

# Warnings (Decision Support)

## Challenges faced by NMHS

- Shortage of personnel in NMS and NHS to operate full time (24/7)
- Lack of skilled forecasters to generate the warnings
- No proper flash flood forecasting system to support and compliment SARFFG warnings.
- Poor weather and hydrological instrumentation for monitoring of weather and hydrological data
- Sparse or observation station networking to cover the most vulnerable areas
- Lack of localised forecasting models (Numerical Weather and hydrological Models)
- Limited skill in forecasting and packaging warnings messages
- Lack of coordination between NMS and NHS
- Poor station network set-up: NMS gauges do not direct feed into the NHS system which causes some delays in acting.

## What need to be done?

- Capacity building in both NMS and NHS
- Stakeholder workshops to share roles and responsibility
- Integrated station network design so that NMS can directly feed the NHS
- Establish better warning mechanisms by taking advantage of the regional initiatives
- Develop a joint standard operation system for NMS and NHS (e.g. Operational Decision Support System that takes into consideration both parties weaknesses and strength)