

BPs & worldwide emergence of AgroEcology

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Best Practices in the context of AgroEcology rising worldwide



- 1. Introducing myself
- 2. AgriProFocus Ethiopia
- 3. Why Agroecology? Because industrial practices failed
- 4. AgroEcology, a systems approach!
- 5. AgroEcology an umbrella of diverse practices
- 6. AgroEcology for/by smallholder farmers, 70%
- 7. How to support and accelerate the transition?

1. About me



Studied in Wageningen University.

 Conclusion: "You cannot design a landscape, it is being formed"

From 1977 - 1991 in different African countries.

Conclusion: participative development is the only way.

1992 - 2005 coordinating research in Wageningen UR

Conclusion: too little participative and transition management research

2005-2010 coordinating Netw. farmers'innovations.

 Conclusion: there are so many good examples, we must share Best Practices!

2011-now: book Transition to Agroecology, why and how

2. AgriProFocus - what we do



But first: what do I take home from yesterday/ today?

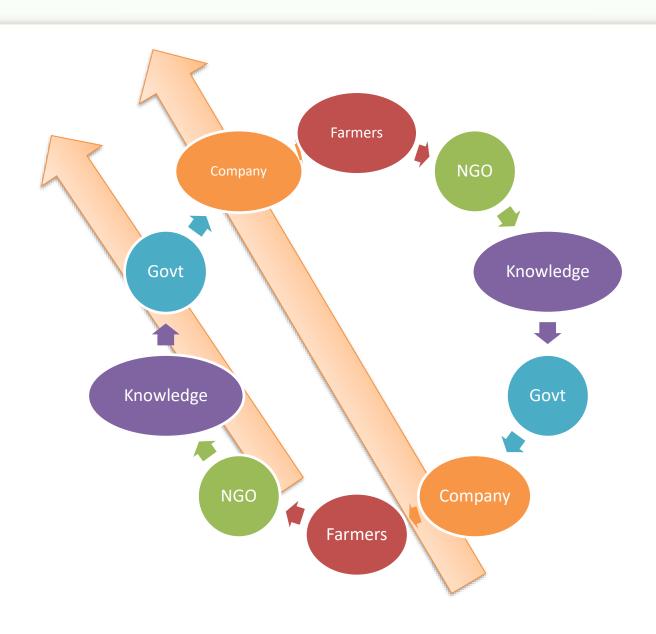
- Sharing is half of te job!
- Giving!

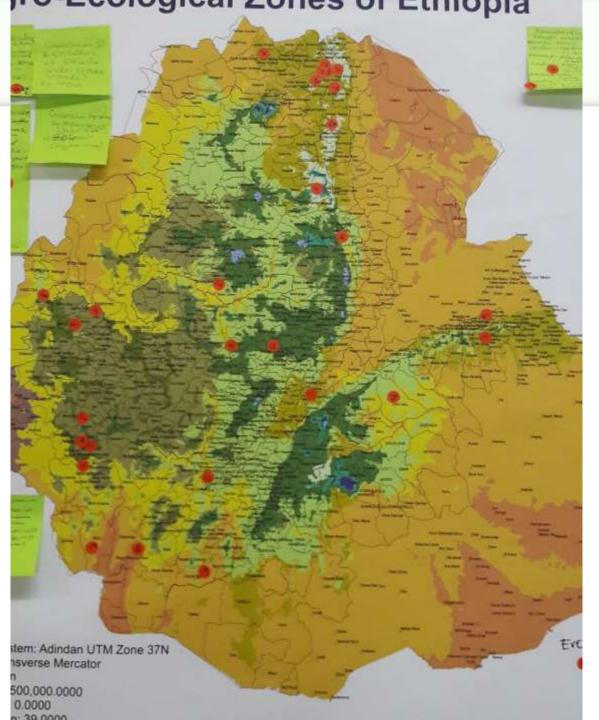
Presently working for AgriProfocus, as facilitator Linking & Learning.

