



Agroecology TPP

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# Metrics

Measuring what matters to support agroecological TRANSITIONS

12 March 2024



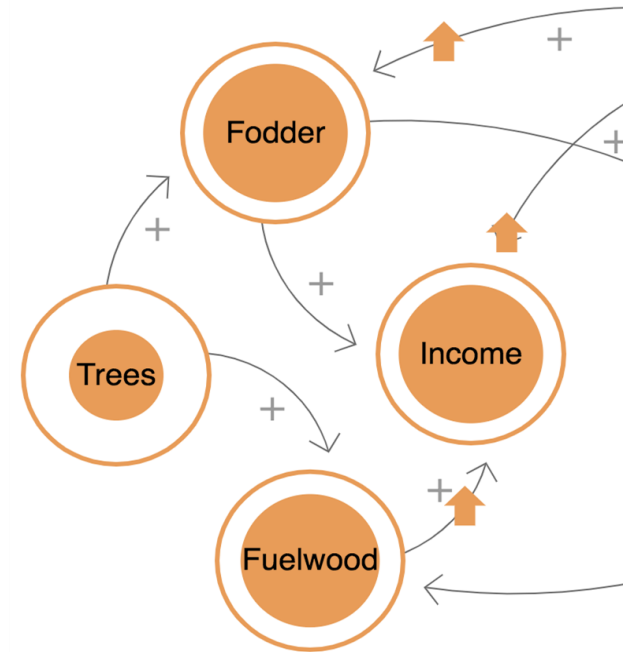
# Levelling the playing field

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!**

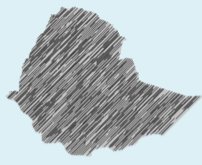


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Partnerships



Kenya



Ethiopia



Ghana



Burkina  
Faso



India



Viet  
Nam



Peru



Brazil

Component 1: Holistic Metrics  
Development

Component 2: Testing and  
evaluation of metrics

Component 3:  
Supporting Uptake

Activities

1.1  
Mapping  
& Review

1.2  
Framework  
Development

2.2 / 2.3  
Assessment  
& Analysis

2.1 Field  
Testing

1.3 / 2.4  
Candidate  
Metrics

3.2  
Global  
Approach

3.3 Policy  
Engagement  
Fora

Outputs

O1: Review of  
existing  
approches for  
assessing food  
systems

O2: Framework  
for holistic  
performance  
assessment

O4 & O5:  
Comparative  
analysis of  
metrics

O3 & O6:  
Database of  
holistic metrics

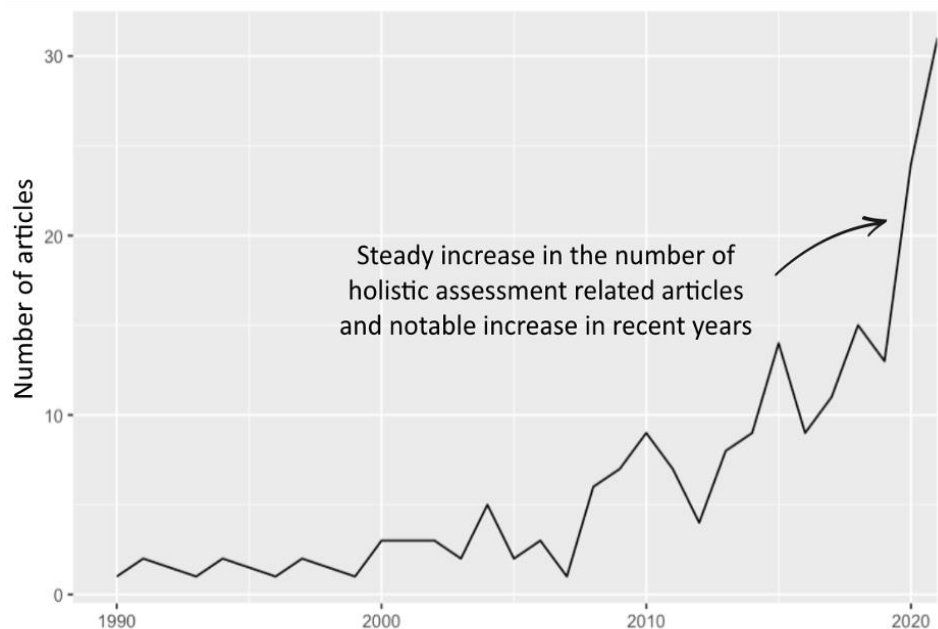
O7: Protocols &  
Field guides for  
collecting  
holistic metrics

O8: Guidelines  
for developing  
holistic  
monitoring  
systems

O9: Policy  
Briefs on use of  
holistic metrics  
for goals

# Review of approaches and metrics for assessing agri-food systems

8,740 articles screened, 330 holistic assessments evaluated, >10,000 metrics catalogued



- All look at **multiple dimensions** (environment, social, economic)
- Most assessments **focus on the 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**.
- Most are **one-off snapshots**, few look at changes over time.



