



Agroecology TPP

Assessing Agroecological Transitions

An overview of tools and frameworks for the Agroecology Leadership Academy 4th online exchange

12th of September 2024



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TRANSITIONS



Investing in rural people



Stats4SD



Food and Agriculture Organization of the United Nations



INITIATIVE ON Agroecology

Matthias Geck

‘Measuring Agroecology’: What matters to you? | Français...

Please use the chat or raise your hand to let us know:

What is the main **objective** you (would) have for using tools and frameworks for assessing agroecology?

Français...



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Agroecology Transformative Partnership Platform

‘Measuring Agroecology’: What matters to you? | Français...

Please use the chat or raise your hand to let us know:

Why do you think ‘measuring agroecology’ is **important for overcoming critical barriers** to agroecological food system transformation?

Français...

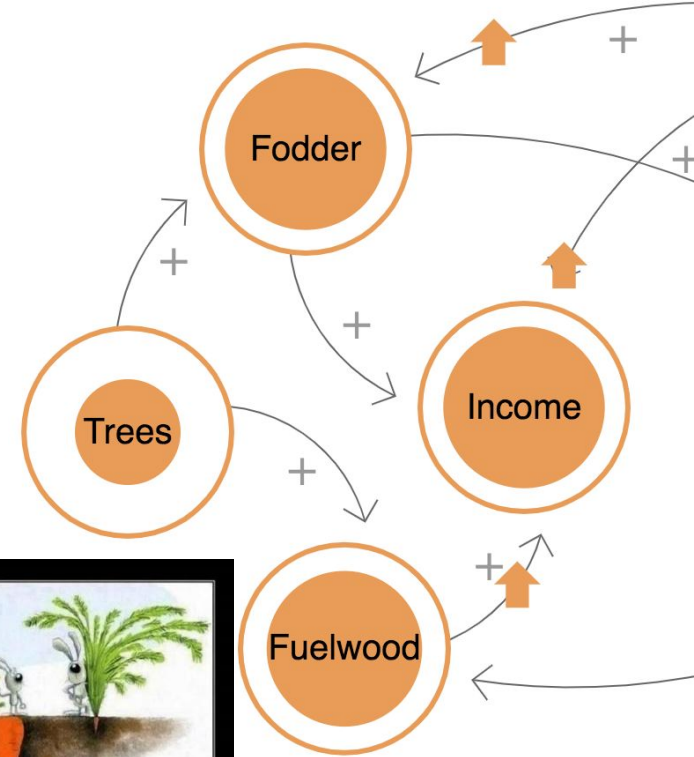
Levelling the playing field | Francais

A key challenge to up-scaling agroecology is providing policymakers, donors, development actors and farmers with ways of measuring performance that **allow fair comparison** with alternatives.

Agri-food systems are complex, measuring them isn't easy.

Dominant practice has been to **measure a narrow set of metrics** focusing on economic performance and productivity.

But agroecological systems provide environmental and social benefits, not only economic ones!



The 'Metrics Domain' of the Agroecology TPP Le 'Domaine Métriques' de la TPP Agroécologie




Holistic Performance Measurement for Food Systems Transformation

A scoping study in Burkina Faso, Ghana, and Tunisia




Matthias Geck & Mary Croesland



ANNUAL MEMBERS FORUM MEETING 2024



Metrics

Measuring what matters to support agroecological TRANSITIONS

12 March 2024

2024 • Annual Members Forum Meeting / Nairobi, Kenya

Matthias Geck


Measuring Agroecology and its Performance (MAP)

Introduction to the collaborative MAP project at the inception meeting in Nairobi

21 June 2023








Matthias Geck



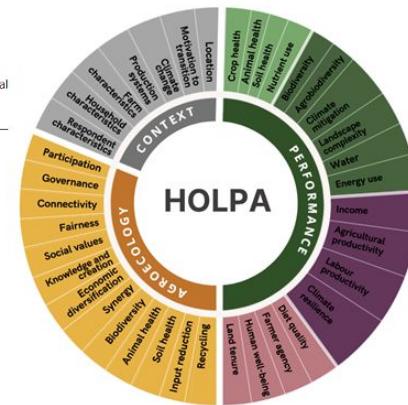
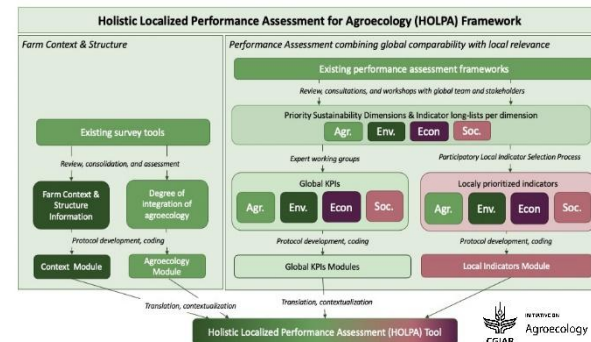
Moeller, NI, et al. 2023. Measuring agroecology: Introducing a methodological framework and a community of practice approach. *Elem Sci Anth*, 11: 1. DOI: <https://doi.org/10.1525/elementa.2023.00042>

Outlook on Agriculture
Volume 52, Issue 3, September 2023, Pages 349-359
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<https://doi.org/10.1177/00307270231196309>

Sage Journals

Perspectives

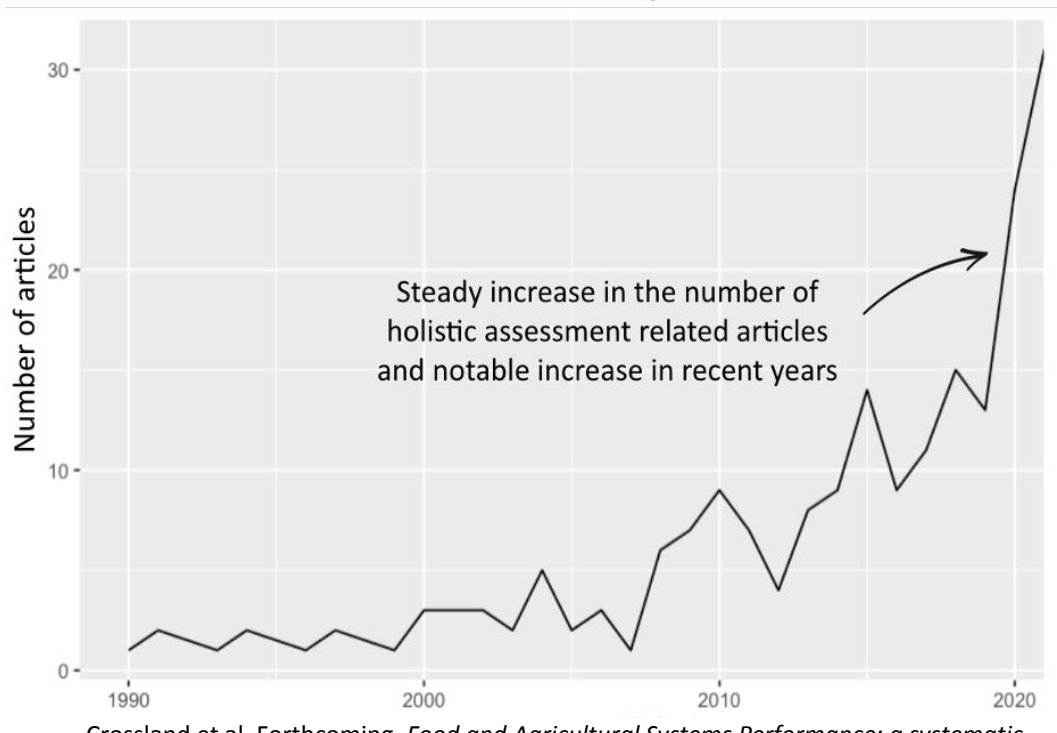
Measuring agroecology and its performance: An overview and critical discussion of existing tools and approaches