- http://agriprofocus.com/ethiopia
- http://agriprofocus.com/soil-health-management
- http://agriprofocus.com/innovation-community-nutrition sensitive agriculture
- http://agriprofocus.com/ethiopia-agroecology-platform

A CoP or Platform









AE zones
map of
Ethiopia,
mapping
projects for
Evidence

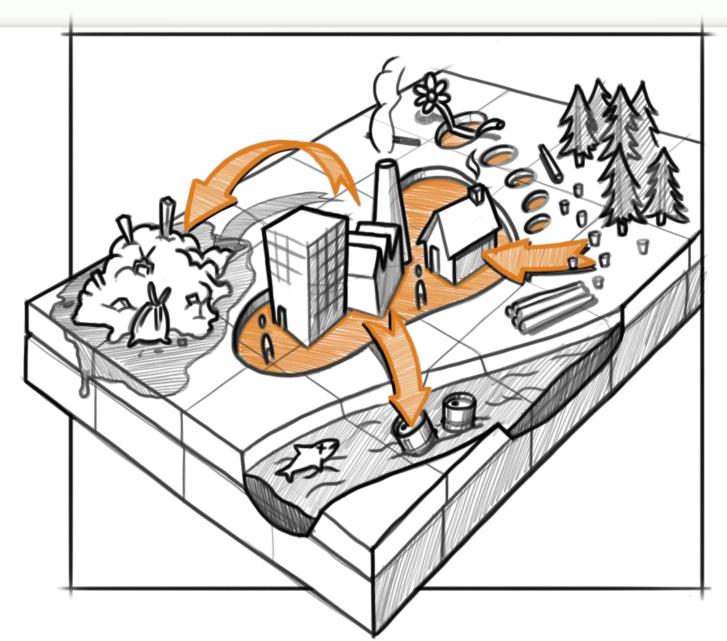
3. Why AgroEcology?



- 100 year development of industrial agriculture has not given us the results we hoped for erosion, loss of biodiversity, serious decrease of bees, pollution, malnutrition, waste, poverty
- Climate Change need for change in production methods
- Lessons learnt from organic agriculture and LEIA;
 IFOAM, Farming Matters
- Upcoming movements of farmer-based organisations; Altieri since 70s, AFSA, International Forum for Aroecology etc.

