

Metrics for agroecological transition

contribution to panel on: innovation policies and policy innovation



Fergus Sinclair

Professor of Agroforestry, School of Environmental and Natural Sciences,
Bangor University, UK

Co-convenor Agroecology Transformative Partnership Platform (TPP), Nairobi, Kenya
based on material provided by the TPP metrics group – see slide five

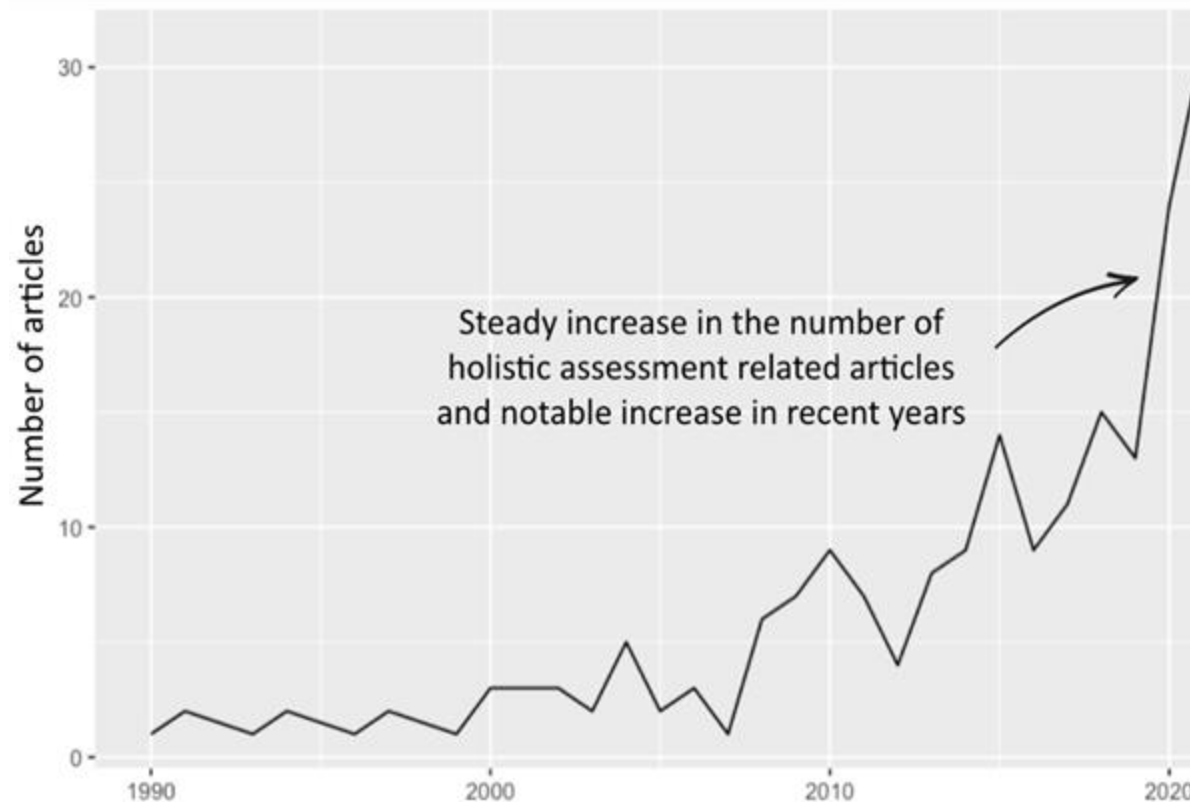


METRICS, METRICS EVERYWHERE...