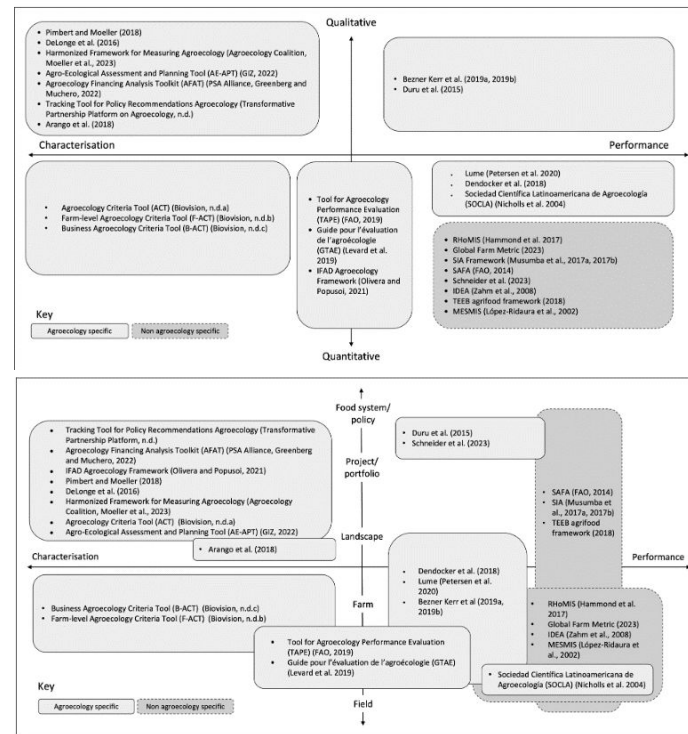
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Agroecology Transformative Partnership Platform

No silver bullets: Diverse objectives and approaches | Français...



Crossland et al. Forthcoming. *Food and Agricultural Systems Performance: a systematic literature review of holistic assessment approaches*. *Frontiers in Sustainable Food Systems*



Outlook on Agriculture
Volume 52, Issue 3, September 2023, Pages 349-359
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<https://doi.org/10.1177/003072720231196309>

Perspectives

Measuring agroecology and its performance: An overview and critical discussion of existing tools and approaches

Sage Journals

What does 'Measuring Agroecology' mean? | Français...

Three general ways of looking at the topic:

1. Assessing the degree of agroecological **integration**: Status of integration of 13 principles or 10 elements
2. Assessing the **performance** of agroecology: Status of agroecology's contribution to achieving societal goals
3. Assessing agroecological **transitions**: Tracking of changes in a system and its components over time

Français...

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Perspectives

Measuring agroecology and its performance: An overview and critical discussion of existing tools and approaches

‘Measuring Agroecology’: What tools have you used | Français...

Please use the chat or raise your hand to let us know:

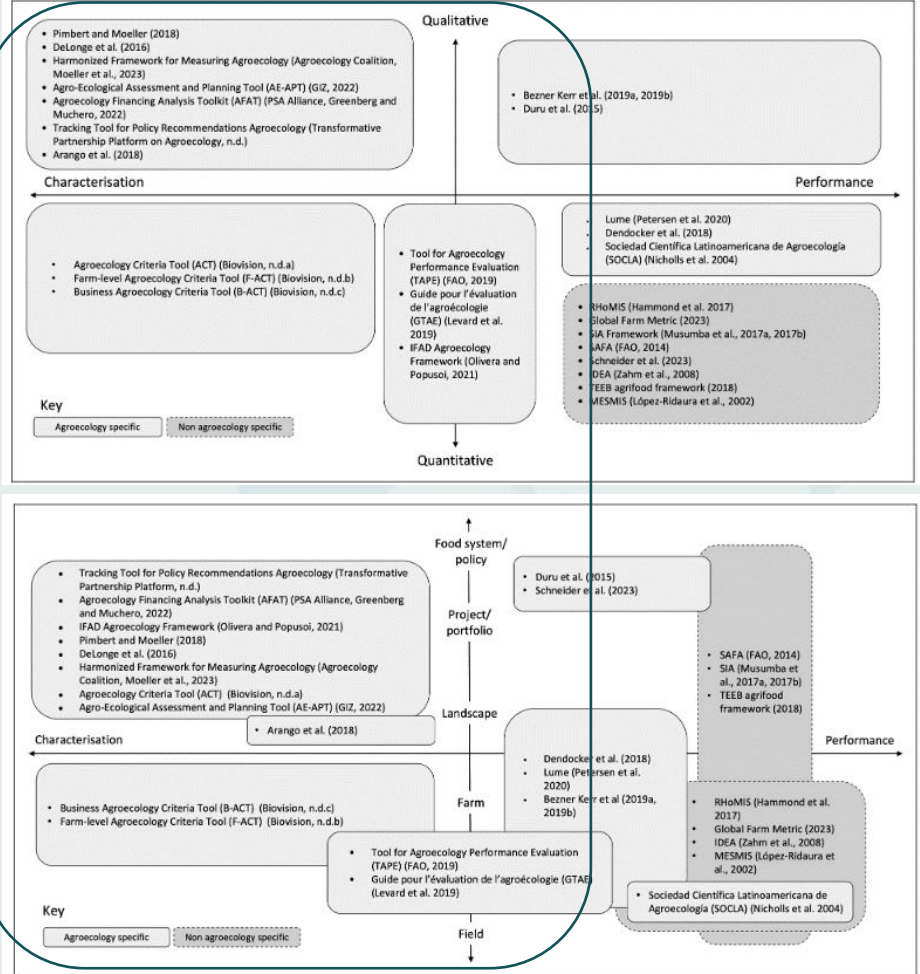
Which relevant tools or frameworks have you previously used or engaged with and which of the three categories would you place these in?

1. Assessing the degree of agroecological **integration**
2. Assessing the **performance** of agroecology
3. Assessing agroecological **transitions**

Français...

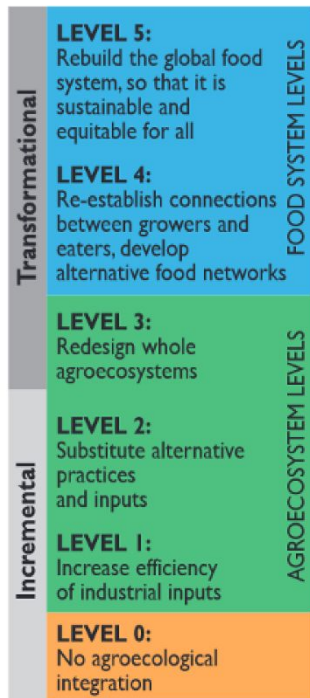
Assessing the degree of agroecological integration: Status of integration of 13 principles or 10 elements at different levels

Francais



Assessing financial flows and investments | Français...

