

# Sustainable research: global initiatives to reproducibility and transparency in social sciences

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IAEMS – The Future of Entrepreneurship and Sustainable Development in Light of Global Challenges

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Initiatives

**1** NO  
POVERTY



**2** NO  
HUNGER



**3** GOOD  
HEALTH



**4** QUALITY  
EDUCATION



**5** GENDER  
EQUALITY



**6** CLEAN WATER  
AND SANITATION



**7** CLEAN  
ENERGY



**8** GOOD JOBS AND  
ECONOMIC GROWTH



**9** INNOVATION AND  
INFRASTRUCTURE



**10** REDUCED  
INEQUALITIES



**11** SUSTAINABLE CITIES  
AND COMMUNITIES



**12** RESPONSIBLE  
CONSUMPTION



**13** PROTECT THE  
PLANET



**14** LIFE BELOW  
WATER



**15** LIFE  
ON LAND



**16** PEACE AND  
JUSTICE



**17** PARTNERSHIPS  
FOR THE GOALS



THE GLOBAL GOALS

The Sustainable Development Goals (SDGs) – UN 2015.

The 17 SDGs are integrated—they recognize that action in one area will affect outcomes in others, and that development must balance social, economic and environmental sustainability.

- Access to international financing vs restricted funding/prioritizing projects addressing SDGs

The creativity, knowhow, technology and financial resources from all of society is necessary to achieve the SDGs in every context.

Research influences and is influenced by all aspects targeted by the SDGs

- make research sustainable
- not just making sustainability-related research.
  - Access to reputable publishing and funding agencies

## Sustainable research

- Data management – input
- Resource management – process funding
- Reproducibility - output

This is achieved through transparency and openness

## Why do we need transparency and openness?

- Accountability
- Collaboration
- Ethical considerations
- Public trust
- Data management and sharing
- Methods improvement
- Reproducibility and replication

## **The Transparency and Openness Promotion (TOP) Guidelines**

Center for Open Science (COS) – developed 8 guidelines in 2015

### **Publishing and Funding**

The TOP Guidelines cover aspects such as data citation, data transparency, design and analysis, preregistration, and replication.

Journals and fundings agencies adopt these guidelines to promote open science practices and enhance the transparency and reproducibility of research.

## **The Transparent Interpretation of Empirical Research (Project TIER)**

Spearheaded by Haverford College

Project TIER provides researchers with concrete detailed guidelines and tools to ensure that their research is conducted and reported in a transparent and reproducible manner.

By emphasizing open data, code, and materials, Project TIER facilitates the replication and verification of research findings, thereby enhancing the credibility of social sciences research.

Project TIER is supported by a grant from the Alfred P. Sloan Foundation.

It provides support to research projects through workshops, training sessions, and collaborative efforts.

## **The Berkeley Initiative for Transparency in the Social Sciences (BITSS) program**

Based at UC, Berkeley

It is a comprehensive program dedicated to promoting transparency, openness, and reproducibility in social sciences research.

BITSS offers a range of resources and support mechanisms to researchers interested in adopting transparent research practices.

The support provided includes workshops, online courses, research grants, project funding, and methodological guidance .



## Transparent Reporting

comprehensive and clear descriptions of research methods, procedures, and findings

detailed documentation of data collection techniques, measurement instruments, and analytical procedures to ensure that others can understand and replicate the study

- OSF
- Github
- etc...

## Open Data

- Copyrights

## Open Code

## Open material

## Version Control and Documentation

maintaining clear records of changes made to data, code, and other research materials, as well as documentation of any decisions or modifications made during the course of the study

## Replication and Verification

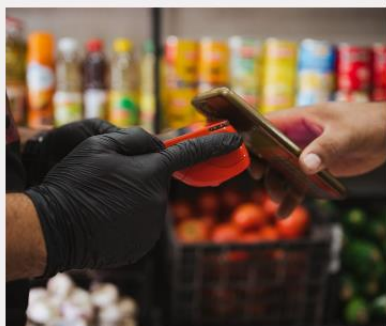
active collaboration for reproducibility and making research sustainable

## Center for Development Global Action (CEGA)

evidence should inform decisions about how development funding is spent

funding actionable research that can be used by policymakers to improve lives in 61 countries

Examples ...



FINANCIAL INCLUSION

### The Impact of Price Comparison Tools in Consumer Credit Markets

SEAN HIGGINS | CHILE

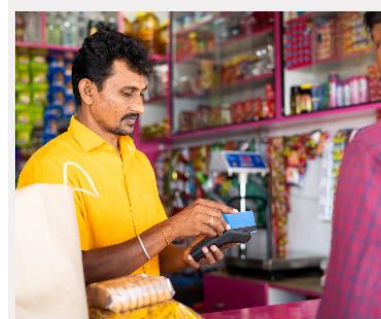


GLOBAL NETWORKS

WORK & EDUCATION

### Marketing Skills Training and Youth Entrepreneurship in Tanzania

JAAH MKUPETE | TANZANIA



FINANCIAL INCLUSION

### Data Privacy Practices and Policies for Digital Credit Services

SAROJ KOUL | INDIA

## Examples ...



TRANSPARENCY

### Healthy Diets Costing Study (Lishe Bora)

ELIZABETH BROWN | TANZANIA



GLOBAL NETWORKS

### Reducing Risk Factors for Type II Diabetes in Ghana

FAUSTINA TWUMWAA GYIMAH | GHANA



HEALTH & PSYCHOLOGY

### Knowledge Hoarding and Diffusion of Profitable Technologies

LUISA CEFALA | BURUNDI

## Implications:

Investments in evidence generation and actionable projects

Capacity building

Policy outreach

## Implications:

\$45M competitively awarded research grants since 2008

Fields of the research projects:



AGRICULTURE



ENERGY &  
ENVIRONMENT



FINANCIAL  
INCLUSION



GOVERNANCE &  
CONFLICT



HEALTH &  
PSYCHOLOGY



TECHNOLOGY



EDUCATION  
& LABOR

# Thank you



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