3,225 articles screened

206 holistic assessments evaluated

Over **6000+** metrics identified

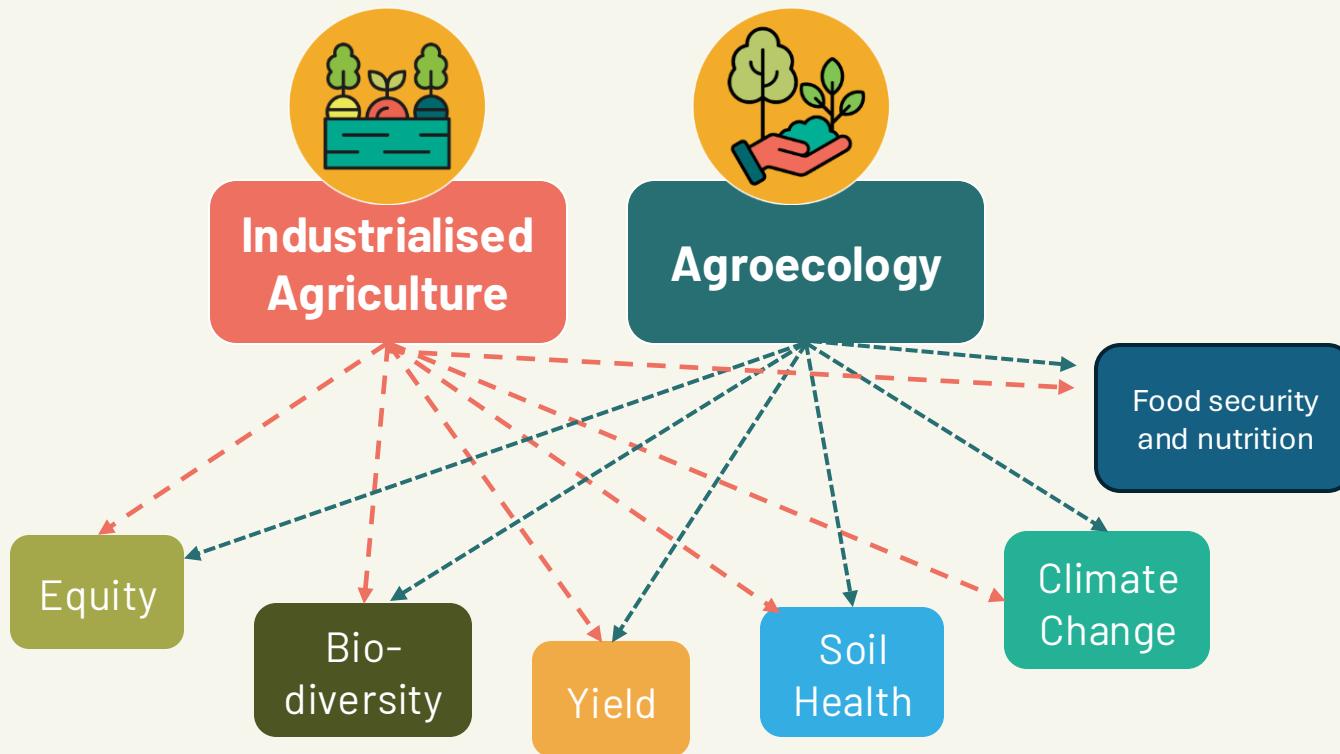


- All look at **multiple dimensions** (environment, social, economic)
- Most assessments **focus on farm scale**; few look at the project or food system scale
- **Rarely involve stakeholders from the start**. Instead, elicit feedback once metrics have been decided.
- **Few assessments looked at interactions**. Many use **composite indexes and radar charts**.
- More are **one-off snapshots**, few look at changes over time.

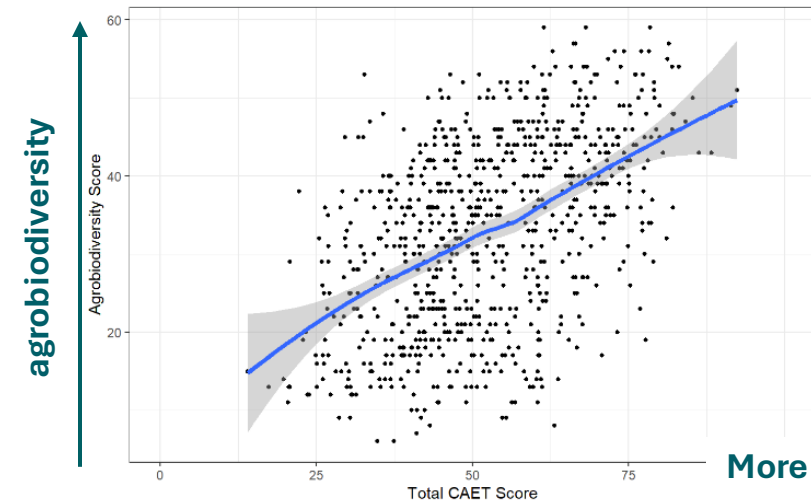
By developing holistic metrics that **account for multiple impacts**, we can create a level playing field for agroecological approaches and enable sustainable transitions

