AGROECOLOGY – A PATHWAY TO ACHIEVING THE SDGs

As an approach based on sustainability that is people-centred and knowledge-intensive, agroecology matches the transformative approach that the 2030 Agenda calls for. Our author explains how agroecology and the Sustainable Development Goals relate to one another and presents the FAO initiative on fostering agroecology.

By Beate Scherf

Although not a new concept, agroecology is a key part of the global response to deforestation, water scarcities, biodiversity loss, soil depletion and greenhouse gas emissions and has the potential to alleviate poverty, reduce hunger and malnutrition and decrease inequalities. Agroecology contributes directly to multiple Sustainable Development Goals (SDGs): the eradication of poverty (Goal 1) and hunger (Goal 2); ensuring quality education (4); achieving gender equality (5); increasing water-use efficiency (6); promoting decent jobs (8); ensuring sustainable consumption and production (12); building climate resilience (13); securing sustainable use of marine resources (14); and halting the loss of biodiversity (15) while significantly increasing the resilience of both people and the environment, mitigating climate change, and sustainably using and conserving natural resources and biodiversity. Moreover, agroecology can contribute to achieving the aims of the Paris Climate Agreement, the Convention on Biological Diversity and the United Nations Convention to Combat Desertification.

STRENGTHENING THE GLOBAL DIALOGUE

With the organisation of the 1st International Symposium on Agroecology in September 2014, the Food and Agriculture Organization of the United Nations (FAO) commenced strengthening the global dialogue and laying the groundwork for enhanced co-operation. This was followed by regional seminars held from 2015 to 2017 in five regions (sub-Saharan Africa, Latin America and the Caribbean, Asia and the Pacific, Europe and Central Asia, and the Near East and North Africa), involving 1,400 participants – representatives of governments, researchers, civil society, the private sector and the UN system – from 170 countries. Not only did these regional seminars reveal a diversity of perspectives, experiences and approaches, but they also identified commonalities between regions and across different approaches to agroecology – including shared challenges, opportunities and objectives, as well as common characteristics of agroecological systems, practices and approaches. In April 2018, a 2nd International Symposium titled “Scaling-up Agroecology to contribute to the SDGs” was held which brought together 700 participants, including representatives from 72 governments, 350 civil society organisations and representatives from six UN organisations. Participants analysed experiences, evidence and public policies to respond to the challenges faced by our agriculture and food systems (see Recommendations in Box on page 16) and confirmed the notion that it is time to upscale agroecology.

WHERE DO WE STAND?

In preparation for the 2nd International Symposium, FAO’s work plan for 2018–2019 was analysed to present an overview of the organisation’s engagement in the field of agroecology and to expose gaps and opportunities for upscaling. The analysis revealed that eight per cent of FAO’s results planned for 2018–2019 support transitions to sustainable food and agriculture through agroecology. Two-thirds (64%) of these results are to be delivered in 78 countries across all five geographic regions addressing food security, nutrition and health,
A ROADMAP TOWARDS AGROECOLOGY-BASED SUSTAINABLE FOOD AND AGRICULTURE SYSTEMS

Based on Stephen Gliessman’s five levels of food system change converting conventional agricultural production and food systems to agro-ecological food systems, the FAO defined four levels that can serve as a roadmap outlining a transformation process simultaneously achieving economic, environmental, social, nutritional, health and cultural objectives. Each level requires mechanisms in place to strengthen capacities, institutions, legal frameworks, policies and programmes that support transitional processes. The four levels describe a progressive path towards greater environmental, social and economic sustainability and can be implemented in any combination.

The first two levels are at producer level. Levels 3 and 4 go beyond the producer level involving the broader food system and societal level. They require co-operation among producers within the same territory, which may require public support.

4 BUILDING AN ENABLING ENVIRONMENT FOR MORE SUSTAINABLE FOOD SYSTEMS

Integrated legal frameworks, policies and governance systems provide an enabling environment supporting the transition towards more resilient and sustainable food systems. The uptake of agroecological practices requires systems of education and extension to support agricultural producers in changing their practices. Policies and legal frameworks that contribute to farmers’ land tenure and natural resources security are directly correlated with investment in agricultural production systems and the implementation of good practices. Agroecology requires cooperation through an enabling environment at territorial scale.

3 STRENGTHENING MARKETS THAT SUPPORT AGROECOLOGY

Transitioning to agroecology can only be sustainable if markets are adapted, or new markets established, to incentivise agricultural producers to produce biodiverse, local food and to invest in improving their agricultural production systems. Market arrangements that support agroecology include: public procurement, participatory guarantee systems, geographical indications, farmers’ markets and consumer-supported agriculture schemes. Consumers can help drive these changes.

2 TRANSFORMING AGRICULTURAL PRODUCTION SYSTEMS TO BE MORE RESILIENT AND SUSTAINABLE

Redesigning agricultural production systems is necessary to address the root causes of problems, such as degradation of land, loss of biodiversity and ecosystem services and water scarcity. The new systems increase biodiversity, recycle by-products and diversify landscapes.

