



STRENGTHENING CLIMATE INFORMATION AND EARLY WARNING SYSTEMS (SCIEWS) PROJECT-UGANDA

*PRESENTATION TO THE UNDP-CIRDA REGIONAL WORKSHOP IN LUSAKA
ZAMBIA.*

30TH NOVEMBER 2017

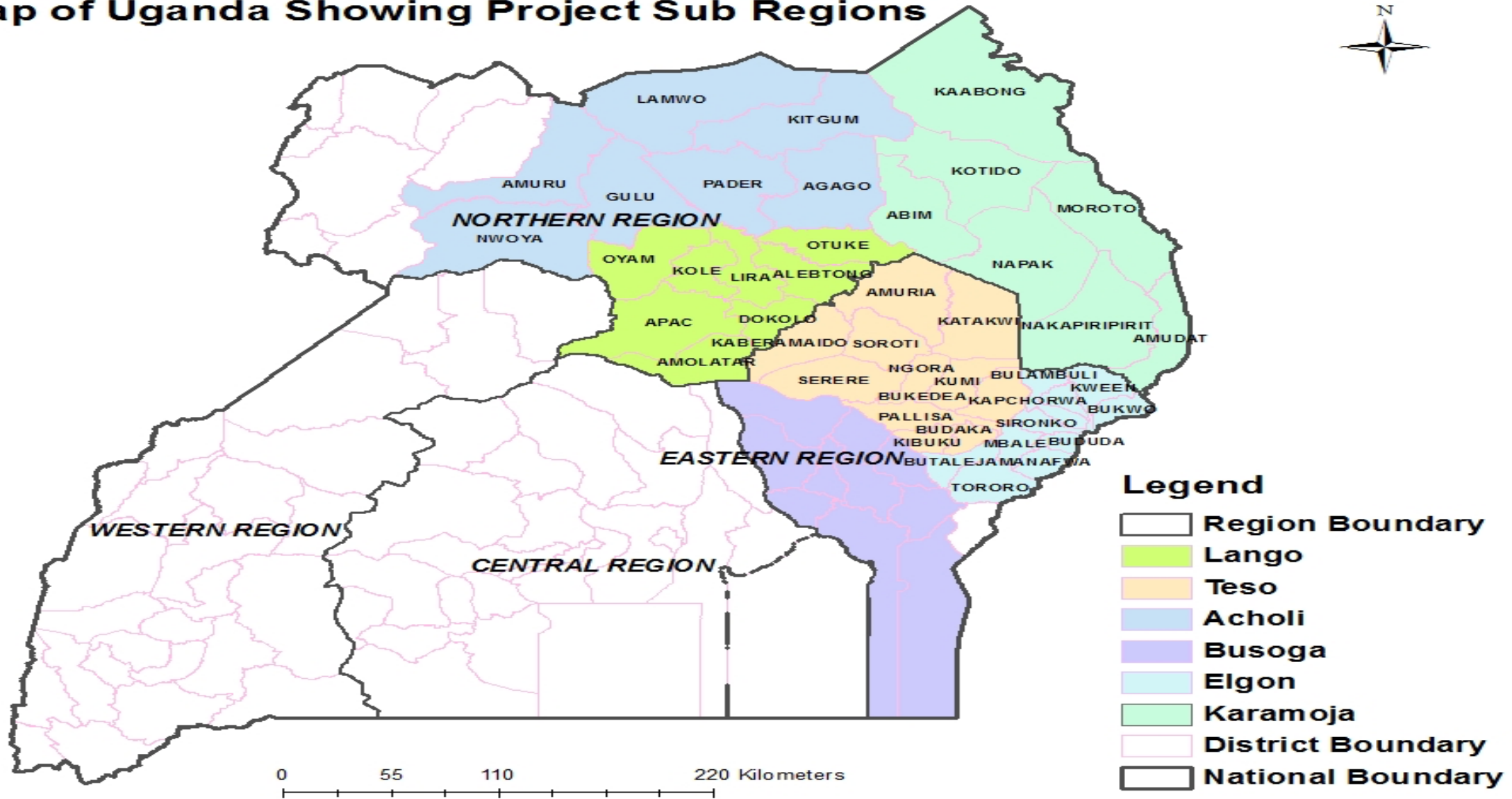
BASIC FACTS:

