td>40,000</td>
<td>20,000,000</td>
</tr>
<tr>
<td>Animal drawn no-till planter</td>
<td>10%</td>
<td>20%</td>
<td>25%</td>
<td>10,000</td>
<td>187,500,000</td>
</tr>
<tr>
<td>Animal drawn knife rollers</td>
<td>1%</td>
<td>3%</td>
<td>10%</td>
<td>1,000</td>
<td>20,000,000</td>
</tr>
<tr>
<td>Single axle tractor no-till seeders</td>
<td>5%</td>
<td>10%</td>
<td>15%</td>
<td>5,000</td>
<td>225,000,000</td>
</tr>
<tr>
<td>Tractor drawn no-till planter</td>
<td>3%</td>
<td>5%</td>
<td>8%</td>
<td>2,500</td>
<td>1,312,500,000</td>
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<tr>
<td>Tractor sprayers</td>
<td>3%</td>
<td>5%</td>
<td>2%</td>
<td>3,000</td>
<td>300,000,000</td>
</tr>
<tr>
<td>Tractor drawn subsoiler</td>
<td>1%</td>
<td>3%</td>
<td>5%</td>
<td>1,000</td>
<td>200,000,000</td>
</tr>
</tbody>
</table>

**Total cost by 2025:** $2,332,500,000