5 Gliessman's levels

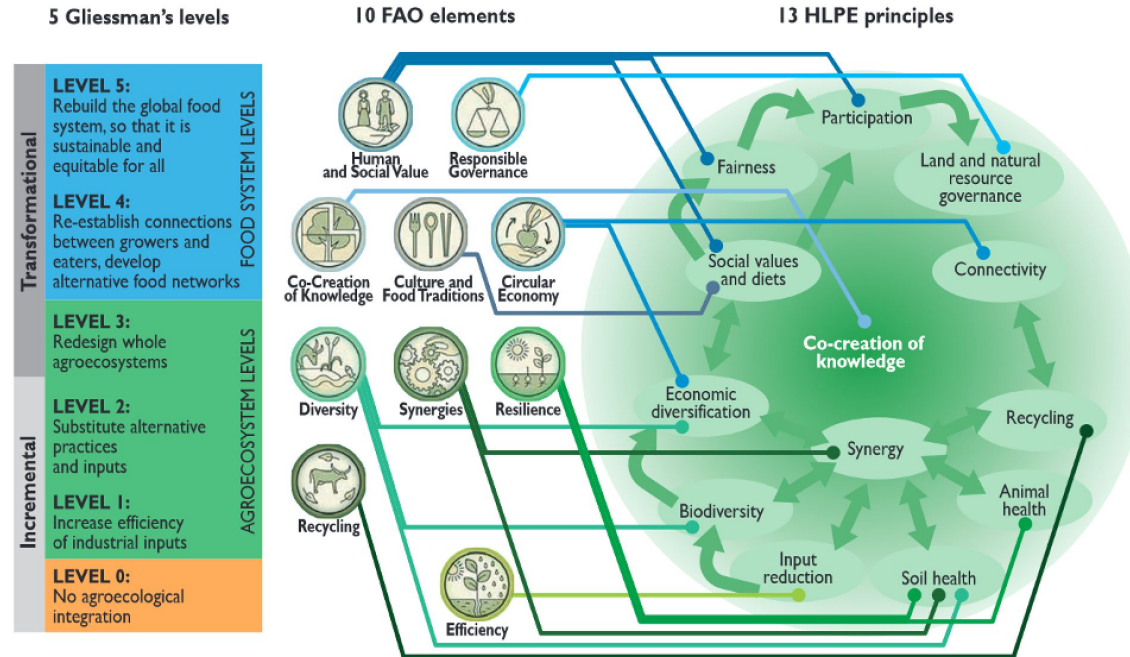


Gliessman S (2016) Transforming food systems with agroecology. Agroecology and Sustainable Food Systems 40(3)

DeLonge MS, Miles A and Carlisle L (2016) Investing in the transition to sustainable agriculture. Environmental Science & Policy 55(1): 266–273

Pimbert MP and Moeller NI (2018) Absent agroecology aid: On UK agricultural development assistance since 2010. Sustainability 10(2): 05.

10 elements and 13 principles change the game | Français...



▲ Linking FAO's 10 elements, Gliessmann's 5 levels of food system transformation and the 13 HLPE principles

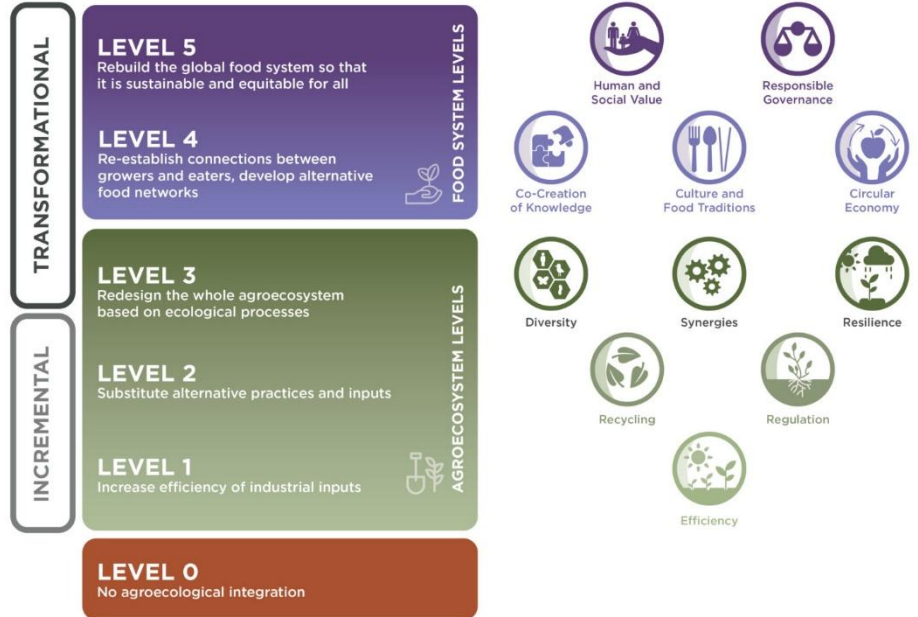
FAO (2018) The 10 Elements of Agroecology: Guiding the Transition to Sustainable Food and Agricultural Systems. Rome: Food and Agricultural Organization of the United Nations.

HLPE (2019) Agroecological and other innovative approaches for sustainable agriculture and food systems that enhance food security and nutrition. A report by the High Level Panel of Experts on Food Security and Nutrition of the Committee on World Food Security, Rome.

Wezel A, Herren BG, Kerr RB, et al. (2020) Agroecological principles and elements and their implications for transitioning to sustainable food systems. A review. *Agronomy for Sustainable Development* 40(6): 40.

Assessing financial flows and investments | Français...

5 LEVELS OF FOOD SYSTEM CHANGE AND 10+ ELEMENTS OF AGROECOLOGY



Biovision' Agroecology Criteria Tool (ACT): Great choice for assessing 'agroecologicalness' of projects and portfolios in an efficient but systematic manner

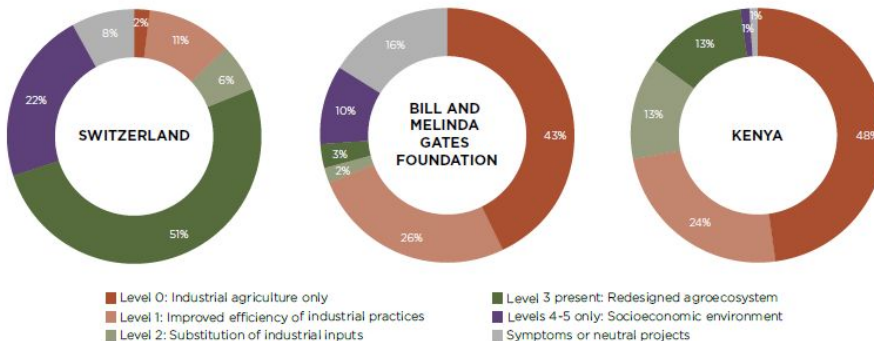
Francais

<https://www.agroecology-pool.org/methodology-old/>

Assessing financial flows and investments | Français...



Overview of the degree to which agroecology has been integrated in AgR4D projects in three case studies



agtoecol-o-gy

Agroecology is a way of redesigning and managing food systems, from the farm to the table, with a goal of achieving ecological, economic, and social sustainability by applying a series of principles. There are 5 levels of transition towards this sustainable food system.

- Level 1: Increase the efficiency of industrial/conventional practices
- Level 2: Substitute industrial/conventional inputs and practices with organic agriculture
- Level 3: Re-design the agro-ecosystems towards integrated and resilient agroecosystems
- Level 4: Establish alternative forms of economic exchange and market relationships
- Level 5: Build a (new) global food system, that we will refer to as 'building food sovereignty'

Food systems change to respond to health and climate crises.



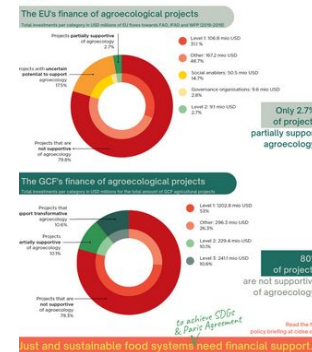
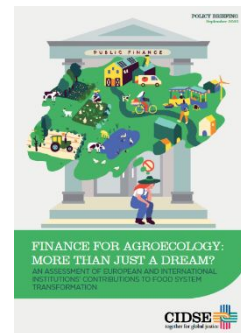
THE MEAN OF AGROECOLOGICAL RESEARCH FOR AFRICA: AN OPPORTUNITY MISSED

Margot Vermeiren
Olivier De Schutter
May 2020



Institute for Development Research in Africa (IDRA)
Centre for Research in African Studies (CRAS)

IPES FOOD Working Paper 0007



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Assessing financial flows and investments | Français...