- **IMPLEMENTATION BEGAN IN MARCH 2014, TILL DEC.2017 WITH NO-COST EXTENSION TO JUNE 2018;**
- **IMPLEMENTATING PARTNER: MWE;**
- **RESPONSIBLE PARTIES: UNDP, OPM, MAAIF, MOLG, UCC, CSOS**
- **TOTAL UNDP-GEF FUNDING: 4,000,000 US\$ (93% SPENT)**
- **TOTAL CO-FINANCING (IN KIND): APPROX. 23 M US\$**
- **NATIONAL COVERAGE WITH PILOT TESTING OF IMPACTS IN: ELGON, KARAMOJA, TESO & LANGO SUB-REGIONS.**

OVERALL GOAL

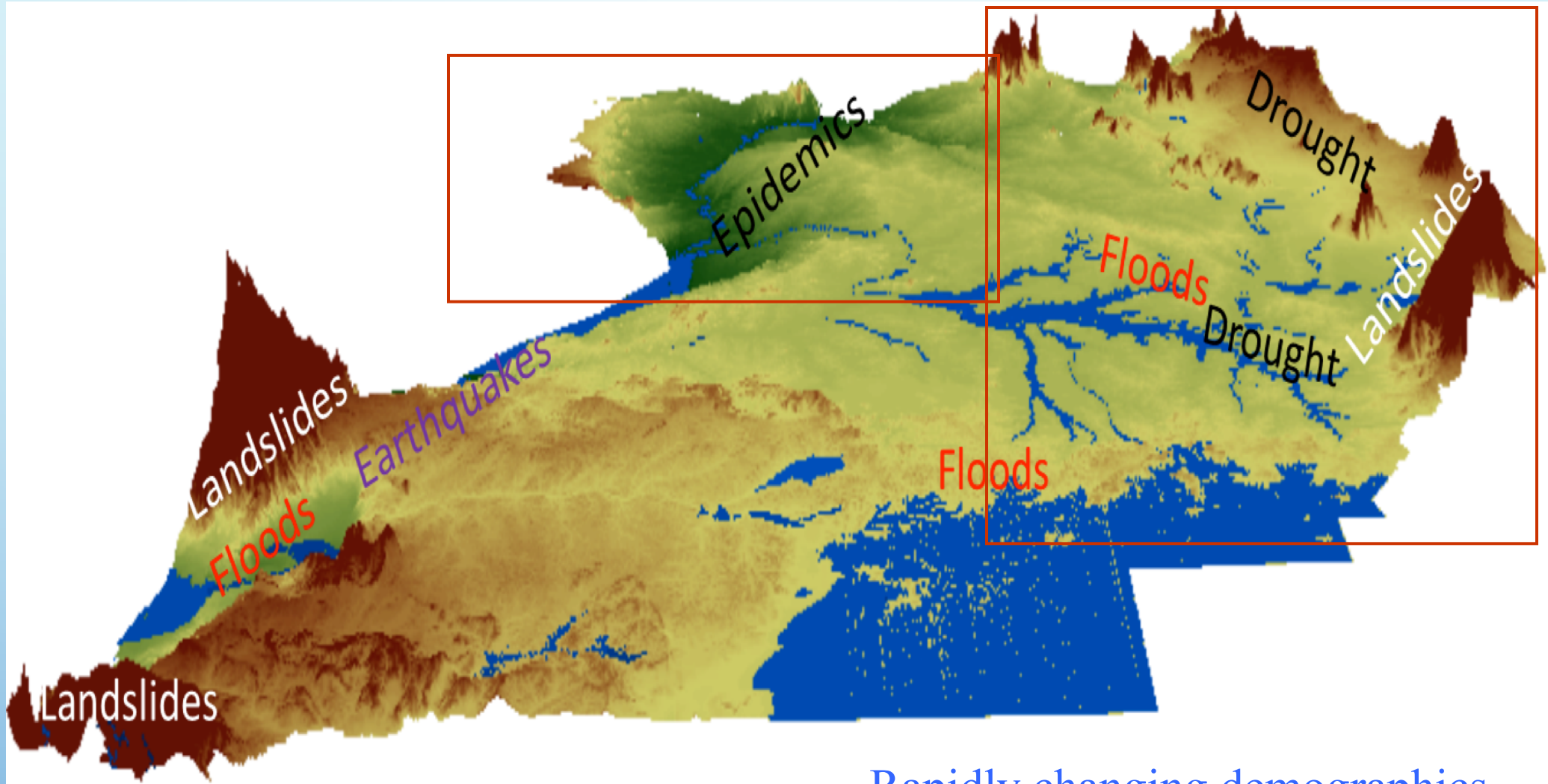
TO ESTABLISH ***A FUNCTIONAL NETWORK OF METEOROLOGICAL AND HYDROLOGICAL MONITORING STATIONS*** TO HELP UNDERSTAND BETTER THE WEATHER AND CLIMATIC CHANGES OVERTIME AND ***PROVIDE TIMELY INFORMATION*** TO AVERT ANY WEATHER AND CLIMATE CHANGE RELATED TO DISASTERS

