



**Republic Of Zambia**  
**Ministry of Transport and Communications**  
**Zambia Meteorological Department**

# **TWINNING MEETING OF SWFDP AND SARFFG PRESENTATION ON HYDROMET SERVICES STATUS IN ZAMBIA**

BY

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Mbabane, Swaziland

16 – 21 January, 2017.

# Current Status

- Station network density stands at 68 AWSs and 41 manual Synoptic station
- Issuing of flash flood guidance warning reports
- Central Forecasting office operates from 08 -17hrs
- Generating of Weather Forecasts are centralized
- Provincial offices collect data and disseminate forecasts
- Institutional collaboration of stakeholders in the early warning system (DMMU, ZMD, WARMA) though need strengthening
- Use NWP and EPS from Global Centres to produce warning
- Use MESSIR VISION and SYNERGY for preparation of forecasts

# Future realistic state

- Modernized hydromet infrastructure
- Increased station network density to at least 150 AWSs
- Develop localized forecasting model
- Introduce Impact Based Forecasting
- Develop a well defined threshold based EWS
- Produce location specific forecast
- Strong institutional collaboration
- Produce downscaled forecasts by provincial offices
- Strengthened information dissemination and public awareness platforms
- Introduce the use of CAP ( Common Alert Protocol)

# Gaps in End to End EWS

- Inadequate station network density
- Inadequate skilled manpower
- Weak institutional collaboration
- Inadequate financial support from Government
- Lack of local forecasting model (WRF)
- Slow internet connectivity
- Forecasting activities are centralized
- We don't operate 24/7
- Calibration of AWSs
- Inadequate

# Major blocks to fill the gaps

- Capacity building
- Installation of more AWSs
- Partial commercialization of meteorological products and services
- MOU with DMMU and WARMA

# Communicating and responding to Communities and Disaster Managers needs about weather related issues

- Have collaborated with media institution in dissemination of weather related issues
- Through RANET to communicate weather and climate information to rural communities
- Internet-email
- ZMD website
- Forecasters are members of disaster management committees and have regular contacts with disaster managers

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- Through conducting seasonal rainfall forecast sensitization and dissemination meetings with various stakeholders.
- TV and radio stations in both English and local languages