

Tewodros Assefa and Seifu Tilahun

ENSURING THE CAPACITY

to sustain water for
agriculture & resilience

knowledge-sharing workshop on small-scale irrigation: The case of Bahir Dar University

25 May 2023, Addis Ababa, Ethiopia



INITIATIVE ON
West and Central African
Food Systems Transformation

IWMI
International Water
Management Institute



Approach: Multi-level Capacity Building

- Improving innovation ecosystem
- Long-term trainings
- Short-term trainings
- Field trainings



IMPROVING THE
INNOVATION
ECOSYSTEM AT

BiT MAKERSPACE

A common space where
ideas, equipment, and
knowledge are shared

- building scientific skills and application in the private and public sectors
- supporting entrepreneurship
- developing relevant skills for industry

Hackathon Process



Register Here
<http://bit.ly/SSIHackathon>

Scan Me 

AGRI-TECH HACKATHON 2022

Registration Ends on **March 03**

Challenges
Integrated Mobile and Web-based applications for:

- Digital Marketing and Sales Tracking
- Agri Inventory Management System
- Maintenance Management System

Read the Eligibility Criteria on the Google Form carefully.

    



Innovation call for demand-driven challenges

Orientation

HCD Training

Hackathon Process



Field visits

Ideation

Hackathon Process



Pitching

Incubation & prototyping

Internship

AgriTech Hackathon

2021, 2022, & 2023



HACKATHON OUTCOMES

➤ Rensys Engineering posed six challenges

- HCD training and pitching: >75 students
- Internship: 13 students

➤ Developed ICT systems for Rensys to expand sales of solar pump

- Client assessment tool
- Digital marketing and sales application
- Market linkage and cold room management system
- Mobile and web-based maintenance management system
- **Small-scale dairy processing for rural cooperatives**



BIT MAKERSPACE OUTCOMES

6

IP Applied



8

Startup
Business
Plan



1

International
Recognition



5

National
Awards



3

International
Competition
Awards



SUPPORTING THE SCIENTIFIC TRAINING OF GRAD STUDENTS

LONG-TERM TRAINING

- Irrigation management & engineering program
- Graduate students:
4 PhD,
>24 MSc



SUPPORTING THE SCIENTIFIC TRAINING OF GRAD STUDENTS

LONG-TERM TRAINING

- Irrigation management & engineering program
- Graduate students: 4 PhD, >24 MSc

METHODS FOR RESEARCH, ANALYSIS, AND PLANNING

- IDSS SWAT, APEX, FARMSIM Decision support tools and analysis: 6 academic staff
- Surveys
- Field/action research
- Data collection

Ethiopia
Ghana
Rwanda



Delivering IDSS training

SUPPORTING THE SCIENTIFIC TRAINING OF GRAD STUDENTS

LONG-TERM TRAINING	METHODS FOR RESEARCH, ANALYSIS, AND PLANNING	THEMATIC TRAINING
<ul style="list-style-type: none">→ Irrigation management & engineering program→ Graduate students: 4 PhD, >24 MSc	<ul style="list-style-type: none">→ IDSS SWAT, APEX, FARMSIM Decision support tools and analysis: 6 academic staff→ Surveys→ Field/action research→ Data collection	<ul style="list-style-type: none">→ Agricultural Water Management→ Water quality assessment→ Conservation agriculture→ Shallow groundwater assessment for SSI



SUPPORTING THE SCIENTIFIC TRAINING OF GRAD STUDENTS

FARMERS, RESEARCHERS, & OTHERS

LONG-TERM TRAINING	METHODS FOR RESEARCH, ANALYSIS, AND PLANNING	THEMATIC TRAINING	MULTIPLE LEVELS IN-FIELD
<ul style="list-style-type: none"> → Irrigation management & engineering program → Graduate students: 4 PhD, >24 MSc 	<ul style="list-style-type: none"> → IDSS SWAT, APEX, FARMSIM Decision support tools and analysis: 6 academic staff → Surveys → Field/action research → Data collection 	<ul style="list-style-type: none"> → Agricultural Water Management → Water quality assessment → Conservation agriculture → Shallow groundwater assessment for SSI 	<ul style="list-style-type: none"> → Farm/ Local: >120 HH farmers → National research institutes, university, government

SUPPORTING THE SCIENTIFIC TRAINING OF GRAD STUDENTS FARMERS, RESEARCHERS, & OTHERS



KEY MESSAGE

Scientific trainings and engagements in innovation centers are both filling needs for different types of skills that support national goals for irrigation and water management.



Thank You

Tewodros T. Assefa and Seifu A Tilahun

ttaffese@gmail.com and s.tilahun@cgiar.org



INITIATIVE ON
West and Central African
Food Systems Transformation



International Water
Management Institute



FEED THE FUTURE
The U.S. Government's Global Hunger & Food Security Initiative



USAID
FROM THE AMERICAN PEOPLE



WATER and
ENERGY
for FOOD



WORLD BANK GROUP
Water



GWSP
GLOBAL WATER
SECURITY & SANITATION
PARTNERSHIP