Map of Uganda Showing Project Sub Regions



SCEWS pilot regions

HAZARD PROFILE



Rapidly changing demographics

Multi-Hazard Region

Highly Vulnerable communities

EWI SOURCES

- EARLY WARNING INFORMATION IS GENERATED AT NATIONAL LEVEL BY:
 - UNMA – WEATHER AND CLIMATE
 - MAAIF – SEASON
 - DWRM – FLOOD
 - **GEOLOGICAL SURVEYS – EARTHQUAKES**
- NECOC MANDATED TO INTEGRATE AND DISSEMINATE INFORMATION FROM THESE AGENCIES- U-NIEWS

SUMMARY OF RESULTS

OUTCOME 1: Enhance the capacity of UNMA and DWRM to monitor and forecast extreme weather ,hydrology and climate change.

OUTPUT 1.1 : 16 out of 16 AWLSs installed and 28 out of 28 WLSS constructed.

OUTPUT 1.2: 25 out of 25 AWSs installed and are functional; 28 weather stations renovated (IT syst., AMSS, Upper air). Quality assurance of equipment and products ongoing.

OUTPUT 1.3 Weather and climate forecasting facilities upgraded (integration of hydro-meteorological data MIS DWRM and UNMA in 2018).

OUTPUT 1.4 Capacity developed for operating and maintaining observation networks; Operations and Maintenance with exit strategy in place

KEY RESULT: ABOUT 60% WEATHER INFORMATION FROM SCIEWS PROJECT INPUT;



All 25 installed AWSs are functional



28 of 32 water level stations
rehabilitated; 16 out of 16 AWLSs
installed

ENTEBBE WEATHER STATION(BUKWU) & R. MUYEMBE (BULAMBULI)



CONNECTING WEATHER STATIONS TO
NATIONAL METEOROLOGICAL CENTER

SUMMARY OF RESULTS CONTINUED

OUTCOME 2: Efficient and effective use of hydro-meteorological and environmental information for making early warnings and long-term development plans.

OUTPUT 2.1: Technical capacity of UNMA and DWRM is strengthened by training 4 senior meteorologists, 4 senior hydrologists and 4 junior meteorologists and 4 junior hydrologists on region-specific weather and climate forecasting;

OUTPUT 2.2 Tailored weather and climate information (including color-coded alerts made accessible to decision makers and end users: SN; South-South cooperation-Philippines; GHACOF;SAWS;KMD;

OUTPUT 2.3. Weather and climate information mainstreamed into national policies, annual workplans and local development in pilot districts.(Sub-national stakeholders' workshop)

OUTPUT 2.4. Channels and procedures for issuing alerts in project pilot districts. (weather hackathon; phones to DDMCs, Protocol & Agrmt; Multi hazard;)

