# Permaculture
## as concept for efficient and environmentally sound agro-forestry on small farms in
# Sierra Leone

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**To achieve subsistence, food security and food safety, a permacultural agro-forestry approach basing on the wonder-tree (*Moringa oleifera*) underutilized in Sierra Leone is currently developed.**

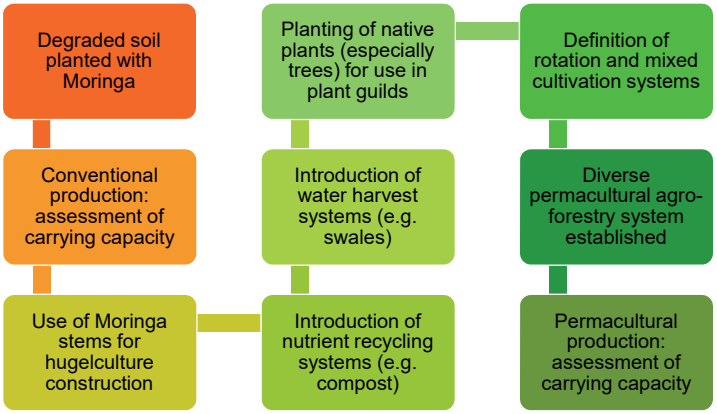
## Permaculture

- Integrates design principles reflecting whole system thinking
- Combines cultivated plants of all growth form types
- Produces as diverse products as possible (from timber, oil and fibres to vegetables, fruits and starch crops
- Is purely organic avoiding agro-chemicals
- Extracts as much as is revolved
- Circulates nutrients
- Produces no waste
- Includes water harvesting methods
- Catches and stores Energy
- Aims at regenerative, divers and self-maintained habitats
- Observes and Interacts
- Applies self regulation and accepts feedback
- Designs from pattern to details
- Integrates rather than segregates
- Use small and slow solutions
- Develops use and value diversity
- Uses edges and values the marginal
- Creatively uses and responds to change

Starting with Moringa, the growing system will integrate more and more useful plants of all growth form types:

**Agro-forestry**

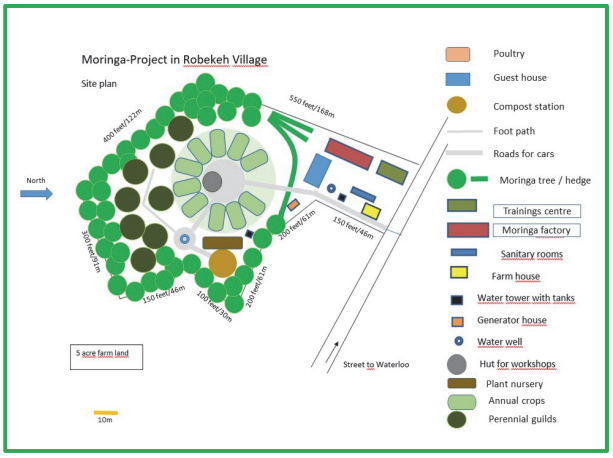
## *Moringa oleifera* starts the transformation process towards permacultural agro-forestry




## The Moringa Innovation and Start-up Centre (MOST) re-thinks agriculture as citizen science approach

- Farmers learn by doing, monitor, document and teach their community
- Own facilities for diagnosis and analyses complement the centre and allow education of farmers and students on-farm.
- The offer of a start-up consultancy service should lay the basis for small-scale entrepreneurial actions of the MOST.

All plant parts of Moringa will be used




The Moringa-project is planned as demonstration farm connected with education facilities and consultancy services. The project is NGO-driven by Loewe fuer Loewe Germany and Sierra Leone, with support by Njala University, Sierra Leone, and Julius Kühn-Institute, Germany.

## Progress

**Since 2014: Fundraising**

**2016: Foundation**

**2016-2017: Planning**

**Since 2017: Constructions**

**2019: Planting**

**2020: First harvest**

**2020: Train the trainers**

Take me home

## Permacultural agro-forestry will create food, expertness and ecological stability:

# the MOST