The Agroecology Coalitions' Agroecology Finance Assessment Tool: A common framework for tracking investments for agroecology co-created by donors, civil society, farmer organizations, researchers, multilateral organizations...

Francais

THE AGROECOLOGY ASSESSMENT FRAMEWORK



Moeller, NI, et al. 2023. Measuring agroecology: Introducing a methodological framework and a community of practice approach. *Elem Sci Anth*, 11: 1.
DOI: <https://doi.org/10.1525/elementa.2023.00042>

Assessing agroecological integration in policies | Français...



CFS Policy Recommendation	Priority Action	Country Status (relevant actions)*	Target(s)*	Indicator(s)*	Who is responsible
1. Lay or strengthen, as appropriate, the policy foundations for agroecological approaches to contribute to sustainable agriculture and food systems that enhance food security and nutrition.	1.1 Promote the integration of agroecological approaches in policies and plans that address agriculture and food system challenges in the local context by strengthening the resilience of food systems.	TBC during national consultations	TBC during national consultations	TBC during national consultations	
	Measures creating perverse incentives				
	Measures that go beyond policy recommendation				
	Civil Society perspective				
	1.2 Strengthen public policies to harness market mechanisms to enable sustainable agriculture and food systems by considering economic, environmental, and social, including public health, externalities, trade-offs, and synergies.				
	Measures creating perverse incentives				

<https://glsf.globallandscapesforum.org/topics/21467/page/food-systems-transformation-through-agroecology>

The TPP's Tracking Tool for the Implementation of the CFS Policy Recommendations on Agroecology

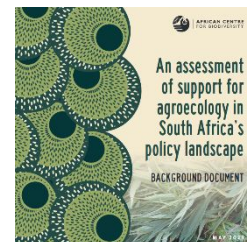
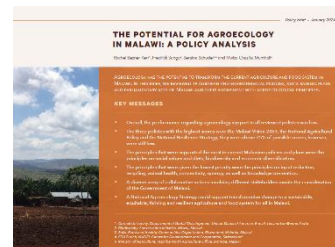
Francais



Agroecologically-conducive policies

A review of recent advances and remaining challenges

Co-lead: Maria Paula Morales
Project Manager: Stephanie Gaudin
Co-lead: Vincent Gitz
Co-lead: Anne-Marie Gitz
Co-lead: Vincent Gitz
Co-lead: Anne-Marie Gitz



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Assessing agroecological integration in enterprises | Français...



Business Agroecology Criteria Tool



User guide

The Business Agroecology Criteria Tool (B-ACT) is designed to assess the degree to which enterprises are aligned with each of the 13 principles of agroecology, as established by the High Level Panel of Experts on Food Security and Nutrition¹.

What is the tool for?

The Business Agroecology Criteria Tool (B-ACT) assesses an enterprise's general alignment with the three pillars of sustainable food systems (see Figure 1). The B-ACT also contains screening questions to rapidly determine whether an enterprise's business model, operations or strategy are potentially in conflict with agroecology. The user can expect to spend 2-3 hours to complete the B-ACT assessment. For users wanting to conduct a preliminary screening, especially when dealing with a larger pool of enterprises, we recommend first using [Biovision's Agroecology Check for Enterprises](#).

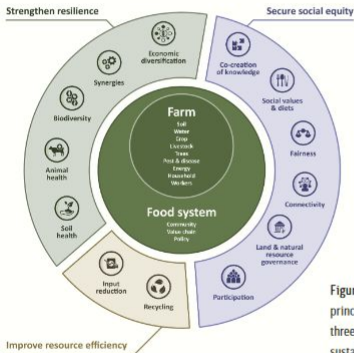


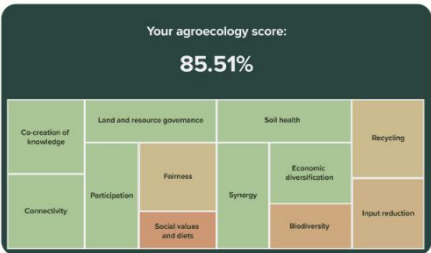
Figure 1: Overview of 13 principles of agroecology and three operational principles of sustainable food systems

The global food system currently accounts for 1/3 of anthropogenic greenhouse gas emissions² and is the primary driver of biodiversity loss³. In this context, the B-ACT fills the need for a diagnostic tool that takes into account the environmental and social impacts of enterprises in food systems. The tool allows for identification of enterprises demonstrating sustainable practices and potential to drive the sustainable transformation of food systems.

Biovision's Business Agroecology Criteria Tool

(B-ACT): A quick yet systematic approach to assess alignment with agroecology principles


Francais



<https://www.agroecology-pool.org/b-act/>

1

Assessing agroecological integration in farms | Français...



FARM-LEVEL AGROECOLOGY CRITERIA TOOL USER GUIDE

The Farm Level Agroecology Criteria Tool (F-ACT) is a digital decision-making tool that enables farmers to identify ways for making their farms more efficient, resilient, equitable, and ultimately agroecological. This document highlights the utility and limitations of F-ACT and provides guidance for using F-ACT.

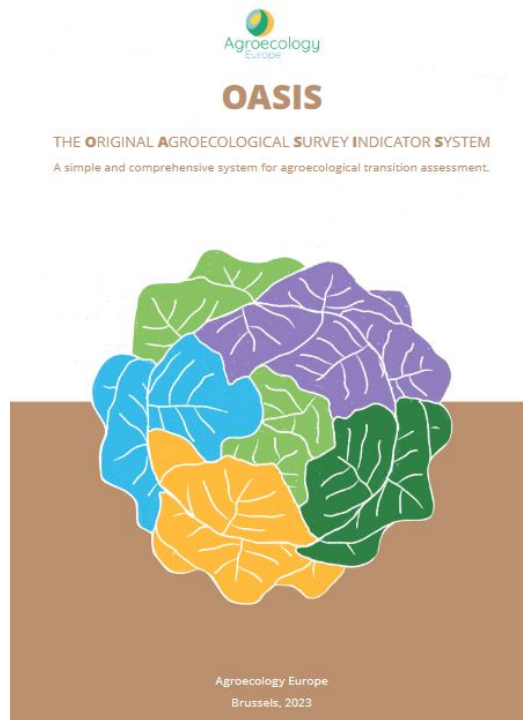
- Monitor adoption of agroecological practices or behaviours after training.
- Produce narrative case studies to promote agroecological farming and food systems within communities and as a tool for advocacy and policy.

Biovision's Farm Level Agroecology Criteria Tool (F-ACT): Great approach for engaging farmers on agroecology and provide evidence-based inspiration – does not assess performance

Français

<https://www.agroecology-pool.org/fact/>

Assessing agroecological integration in farms | Français...