Output 2.5 Sustainable financing options: CBM study

KEY RESULT: UNMA PRODUCTS ARE ISO CERTIFIED BY WMO-AVIATION SAFETY



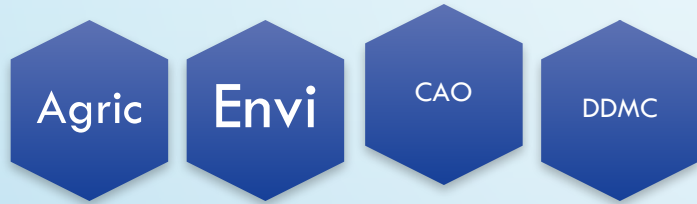
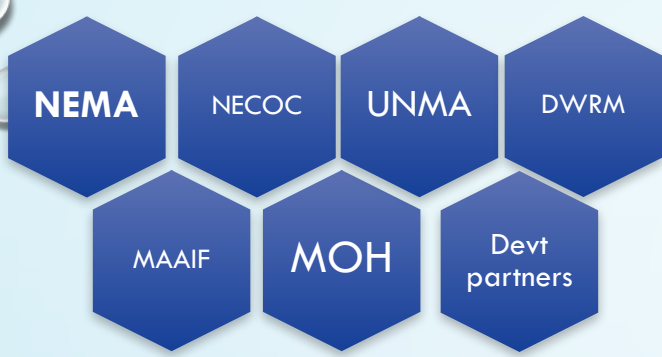
UNMA AND DWRM SIGN AN MOU ON DATA SHARING



***Sub-national workshop held show that farmers are utilizing weather information:
e.g. Ox ploughing in Kotido-Karamoja.***

THE 1ST UGANDA WEATHER HACKATHON/INNOVATIONS CHALLENGE JUNE 2017-AFRICANA HOTEL





Hierarchical Actors

DISSEMINATION PLATFORMS

National

District

Sub-county

Parish

Village



U - NEWS

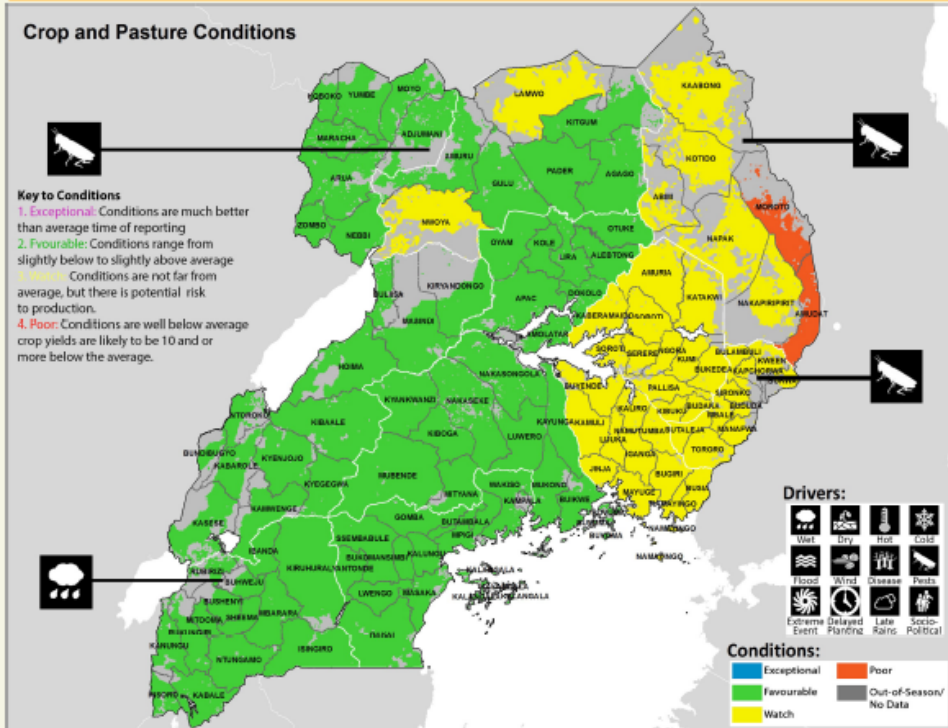
The Official Government of Uganda Inter- Ministerial/Agencies
Monthly National Integrated Multi-Hazard Early Warning Bulletin

Vol. 01

15th NOVEMBER to 15th DECEMBER 2017

Issue No. 13

CROP & PASTURE CONDITIONS MAP OF UGANDA



- HIGH LEVEL OF SHARING AT HIGH LEVELS
- LIMITED CIRCULATION TO LOWER LEVELS
- LANGUAGE CONSTRAINS

- 4000 COPIES PRINTED MONTHLY
- COMPOSITE INFORMATION
- GRAPHICAL ILLUSTRATIONS

RADIO?