1 INCREASING THE EFFICIENCY OF PRACTICES AND RESOURCES AND SUBSTITUTING EXTERNAL INPUTS

Optimising biological processes is the starting point as it reduces the need for external inputs that negatively impact human and environmental health. Products and practices are replaced with those that are more environmentally sound. Though they may lead to creating sustainable agriculture and food systems, activities at this level are not in themselves considered agroecology.

In addition, deriving from a comprehensive consultation process, ten elements were defined that may be used by national policy-makers and stakeholders in planning, managing and evaluating agroecological transitions (see Figure): diversity; synergies; efficiency; resilience; recycling; co-creation and sharing of knowledge (describing common characteristics of agroecological systems, foundational practices and innovation approaches); human and social values; culture and food traditions (context features) and responsible governance; circular and solidarity economy (enabling environment). These elements are interlinked and interdependent.

Source: FAO
access to markets for local production, family- and small-scale production, climate-resilient approaches, sustainable natural resource management and sustainable food systems and livelihoods. In addition, 22 per cent of the work is being planned at regional level and 23 per cent at global level. Of the eight per cent of FAO’s results, almost 80 per cent of the activities contribute to building enabling environments for more sustainable food systems. Most of the planned work feeds into more than one of the four transition levels defined by FAO in 2018 (see Box on page 15), with a focus on level 1 in combination with level 4. Single-level interventions contribute only to level 4.

Opportunities exist for further incorporating and upscaling agroecology through better integration of the agricultural sectors (crop and livestock production, forestry, aquaculture and fisheries) and transition towards sustainable food systems approaches in collaboration with partners particularly at country and regional levels. In addition to the work already contributing to agroecology, a significant part of FAO’s work over 2018–2019 could be shaped to upscale the area.

THE SCALING UP AGROECOLOGY INITIATIVE

In order to join forces and engage partners, the “Scaling up Agroecology Initiative” was launched together with UN agencies and other partner organisations during the 2nd International Symposium in April 2018.

“**In the transformative spirit of the 2030 Agenda, we will work with food producers, governments and other stakeholders to strengthen agroecology – as a promising approach –, harnessing a range of sustainable practices and policies, knowledge and alliances to achieve equitable and sustainable food systems in support of the SDGs.**

Mission of the Scaling up Agroecology Initiative

The initiative is to focus on the following challenges, which were identified in the consultations:

- There is a lack of awareness of agroecology among policy-makers.
- Agroecological transitions require an enabling environment providing positive incentives and buffers for food producers while they transform their systems, which takes time to realise the full benefit.
- Political and economic support needs to prioritise sustainable approaches, including research priorities taking into consideration externalities of food systems.
- Research, education and extension systems do not sufficiently respond to the needs of agroecology as an approach to effectively transform food and agricultural systems (see also article on pages 31–33).
- Current market systems are not responding to agroecological approaches and the needs of diversified agroecological production systems or the needs of consumers for diversified and healthy diets, particularly those of small-scale food producers and poor urban consumers. Successful models which re-connect producers and consumers, rural and urban areas (such as community-supported agriculture schemes, public procurement programmes, e-commerce and participatory guarantee schemes) need to be strengthened, and agroecological producers require improved access to these market opportunities.
- There is a lack of co-ordinated action and collaboration in policy and governance. Policies need to be integrated across scales (local, national and international) and sectors (from agriculture, fisheries and forestry to economic, social and environmental sectors) to achieve coherence through a territorial approach.

THE WAY FORWARD

The Scaling up Agroecology Initiative aims to accompany and support national agroecology transition processes through policy and technical capacity. To this end, it will build alliances among different stakeholders, strengthen networks and allow co-creation of knowledge and knowledge sharing. The Initiative is to focus its efforts on three areas of work:

1. Knowledge and innovation improving the evidence base on agroecology and ecosystem-based approaches;
2. Policy processes assisting countries in the development of policies for agroecology with the participation of non-state actors by harnessing existing international instruments and decisions of inter-governmental bodies, including the 2030 Agenda;
3. Building connections for transformative change by working with governments, producers’ organisations, consumers, civil society, research and the private sector, supporting networks and platforms for knowledge exchange and dialogue for these stakeholders at national, regional and international levels.

We are convinced that co-operation among partners and a wide range of actors and institutions is necessary to scale up agroecology in order to achieve the SDGs and invite interested stakeholders to engage in the Scaling up Agroecology Initiative. As a first step, FAO will develop with partners a detailed ten-year action plan to operationalise the Initiative.

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The views expressed in this article are those of the author and do not necessarily reflect the views of the Food and Agriculture Organization of the United Nations (FAO).

For links and further information on FAO’s work on agroecology, see online version of this article at: www.rural21.com