



WISER

Weather and Climate Information Services for Africa

Overview



Delivering transformational change in the **quality, accessibility and use of weather and climate information services for sustainable development in Africa**

Overview

Ambitious Targets

Access to
**improved
information**
for...

30

Organisations



3,500,000

Households



Overview

Programmes

Fund Manager

ACP°C
African Climate Policy Centre

£10m

A Policy and Enabling Environment Component (PEEC) focussing on improved governance for weather and climate services across Africa.

Fund Manager

 **Met Office**

£20m

An East Africa programme aimed at improving the quality and relevance of weather and climate information, and supporting its uptake and use.

Principles

Delivering transformational change

- Focussing on **service delivery** recognising need for **co-produced products and services**
- Supporting climate information providers, users, intermediaries and other collaborators
- Interventions based around suitable regional, national or sub-national plans
- Demonstrating a contribution to delivering **socio-economic benefits**
- **Working in partnership**

East-Africa programme

Improving the quality and relevance of weather and climate information and supporting its uptake and use



Phase One

East-Africa programme

- Expanding & strengthening **ENACTS** (Enhancing National Climate Services)
- Strengthening Climate Information Partnerships – East Africa (**SCIPEA**)
- Modernisation of the Institute of Meteorological Training and Research (**IMTR**) Kenya
- Decentralised Climate Information Services for Decision Making in Western Kenya (**WISER Western**)
- Multi Hazard Early Warning Services for Tanzania (**MHEWS**)

WISER WESTERN

Decentralised Climate Information Services
for Decision Making in Western Kenya

Purpose

To develop and deliver demand-led and decentralised services of the Kenya Meteorological Department (KMD) in the counties of Kakamega, Siaya, Kisumu and Trans Nzoia.



WISER WESTERN

Decentralised Climate Information Services
for Decision Making in Western Kenya



Key Outputs

- Daily weather forecasts developed for Western Kenya, small-scale farmers and Kenya fishermen on Lake Victoria
- Planning and delivery for meteorological services at the County level strengthened through the development of County Climate Information Plans (CIDPs)
- Improved understanding and communication of seasonal forecasts

Delivery Partners



Kenya Meteorological Department

WISER WESTERN

Decentralised Climate Information Services
for Decision Making in Western Kenya



Key Stats

9

Project delivered across 9 counties (target: 4)

1:3580

1 trained climate intermediary per 3580 of population (target: 1:5000)