## Developing holistic assessments of food and agricultural systems

A meta-framework for metrics users

Christine Lamanna  
Richard Coe  
Mary Crossland  
Lisa E. Fuchs  
Carlos Barahona

Brian Chiputwa  
Levi Orero  
Beatrice Adoyo  
Matthias Geck



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## Key ingredients for holistic assessment

Measures multiple dimensions

Includes multiple perspectives

Captures emergent properties

Reveals complexity, nuance and trade-offs

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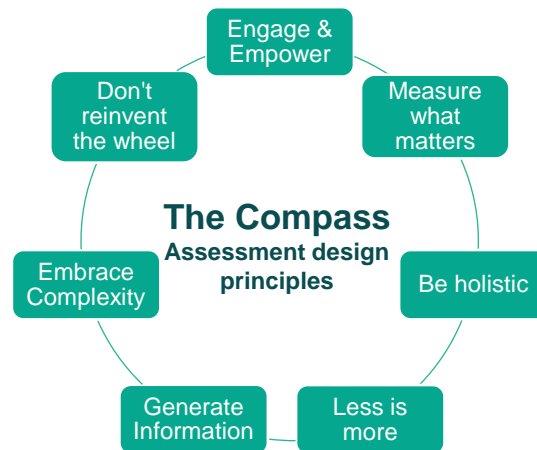


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## The Destination

*Holistic assessment of agri-food systems*

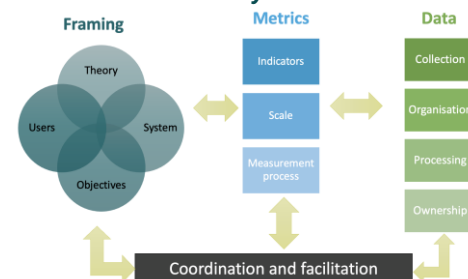


## The Path

*Steps to take to design an assessment system*

## The Landscape

*Assessment system elements*



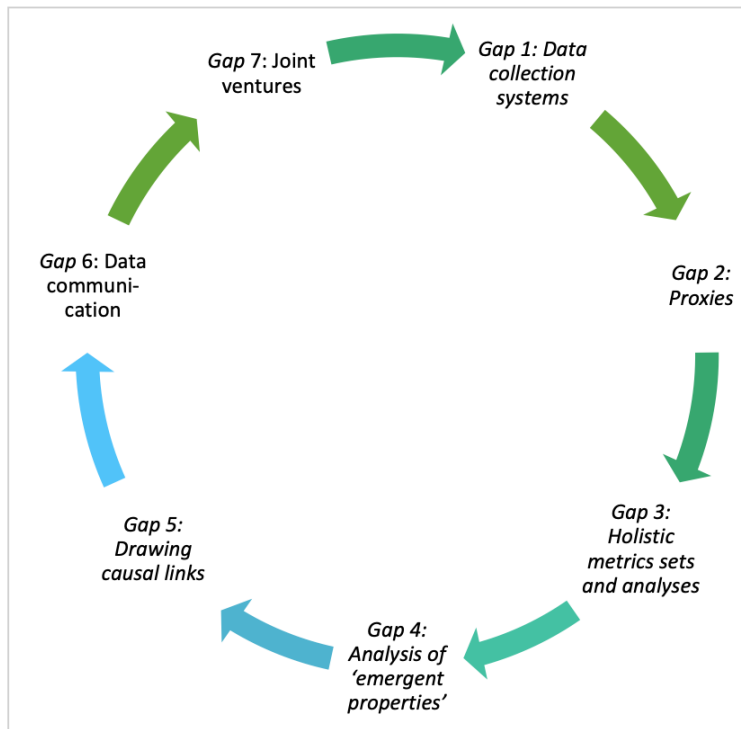
# Stakeholder engagement to identify current metrics uses, critical gaps, and entry points for co-design and adoption of holistic metrics



## TRANSITIONS Metrics Stakeholder Engagement

Key informant interviews with stakeholders in five regions  
Data report, thematic analysis, and emerging patterns

Lisa Elena Fuchs  
December 2023



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Individual Projects

"Better metrics and contribution of analysis skills for individual projects"

Portfolio Performance

"Better outcome metrics to allow aggregate view at large project or portfolio performance"

Food System Domains

"Better metrics and analysis skills to monitor various food system domains"

