Trans-African Hydro-Meteorological Observatory

Frank O. Annor  annorfrank@tahmo.org
Global Weather Enterprise Conference
Amsterdam - 2018
Climate information
Challenges with climate observation?

• Hydro-Met services have little government support
• Many AWS from different projects and providers
• Only few stations reporting
• No local spare parts - material purchases are difficult
• Lack of Maintenance (calibration, replacement of batteries, sim connections etc.)
Challenges with climate observation?

• Digitizing old records is expensive and hard
• There is no market for data from a single country
• Lack of structured data storage
• Manual quality control
• Data use & services not exploited? Agriculture – very little
• Forecasts high tech, best at large scale
TAHMO’s objective

Leapfrog: 20,000 TAHMO Stations!
1 station every 30 km
Integrate ground & satellite data
African Weather Opportunity

- **Problem:** Supercomputer models ingesting global satellite and radiosonde data, global ground-based stations etc. take teams of highly skilled staff to run, and millions of dollars in equipment and data purchases.

- **Goal:** Put African Meteorological Services in the driver's seat in ensuring products needed by the people, public agencies, and businesses of their countries are readily available.

- **Solution:** NMHS will establish a small team under the banner of “African Weather Opportunity, Inc.” (AWO) which will tender regional and continental-scale RFPs for synthesis of environmental observations and simulations into actionable products.
Business Development

Agriculture

- Smallholder farmers
- Input providers
- Extension Officer
- Commodity buyers
- Large farmers

AGRICULTURAL PRODUCERS

Energy
The Ghana Agricultural Insurance Pool (GAIP), a firm mandated to offer agricultural insurance services, has settled the claims of 1,392 farmers, under an out-grower scheme of Agricare Limited.

The farmers, whose farms in Northern Ghana, were affected by drought, bushfires and Fall Army Worm, were given a cheque for GHC734,000.00 in total.

They subscribed to the insurance package by Agricare Limited as part of an agreement to supply the company with maize for feed production.

Alhaji Ali Muhammad Katu, General Manager of GAIP, speaking to the media at a brief ceremony to present the cheque on Tuesday, said the money was expected to be disbursed to the farmers based on the about 32,117 hectares of farms affected, to make up for their losses.

Ideally, he explained that farmers were supposed to re-pay inputs they received from the Agricare Limited in crop yield but due to drought, bushfires and Fall Army Worm, they lost a majority of their yields.
Product Delivery

Agriculture, 1
Health, 2
Weather, 4
Airtel Money, 5
Different language, 9
Registration, 0

mAgri
Weather forecasting and monitoring: Mobile solutions for climate resilience
Kilimo Salama Registration Process

KENYA – ACRE AFRICA

1. **Purchase**
   Farmers buy inputs and pay 5% extra to insure the inputs at selected stockists.

2. **Registration**
   Farmers receive a card from the stockist on which they fill their details received by SMS.

3. **Measurement**
   During the season the weather station measures the rainfall.

4. **Compensation**
   In case of a payout farmers receive compensation via MPESA.
Business Development

- Disaster resilience
Value Chain Approach for all Services
Thank You

https://goo.gl/Fzhbkc

ROBUST CLIMATE OBSERVATION IN AFRICA AND LOW RESOURCE COUNTRIES: DEVELOPING PRACTICABLE PUBLIC PRIVATE PARTNERSHIP MODELS