6

government departments with improved understanding of weather and climate issues

9

new organisations using KMD services

~ 400,000

households reached with new forecasts

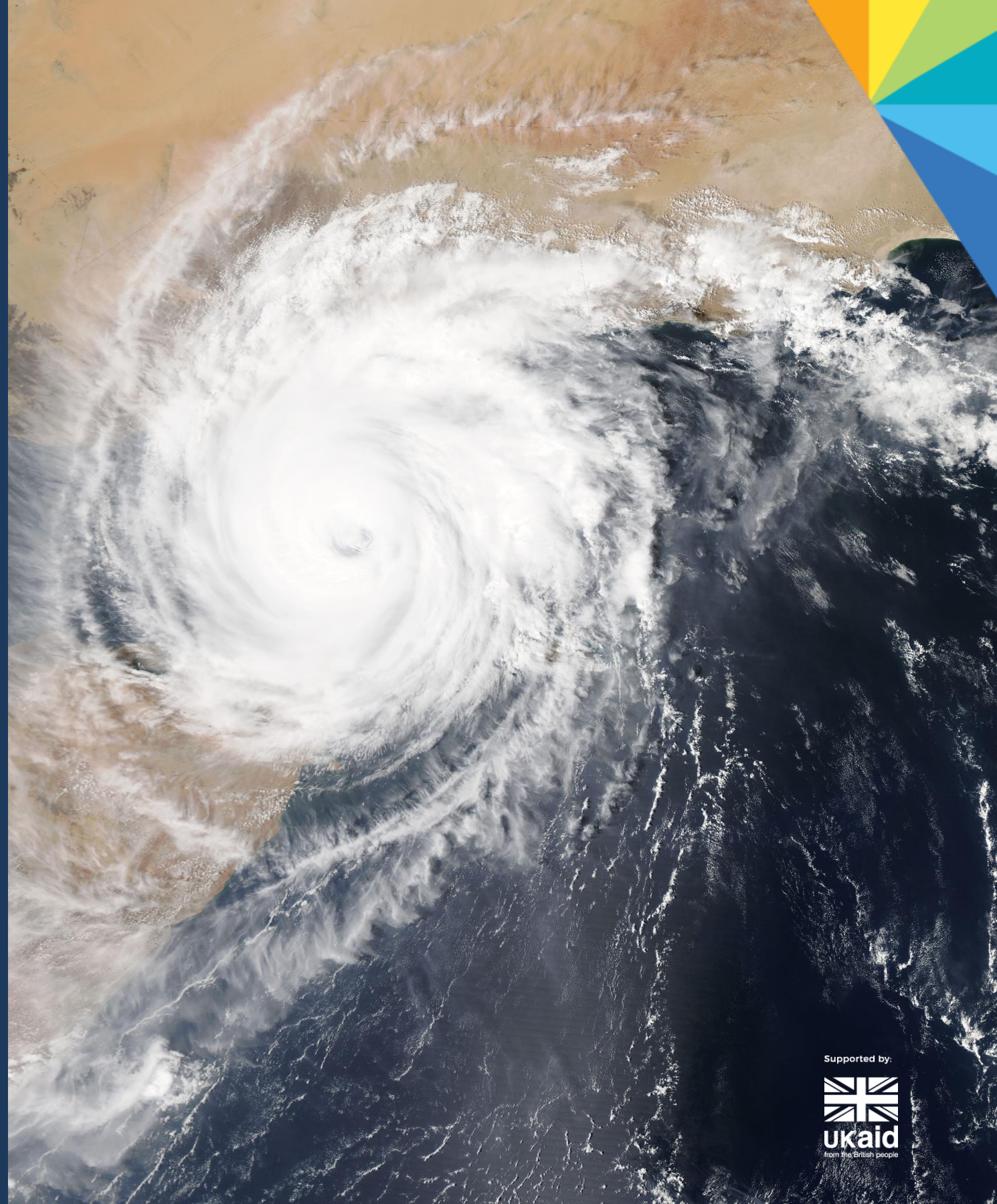


SCIPEA

Strengthening Climate Information Partnerships – East Africa

Purpose

Enhancing links and data exchanges between global, regional and national climate organisations with the aim of strengthening climate partnerships, resources and tools for seasonal forecasts.



Supported by:



SCIPEA

Strengthening Climate Information Partnerships – East Africa



Key Outputs

- Improved links and data flows between Global Producing Centres (GPCs), ICPAC and NMHSs
- New approaches to the development of seasonal forecast products, including through Service Development Teams (SDTs)
- Regional climate education and communications service piloted – climate cafes
- GHACOFs being held earlier to provide users greater planning time



Delivery Partners





SCIPEA

Strengthening Climate Information Partnerships – East Africa

Key Stats

11

11 East African climate scientists trained to interpret and use dynamical seasonal forecasts from GPCs

Improved uptake of information in food security and power sectors

8

8 climate services co-designed and in prototype development

400%

improvement in crop yields

MHEWS TANZANIA

Multi Hazard Early Warning Services for
Tanzania

Purpose

To work in collaboration with the Tanzania Meteorological Agency (TMA) to reduce the impacts of extreme weather on coastal regions of Tanzania





MHEWS TANZANIA

Multi Hazard Early Warning Services for Tanzania

Key Outputs

- Severe Weather Events – Emergency Planning (SWEEP) workshops and engagement to define user needs
- Standard Operating Procedures (SOPs) for EWS service delivery developed
- Operational EWS for the coastal regions of Tanzania
- Improved national daily forecasts

Delivery Partners



MHEWS TANZANIA

Multi Hazard Early Warning Services for Tanzania



Key Stats

1

new Multi Hazard Early Warning System introduced

45

number of people trained in the development, understanding and use of climate information

5

government departments with improved access to TMA services

~ 500,000

households reached with new forecasts



WISER ENACTS

Enhanced National Climate Services for Eastern Africa

Purpose

To transform local, national and regional climate-sensitive development decisions through the widespread uptake of timely, relevant, locally enhanced and quality-assured climate information at relevant spatial and temporal scales.