DESCRIPTION OF THE FRAMEWORK

Steps

DIMENSION 1 - Farming practices

DIMENSION 2 - Economic viability

DIMENSION 3 - Socio-political aspects

DIMENSION 4 - Environment and biodiversity

DIMENSION 5 - Resilience

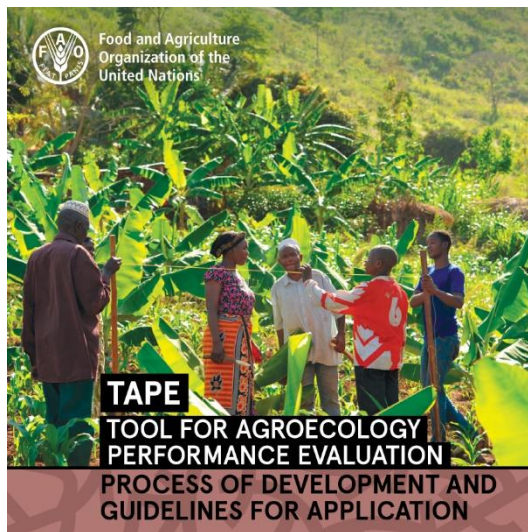
PARTICIPATORY INTERPRETATION OF RESULTS

Agroecology Europe's Original Agroecological Survey and Indicator System (OASIS): Designed to support farmers in their transitions to agroecology – combines assessment of 'agroecologicalness' and performance

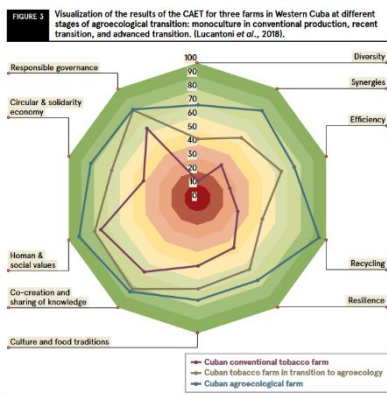
Francais

<https://www.agroecology-europe.org/oasis-brochure/>

Assessing agroecological integration in farms | Français...



FAO's Tool for Agroecology Performance Evaluation (TAPE): The most widely used tool for assessing agroecology and its performance. Step 1 is the Characterization of Agroecological Transition (CAET)

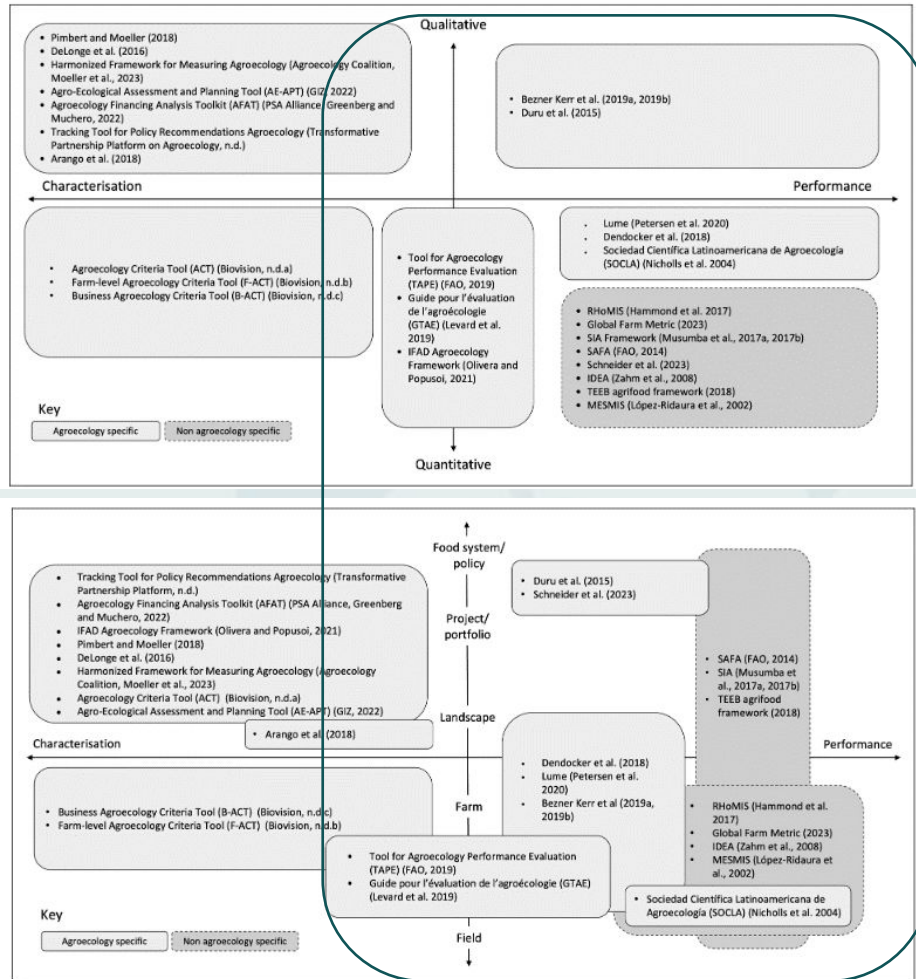


Français

<https://www.fao.org/agroecology/tools-tape/en/>

Assessing the performance of agroecology: Status of agroecology's contribution to achieving societal goals at different levels

Francais



Assessing performance of farms | Français...

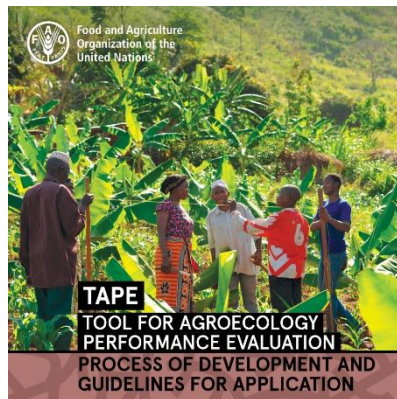


TABLE 4 10 Core criteria of performance of agroecology and their links to SDG indicators

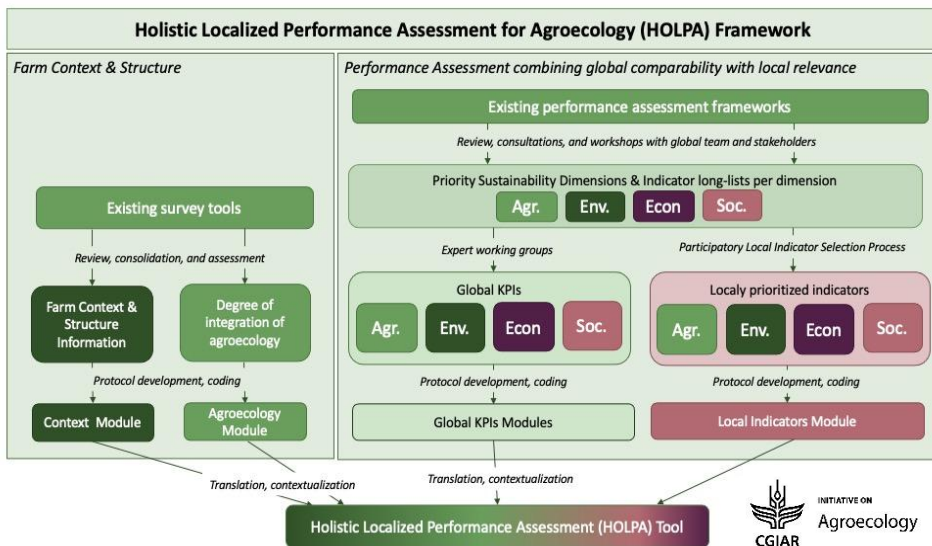
MAIN DIMENSION	#	CORE CRITERIA OF PERFORMANCE	PROPOSED METHOD OF ASSESSMENT IN SURVEY	SDG	SDG INDICATORS
Governance	1	Secure land tenure (for mobility for pastoralists)	Type of tenure over land: property, lease + duration, verbal, not explicit (SDG 1.4.2, 5.a.1 and 2.4.1 sub-indicator 1) Existence and use of pastoral agreements and mobility corridors	1 2 5	1.4.2 2.4.1 5.a.1
	2	Productivity	Farm output value per hectare (SDG 2.4.1 sub-indicator 1) Farm output value per person	2	2.3.1 2.4.1
Economy	3	Income	Outputs - inputs - operating expenses - depreciation + other income (SDG 2.4.1 sub-indicator 2)	1 2 10	1.1.1, 1.2.1 and 1.2.2 2.3.2 2.4.1 10.2.1
	4	Added value	Net income + rents + taxes + interests - subsidies	10	10.1.1 10.2.1
Health & nutrition	5	Exposure to pesticides	Quantity applied, area, toxicity and existence of risk mitigation equipment and practices	3	3.9.1 3.9.2 3.9.3
	6	Dietary diversity	Minimum Dietary Diversity for Women (FAO and FHI 360, 2016)	2	2.1.1 2.1.2 2.2.1 2.2.2 2.4.1
Society & Culture	7	Women's empowerment	Abbreviated Women's Empowerment in Agriculture Index, A-WEAI (IFPRI, 2012)	2 5	2.4.1 5.a.1 5.a.2
	8	Youth employment opportunity	Access to jobs, training, education or migration (SDG 8.6.1)	8	8.6.1
Environment	9	Agricultural biodiversity	Relative importance of crops varieties, livestock breeds, trees and semi-natural environments on farm (SDG 2.4.1 sub-indicator 8.1, 8.6 and 8.7)	2 15	2.4.1 2.5.1
	10	Soil health	Adapted SOCLA rapid and farmer friendly agroecological method to assess soil health (Nicholls et al., 2004)	2 15	2.4.1 15.3.1

