HKI’S ORANGE FLESHED SWEET POTATO DELIVERY IN AFRICA

Mette Kinoti, Vice President Africa region
6th Annual Sweet Potato for Profit and Health Initiative Technical meeting, Kigali, 30 September, 2015
• Introducing Helen Keller International
• Enhanced Homestead Food Production (EHFP) and OFSP
• CHANGE – an example
• Lessons learned
**Mission:**
Helen Keller International is dedicated to saving the sight and lives of the most vulnerable and disadvantaged - combat the causes and consequences of blindness and malnutrition by establishing programs based on evidence and research in vision, health and nutrition

“Alone we can do so little; together we can do so much.”

Helen Keller
**Enhanced homestead food production approach**

**Developed by HKI and partners in Asia and Africa**

**Ultimate goal:** Improve the nutritional status of children under 5 years of age, women in their reproductive age, breastfeeding and pregnant women

**Agriculture *for nutrition***

- Focus on women & children, women primary beneficiaries, gender mainstreaming
- Diverse and nutritious crop production
- Animal production
- Essential Nutrition Actions and Essential Hygiene Actions framework
# OFSP and other micronutrient-rich foods

<table>
<thead>
<tr>
<th>Foods</th>
<th>Calories (kcal)</th>
<th>Vit A (RAE)</th>
<th>Vit C (mg)</th>
<th>Folate (μg)</th>
<th>Iron (mg)</th>
<th>Zinc (mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rice</td>
<td>365</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>0.8</td>
<td>1.09</td>
</tr>
<tr>
<td>OFSP</td>
<td>378</td>
<td>709</td>
<td>19.6</td>
<td>6</td>
<td>0.69</td>
<td>0.32</td>
</tr>
<tr>
<td>Liver (chicken)</td>
<td>119</td>
<td>4968</td>
<td>17.9</td>
<td>588</td>
<td>8.99</td>
<td>2.67</td>
</tr>
<tr>
<td>Spinach</td>
<td>23</td>
<td>469</td>
<td>28.1</td>
<td>194</td>
<td>2.71</td>
<td>0.53</td>
</tr>
<tr>
<td>Egg</td>
<td>143</td>
<td>540</td>
<td>0</td>
<td>47</td>
<td>1.75</td>
<td>1.29</td>
</tr>
<tr>
<td>Orange</td>
<td>49</td>
<td>12</td>
<td>48.5</td>
<td>39</td>
<td>0.09</td>
<td>0.06</td>
</tr>
<tr>
<td>Cowpea</td>
<td>336</td>
<td>50</td>
<td>1.5</td>
<td>633</td>
<td>8.27</td>
<td>3.37</td>
</tr>
<tr>
<td>RDA/AI</td>
<td>2000</td>
<td>900</td>
<td>90</td>
<td>400</td>
<td>8</td>
<td>11</td>
</tr>
</tbody>
</table>

Nutrient contents based on 100 g of food (raw), RDA/AI based on daily needs of adult male.

- **Staple with high energy content (many calories)**
- ≥20-50% RDA
- >50-80% RDA
- >80% RDA
<table>
<thead>
<tr>
<th>Country (Funding)</th>
<th>Since</th>
<th>Varieties promoted</th>
<th>Vines distributed</th>
<th>Direct beneficiaries</th>
<th>Indirect beneficiaries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burkina Faso (McKnight, USAID, DFATD, Cargill)</td>
<td>2001</td>
<td>Jewel, caromex, Tiebile etc.</td>
<td>175,314</td>
<td>4,446</td>
<td>33,922</td>
</tr>
<tr>
<td>Mozambique (Irish Aid)</td>
<td>2012</td>
<td>Delfia, Melinda, Irene, Gloria, Linda</td>
<td>163,350</td>
<td>1,320</td>
<td>22,869</td>
</tr>
<tr>
<td>Côte d’Ivoire (DFATD)</td>
<td>2014</td>
<td>Kakamega, TIB, Bela-Bela</td>
<td>450,000</td>
<td>2,876</td>
<td>21,084</td>
</tr>
<tr>
<td>Tanzania (Irish Aid, DFATD)</td>
<td>2010</td>
<td>Jewel, Kabode, Ejumula</td>
<td>141,000</td>
<td>2,569</td>
<td>18,130</td>
</tr>
<tr>
<td>Nigeria (Gov. of Nigeria)</td>
<td>2014</td>
<td>Mothers’ delight, King J</td>
<td>186,000</td>
<td>1,020</td>
<td>7,140</td>
</tr>
<tr>
<td>Senegal (DFATD)</td>
<td>2013</td>
<td>Kandee</td>
<td>820</td>
<td>130</td>
<td>1,330</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>1,116,484</strong></td>
<td><strong>12,361</strong></td>
<td><strong>104,475</strong></td>
</tr>
</tbody>
</table>
Creating Homestead Agriculture for Nutrition and Gender Equity (multi-country EHFP project)

Objectives
- Improve nutritional status of women and children under 2 years of age
- Women’s empowerment

Components
- Nutritious crop production
- Poultry production
- Gender transformative approach
- SBCC in Nutrition and WASH
- Village model farms (VMFs)

Partners
- International Food Policy Research Institute (IFPRI)
- International Center for Research on Women (ICRW)
- Ministries (Ag, Health etc.)
- NGO’s, Private sector

Countries
- Burkina Faso, Tanzania (focus nutrition research)
- Cote d’Ivoire, Senegal (focus gender research)

All promote OFSP as one of several nutritious crops
• OFSP varieties tested with CIP and INERA
• Vine production: village model farms / producers / schools
• Yield: 7-12 t/ha, ~43 kg of OFSP per beneficiary
• 11% of women consumed OFSP in last 24 hours (July 2015, 3-4 months from new harvest)
• Strong indications that SBCC is increasing consumption of OFSP and nutrient rich foods in general (WDD from 3 to 6)
• Working with national agriculture research institute related to vine production
• Evidence of OFSP spread to neighboring villages
• 42 VMFs are producing OFSP vines for re-distribution in 2015
• Productivity: 15-25 t/ha (at VMF level), >50 kg per beneficiary per year
• 22% of women consumed OFSP in the last 24 hours (July 2015, 3 months before new OFSP is harvested)
• Nurturing Connection change gender roles
Successes and lessons learnt from OFSP delivery efforts

**Successes**
- Combination of Nutrition education, testing and demonstrations encourage adoption
- SBCC facilitate adoption
- Taste much appreciated by children, sometimes less by adults

**Constraints**
- Access to land for women
- Late distribution of vines ➔ late planting ➔ low or no yield
- Livestock loves sweet potato leaves ➔ damage in many instances
- Limited documentation of adoption and spread

**Recommendations**
More focus on local awareness raising (cooking demos etc.)
Envisage irrigated vine production for early start
Improve documentation (adoption, yield, consumption, sale)
Djeure Djef, Ini tse, Barka, Asante sana

Thank you, Merci, Obrigado

“One can never consent to creep when one feels the impulse to soar.”