Still the **best way** to reach small-scale farmers



RADIO



- NATIONAL AND REGIONAL LEVEL
- WIDE REACH – MANY PEOPLE LISTEN TO RADIO
- ADVERTISERS PAY FOR WEATHER DATA
- QUICK INFORMATION AND ALERTS
- COST ISSUES

 **GULU DISTRICT LOCAL GOVERNMENT**
PRODUCTION AND MARKETING DEPARTMENT
VETERINARY SECTOR
P. O. BOX 2, GULU

TIME TABLE FOR WEEKLY RADIO TALK SHOW IN RADIO MEGA FM
(EVERY MONDAY, FROM 2:00PM – 3:00PM AUGUST-DECEMBER 2017)

DATES	NAME	TITLE	CONTACT
28 TH AUGUST 2017	DR. OBALIM CHARLES	VET OFFICER	0775779873
4 TH SEPTEMBER 2017	DR. AMONO RECHOE	VET OFFICER	0775607135
11 TH SEPTEMBER 2017	MR. ACAYE ALFONSE	SENIOR ENTOMOLOGIST	0772686659
18 TH SEPTEMBER 2017	MR. LANEK PETER	FISHERIES OFFICER	0772576365
25 TH SEPTEMBER 2017	MR. OTEMA SIMON	VET ASSISTANT	0774377683
2 ND OCTOBER 2017	DR. AKWONGO CLAIRE	VET OFFICER	0777153585
9 TH OCTOBER 2017	DR. AMONO RECHOE	VET OFFICER	0775607135
16 TH OCTOBER 2017	MS. AJOK CHRISTINE	VET ASSISTANT	0774023066
23 RD OCTOBER 2017	MR. OPIYO ALFRED	VET ASSISTANT	0773167665
30 TH OCTOBER 2017	DR. LAWACH JULIAN	VET OFFICER	0777446514
6 TH NOVEMBER 2017	MR. LANEK PETER	FISHERIES OFFICER	0772576365
13 TH NOVEMBER 2017	MR. OTEMA SIMON	VET ASSISTANT	0774377683
20 TH NOVEMBER 2017	DR. AKWONGO CLAIRE	VET OFFICER	0777153585
27 TH NOVEMBER 2017	MR. OPIYO ALFRED	VET ASSISTANT	0773167665
4 TH DECEMBER 2017	MS. AJOK CHRISTINE	VET ASSISTANT	0774023066
11 TH DECEMBER 2017	DR. LAWACH JULIAN	VET OFFICER	0777446514
18 TH DECEMBER 2017	MR. ACAYE ALFONSE	SENIOR ENTOMOLOGIST	0772686659
25 TH DECEMBER 2017	DR. OBALIM CHARLES	VET OFFICER	0775779873