Supported by:





ENACTS

Enhanced National Climate Services for Eastern Africa

Key Outputs

- Implementation of ENACTS in Kenya and Uganda, meaning new gridded data is freely available through the Maprooms interface
- Strengthening of ENACTS in Ethiopia, Tanzania and Rwanda
- Peer reviewed publication of El Nino Media Analysis
- Improved collaboration between ENACTS users

Delivery Partners



Supported by:

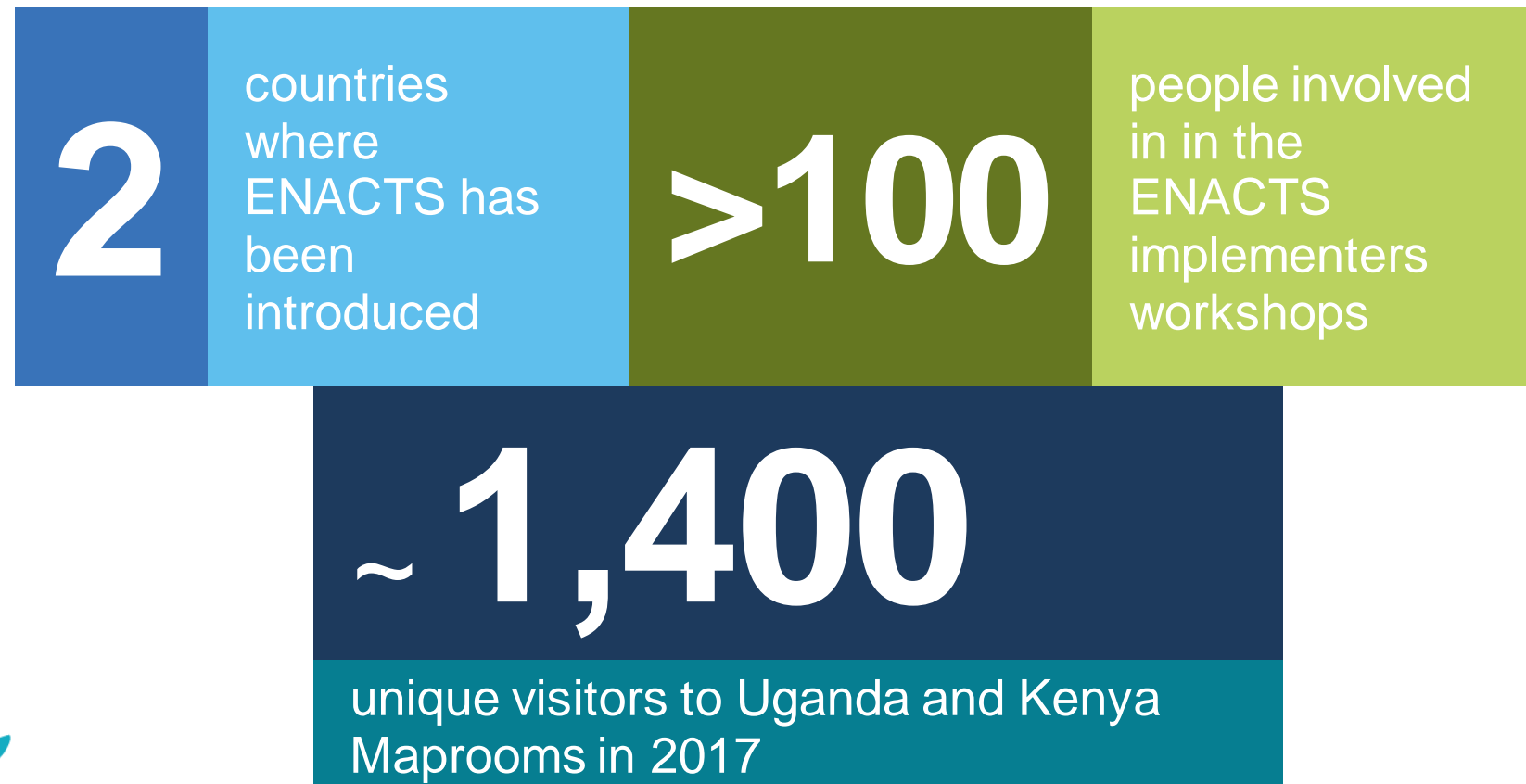


ENACTS

Enhanced National Climate Services for Eastern Africa



Key Stats





IMTR

Modernisation of Institute of Meteorological Training and Research

Purpose

To deliver a modernised training program that meets World Meteorological Organization (WMO) learning objectives for meteorologists.