Ecological footprint



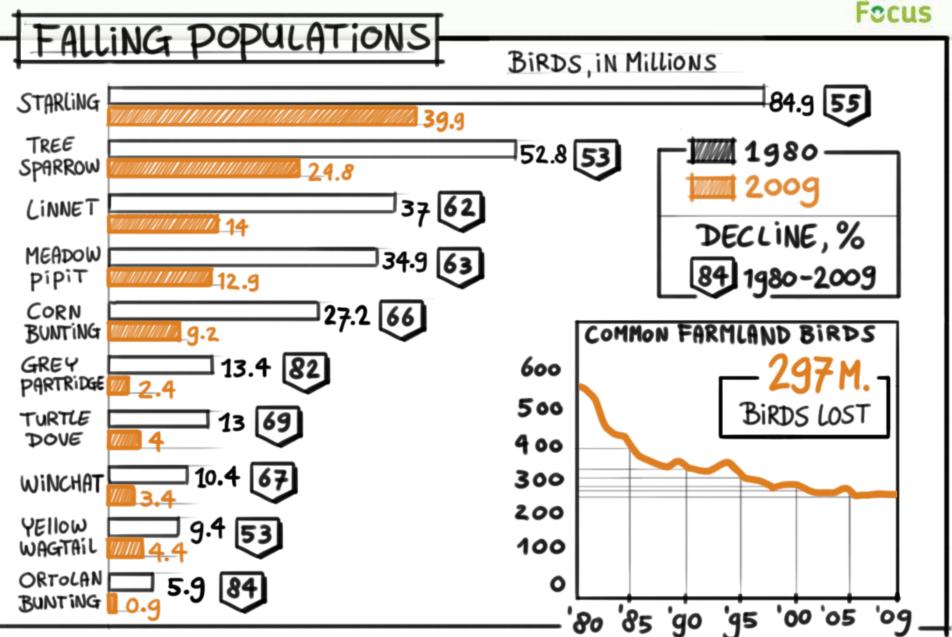




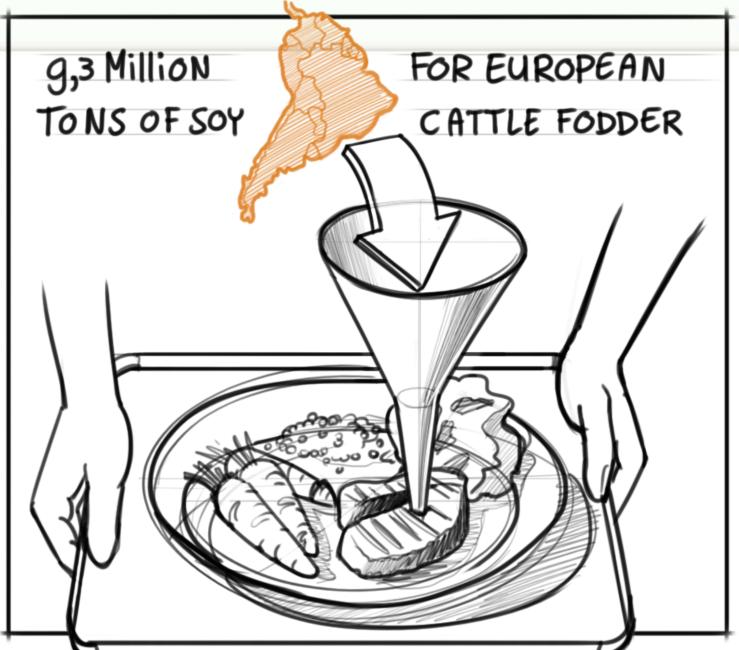
Ecological footprint



Continent		Country	(ha)
North America	9,4	United Arab Emirates	11,9
European Union	4,8	United States	9,6
Europa (outside EU)	3,8	Belgium and Luxembourg	5,6
World	2,2	Netherlands	4,4
Middle East and Central	2,2	Hungary	3,5
Latin America and Caribbean	2,0	Turkey	2,1
Asia (around the Pacific)	1,3	Brazil	2,1
Africa	1,1	Algeria	1,6
		China	1,6
Available bio-capacity	1,8	India	0,8













