








Rural Development with Organic Focus

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<p><u>Crops/ fruits/ vegetables</u> Information on crop husbandry, Water and soil management, Preventive and curative pest and disease management</p> <p><u>Pests/ diseases/ weeds</u> Description, identification and management of plant pests and diseases</p> <p><u>Medicinal plants</u> Medicinal plants and their uses: Artemisia, Moringa, Neem, Ocimum kilimandscharicum, Pelargonium, Prunus africana, Sutherlandia, Tamarind</p> <p><u>Fruit and vegetable processing</u> Tomato preservation, Vegetable preserves,</p>	<p><u>Healthy food</u> Introduction, Digestive system, Fats, Proteins, Carbohydrates, Minerals, Micronutrients, Vitamins</p> <p><u>Nutrition related diseases</u> Anemia, Ariboflavinosis, Beriberi, Constipation, Diabetes, Goiter, Gout, High Cholesterol, Hypertension, Indigestion, Osteoporosis, Pellagra, Peptic Ulcer Disease, Rickets/Osteomalacia, Vitamin A deficiency</p> <p><u>Insect transmitted diseases</u> Malaria: integrated and preventive control (water management, bed-nets, medical treatment)</p> <p><u>Zoonotic diseases</u> What are zoonoses,</p>	<p><u>Animal husbandry and welfare</u> Animal husbandry introduction, Animal welfare and organic certification norms for cattle, goats, chicken, pigs and sheep, Animal nutrition and feed rations, Record keeping</p> <p><u>Livestock species and commercial insects</u> Information on husbandry and management by categories of domestic animals (Chicken, Camels, Cattle, Cattle breeds, Donkeys, Fish, Geese, Goats, Pigs, Rabbits, Sheep) as well as information on Beekeeping and Sericulture</p> <p><u>Livestock health and diseases</u></p>	<p><u>Agro-ecological zones</u> FAO System, Kenya System</p> <p><u>Water management</u> Water cycle and rain, Rainwater harvesting, Shallow ground water, Water for domestic use, Water for irrigation, Community management of water sources, Water storage, Surveys, Designs and permits for water projects, Construction of water projects, Seeking funds, Water as business, etc</p> <p><u>Soil management</u> Soil degradation, Soil conservations measures, How to improve soil fertility, Kenyan Soils, Soil monitoring - Know your soil</p> <p><u>Sustainable and</u></p>	<p>Website Survey We are conducting a survey to help us improve t When you have looked at the site, kindly return t == <u>click here to go to the survey</u> ==</p> <hr/> <p>April 2012 - 5th edition of infonet-bio We are pleased to announce the release of the l biovision, available online and for download. It is a great resource of scientifically and practic strengthening sustainable development of farmer Africa by allowing them to access, use and shar 4-H (Plant, Human, Animal and Environmental h</p> <p>Besides updating the content, this latest edition content in 2-H areas. Under Human Health you c Healthy Food additional sections on nutrition n and sanitation.</p>

Outreach and Information Sharing

Work with Farmer Groups
and CBOs through CIWs

Partnering with:

KARI, KEFRI, AIRC, iCow,
Grameen Foundation,
Uganda, SATTZ, EOA
partners East Africa

Open for other partnerships
as per interest

**We use multiple Outreach
methods and tools:**

1. Print media
2. Web based database
including offline CD database
3. Radio
4. Outreach through Information
Hubs and Partners including,
MoA, NGO's, CBO's
5. Mobile technologies
6. Video.



Why Organic and sustainable?

Organic Farming

- + Improves soil fertility
- + Improves health of families
- + Sequesters carbon into the soil
- + Encourages respect for life and biodiversity
- + Preserves natural resources
- + Believes that we and our food sources are all part of the same gene pool
- + Does not pollute and can assist in combatting global warming

Chemical farming

- + Does not usually improve soil fertility
- + Brings many carcinogenic and health challenging chemicals into our food chain
- + Removes carbon from the soil
- + Disregards biodiversity issues
- + Is heavy user of fossil fuels
- + Does not connect health issues to ways of farming
- + Contributes up to 32% of global warming causes depending on reporting agency

Major Challenges in East Africa small scale farming – ref farming as a business

Water

- + Unreliable rainfall patterns
- + Reliable water supply
- + Water for irrigation
- + Irrigation equipment and technology

Organisation

- + Segregated communities – men doing most of the talking and women doing most of the work
- + Poor communication strategies
- + Lack of awareness of benefits of working in groups and associations
- + Lack of access to reliable and timely farming information

Major Challenges in East Africa small scale farming – ref farming as a business

Health and Education

- + Education of children often major concern
- + Family health and nutrition second major concern
- + Poor access to up-to-date reliable farming and market information
- + Poor awareness and access to improved technologies

Markets

- + Depend on middle men
- + No organised market structures apart from some milk value chains in places
- + Value chains not organised most places
- + No certainty about pricing structures when planning farm production