Supported by:





IMTR

Modernisation of Institute of
Meteorological Training and Research

Key Outputs

- 'Train the trainer' support and development of training content
- Delivery of pilot Basic Instruction Package for Meteorologists (BIP-M) climatology training course

Delivery Partners



University of Nairobi



**KENYA
METEOROLOGICAL
DEPARTMENT**



Supported by:





IMTR

Modernisation of Institute of
Meteorological Training and Research

Key Stats

16

modules/99 topics developed

19

delegates
attended pilot
course

WISER impact stories

- An initial series of impact stories on phase 1 of programme produced
- Further stories to be produced throughout phase 2

'A wiser way to communicate' – WISER Western

Forecasts reaching ~ 100,000 farmers

'Protecting lives & livelihoods with new forecasts' - WISER Western

Agricultural production increases of up to 20%

'Personal development & regional impact' – SC�PEA

"SC�PEA has been fundamental in my career progression"

'Powering up the forecasts' - SC�PEA

KenGen can now "make decisions in good time"

'A brighter forecast for food security' - SC�PEA

400% increase in crop yields

'MHEWS: the right message at the right time' – MHEWS Tanzania

Co-production well received by stakeholder groups

Phase Two

East-Africa programme

- Five East Africa regional projects
- Five national projects – Kenya, Rwanda, Tanzania, Uganda
- One West Africa project in the Sahel region

East Africa Regional Projects



HIGH impact Weather IAke sYstem – **HIGHWAY**
Project lead - WMO

Aircraft Meteorological Data Relay – **AMDAR**
Kenya/East Africa region
Project lead - WMO

TRANSFORM - increasing the knowledge base on
co-production and user uptake across all projects
Project lead - SouthSouthNorth

Weather Wise: Media forces communicating weather
and climate information for decision-making
Project leads – BBC Media Action, Network of Climate
Journalists in the Greater Horn of Africa (NECJOGHA)

Support to ICPAC (Inter Governmental Authority on
Development, Climate Prediction & Applications Centre)
(W2-SIP)- enhancing community resilience and prosperity of
ICPAC member states by fostering climate services and
knowledge
Project lead - ICPAC

East Africa National Projects



Strengthening Weather and Climate Services Information Services in Uganda – Uganda
Project lead - World Vision, ACCRA Consortium, UNMA

Developing Anticipatory Risk Awareness & Joint Action - DARAJA – Tanzania and Kenya
Project lead - Resurgence

Coastal Resilience and Improving Services for Potato Production - CRISPP – Kenya
Project leads – Kenya Meteorological Department, Met Office, GCAP

Iteganyagihe Ryacu - Rwanda
Project leads – CIAT, Meteo Rwanda

Tanzania National Project - Tanzania
Project lead – TMA

West Africa Project



Adaptive Social Protection – Information for Enhanced Resilience - **ASPIRE**
Project lead – Met Office



HIGHWAY

High Impact Weather Lake System

Purpose

To deliver the provision of regular weather forecasts and severe weather warnings for fishing boats and small transport vessels on Lake Victoria.



HIGHWAY

High Impact Weather Lake System



Key Expected Outputs

- Provision of regular weather forecasts and severe weather warnings for Lake Victoria.
- Dissemination of these bulletins widely in the East African region.

Delivery Partners



WORLD
METEOROLOGICAL
ORGANIZATION



East African Community



AMDAR

Aircraft Meteorological Data Relay

Purpose

To establish a meteorological observing programme making use of the automated reporting of meteorological atmospheric information from a fleet of aircraft.



AMDAR

Aircraft Meteorological Data Relay



Key Expected Outputs

- Development and establishment of the key components for operation of the system, both within the aircraft and on the ground.
- Support for the operation of the programme over a three-year period.

Delivery Partners



WORLD
METEOROLOGICAL
ORGANIZATION



**KENYA
METEOROLOGICAL
DEPARTMENT**



Support to ICPAC (W2-SIP)



Purpose

- To improve the development, uptake and use of sub-seasonal, seasonal and long-term timescale products and services for regional applications.
- Lead the development of a proposal to support the enhancement of weather and climate service provision in Somalia and South Sudan.



Support to ICPAC (W2-SIP)



Key Expected Outputs

- Enhance the resilience and prosperity of ICPAC member states by fostering climate services and knowledge.
- ICPAC staff will gain increased skills in co-production approaches including facilitation skills for co-producing climate services with users.
- In Somalia and South Sudan, it is intended to develop new climate services with support from UNEP in South Sudan and CARE in Somalia.