MODERATOR OF THE PROGRAM: SARAH ADONG – 0782356928/0752356928

Gender Neutral

TELEVISION



WEATHER WWW.KGNS.TV
7-DAY FORECAST

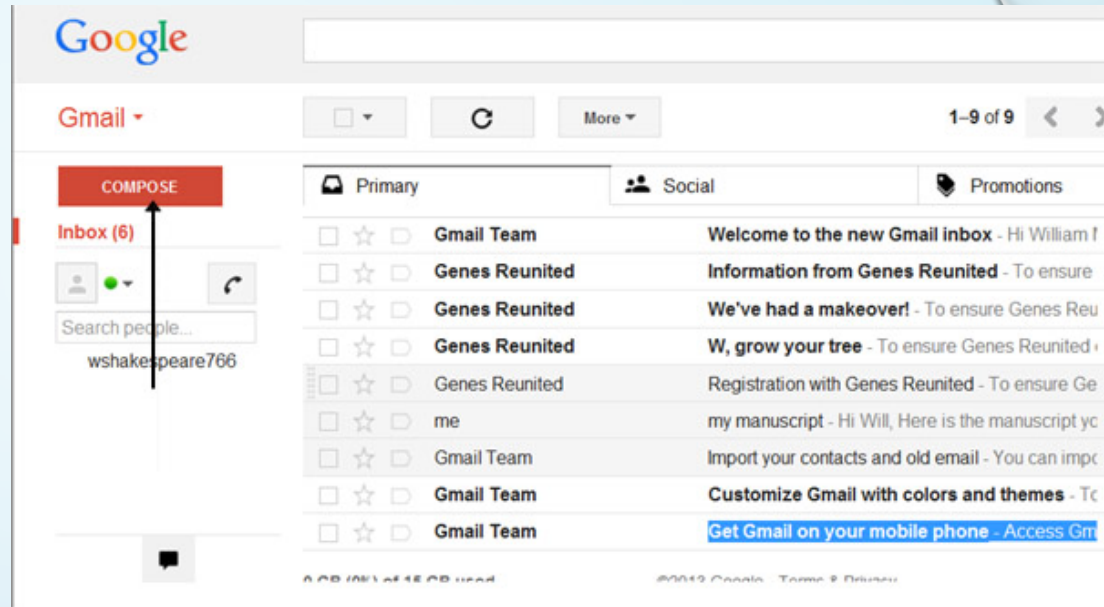
SAT	SUN	MON	TUE	WED	THU	FRI
83	73	79	84	80	82	69
58	53	60	62	61	55	

- END TO END INFORMATION DISSEMINATION
- WIDE COVERAGE
- ALERTS AND REAL TIME INFORMATION
- **COST ISSUES**
- **LANGUAGE**
- **SPECIFIC TIMES**
- **TV OWNERSHIP LIMITED**

Gender Neutral

EMAIL

- NO COST
- EMAIL GROUPS EXIST IN DISTRICTS



- HORIZONTAL INFORMATION SHARING

- LANGUAGE CONSTRAINTS
- LIMITED VERTICAL FLOW (LOWER)
- INTERMEDIARY

EXTENSION WORKERS

- EXTENSION SYSTEMS EXIST
- DISTRICT AND SUB COUNTY
- DIFFERENT SECTORS
- DIRECT INTERACTIONS WITH END USERS
- LANGUAGE ISSUES ADDRESSED

Gender Neutral



- LIMITED TRANSFER OF EWI DOWNWARDS
- WIDE COVERAGE OF AREAS
 - COMPLAINTS FROM COMMUNITIES
- EXTRA DUTIES
- INFORMATION

DISTRICT MEETINGS

- REGULAR MEETINGS
- TECHNICAL LEVEL MEETINGS
- UPDATES FROM SECTORS
- VERTICAL AND HORIZONTAL POSSIBILITIES
- WIDE RANGE OF INFORMATION AVAILABLE
- INFORMATION REMAINS WITH SECTOR PEOPLE
- EWI NOT DISCUSSED AT MEETINGS

Gender Neutral

LOCAL COUNCIL SYSTEM

- DISTRICT
- SUB COUNTY
- PARISH
- VILLAGE



- INTERACT WITH COMMUNITIES ON DAILY BASIS
- NOT OPTIMIZED, EXCEPT DURING INCIDENTS

Gender Neutral

GENDER MAINSTREAMING RESULTS:

