

Weather Data Sharing: A chance for Foresight

HOW CAN CITIZENS BE BETTER PREPARED FOR CHANGES IN THE CLIMATE



METEOROLOGICAL SERVICES DEPARTMENT

(ZIMBABWE)

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CLIMATE and WEATHER SERVICES



SYNOPTIC DATA

- Collected every hour
- Collected using observational stations and AWS
- Originally sent by telephone, now migrating to CLIMSOF
- Sent every 3 hours to PCCs and entered into CLIMSOF
- Hourly data collected monthly and entered into Climssoft and by DPU
- So far all PCCs and NCCs were upgraded to CLIMSOF
- latest installation being done in Victoria Falls and Bulawayo on 10-15 June 2018

SYNOPS

- Collected hourly
- Sent to Provincial CC

PROVINCIAL COLLATED SYNOP

- PCCs check for quality
- PCCs send to NCC

NCC COLLATED SYNOPS

- NCC check for quality
- NCC send to RCC

SYNOPTIC DATA

OPPORTUNITIES

- Expansion of CLIMSOF to observational weather stations (workstations)
- Integrating the various AWS software to CLIMSOF for ease of Data transfer and collection.
- Improving internet connectivity between observational stations and PCCs
- Upgrading Communication systems (e.g. Messir Com) at PCC and NCCs
- Staff training on CLIMSOF and Messire Com

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NCC
COLLATED SYNOPS

- NCC check for quality
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METARS, SPECI & TAF

- Collected and sent according to ICAO/WMO standards
- Collected using AWOS, last upgrade was at the Victoria Falls airport when Airport was refurbished.

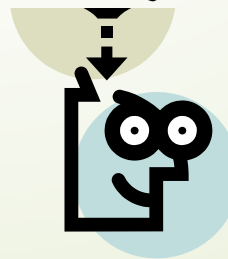
OPPORTUNITIES

- Sent Using Messire Aero, though upgrade of system is required
- Cost is recovered from Airlines, though some challenges have been faced
- Training of technicians in maintenance of all equipment,
- Having resident engineers at all major airports



RESEARCH & PROJECTS

- Close collaboration with Universities.
 - Collaborative Research
 - Data for individual research
 - Attachment for students
 - Part-time teaching opportunities for lecturers at Training School
 - Guided tour for universities, colleges and schools
- Commercial Projects
 - Require more area specific data
 - Data is provided at a cost recovery charge (Temperatures, lightning, precipitation etc)



WARNINGS DISSEMINATION

- Communication Channels
 - Direct Telephones of the Authority
 - Email/Website/Social Media
 - MSD Station Net-work
 - Common Alert Protocol (CAP platform were all life threatening hazards are broadcast)
- Annual Meetings with DCP (e.g. Long-term forecast-able events)

FORECASTER
(Met Service Dept)

DISASTER MGT
(Dept of Civil Protection)

- Early Warning Systems
 - Through organizational structure to District level.
 - Response Teams and Air Force
 - Disaster Response

- Inform them through:
 - Individual mobile phones
 - Community Weather Radios (latest distribution May 2018, Masvingo Province)
 - Telephone Community Leaders
 - Radio/Television
 - Community Outreach

GENERAL PUBLIC

Southern African Regional Climate Outlook Forum ()

SARCOF

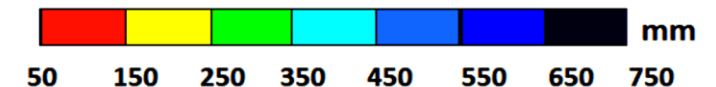
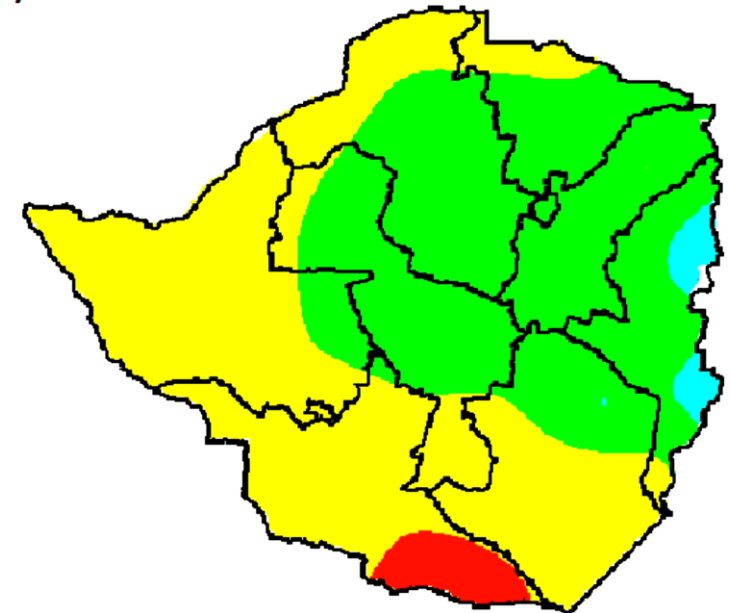
- Attend and share data and expertise with 13 other countries
- Hosted by different countries enables

