

The background of the page is a photograph of a large, leafy tree in a grassy field under a clear sky. A small sign is visible in the foreground near the base of the tree. On the right side, there is a large, stylized graphic of concentric circles in orange, green, and blue, resembling a fingerprint or a stylized map of Africa.

The Automatic Weather Station Data Tool (ADT) —a free web-based application— enables users from national meteorological services to access, process, perform quality control, and visualize data from Automatic Weather Stations

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SECTION: At a glance

Description

In response to demand from national meteorological agencies, the Automatic Weather Station Data Tool (ADT), a free web-based application with an easy-to-use graphic interface, was developed to enable them to access, process, perform quality control, and visualize data from different AWS networks in one place. This enables real-time monitoring of floods, droughts and other climate hazards and supports national meteorological services and actors who rely upon them make critical decisions about agriculture, public health, energy, transportation, and more.

General Information



Innovation ID
1672



Cluster lead
Theme 4



Report year
2025



Nature
Radical Innovation



Type

Climate information (CIS)

Technological innovation: Innovations of technical/ material nature, including varieties/breeds; crop and livestock management practices; machines; processing technologies; big data and information systems.

Impact Area contribution



Nutrition,
health and food
security tag



Gender
equality tag



Poverty reduction,
livelihoods and
jobs tag



Climate
change tag



Environmental
health and
biodiversity tag

(1) Significant (0) Not Targeted (1) Significant (2) Principal (1) Significant

0 = Not targeted: The result did not target any of the Impact Area objectives.

1 = Significant: The result has made a significant contribution to any of the Impact Area objectives, even though the objective(s) is not the principal focus of the result.

2 = Principal: The result is principally about meeting any of the Impact Area objectives, and this is fundamental in its design and expected results. The result would not have been undertaken without this objective.

Other cluster contribution

- Ghana

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- Mali
- Ethiopia
- Kenya
- Zambia
- Senegal

Geographic location



Scope: Regional

Country(ies): Not Provided

Region(s): Sub-Saharan Africa

Key contributors

CG Centers/Managing partners:

Name	Type
Columbia University	University
Alliance of Bioversity and CIAT - Regional Hub (Centro Internacional de Agricultura Tropical)	CGIAR Center

Note: These are the partners who have significantly contributed to the reported innovation.

External partners:

Name	Type	Role
Not provided		

Note: These are the partners who have significantly contributed to the reported innovation.

Links to performance indicators

- KS Outcome: (2024-2025) IPI 1.1: Climate-relevant knowledge products, decision-making tools and advisory services created or enhanced, including GSI dimensions (Number)
- PDO Outcome: (2024-2025) PDO Indicator 1: Partners and stakeholders

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in the Project area increasingly accessing enhanced climate information services and/or validated climate-smart agriculture indicators (Numbers)

- PD Outcome: (2024-2025) IPI 2.3: People engaged in AICCRA-funded capacity development activities (Number) of which at least 30% are women

SECTION: Bundle composition

Incorporated innovations

ID	Name	Type	Readiness Level	Link
Not provided				

SECTION: knowledge sharing and Scaling potential

Anticipated users of this innovation

Actors

#	Type	Total	Of which women	Of which youth
1	Policy actors (public or private)	0	Not Provided	Not Provided
2	Policy actors (public or private)	0	Not Provided	Not Provided
3	Researchers	0	Not Provided	Not Provided

Organizations

#	Type	Name
Not provided		

Intended beneficiaries/users likely to benefit

The Automatic Weather Station Data Tool (ADT) enables national meteorological services to access, process, perform quality control, and

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visualize data from different Automatic Weather Station (AWS) networks in one place.

Scaling barriers

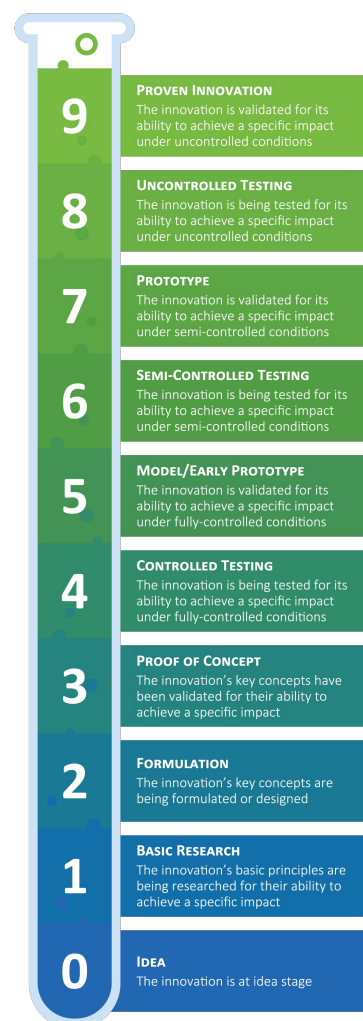
Barriers to scaling include awareness of the innovation and funding to expand the innovation to new contexts.

Methods and tools that were developed to support the outreach and the use of this reported innovation

Several training sessions have been organized to train staff of national climate services, and the tool has been presented to and adopted by Ethiopia, Kenya, Zambia, Ghana, Senegal, and Mali

Results achieved and outcomes expected:

The tool is active, staff has been trained, and now national meteorological services from Ethiopia, Kenya, Zambia, Ghana, Senegal, and Mali can synchronize their automatic weather station data streams.



Learn more in
www.scalingreadiness.org

Levels by scaling potential

Technical excellence

5	5	5
Cheaper compared to alternatives	Simple to use	Perform better

Demand and Investment

5	5
Desirable to intended users	Commercially viable/is there investment potential

Sustained use

5	5
Supported by a suitable enabling environment	Evidence of uptake

Evidence and reference

#	Evidence/Reference	Category	Related level	Link
Not provided				