- i. DISTRIBUTED WEATHER PAMPHLETS TO BOTH GIRLS AND BOYS IN MARCH 2017 DURING THE WORLD WATER AND WORLD METEOROLOGY;**
- ii. TRAINING ON MAINTAINING AWSS (3W,80M) BY ADCON;**
- iii. ACCESSING WEATHER DATA FROM THE ADCON STATIONS (3W ,2M) WERE TRAINED TO SUPPORT THE EXTRACTION /COLLECTION OF DATA AND COMPARE IT WITH DATA FROM MANUAL DATA STATIONS;**
- iv. SUPERVISION OF THE CONTRACTORS FOR HYDROLOGICAL STATIONS HAS BEEN CARRIED OUT BY THE DWRM TEAM COMPRISING 1 WOMAN AND 4 MEN;**
- v. PARTICIPATION IN THE EARLY WARNING DATA COLLECTORS TRAINING FOR THE PILOT DISTRICTS INCLUDED 8 WOMEN AND 35 MEN WHO ACTIVELY PARTICIPATED IN THE FIELD AS WELL AS THE IN HOUSE PRACTICAL SESSIONS;**
- vi. THE DISTRICTS' TECHNICAL TEAM WORKSHOP FOR LANGO SUB-REGION WAS ORGANIZED FOR 7 WOMEN AND 52 OFFICIALS;**
- vii. THE TECHNICAL COMMITTEE AND THE PMU COMPRISING 1 WOMAN AND 4 MEN MONITORED PROJECT OUTPUT ACROSS THE COUNTRY;**
- viii. THE UGANDA TEAM TO THE GHACOF 46 COMPRISED: 1 WOMAN SENIOR OFFICIAL FROM THE MAAIF, 2 MEN FROM THE OFFICE OF THE PRIME MINISTER AND 2 MEN FROM THE UNMA;**
- ix. WOMEN HAVE DEMONSTRATED EMPOWERMENT IN ARTICULATING EARLY WARNING ISSUES AT BOTH NATIONAL AND REGIONAL LEVELS; WOMEN ARE GETTING MORE INTERESTED IN A SECTOR THAT WAS ONCE MALE DOMINATED. E.G. UNMA HAS REQUESTED UNDP TRAIN UNMA TEAM ON GENDER MAINSTREAMING.**
- x. ENSURED ACTIVE PARTICIPATION OF YOUNG WOMEN IN THE WEATHER INNOVATIONS CHALLENGE; THE BEST TWO WINNING TEAMS HAD 1 FEMALE EACH;**

SYNERGIES/PARTNERSHIPS BUILT

- i. DISTRICTS AND LLGS , WITH EARLY WARNING SUB-NATIONAL COMMITTEES; PRODUCTION OFFICERS SCALING UP DISSEMINATION OF WEATHER DATA TO FARMERS ;**
- ii. NECOC IS USING WEATHER INFORMATION FOR PUBLICATION ON NATIONAL INTEGRATED EARLY WARNING BULLETIN “U-NEWS”**
- iii. CONTINUING TO BUILD PARTNERSHIP WITH THE PRIVATE SECTOR FOR COMMERCIALIZATION OF METEOROLOGICAL PRODUCTS(MOUS);**
- iv. INVOLVEMENT OF YOUTH DURING HACKATHON TO DEVELOP AFFORDABLE WEATHER DISSEMINATION APPLICATIONS.**

General challenges

1. Long history of fire fighting (response) vis-à-vis risk management
2. Sectorial approach and fragmentation (NEMA/MAAIF) and scattered efforts
3. Limited trust in the early warning information particularly meteorological/agro meteorological information
4. Limited engagement of the private sector and civil organizations in early warning dissemination
5. Limited capacity to downscale, contextualize and interpret composites of early warning information
6. Unidirectional information flow (top bottom with low feedback)
7. Limited financial instruments at the local levels
8. DDMC constrained to efficiently function
9. Mechanism for exchanges among stakeholders at lower levels are low
10. Who takes action if there is a warning