OPPORTUNITIES

- Downscaling to Provincial and districts
- Farmers need more inform on intra-season anomalies

Seasonal Forecast (OND)

(a)



Building a Sustainable Way

Form Strategic Partnership

- Closer inter-agency partnership between NMSs within the region in various projects to improve data sharing
- Use available communication channels to solve national, regional and continental challenges
- Leverage PPPs for strengthened products and services

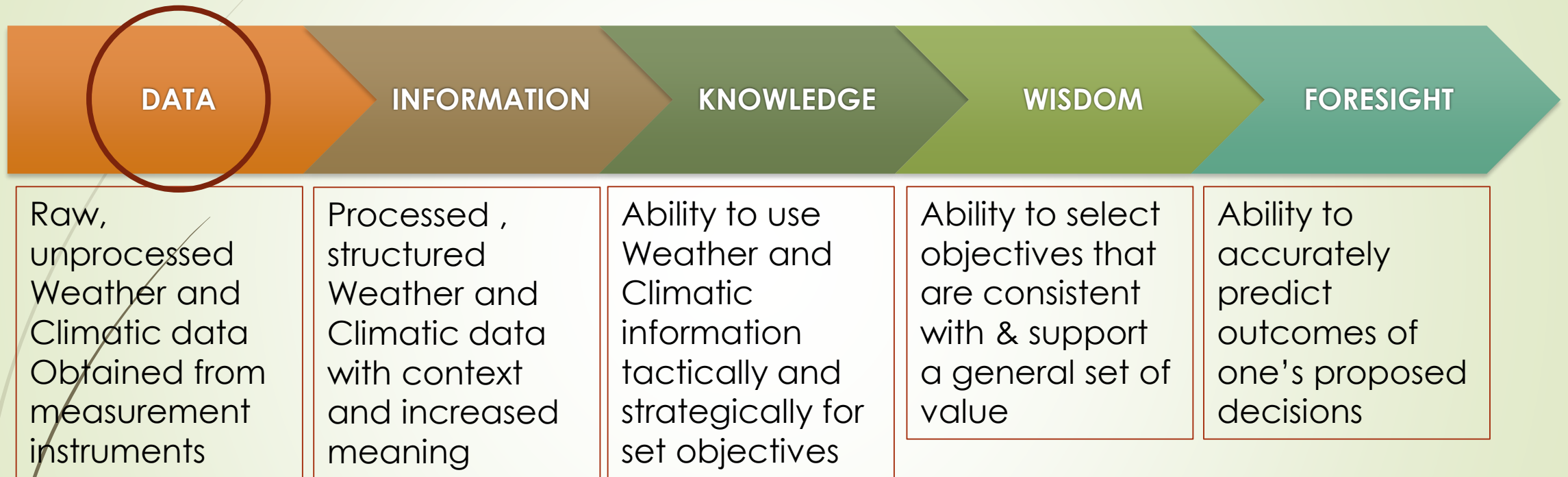
Share Business Models from Regional/International Agencies

- Share best practice (e.g. Sector Specific Products and Services:)
- Recently embarked on Monthly Weather Overview Report which has added to products in PWS

Take Advantage of Existing Electronic Platforms (Commercial Impact)

- Generator income through mobile applications, blogs, you-tube, wesite hits etc.

Conclusion



Raw, unprocessed Weather and Climatic data Obtained from measurement instruments

Processed, structured Weather and Climatic data with context and increased meaning

Ability to use Weather and Climatic information tactically and strategically for set objectives

Ability to select objectives that are consistent with & support a general set of value

Ability to accurately predict outcomes of one's proposed decisions



WE CANNOT SOLVE OUR PROBLEMS
WITH THE SAME THINKING
WE USED WHEN WE
CREATED THEM

-Albert Einstein

“

**THANK YOU,
ASANTE SANA,
MERCİ BOUCOUP**”

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