

The South African Weather Service

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Current status

- **Data and communication**

- Large observational network and models available
- Available to forecaster via web portal and other

- **Forecast and Decision support**

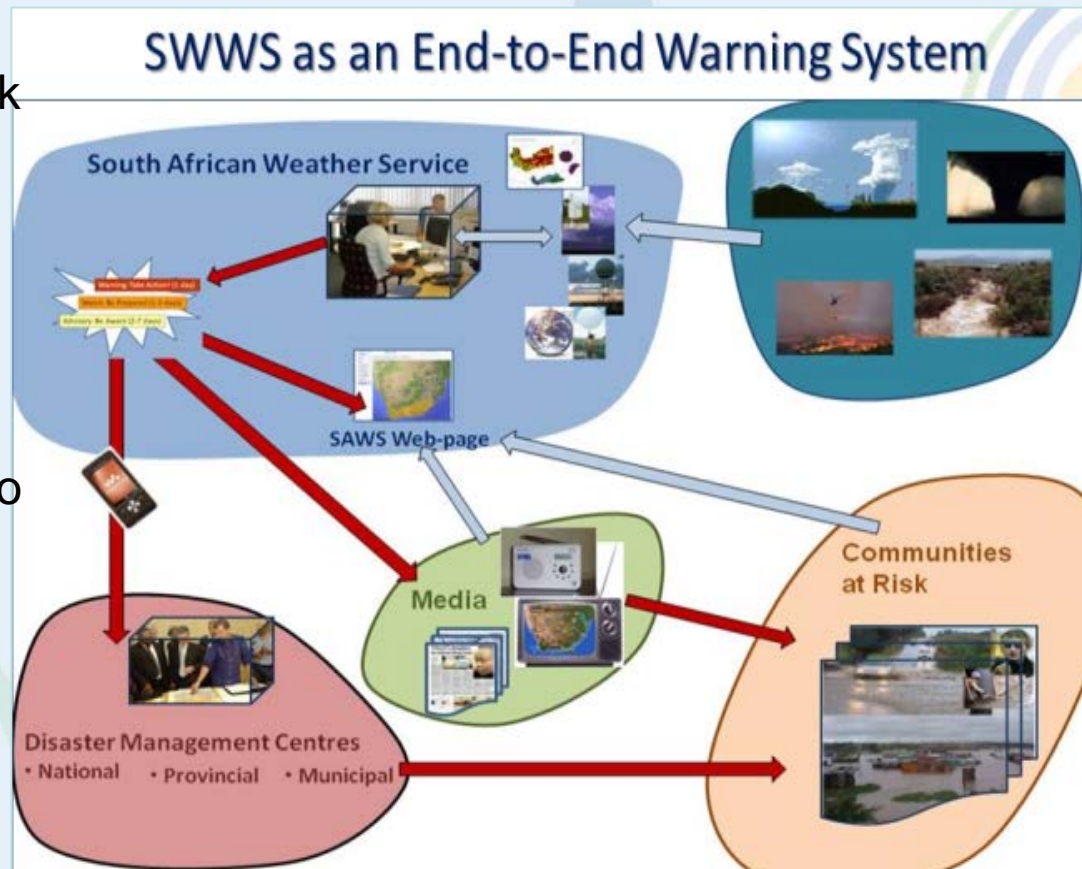
- Alerts prepared according to standard work instructions
- Alerts issued include watches, warning and special weather advisories

- **Warning Dissemination**

- Disaster management, media, social media platform's and website
- Alerts issued via sms, email or CAP messages

- **Feedback**

- Disaster management reports and public



Future Realistic State

- Increase and improve the current observational network
 - Better integration thereof
 - Better link to other sources of observational data (e.g hydrographs and web cams)
- Forecasting practices and information
 - Higher resolution model (UM 4km)
 - Hazard monitoring dash board and improved web portal
 - Forecaster display system to integrate use of models, observations etc.
- Impact based forecasting
 - Currently going into testing phase
- Increase public awareness and understanding
- Affective information sharing with disaster management through a web portal

Gaps

- Observational network
- Forecaster display system – seamless use of all information available
- Warning dissemination
 - Message not always correct to be used by disaster management or public
 - Improved communication with disaster management required
 - Message does not always reach the general public, especially grass-roots
 - Community response low and more awareness required

Major steps needed to fill the gaps

- Ensure funds always available to maintain and increase the observational network
- Forecaster display system
- Web portal for disaster management for information sharing
- Impact based forecasting (testing and implementation)
- System to get message out to grass-roots and community response
 - Improved technology
 - Improved use of social media
 - Community awareness programs

Resources required

- Observational network
 - Costs: Increase network and network maintenance
 - Human: IT staff and maintenance
- Forecast display system
 - Costs: License cost
 - Human: Trained IT personal
- Web portal for Disaster Management
 - Human: IT personal
- System to get message out to grass-roots and community response
 - Costs: Community response technology
 - Human: IT and other (people to educate and local contacts)