SATELLITE TO ENABLE EARLY WARNING

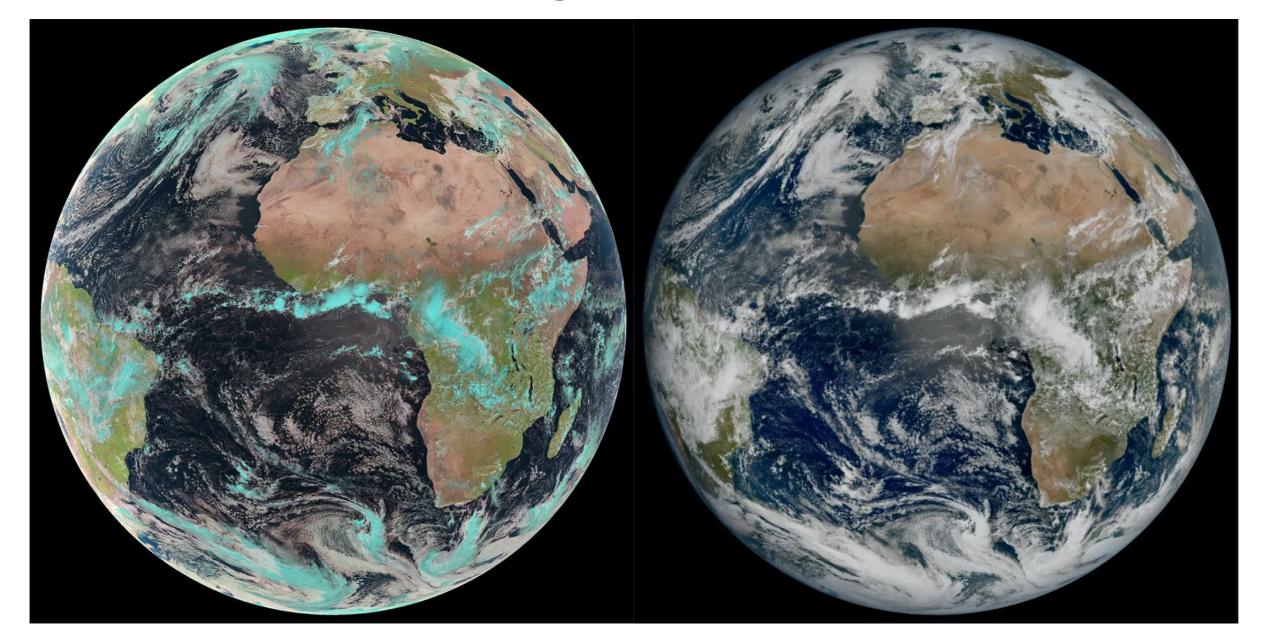
Sarah Kimani KMD-IMTR/RAIDEG Chair







MTG Changes The Game?



Current applications of EUMETSAT satellite data in Africa

- Weather forecasting and Nowcasting
- Verification and evaluation of weather forecasts and Numerical Weather Prediction outputs
- Data assimilation; improves the quality of the data being used
- Climate monitoring; changes in climate and agriculture
- Sector specific applications

MSG data

- Consistently good in quality and performance; able to be trusted
- Versatile; adapted to many different sectors or activities
- Exponential enhancement from MFG in the product offering
- Multiple ways in which to visualize data, including free software
- Relationships and collaborative work between organizations developed



MTG; Game Changer!!!

- Fire tracking products
- Lightning imager; storm development, life cycle; spatial distribution of total lightning activity and its extent will help improve public safety.
- Increased temporal (10mins) and spatial resolution (1km); forecasters to warn of imminent hazards and to predict fast developing severe weather such as strong winds, lightning, hail, heavy rain, tropical cyclones, and thunderstorms
- Improve forecasts and will make an important contribution to the EW4ALL, especially on the African continent



Data access & Visualization tools



Improved access, processing, applicability and use of EO data for Early Warning

- EUMETCast Terrestrial
- Cloud computing
- RARS, PUMA 2025 & ClimSA stations
- Skyceiver
- EUMETView

AMSAF

- To enable stronger support to nowcasting services across Africa:
- (African Meteorological Satellite Application Facility) AMSAF Abidjan declaration

"Africa shall not only be a user of satellite data & products, but shall generate its own products"

- Establish 4 dedicated regional nowcasting data regional hubs across Africa.
- These regional hubs would take on the responsibility of
 - Receiving the full suite of MTG data,
 - Processing the data,
 - Running various processing software, such as EUMETSAT NWC SAF software and
 - Providing tailored products to several countries for which the regional hub is responsible.

LOOKING INTO THE FUTURE

- Relationships will strengthen and collaborative work between organizations will continue to develop
- Research opportunities; academic, space based products, sector specific etc
- Capacity development; growth and development of African Users
- Design and development of new operational products; Nowcasting

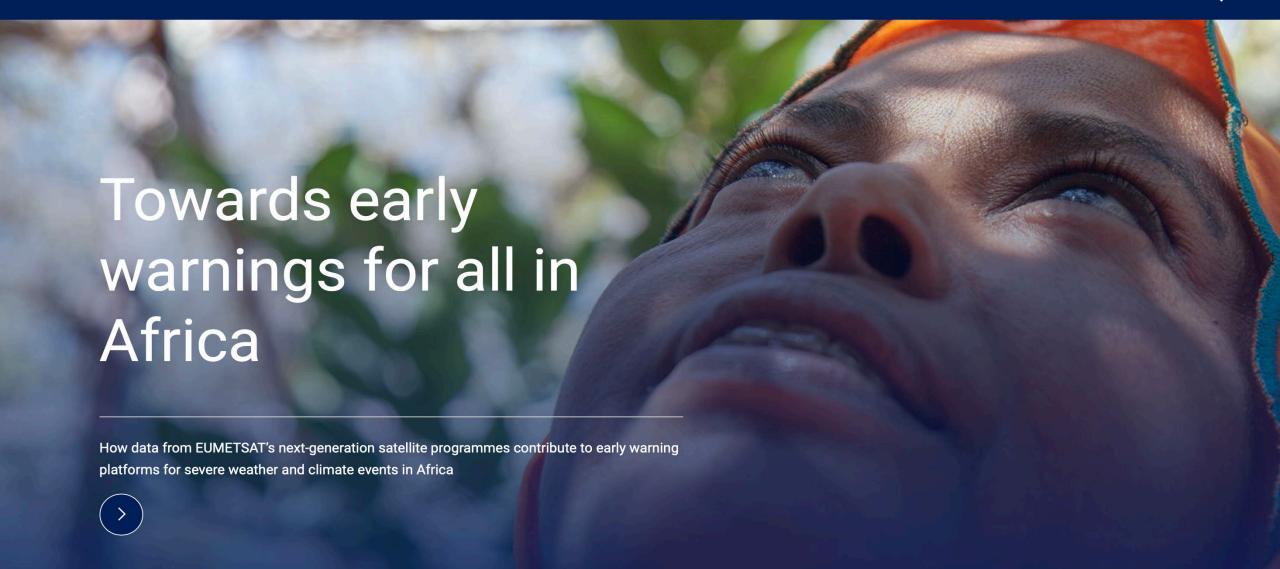
IMAGES

ATFLLITES

ABOUT US

DATA AND SCIENCE

NEWS AND EVENTS



Daouda Konaté, Director of the Côte d'Ivoire's National Meteorology Service and First Vice President of the World Meteorological Organization