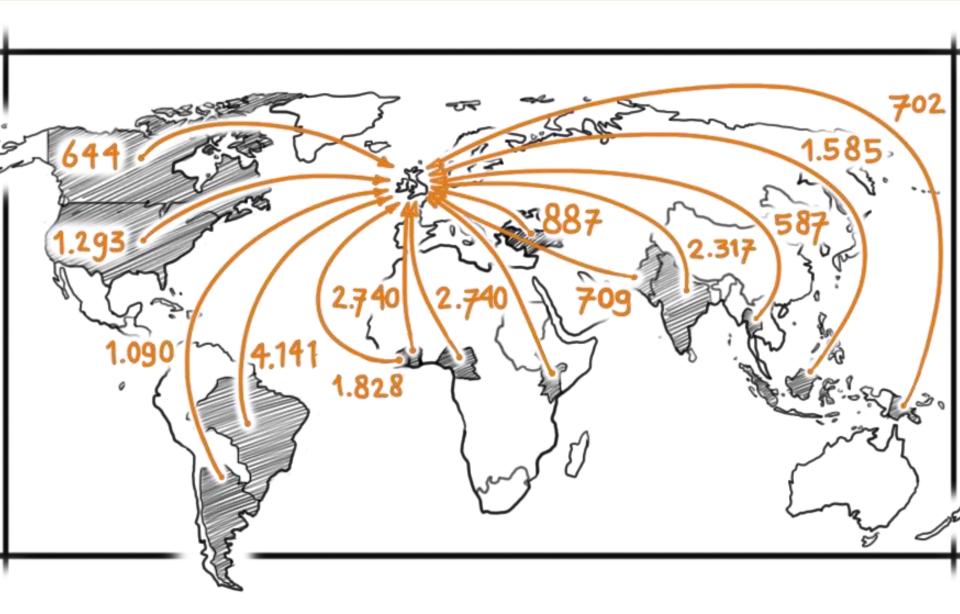






waterfootprint





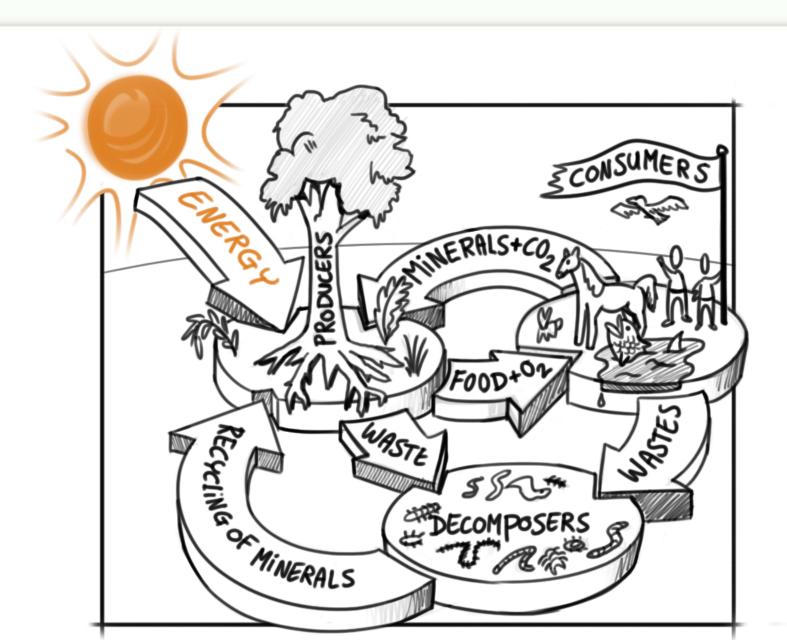


4. Agroecology as a systems approach

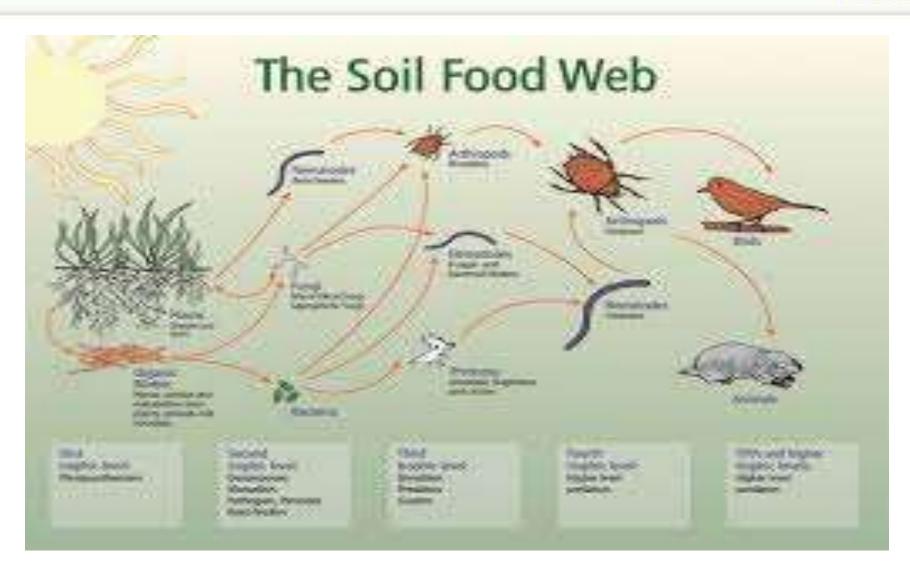
- A complex system is interactive, resilient; like a human body; windows looking into a room, elephant
- Soil health management is the base prevent erosion, build nutrients, water management
- Ways of understanding and dealing with Nature: Ruler, Steward/ Custrodian, Partner or Part-of?