FAO's Tool for Agroecology Performance Evaluation (TAPE): The most widely used tool for assessing agroecology and its performance. Step 2 assesses performance aligned with SDGs

Français

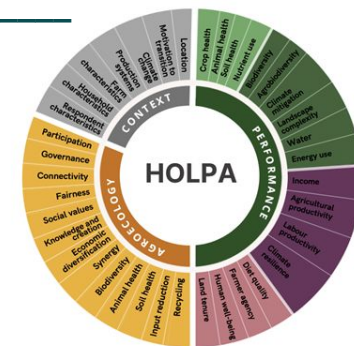
<https://www.fao.org/agroecology/tools-tape/en/>

Assessing performance of farms | Français...



CGIAR's Holistic Localized Performance Assessment for Agroecology (HOLPA) assesses a farm's performance in 4 dimensions, combines local and global indicators, and correlates performance with agroecological integration

Français



https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4891979

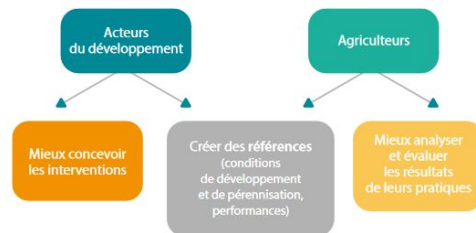
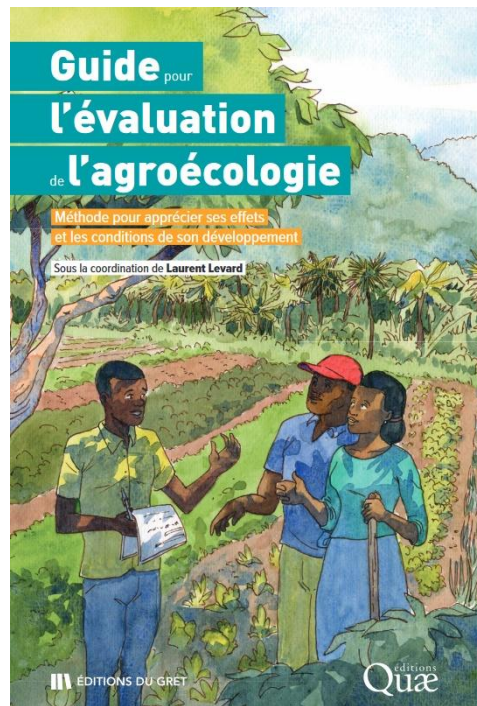


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Assessing performance of farms | Français...



Groupe de travail sur les transitions agroécologiques (GTAE)'s Guide pour l'évaluation de l'agroécologie allows for assessing the effects of practicing agroecology and analyses the factors that support or hinder agroecological transitions

Francais

<https://gret.org/publication/guide-pour-levaluation-de-lagroecologie/>

Assessing agroecological performance | Français...



INTERNATIONAL JOURNAL OF AGRICULTURAL SUSTAINABILITY
2023, VOL. 21, NO. 1, 2193028
<https://doi.org/10.1080/14735903.2023.2193028>

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Multidimensional and multiscale assessment of agroecological transitions. A review

Maryline Darmaun ^{a,b,c}, Tiphaine Chevallier ^b, Laure Hossard ^{c,d}, Juliette Lairez ^{c,d}, Eric Scopel ^{c,d}, Jean-Luc Chotte ^b, Adeline Lambert-Derkinba ^a and Stéphane de Tournonnet ^c

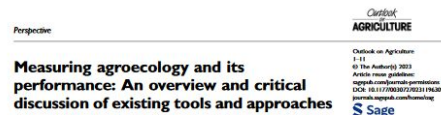
^aAssociation CARI – Centre d'Actions et de Réalisations Internationales, Viols-le-Fort, France; ^bUMR Eco&Sols, IRD, CIRAD, INRAE, Institut Agro-Montpellier, University of Montpellier, Montpellier, France; ^cUMR 0951 Innovation, CIRAD, INRAE, Institut Agro-Montpellier, University of Montpellier, Montpellier, France; ^dCIRAD AIDA Agroécologie et Intensification Durable des cultures Annuelles (AIDA), Montpellier, France; ^eUMR ABSYS, Institut Agro-Montpellier, University of Montpellier, Montpellier, France

ABSTRACT

Assessing benefits and limits of agroecological transitions in different contexts is of foremost importance to steer and manage agroecological transitions and to feed evidence-based advocacy. However, assessing agroecological transitions remains a methodological challenge. The objective of this research was to investigate to what extent existing multiscale and multidimensional assessment methods were suitable to assess agroecological transitions. We used a literature review to identify and select 14 existing multiscale and multidimensional assessment methods related to sustainable or resilient agriculture. We then analyzed these 14 methods according to five evaluation criteria that reflected key requirements for assessing agroecological transitions: 1) be adaptable to local conditions, 2) consider social interactions among stakeholders involved in the transitions, 3) clarify the concept of agroecology, 4) consider the temporal dynamics of the transitions to better understand barriers and levers in their development and 5) use a participatory bottom-up approach. The methods adopted different approaches to consider each evaluation criterion, but none of them covered all five. The two evaluation criteria most often employed were the adaptability to local conditions (used by 13 of the methods) and the consideration of social interactions (used by all 14 of the analyzed methods). To be adaptable, methods mobilized generic guidelines with flexible content and/or included a contextualization phase. For social interactions, most methods mobilized social-related indicators, and two included stakeholder mapping. Two methods clarified the agroecological concept by mobilizing different sets of principles. Two other methods considered temporal dynamics of the transitions, mobilizing a trajectory of change to understand barriers and levers in their development. Finally, seven methods adopted a bottom-up participatory approach, involving stakeholders in both their development and use. To balance the existing trade-offs between the evaluation purpose, the time requirement and the level of participation in the different approaches adopted by the 14 methods studied, we suggest combining some of the approaches in a complementary mode to cover all 5 criteria and therefore improve the assessment of agroecological transitions.