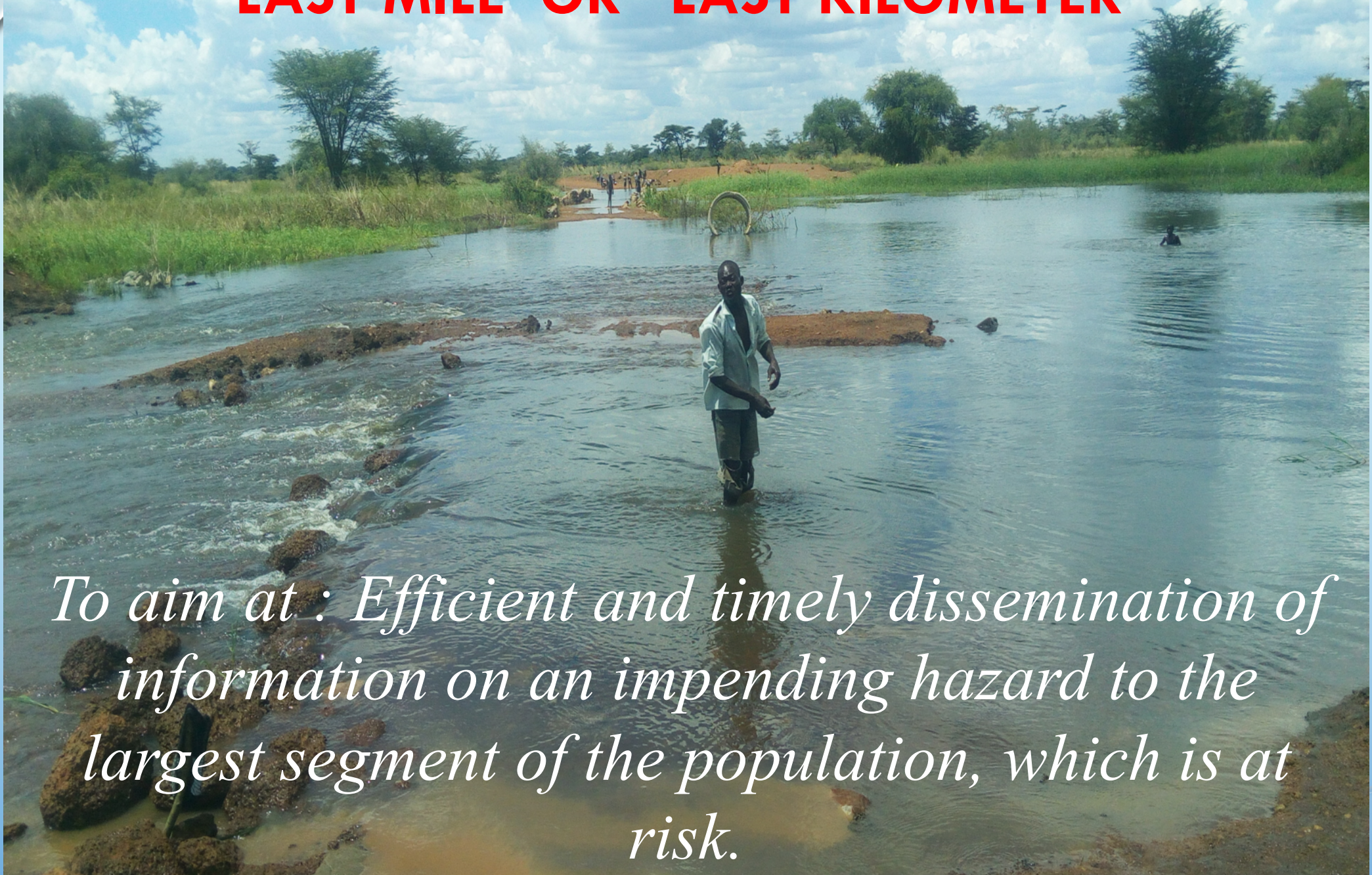
KEY LESSONS LEARNED:

- **THE STRUCTURE FOR DISSEMINATING EARLY WARNING INFORMATION IS STILL WEAK;**
- **KNOWLEDGE OF EW SERVICES IN COMMUNITIES IS STILL LOW; NOT DEMANDING FOR INFORMATION FROM WEATHER STATIONS;**
- **KEY CHALLENGES:**
- **VANDALIZATION OF THE NEWLY CONSTRUCTED STATIONS (E.G.. SEZIBWA);**
- **LACK OF PLAN FOR MAINTENANCE AND OPERATION PLANS AS WELL AS RESOURCES FOR THEIR SUSTENANCE;**
- **DELAYED INSTALLATION OF AWLS MEANS DELAY IN QUALITY ASSURANCE OF INTEGRATED HYDRO-MET INFORMATION SYSTEM**

WAY FORWARD

- **FINALIZE OPERATIONS AND MAINTENANCE PLANS;**
- **QUALITY ASSURE PRODUCTS FROM AWLS**
- **INTEGRATE DATA FROM UNMA AND DWRM**
- **TERMINAL EVALUATION BY MARCH 2017**
- **DOCUMENT BEST PRACTICES**
- **CLOSE UP BY JUNE 2018**

'LAST MILE' OR "LAST KILOMETER"



To aim at : Efficient and timely dissemination of information on an impending hazard to the largest segment of the population, which is at risk.

The background is a light blue gradient with several realistic water droplets of various sizes scattered across the surface. The droplets have highlights and shadows, giving them a three-dimensional appearance.

THANK YOU