4. AgroEco = a systems approach



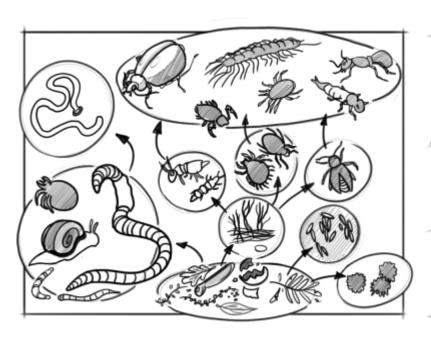


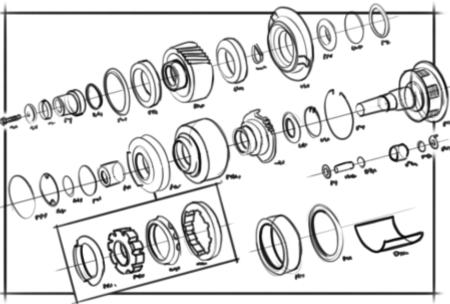




The soil as a well functioning machine







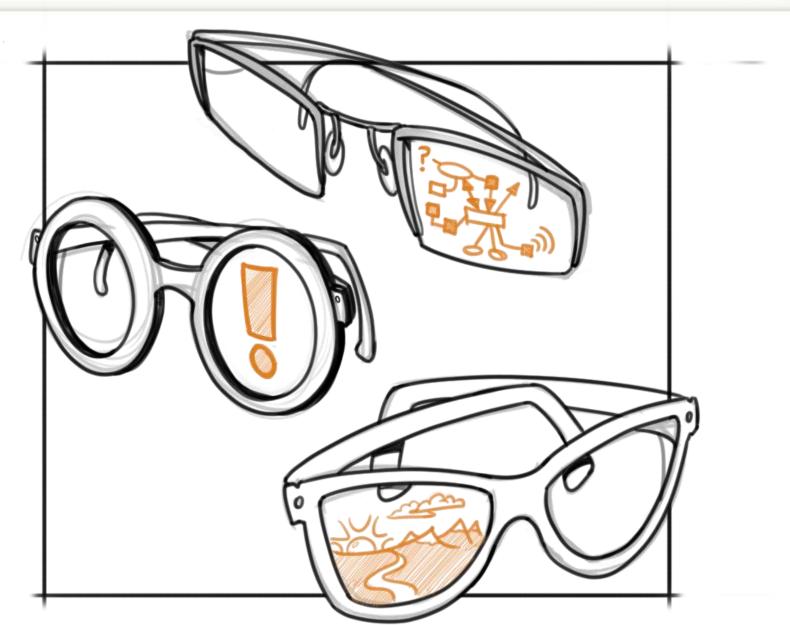
Dealing with Nature



- Top down interventions, egotistical
- Benign ruler- for the benefit of the future, we allow economic interventions, for sustainability.
- Steward/custodian
- Partner of nature- equal, respect, interactions, give and take, work with the qualities of what is available; organic agroculture, agroecology
- Humans are part of nature so <u>they adjust</u> to the system, find climate smart solutions, organic, special ploughs