Delivery Partners



IGAD Climate Prediction and Applications Centre
"Fostering Climate Prediction and Applications"





TRANSFORM

Purpose

To create a learning and exchange environment within WISER and beyond to apply co-production approaches, better understand the drivers of user uptake of weather and climate information as well as case studies on measuring the socio economic benefit of climate services



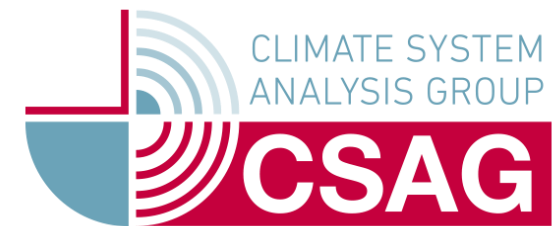


TRANSFORM

Key Expected Outputs

- Enhanced understanding and capacity of the WISER East Africa programme to integrate appropriate co-production approaches and ways of generating demand and maximising user uptake at regional, national, subnational and community levels
- Support the WISER programme on monitoring, evaluation and learning (MEL)

Delivery Partners





Weather Wise

Purpose

Strengthen the capacity of media professionals and technical experts to respond to the climate and weather information needs of audiences living in Northern Kenya, around the Lake Victoria shores of Kenya and Uganda, and the coastal strip of Kenya and Tanzania.



Supported by:





Weather Wise

Key Expected Outputs

- Build the capacity of media professionals to produce high quality outputs on climate and weather information.
- Develop the capacity of technical professionals to communicate on climate and weather information.
- Nurture strategic links between media partners, technical climate and weather experts and relevant government decision-makers.

Delivery Partners





DARAJA

Developing Anticipatory Risk Awareness and Joint Action

Purpose

Co-production of weather and climate information services, which are particularly relevant to poor urban communities in Tanzania (Dar es Salaam) and Kenya (Nairobi)



Supported by:





DARAJA

Developing Anticipatory Risk Awareness and Joint Action

Key Expected Outputs

- Framework and toolkit to underpin a new communication system for the creation, flow and use of weather and climate information in East African urban centres.
- Improve the climate resilience of 20% of poor urban residents (approximately 800,000 people).
- 5-10% reduction in measurable avoidable losses caused by extreme weather events.

Delivery Partners





CRISPP

Coastal Resilience & Improving Services for Potato Production - Kenya

Purpose

To develop a set of co-produced climate information services that can deliver transformational change in the dissemination and impact of weather and climate information across Kenya.



Supported by:





CRISPP

Coastal Resilience & Improving Services for Potato Production - Kenya

Key Expected Outputs

- Establish locally-specific weather and climate information products to mitigate the impacts of, and grasp the opportunities presented by, the climate in the coastal region.
- Co-produce new services to provide the potato sector with reliable, relevant information to aid them in adapting their businesses to weather and climate threats.

Delivery Partners



**KENYA
METEOROLOGICAL
DEPARTMENT**



Global
Climate Adaptation
Partnership



Rwanda national project

Purpose

To enhance and scale up the co-production of climate services for agriculture, improved climate risk management and an impact based early warning system in Rwanda.





Rwanda national project

Key Expected Outputs

- Enhance the capacity and processes for Meteo Rwanda and local government to co-produce and deliver seasonal climate information services to Rwanda's farming population.
- Increase access to timely co-produced impact-based early warning services (EWS).
- Support a functional multi-sectoral coordination committee guiding the co-production of weather and climate services at national and local government levels.



Delivery Partners



Strengthening Weather and Climate Information Services in Uganda

Purpose

To improve the availability, relevance and use of weather and climate information in 22 targeted districts in Uganda using local languages, supporting 198,000 farmers to reduce their vulnerability to climatic hazards.





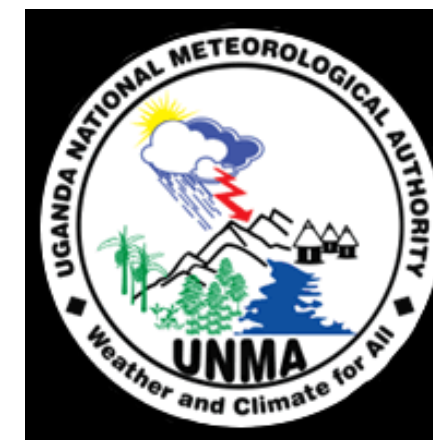
Strengthening Weather and Climate Information Services in Uganda

Key Expected Outputs

- Translate forecasts and advisories into 22 local languages
- Delivered forecasts through the establishment of new methods of communication and dissemination, training community 'climate champions' to broadcast forecasts over FM radios
- Develop a model of multi-agency cooperation across Ugandan institutions responsible for the delivery of forecast information

Delivery Partners

World Vision



Supported by:



Tanzania National Project - tbc

Knowledge Management

Knowledge management activities include:

Webpages

LinkedIn

Events

Impact stories / case studies

#UKaidWISER

Newsletters

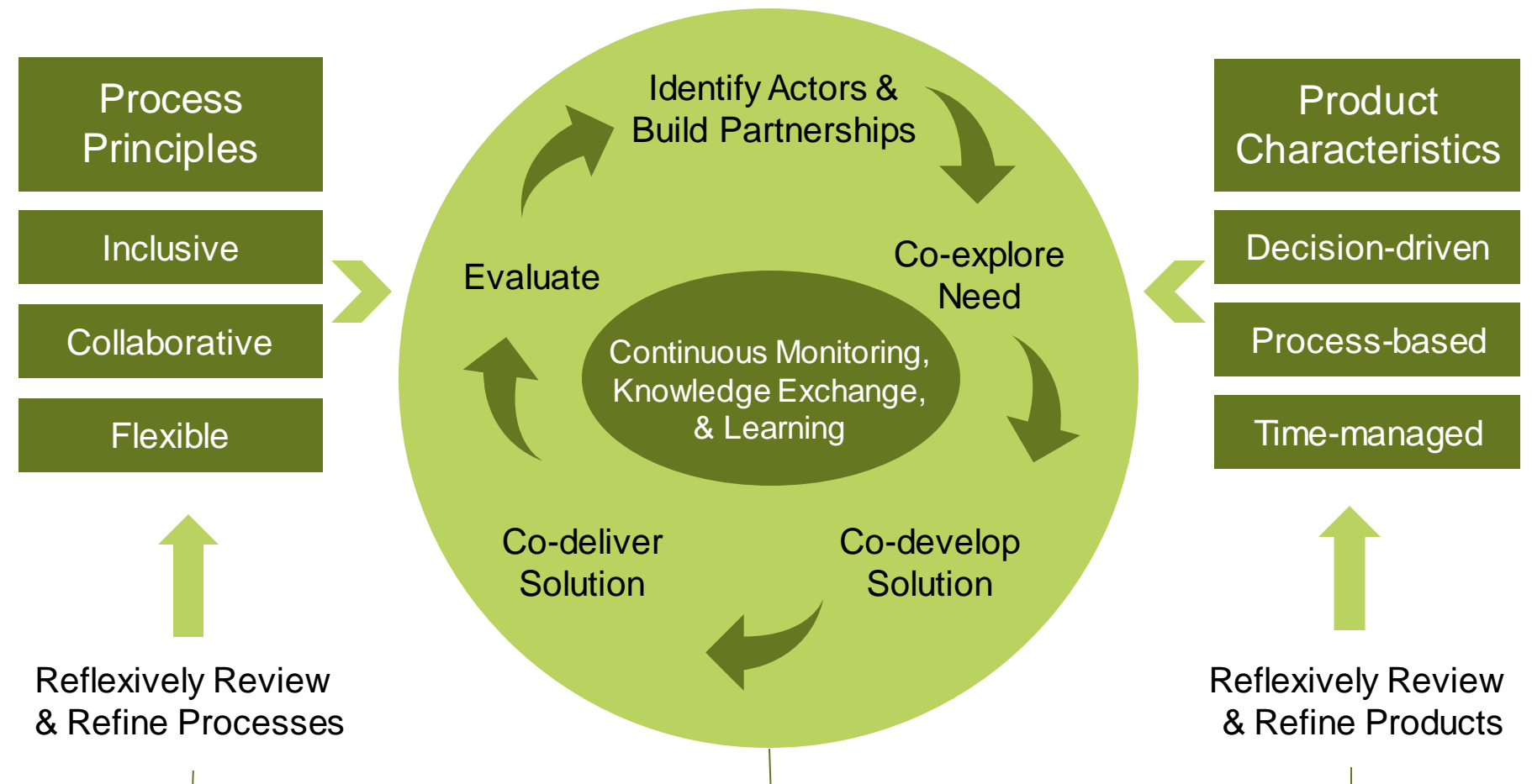
Webinars

Promoting Co-production

Effective approaches for service development

- Researching, defining and developing effective approaches to co-production for the development of weather and climate services.
- Demonstrating cost-effective approaches carried out within WISER.

Co-production Process



Inclusion

Gender and social equity

Ensuring the importance of equity is recognised in the development and delivery of weather and climate products and services. Organisations at all levels are sensitive to how equity is relevant to them.

WISER indicators disaggregated by gender

Incorporation of equity issues into co-production process

Linking learning to ACPC policy development

Exploring equity issues around weather and climate services

Supporting events on gender and social equity themes

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