ARTICLE HISTORY
Received 30 December 2022
Accepted 15 March 2023

KEYWORDS
Agroecology; Evaluation;
Tool; Method; Framework



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Abstract

Agricultural and food systems (AFS) are inherently multifunctional, representing a major driver for global crises but at the same time representing a huge potential for addressing multiple challenges simultaneously and contributing systematically to the achievement of sustainable development goals. Current performance metrics for AFS often fail to take this multifunctionality into account, focusing disproportionately on productivity and profitability, thereby excluding "externalities," that is, key environmental and social values created by AFS. Agroecology is increasingly being recognized as a promising approach for AFS sustainability, due to its holistic and transformative nature. This growing interest in and commitment to agroecology by diverse actors implies a need for harmonized approaches to determine when a practice, project, investment, or policy can be considered agroecological, as well as approaches that ensure the multiple economic, environmental, and social values created by AFS are appropriately captured, hence creating a level playing field for comparing agroecology to alternatives. In this contribution to the special issue on agroecology, we present an overview of existing tools and frameworks for defining and measuring agroecology and its performance and critically discuss their limitations. We identify several deficiencies, including a shortage of approaches that allow for measuring agroecology and its performance on landscape and food system scale, and the use of standardized indicators for measuring agroecology integration, despite its context-specificity. These insights highlight the need for assessments focused on these overlooked scales and research on how best to reconcile the need for globally comparable approaches with assessing agroecology in a locally relevant manner. Lastly, we outline ongoing initiatives on behalf of the Agroecology Transformative Partnership that aim to overcome these shortcomings and offer a promising avenue for working toward harmonization of approaches. All readers are invited to contribute to these collaborative efforts in line with the agroecology principle of participation and co-creation of knowledge.

Keywords

Agroecology, assessment frameworks, sustainable agriculture, food systems, transformation

Introduction

The concept of agroecology has evolved considerably over the last century. When the term was coined in the 1930s, it referred mainly to ecological research on agricultural plots or fields. Since the 1960s, through close interaction with agroecology as a way of farming and a growing peasant and political movement, the scope of agroecology has widened to encompass the first agroecosystems, as widely popularized by Gleason and Altieri in the 1980s (e.g. Altieri, 1989; Gleason, 1990), and subsequently agri-food systems in their full complexity (Silió, 2014; Wezel and Soldat, 2009; Wezel et al., 2009).

On the United Nations level, the highly systemic nature of agroecology has been recognized mainly through two seminal publications: (a) The Food and Agricultural Organization (FAO) defines agroecology based on 10 elements as:

the interactions between plants, animals, humans and the environment while taking into consideration the social aspects that need to be addressed for a sustainable and fair food system. (FAO, 2018, p. 1)

and (b) The Committee on World Food Security (CFS) in its high level panel of experts (HLPE) Report (HLPE, 2019) which outlined 11 consolidated principles of agroecology and proposed the following definition in the context of food security and nutrition:

Agroecological approaches foster the use of natural processes, limit the use of purchased inputs, promote closed cycles with minimal negative externalities and stress the importance of

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Email: m.crossland@cgiar.org

An integrated approach that simultaneously applies ecological and social concepts and principles to the design and management of food and agricultural systems. It seeks to optimize

<https://www.giz.de/en/downloads/giz2023-en-measuring-socio-economic-effects-of-agroecology.pdf>

<https://www.tandfonline.com/doi/full/10.1080/14735903.2023.2193028>

<https://journals.sagepub.com/doi/abs/10.1177/00307270231196309?journalCode=oaga>



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Agroecology Transformative Partnership Platform

What does 'Measuring Agroecology' mean? | Français...

Three general ways of looking at the topic:

1. Assessing the degree of agroecological **integration**: Status of integration of 13 principles or 10 elements
2. Assessing the **performance** of agroecology: Status of agroecology's contribution to achieving societal goals
3. Assessing agroecological **transitions**: Tracking of changes in a system and its components over time

Français...

Outlook on Agriculture
Volume 52, Issue 3, September 2023, Pages 349-359
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<https://doi.org/10.1117/00307270231196509>

Sage Journals

Perspectives

Measuring agroecology and its performance: An overview and critical discussion of existing tools and approaches

Tracking agroecological transitions | Français...

1. No ready-made tools or frameworks
2. Can be partially achieved by repeated applications of tools for assessing agroecological **integration** and **performance** over a prolonged time period to see how the status of the system changes over time
3. Need to additionally assess the transition **process** itself rather than just the change in status
4. Important to assess changes in actors' **knowledge, attitudes and behavior**

Français...



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No silver bullets for measuring agroecology | Français...

Agroecology...

- ... is a **holistic** systems approach that operates and creates benefits on multiple scales
- ... emphasizes **context-specificity** and the importance of local and traditional knowledge
- ... values **co-creation** and the integration of different perspectives

Français...

No silver bullets for measuring agroecology | Français...

Key ingredients for holistic assessments

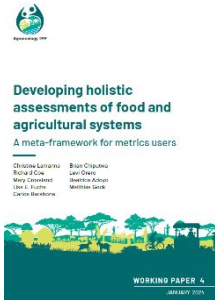
Measures multiple dimensions

Includes multiple perspectives

Captures emergent properties

Reveals complexity, nuance and trade-offs

Français...



Developing your assessment in 10 steps | Français...

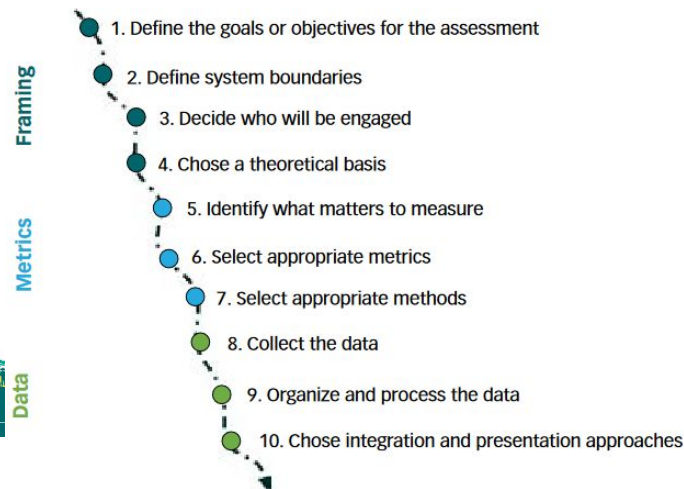


Figure 5. The ten steps for designing a holistic assessment system

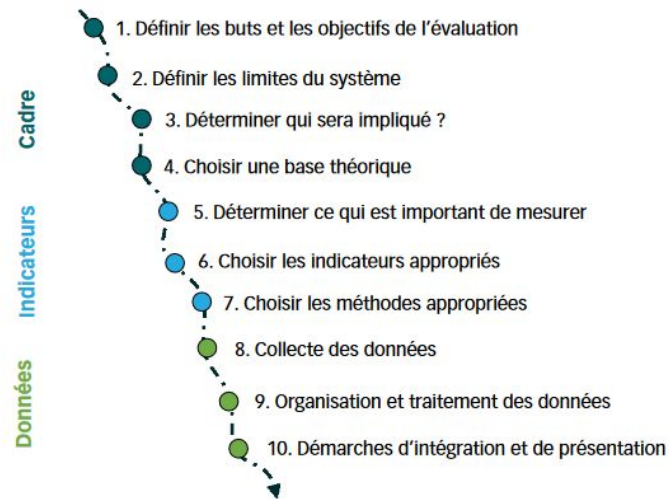


Figure 5. Les dix étapes de conception d'un système d'évaluation holistique

https://www.cifor-icraf.org/knowledge/publication/9081/?utm_source=site-search&utm_medium=cifor-icraf-website&utm_campaign=traffic-source

Measuring what matters to you | Français...

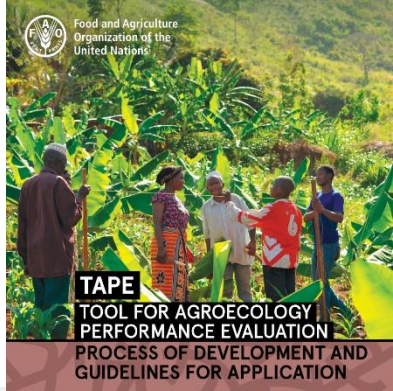
The TRANSITIONS Metrics project offers:

- A comprehensive **review** of over 10'000 metrics for agri-food systems
- A **database** of metrics for diverse dimensions, scales and objectives
- A **framework that guides** diverse metrics users through the journey of identifying or designing the right approach for their purposes
- **Support** to metrics users through workshops and guidance material

Français...