Four requirements for holistic assessment

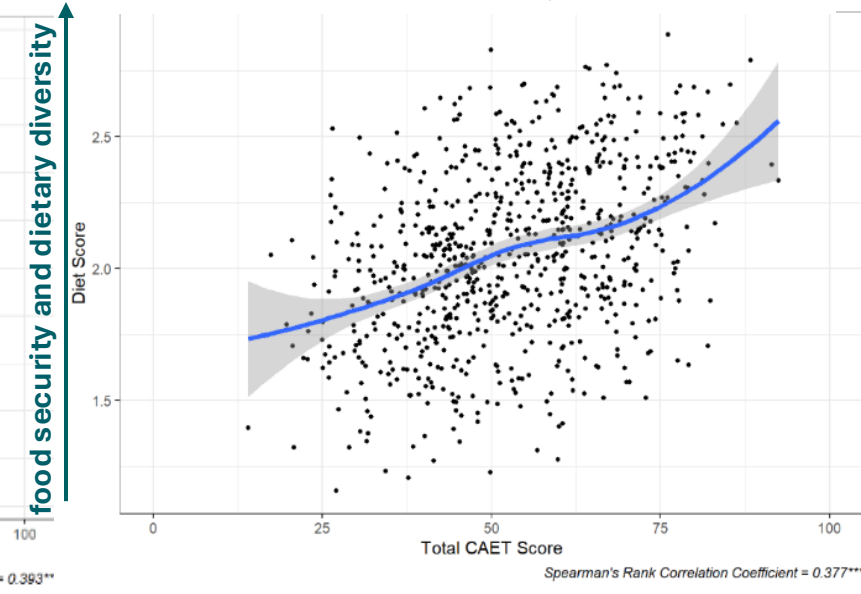
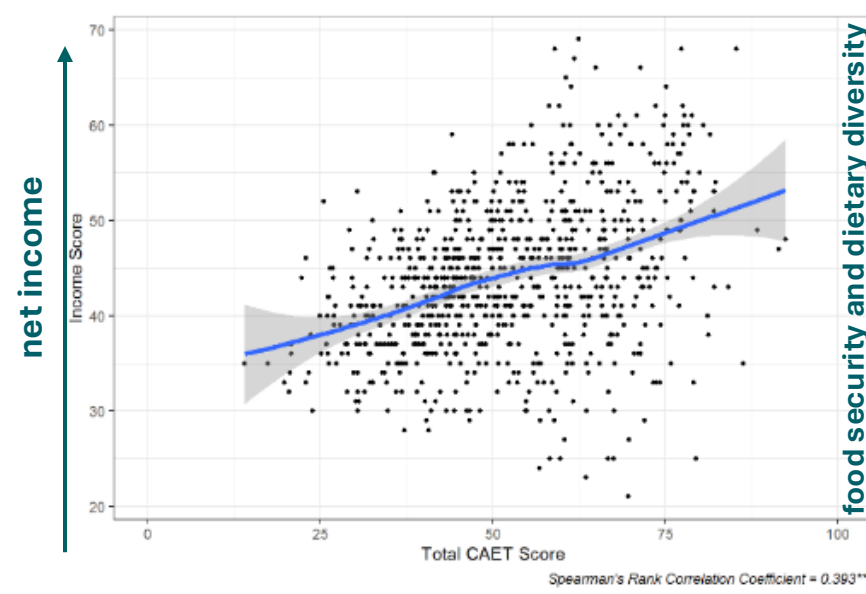
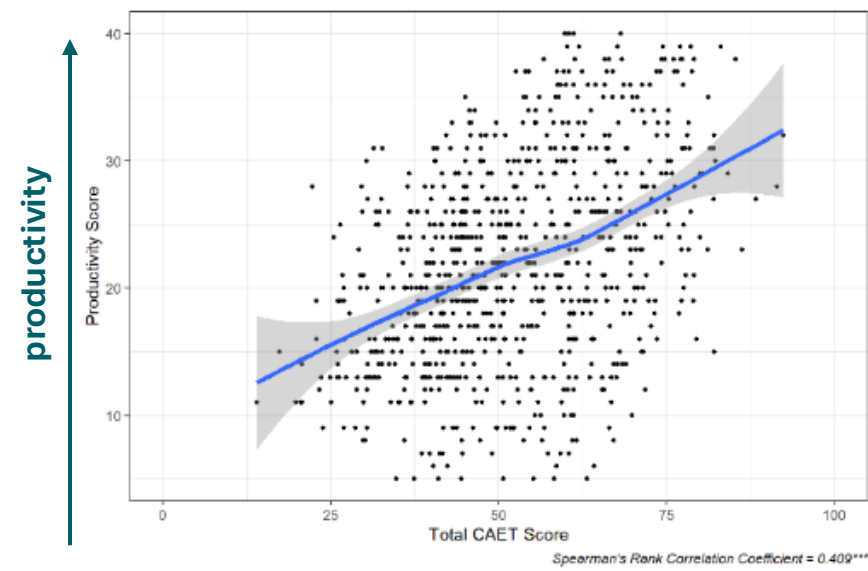
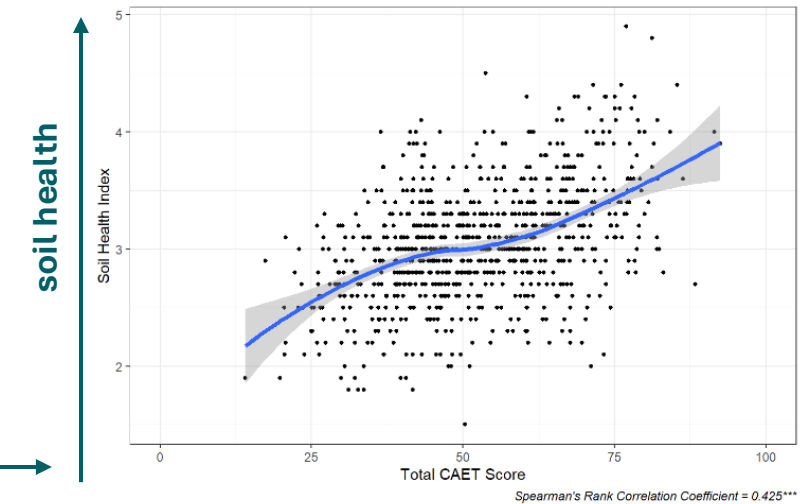
- **Multiple dimensions**
At least some economic, social & environmental aspects
- **Multiple Perspectives**
Multiple views of the system
- **Synergies and Trade-offs**
Allows analysis of synergies and trade-offs **through time**
- **Emergent Properties**
Includes assessment of emergent properties such as sustainability, equity and resilience