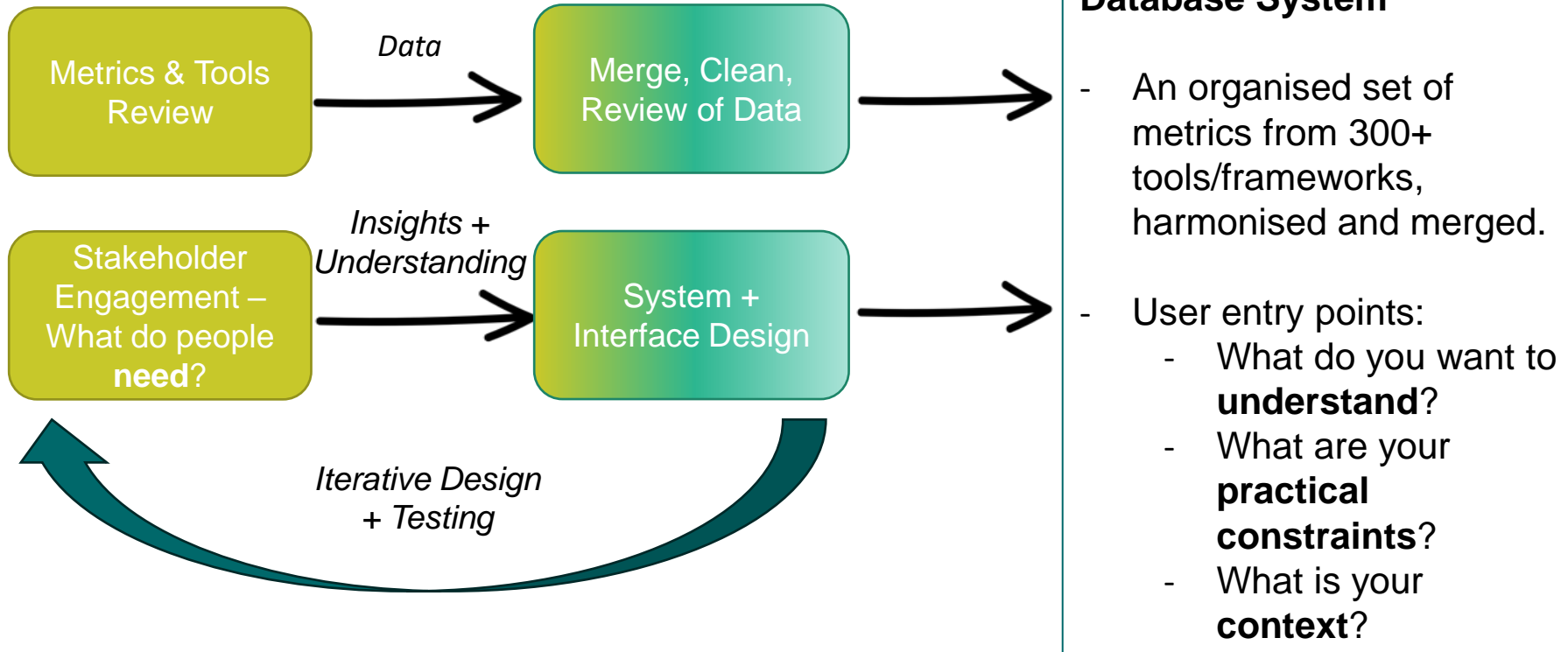


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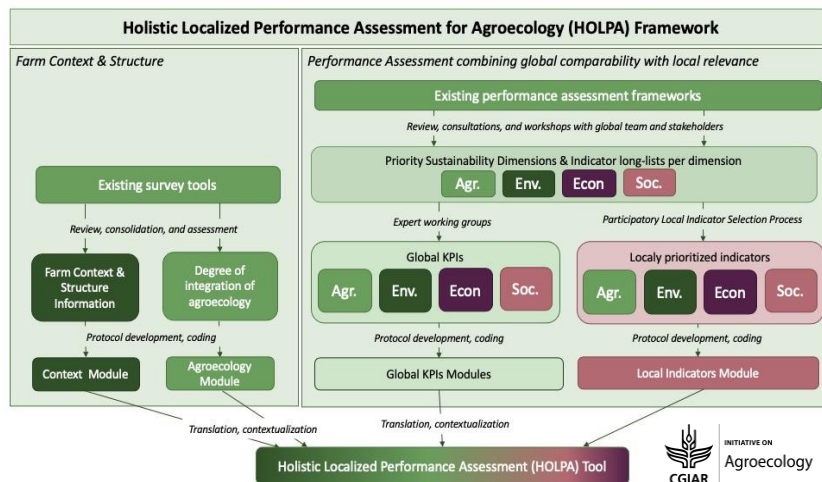
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# User-focused database of holistic metrics



# The Metrics Domain of the TPP



Sage Journals

Outlook on Agriculture  
Volume 52, Issue 3, September 2023, Pages 349-359  
© The Author(s) 2023, Article Reuse Guidelines  
<https://doi.org/10.1177/00307270231196309>

## Perspectives

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



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>



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## Thank you! Asanteni sana!

Mary Crossland, Levi Orero, Christine Lamanna, Ric Coe, Lisa Fuchs, Beatrice Adoyo, Sandhya Kumar, Dave Mills, Carlos Barahona, Anne Kuria, Edith Anyango, Victor Mutugi, Brian Chiputwa, Swati Renduchintala, Endalkachew Woldemeskel, Quang Tan Nguyen, Mai Phuong Nguyen, Fergus Sinclair, Sasha Mentz, Rodrigo Cianella, Darja Levina, Fabio Ricci, Anne Omollo, Nelly Orwaya, Viviane Filippi, Amine Belhamissi, Marion Michaud, and many more

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Stats4SD

