



The Economics of Ecosystems and Biodiversity TEEB for Agriculture & Food Global Symposium, February 2019

**From analysis to action: pilot-testing the Framework and building a
community of practice**

Lauren Baker

26 February 2019, Nairobi

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



The Economics
of Ecosystems
& Biodiversity

Image credit: Anup Deodar

teebweb.org

based on a decision of the German Bundestag



ABOUT THE GLOBAL ALLIANCE

teebweb.org



THE GLOBAL ALLIANCE FOR THE FUTURE OF FOOD IS A STRATEGIC ALLIANCE OF PHILANTHROPIC FOUNDATIONS WORKING TOGETHER AND WITH OTHERS TO TRANSFORM GLOBAL FOOD SYSTEMS NOW AND FOR FUTURE GENERATIONS.

OUR MEMBERS

Agropolis Fondation
Azim Premji Philanthropic Initiatives
Barilla Center for Food & Nutrition
Cariplo Fondazione
Christensen Fund
Clarence E. Heller Charitable Foundation
Crown Family Philanthropies
Daniel et Nina Carasso Fondation
David and Lucile Packard Foundation
Gordon and Betty Moore Foundation
GRACE Communications Foundation

Heinrich Böll Stiftung
J.W. McConnell Family Foundation
McKnight Foundation
New Field Foundation
Oak Foundation
Owsley Brown II Charitable Foundation
Rockefeller Foundation
Swift Foundation
Thread Fund
Tudor Trust
V. Kann Rasmussen Foundation
W.K. Kellogg Foundation

teebweb.org



23 foundations with both longstanding and new-found commitments to food-systems change addressing issues related to global food and agriculture at different scales, on diverse issues, and from a multitude of perspectives

- Promote agricultural sciences research
- Partner with rural women's organizations to create change that benefits families, communities, regions
- Improve access to local, sustainable, nutritious food using collaborative research and knowledge sharing
- Address root causes of climate change
- Increase public awareness of issues created by our current industrial food system
- Protect critical ecosystems
- Back the stewards of cultural and biological diversity
- Expand access to affordable, quality health care for the underserved

teebweb.org



OUR VISION

Healthy, equitable, renewable, resilient,
and culturally diverse food and
agriculture systems shaped by people,
communities, and their institutions

teebweb.org



OUR MISSION

To leverage our resources and networks to help transform food systems towards greater sustainability, security, and equity.

teebweb.org



PRINCIPLES-BASED OUR PRINCIPLES



RENEWABILITY

Address the integrity of natural and social resources that are the foundation of a healthy planet and future generations in the face of changing global and local demands



DIVERSITY

Value our rich and diverse agricultural, ecological, and cultural heritage



HEALTHFULNESS

Advance the health and well-being of people, animals, and the environment, and the societies that depend on all three

GLOBAL ALLIANCE FOOD SYSTEMS PRINCIPLES

RESILIENCE

Support regenerative, durable, and economically adaptive systems in the face of a changing planet



EQUITY

Promote sustainable livelihoods and access to nutritious and just food systems



INTERCONNECTEDNESS

Understand the implications of the interdependence of food, people, and the planet in a transition to more sustainable food and agricultural systems



IMPACT AREAS



Accelerate the transition to agroecology as a core solution to the future of food by strengthening the practice and voice of civil society movements, farmers, researchers, governments, and the private sector, and upholding the integrity of natural systems and the human right to food.



Amplify the fundamental role that food systems play in creating health and well-being in all ecosystems, human and non-human communities, making the impact of food systems on health and well-being more visible.



Reduce food systems-related emissions by transforming how we grow, transport, process, package, distribute, consume and dispose of food, and recognizing the interrelationship between health, food security, climate adaptation and mitigation, land rights and human rights goals.

teebweb.org



IMPACT AREAS



Make visible the full costs of food by investing in efforts to identify, measure, and value the positive and negative environmental, social, and health externalities of food and agricultural systems, and to deploy innovative strategies to affect associated policy and market change.



IMPACT AREAS



Through our work on True Cost Accounting (TCA), we aim to see:

- TCA established as a scientifically validated approach that informs policy and practice toward healthy and sustainable food systems amongst governments, farmers, corporations, the finance and investment community, and other relevant stakeholders.
- A robust global dialogue on the importance and potential of TCA for food systems that strengthens TCA's systemic approach (including climate, health, agroecology), and the utilization of shared frameworks and tools to inform decision-making.
- TEEBAgriFood actively applied to business analyses, dietary comparisons, farm typologies, policy analyses, and national or corporate accounting, informing and informed by the broader TCA work of Global Alliance member foundations.

teebweb.org



MEASURING WHAT MATTERS IN AGRICULTURE AND FOOD SYSTEMS

*A synthesis of the results and recommendations
of TEEB for Agriculture and Food's
Scientific and Economic Foundations Report*



“

THE WORLD AS WE
HAVE CREATED IT
IS A PROCESS OF
OUR THINKING. IT
CANNOT BE CHANGED
WITHOUT CHANGING
OUR THINKING. ”

