Agroecology – Selected Resources

General Information

Agroecology Knowledge Hub
FAO Knowledge Hub on Agroecology bundles and connects existing knowledge to foster a global dialogue and scaling up Agroecology. It also contains the “10 Elements of Agroecology” and several best practices examples worldwide.

“Agroecology Now!” Platform
“Agroecology Now!” is a research, action and communications project convened by the Centre for Agroecology, Water and Resilience of Coventry University, which focuses on understanding and supporting the societal transformations necessary to enable agroecology.

Agroecology Europe
The European Association for Agroecology, a non-profit organization to support agroecological research, education and training.

Agroecology Info Pool
Compilation of showcases, a criteria tool to assess the own project and an analysis on the SDGs. The in-depth knowledge pool about agroecology is tailored for outreach and advocacy work.

Reports


The High Level Panel of Experts for Food Security and Nutrition (HLPE) is the science–policy interface of the UN Committee on World Food Security (CFS) which is, at the global level, the foremost inclusive and evidence-based international and intergovernmental platform for food security and nutrition (FSN).
**IPES-Food Report: “From University to Diversity- A paradigm shift from industrial agriculture to diversified agroecological systems”**


**The contribution of agroecological approaches to realizing climate-resilient agriculture (commissioned by the GCA, 2019)**


**TEEB Agri-Food Report: ‘Scientific and Economic Foundations’**

The report addresses the core theoretical issues and controversies underpinning the evaluation of the nexus between the agri-food sector, biodiversity and ecosystem services and externalities (e.g. human health impacts) from agriculture on a global scale. It presents a framework for evaluation and its application, and theories and pathways for transformational change.

**‘Money Flows: what is holding back investment in agroecological research for Africa’**

Based on extensive interviews, the report considers to what extent agroecology is understood and supported by AgR4D actors and makes 6 recommendations for aligning agri-development funding flows with the transition to sustainable food systems.

**‘Feeding the People– Agroecology for nourishing the world and transforming the agri-food system’**


**Scientific Articles**

**Transforming Food Systems with Agroecology**


**Defining Agroecology**


**The potential of agroecology to build climate-resilient livelihoods and food systems**

Agroecology: the science of natural resource management for poor farmers in marginal environments


Trainings

International Course on Agroecological Restoration: Resilience to Climate Change

Field course organized by Yale's Environmental Leadership & Training Initiative. The course features 3 field experiences in Colombia. One of them, El Hatico, uses intensive silvo-pastoral systems. This particular farm performed remarkably well facing the 2009 drought. The remaining field experiences also address resilience.

Promoting sustainable urban and periurban agriculture: an example of agroecological practices in Rosario (Argentina).


Scaling-up Agroecology through Zero Budget Natural Farming (India)

Training by Shri Vijay Kumar, Co-Vice Chairman, Rythu Sadhikara Samstha and Adviser to Department of Agriculture, Government of Andhra Pradesh, India.

Agroecology of diverse cropping systems and modern apple orchards in India - from Organic Production to Marketing

Training by Vikram Singh Rawat and Ashish Gupta are farmers and practitioners of innovative agricultural systems for rural regeneration in the Indian Himalayas. They founded the Gram Disha Trust which works to "Create Sustainable Value for Smallholders in India and Himalayan Ecosystems".

Agroecology in extensive mixed farming systems: similar productivity, lower costs and increased resilience

Training by Eduardo Cerda, RENAMA, Argentina

Tools

The Agroecology Criteria Tool (ACT)

The Agroecology Criteria Tool (ACT) methodology is based on the analytical framework by Gliessman on the 5 levels of food system change. It blends the 10 Elements of FAO and 13 Principles of the HLPE on Agroecology as guidelines for food system transformation.
Third World Network / SOCLA / RedAgres
Methodology by SOCLA to assess resilience in farming systems, including case studies from different regions.

Tool for Agroecology Performance Evaluation (TAPE)
Based on various existing assessment frameworks, TAPE is a comprehensive tool that aims to measure the multi-dimensional sustainability performance of agroecological. The tool was designed to remain simple and to require minimum training and data collection.

Best Practices/ Case Studies

Agroecology examples from all over the world (FAO)
FAO collected examples of how farmers are acting as the custodians of complex and innovative techniques that, through agroecology, build on local knowledge and traditional products.

Case-study report “Scaling ecology for resilience in the Sahel: the experience of rural communities in Mali, Burkina Faso and Senegal”
The report assesses ways of scaling agroecology across the Sahel region. It shows that agroecology is crucial for strengthening small-scale farmers’ resilience in the drylands when accompanied by strategies to integrate nutrition, rural governance, equity and women's self-empowerment.

Agroecology Case Studies in Africa (The Oakland Institute, 2015)
Thirty-three case studies illustrate the success of agroecology across the African continent. They demonstrate how an agricultural transformation respectful of the farmers and their environment can yield economic, social, and food security benefits while fighting climate change and restoring.

Examples of Policy on Agroecology (The World Future Council, 2018)
The Future Policy Award celebrates legislation and policies that create better living conditions for current and future generations. The nominations are evaluated by 100 experts and include examples from all over the world.

The agroecological revolution in Latin America: rescuing nature, ensuring food sovereignty and empowering peasants

Nature-Based Solutions for agricultural water management and food security (FAO, 2018)
A comprehensive synthesis of case studies evaluated with the following criteria: transdisciplinarity, rewarding custodians, institutional collaboration, success/failure.
MASIPAG

MASIPAG is a farmer-led network of people’s organizations, NGOs and scientists working towards the sustainable use and management of biodiversity through farmers’ control of genetic and biological resources, agricultural production and associated knowledge.

SysCom Program

The Research Institute of Organic Agriculture (FiBL) launched in 1978 a long-term experiment comparing the effects of conventional and organic farming have been established in three different countries in the tropics (Kenya, India, Bolivia).

Videos

TED Talk Pablo Tittonell: Feeding the world with Agroecology

Comprehensive explanation of the current challenges facing the food system, agroecology and its responses to these challenges.

Pre-Monsoon Dry Sowing Innovation (PMDS) in India

This video explains the PMDS method used widely in Andhra Pradesh under Zero Budget Natural Farming, which enables to harvest water from air during the dry season.

Agroecology in Cuba (in Spanish, with English CC)

A documentation on the agroecological solutions and practices applied in Cuba contributing to local food security. Due its political situation, Cuba had to find alternatives to synthetic agricultural inputs and found a viable solution in agroecology.

Sustainable Farming through Agroecology by Stephen Gliessman

Lecture on “Agroecology and Transformation of Food Systems” towards Sustainabilty.

Greening the Desert Project Jordan

Results and impressions from a permaculture project in Jordan. After 10 years, the food forest is well established despite the arid and hot climate.

The list does not claim to be comprehensive, it will be frequently updated. For further information please feel free to contact us.

Published by:
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH
Registered offices
Bonn and Eschborn, Germany
Dag-Hammarskjöld-Weg 1 - 5
65760 Eschborn
T +49 61 96 79-0
F +49 61 96 79-11 15
E info@giz.de
I www.giz.de

Eschborn, August 2020

Author:
Sectorproject “Sustainable Agriculture” (SV NAREN), Eschborn

Design:
Sectorproject “Sustainable Agriculture” (SV NAREN), Eschborn

Photo credits:
© GIZ/ Michael Jooß

Further Information:
https://www.giz.de/en/worldwide/39650.html

GIZ is responsible for the content of this publication.