Introduction to Permaculture ECHO Agriculure Conference 2015

PeaceBridge International – Burkina Faso Dr. DANIELS Kimberly "Adwoa"

Definition of Permaculture

- "Permaculture" is comprised of two concepts:
 - Permanent agriculture
 - Permanent culture

Three Permaculture Ethics:

- 1. Take care of the earth.
- 2. Take care of people.
- 3. Take care of the future OR reinvest the surplus.

(biblical)

Sustainability

The need to ensure a better quality of life for all, now, and into the future, in a just and equitable manner, while living within the limits of supporting ecosystems" (Agyeman, Bullard & Evans, 2003, p. 2)

Best accomplished within a community.

Community Development

The means by which people demonstrate self-empowerment by strengthening their ability to have control over their own lives in order to create an existence that is more fulfilling. They do this through mutual efforts with the goal of solving common problems (Maser, 1997).

Non Sustainable



5 years

20 years

50 years

Bobo-Dioulasso, Burkina Faso





5 years

20 years

50 years

Urban Farming, Johannesberg, South Africa, NZIRA John (permaculturist)

Why is John Nzira's 2 hectare land an example of sustainability, and how does his practice of permaculture help reduce and minimize poverty?

Harvesting Rain Water







Planting a diversity of species



Drip Irrigation System



Animal Management



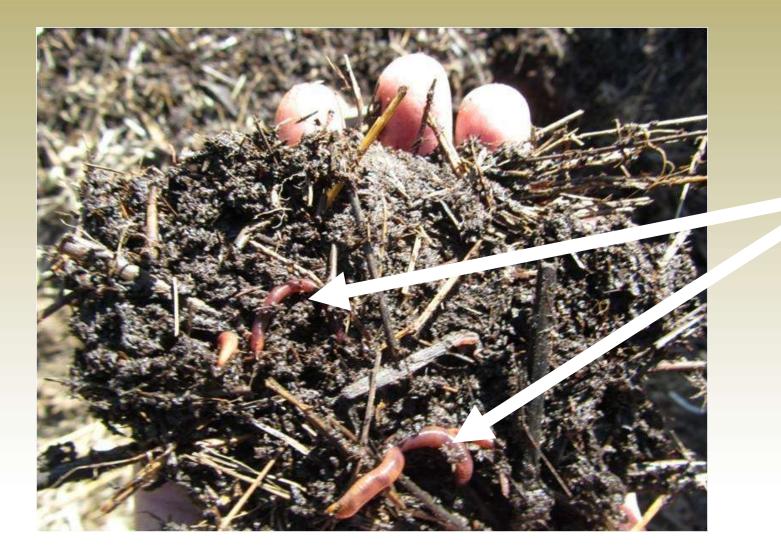
Making and Using Compost



Protecting the Soil with Mulch



Worming Farming (Vermiculture)



Healthy Soil Rich with Nutrients



Bee Keeping (Apiculture)





Plant and Tree Nursery



Garden Close to the House



Preserving Local Grains & Cereals







Using Natural Predators not Chemicals



Natural Pest & Disease Management





Recycling Food Wastes



Grey Water System







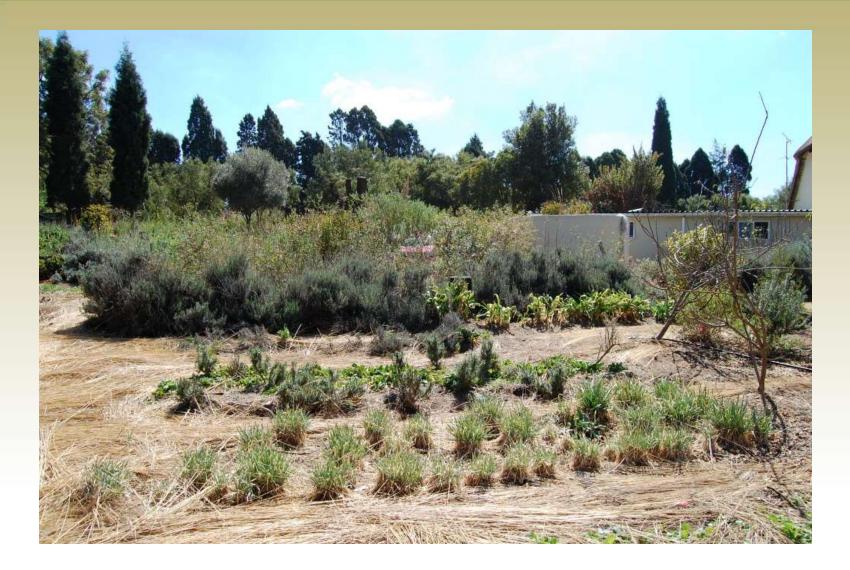


Growing Medicinal Plants





Farming During the Dry Season



Transferring Knowledge to his Children











Permaculture Principles

- Systems thinking: the whole not the parts.
- Relative location and beneficial relationships.
- Every important function is performed by a minimum of 3 system elements.
- Every element in the system performs a minimum of 3 functions.
- Using and recycling natural energy.
- Working with and not against nature.
- Diversity.
- The problem is the solution.
- Rain water harvesting!

Ghana Permaculture Institute (GPI)

- GPI Techiman, Ghana
- YEBOAH Paul
- +233-265-384-957