-ALBERT EINSTEIN



15

teebweb.org



TEEBAGRIFOOD FEEDER STUDY

TRUE COST OF MAIZE IN MEXICO

As part of the original TEEBAgriFood “feeder studies,” The Christensen Fund supported CONABIO (Comisión Nacional para el Conocimiento y Uso de la Biodiversidad) in a comprehensive study of the true cost of maize in Mexico. Recognizing maize as indispensable to the future of the country’s food system and inextricably entwined with national and Indigenous identities, CONABIO sought to make explicit the web of social, cultural, and environmental factors that influence a robust economic system for maize production and consumption. CONABIO’s work highlighted the inputs and impacts of chemically reliant production systems, noting the critical potential for growth in agroecology systems in Mexico, with implications for production systems throughout the Americas.



TRUE COST ACCOUNTING COMMUNITY OF PRACTICE

The Global Alliance initiated a True Cost Accounting Community of Practice with some of the leading TCA practitioners in the field, including individuals working with smallholder farmers in Africa and Latin America, to ensure relevance of TCA for smallholder farmers to: 1) encourage networking, learning, and collective action; 2) engage in deeper explorations of various methodologies and applications; and 3) identify tools for implementation of TCA in food systems, including pricing, policy change, and on-farm decision-making.

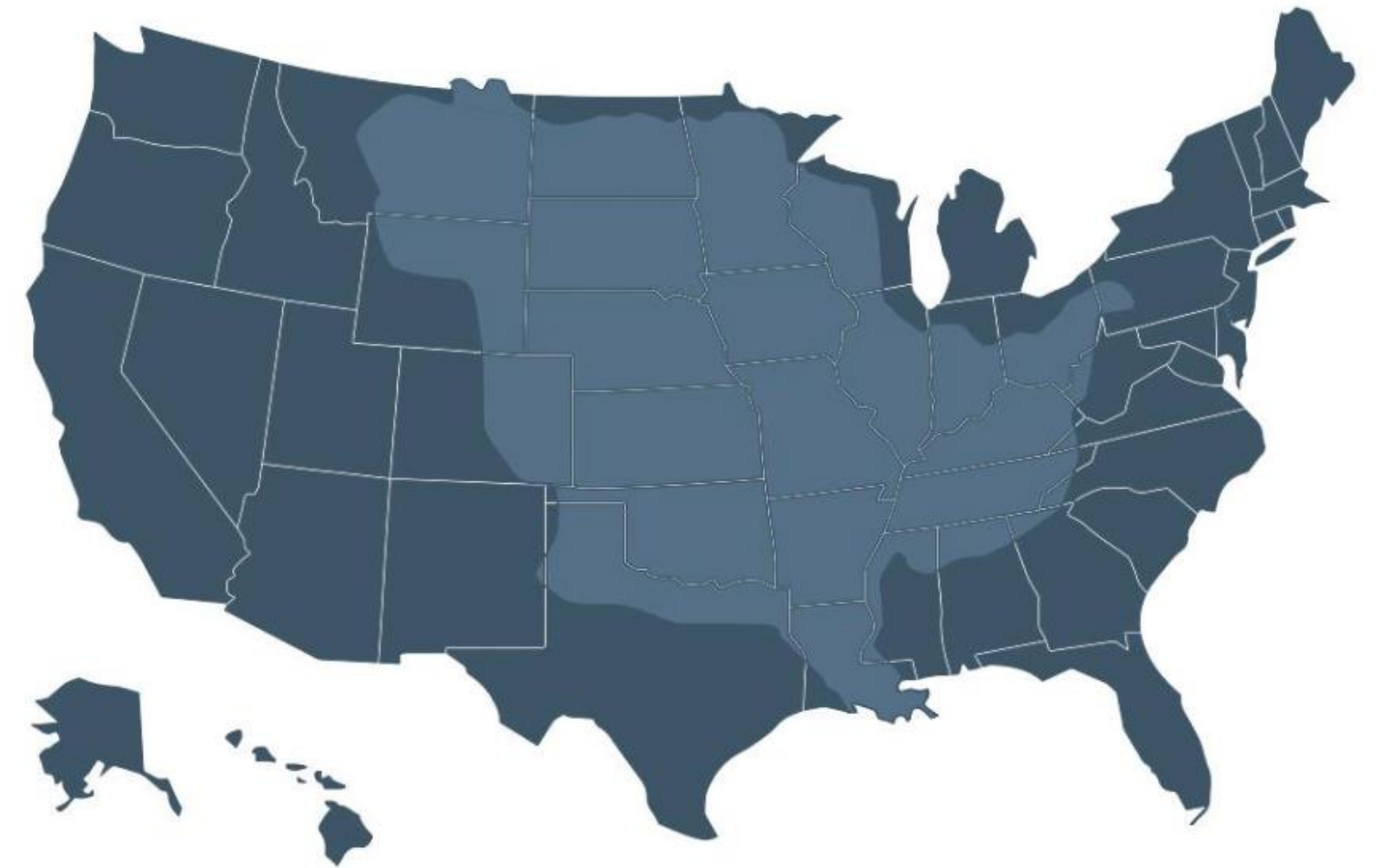
teebweb.org



TEEBAGRIFOOD APPLICATIONS

CORN SYSTEMS IN MISSISSIPPI BASIN

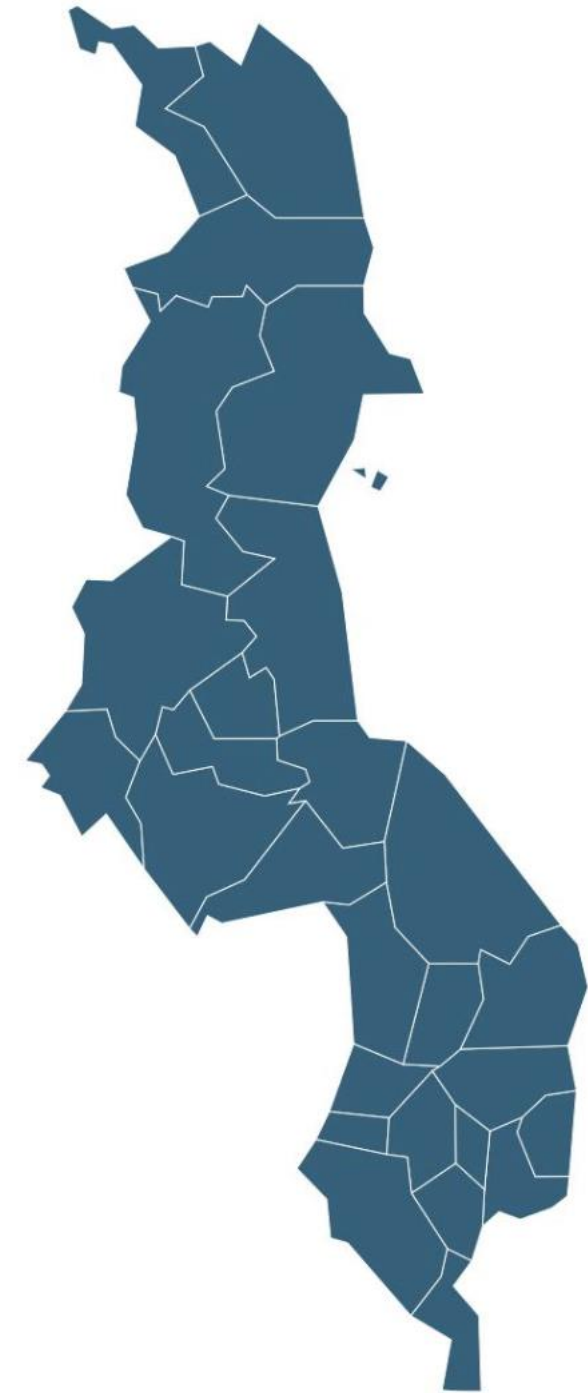
To contrast two or three different corn systems (i.e. conventional, sustainable and diversified/agroecological, or niche market producers) in the Mississippi Basin, USA where corn is a dominant commodity in the region with significant environmental, health, social and cultural externalities, incentivized by agricultural policy and subsidies, to reveal opportunities for shifting practices, policies, and subsidies to improve outcomes across the value chain from production to consumption.