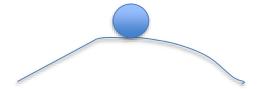
Ways of understanding





From Control to Adaptation





Focus on problem

Erase variation

Monitor& control

Fragile balance



Focus on system

Utilize variation

Self regulation

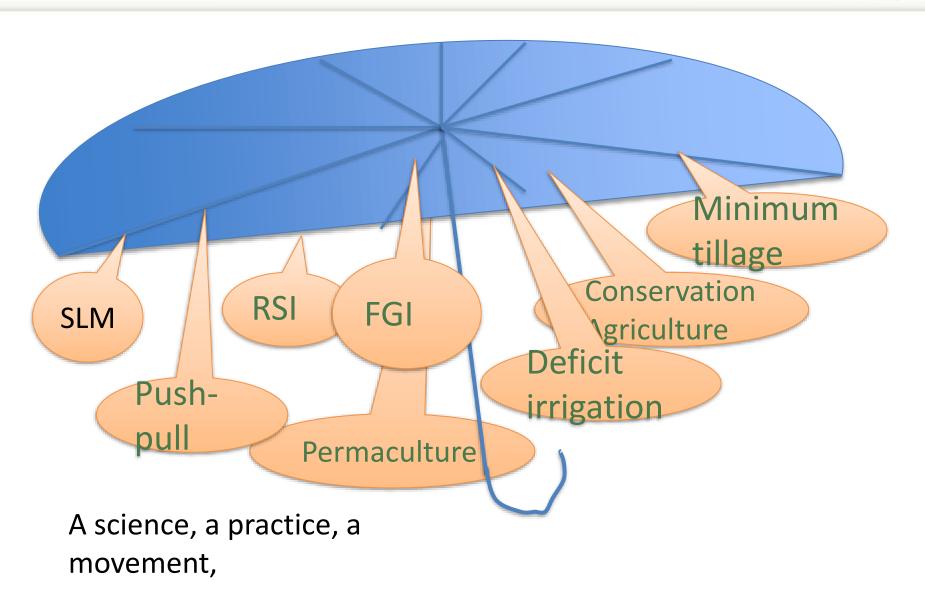
dynamic balance





5. Agroecology as an umbrella





6. AgroEcology by smallholder farmers



- Small scale food producers provide together 70 % of the food consumed by humanity
- Integrated landscape approach for biodiversity, watermanagement and food production
- Different Agro-ecological zones
- Social systems: Farmer to farmer learning, local peerestablished labelling, consumer supported agriculture
- IAASTD(2008),UN (2011), Nafeez Ahmed (2014) Paradigm shift: smh farmers can double their production; with agroecology they can feed the world
- Climate Change need for change in production methods

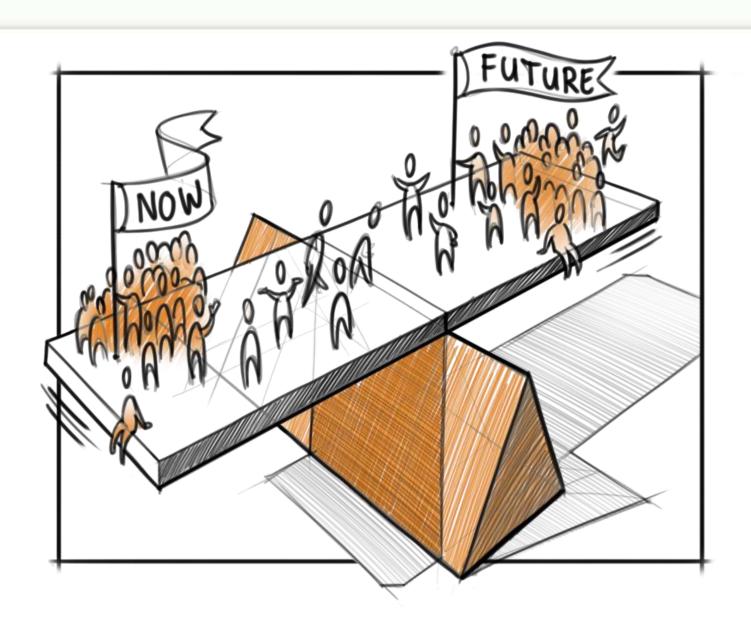
7. How to support transition to AE



- To the Tipping Point
- Extension Agents
- Access to resources for women
- 4 Es
- Learning, enhance transition process
- Support and enhance movements!

To the Tipping Point, 15 % is enough





INVESTMENT

Investment in agricultural extension services yields 80% annual rates of return and can help farmers to double their crop yields.