<https://qlfx.globallandscapesforum.org/topics/21467/page/metrics-to-support-agroecological-transitions>

Overcoming barriers through evidence | Français...



Evidence on the multi-dimensional performance of agroecology critical for scaling transitions, as there is widespread skepticism regarding its productivity and profitability.

TAPE applied on 839 farms in Benin, Ethiopia, Kenya and Madagascar in the context of ProSoil/ProSilience.

Français



<https://qlfx.globallandscapesforum.org/topics/21467/page/measuring-agroecology-and-its-performance>



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Overcoming barriers through evidence | Français...

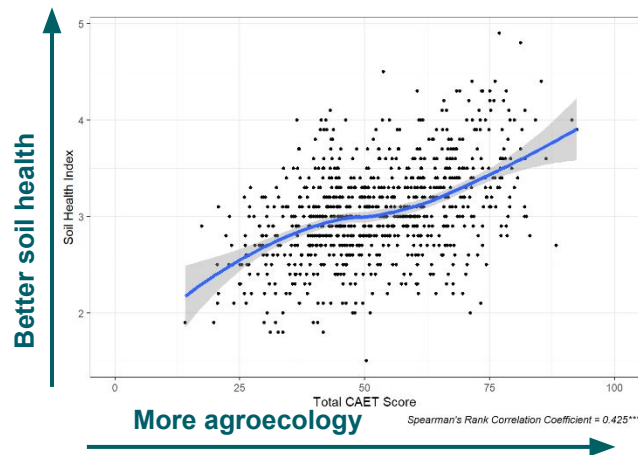
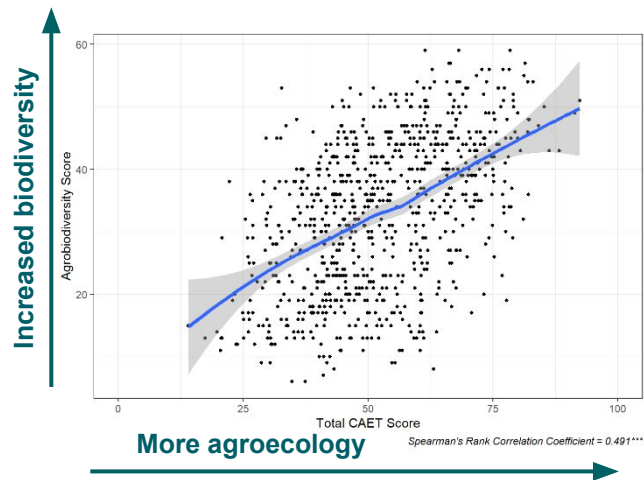


TAPE Step 1 CAET: How agroecological are the assessed farms?

- Project activities significantly fostered agroecological transitions across all ten elements of agroecology
- Allows for correlating 'agroecologicalness' with performance

Français

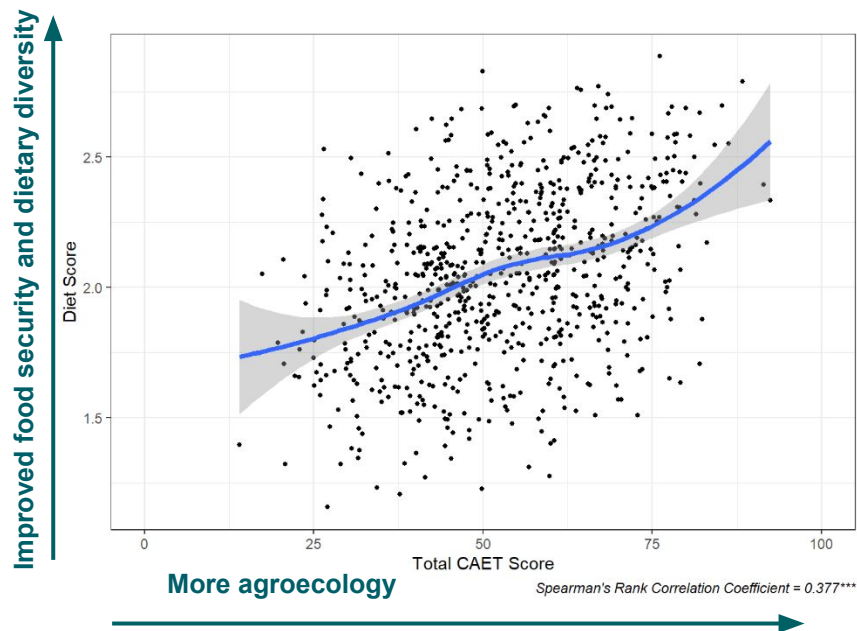
Overcoming barriers through evidence | Français...



Practicing agroecology
results in improved
environmental
performance of farms

Français

Overcoming barriers through evidence | Français...



Practicing agroecology
results in improved food
security and dietary
diversity

Français

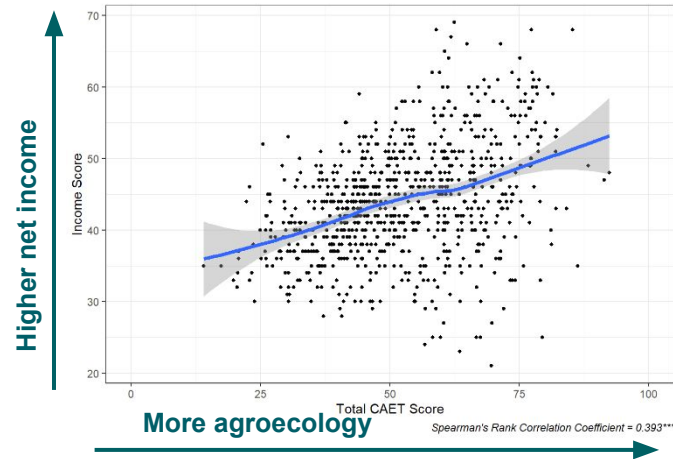
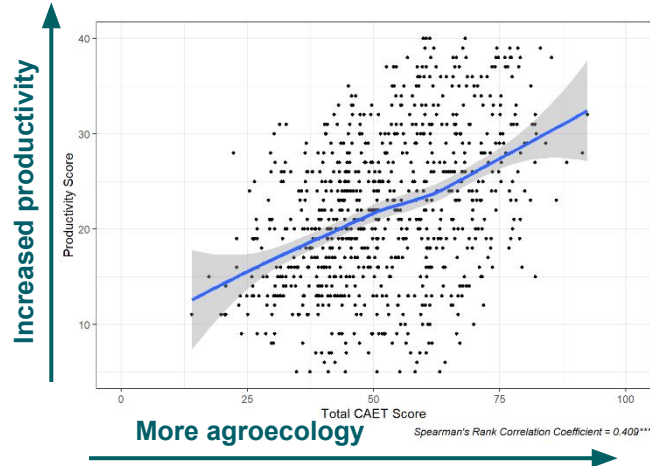
What are the benefits of agroecology? | Français...

Please use the chat or raise your hand to let us know:

What do you think the TAPE results will tell us regarding the economic performance of agroecology? Will **productivity and **income** be lower or higher in more agroecological farms?**

Français...

Overcoming barriers through evidence | Français...



Practicing agroecology
results in increased
productivity of farms and
higher net income for
households

Français



Agroecology TPP

bit.ly/AgEc_TPP

Thank you! Merci beaucoup!

Please reach out at any moment
for engaging further on assessing
agroecology and agri-food
systems holistically:

m.geck@cifor-icraf.org



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