TEEBAGRIFOOD APPLICATIONS

MAIZE IN MALAWI

In Malawi, international development policymakers and practitioners have tied most Malawian development outcomes to improving the production and marketing efficiency of the maize-centric eco-agri-food system. Food security programming is heavily shaped by the assumption that maize must occupy a central role in the cropping system. Decision makers lack documentation of the visible and invisible, but significant, ecological, economic, social and cultural benefits and costs of the Malawian maize-centric food system. Michigan State University, supported by the Global Alliance, is carrying out a holistic true-cost analysis of the maize food system in Malawi to shed light not only on monetized costs and benefits inherent in this system, but also the environmental, health, and social externalities. This research will provide a more complete accounting of a maize-based eco-agri-food system in Malawi and situate the findings in relation to present and future possibilities for the country.



TRUE COST ACCOUNTING: WHAT'S NEXT

TCA ACCELERATOR

TEEBAGRIFOOD APPLICATIONS TO BUILD THE EVIDENCE BASE FOR AGROECOLOGY

TEEBAGRIFOOD APPLICATIONS TO ENCOURAGE FOOD SYSTEMS REFORM VIA GLOBAL POLICY PROCESSES

teebweb.org



A close-up photograph of a person's hands, adorned with a gold bangle, holding two small black plastic pots containing young green plants. The background is a blurred field of reddish-brown soil. A semi-transparent blue rectangle is overlaid on the left side of the image, containing white text.

GLOBAL ALLIANCE FOR THE FUTURE OF FOOD

Lauren Baker
lauren@futureoffood.org



[@futureoffoodorg](https://twitter.com/futureoffoodorg)
futureoffood.org

teebweb.org