ANNUAL RATES OF RETURN



CROP YIELD INCREASE

Given equal access to resources as men, women would achieve the same yield levels, boosting total agricultural output in developing countries by

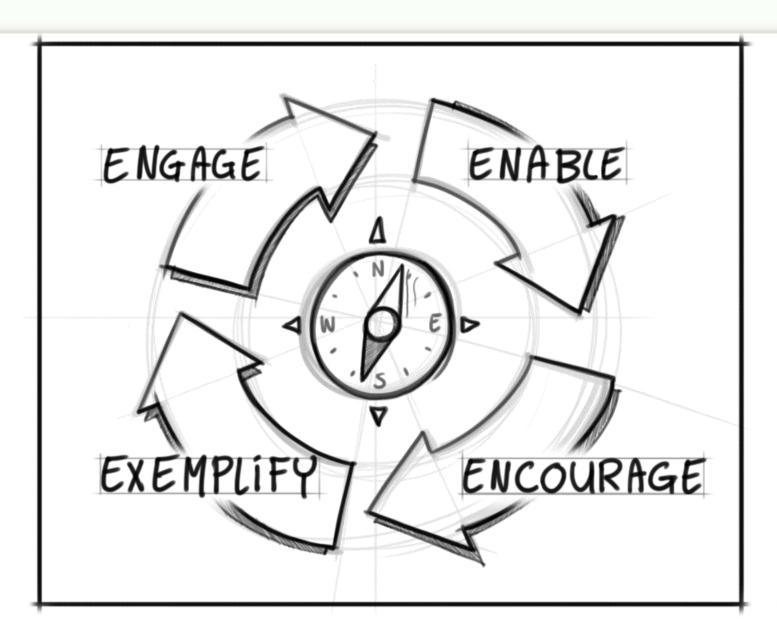




This additional yield could reduce the number of undernourished people in the world by 100-150m or 12-17%

The 4 Es





Encourage



The Ecologic Organic Agriculture Initiative EOAI (under Comprehensive African Agriculture Development Programme CAADP)

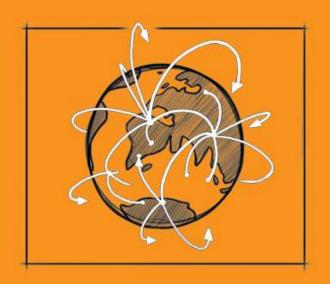
- Mission: promote ecologically sound strategies and practices among stakeholders in production, processing, marketing & policy making,
- to safeguard environment, livelihoods, alleviate poverty and guarantee food security
- Overall goals: mainstream Ecological Organic
 Agriculture into national production systems by 2025

The transition process



	NEW KNOWLEDGE	NEW PRACTICES	INSTITUTIONAL CHANGE
INDIVIDUAL ACTOR	(a) UNDERSTAND THE NEW APPROACH AND MAKE IT YOUR OWN	C) CHANGE OF VALUES, INDÍVIDUAL ACTIONS, DIRECTED AT CHANGING INSTITUTIONS	(e) ORGANISATIONAL CHANGE: CHANGE IN APPROACH (AGRO-ECOSYSTEM), POLICY, SUBSIDIES ETC.
NETWORK OF ACTORS	(b) CONVERGENT LEARNING: LEARN TOGETHER, INTERACTIVELY	(d) CHANGE OF ROLES AND RELATIONS	(f) Social CHANGE





Download from ECHO-website or from

www. jellekedenooy.nl

YELLOW PAGES OF AGROECOLOGY

all transitioning organisations

Jelleke de Nooy van Tol



TRANSITION TO AGROECOLOGY

for a food secure world

Available at Amazon.com or Athorhouse.com



Parts of the book are freely downloadable at ECHO website and Jellekedenooy.nl

- Transition to Agro Ecology, the story
- 2. Twenty five examples of groundbreaking frontrunners,

Thank you



• QUESTIONS?