Role of Research in building Organic and Sustainable Agriculture as a business

Improve technologies

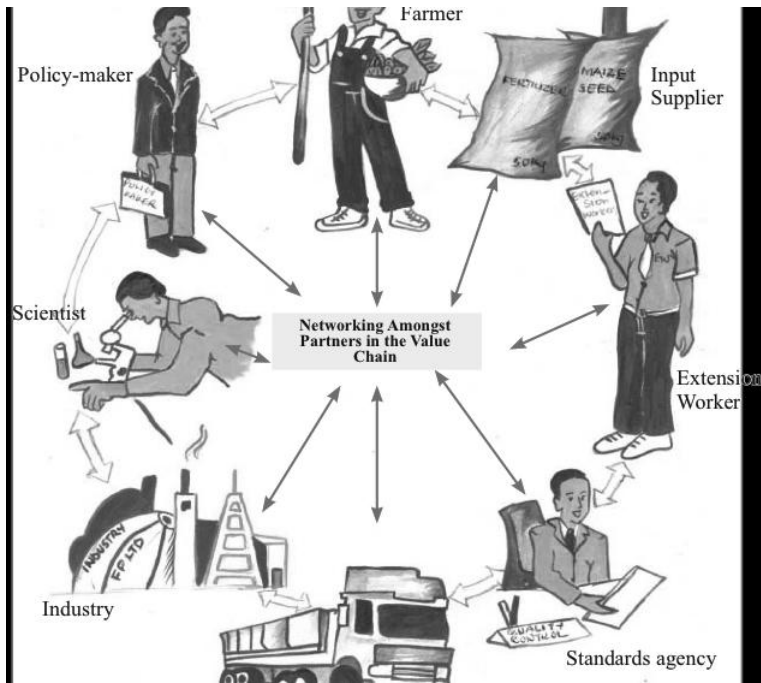
- + Plant breeding to get varieties resistant to important pest and diseases
- + Soil fertility improvement – huge improvements possible with simple management means
- + Technology improvement. Improve engineering solutions to cater for needs of small scale farmers
- + Integration of livestock and feeding regimes

Problems with scientists

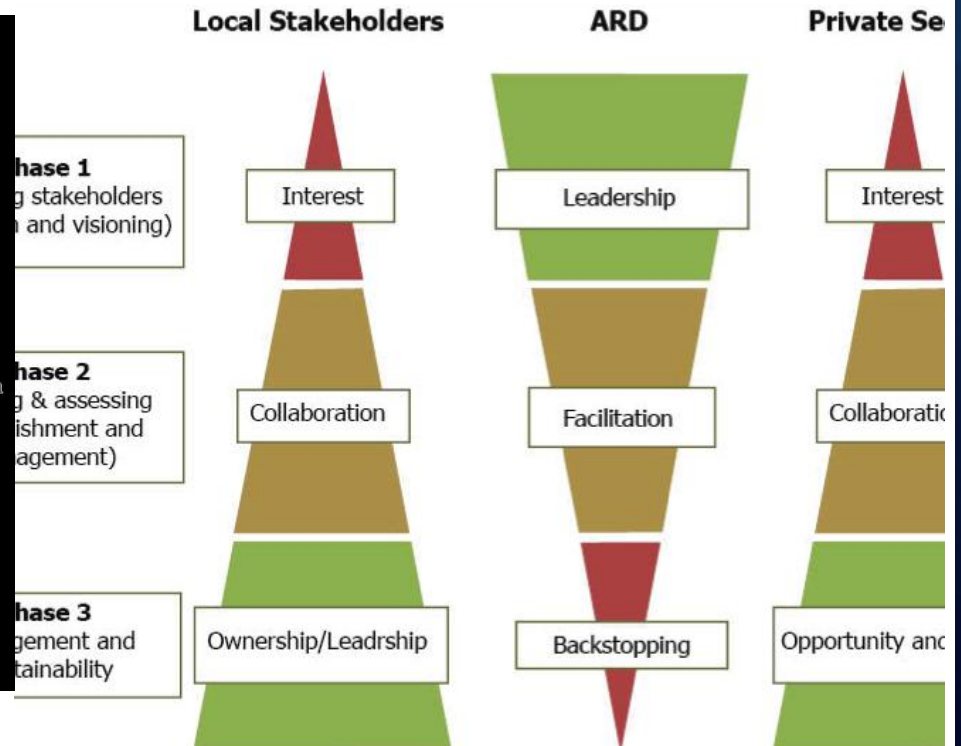
- + Ivory towerism
- + After publishing their research – it is not shared widely
- + Lack of respect for farmers
- + At times seem to reinvent the wheel over and over
- + Research could be more geared towards solving felt needs in rural areas.

Role of research and extension

Innovation platforms



Envisioned role of research



Example of experience of one organic farmer

Example

- + Mary Wnajiru Kamau from Muranga changed to organic farming 5 years ago. Since then her high blood pressure has normalised, other health challenges disappeared, so that now she is able to single handedly manage her 4 acre farm and makes much better returns than when farming conventionally.

Farmer statement: Going Organic is like returning to Eden



Biovision Vision:

An environmentally sustainable world with sufficient healthy nutrition for all, controlling climate locally and globally