Agroecology status correlates positively with both productivity, income and environment



- TAPE + LDSF applied on 839 farms in Benin, Ethiopia, Kenya, and Madagascar



The Meta-framework

Build your own holistic assessment!



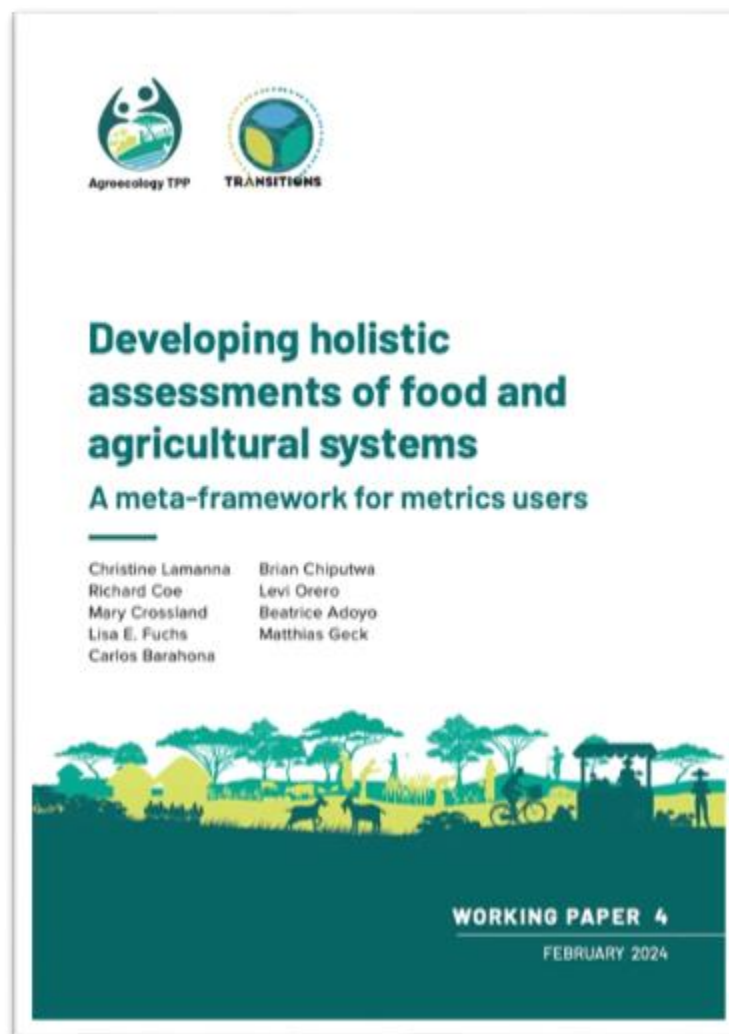
Funded by
the European Union



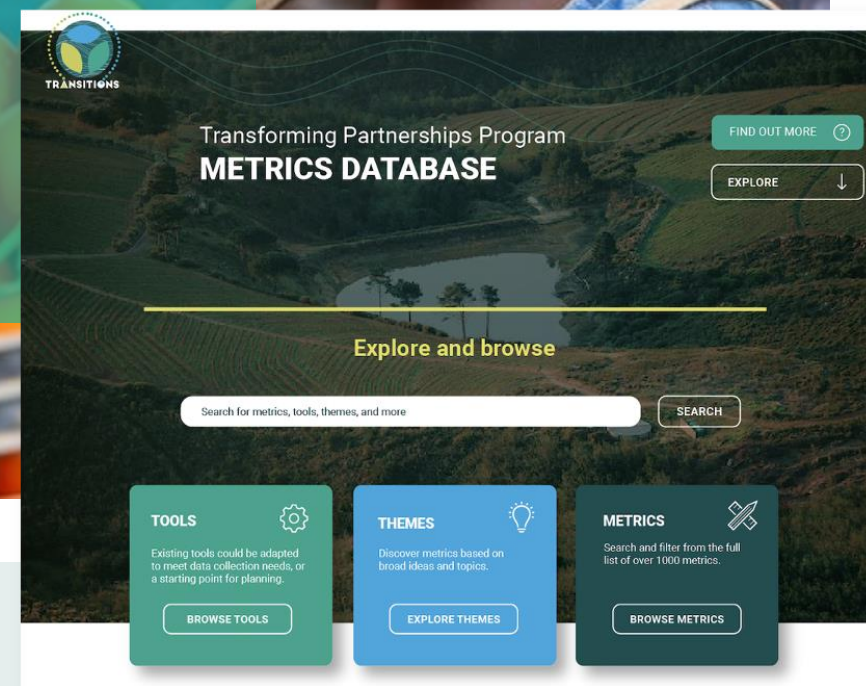
Investing in rural people



The Agroecology TPP
DIALOGUES



View and
download the
Meta-framework
here!



- [Meta-framework link](#)
- [Database teaser link](#)

Three take away messages from the DeSira connect days for Asia and the Pacific

1. Embed projects in an **inclusive, multi-scale** (regional-national-sub-national-local), **cross-sector** (agriculture, environment, energy, finance) governance mechanism. This needs to involve public and private sectors, farmer organisations and civil society (including all food system actors from producers to consumers). Where such nested-scale mechanisms do not exist or are not functioning well enough to provide coherence amongst projects and continuity beyond project cycles then establishing the mechanism should be a priority and a prerequisite of project funding. (Step 5 of the five step framework for food system transformation).
2. Communicate simply about complexity – break messages down and bundle actions into manageable chunks that are palatable without over-simplification of whole food systems (e.g. use the five step framework to boil down the 13 agroecological principles into a more tractable process).
3. This region (Asia and the Pacific) rocks with respect to agroecology from regional (ASEAN) guidelines, through national commitments and innovation to local action. It can be a beacon for the world, leading the way towards agroecological transitions.

