



Weather matters

WEATHER INFLUENCES ALL ASPECTS OF EVERYDAY LIFE

Weather Patterns

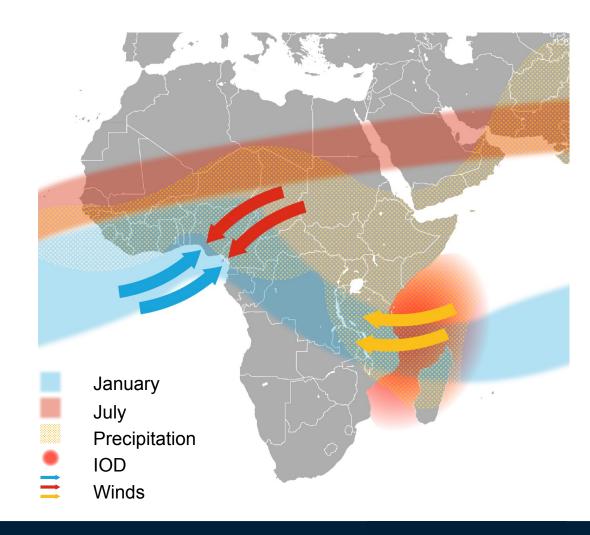
- Droughts, sand/dust storms
- Heavy rainfalls, flash flooding

Caused by

- O Monsoon
- O Harmattan
- Tropical Cyclones
- Intertropical Convergence (ITCZ)

Affected by

- El Niño / La Niña
- Indian Ocean Dipole (IOD)





Who we are

WE STAND FOR THE HIGHEST PRECISION

FS Private Trust

UBIMET O O O

- Established 2004, with focus on high-precision technology
- Led by the founders, global strategic partnership with Red Bull
- ISO 9001 certified weather service provider with headquarters in Vienna and branch offices around the globe (e.g. New York, Melbourne)
- Innovation leader in offering severe weather warnings





Base Layer 1: Observation Network

GLOBAL NETWORK OF HIGH PRECISION WEATHER INFRASTRUCTURE

Own Lightning Detection System

- Patented 3D position heading
- Currently completing Nepal roll-out

Satellite Network

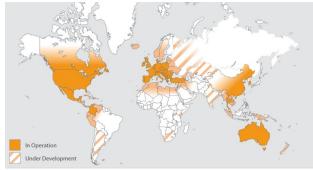
- Access to all major available satellite services
- Analysis of different channels to derive parameters

Weather Stations

- Dense network of meteorological sensors
- Precise wind, precipitation and temperature forecasts

Weather Radar Systems

- High resolution and street-level rainfall detail views
- Rapid data updates and precise early warnings

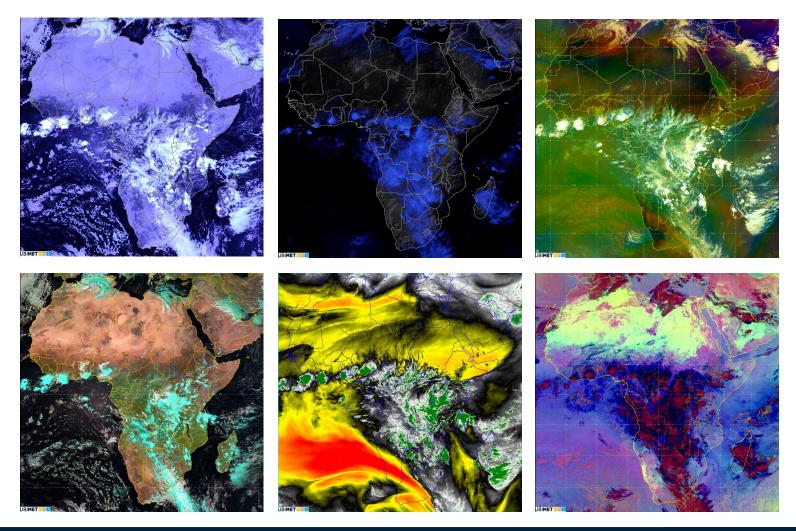






Base Layer 1: Observation Network

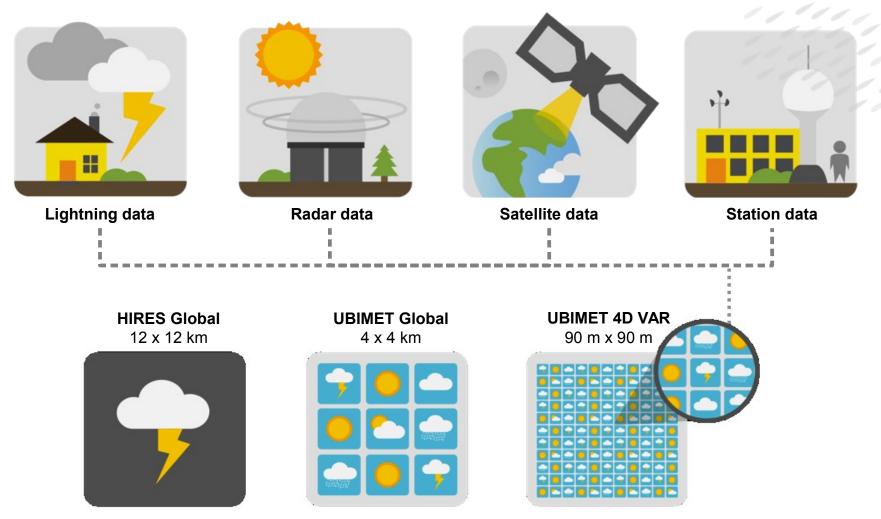
DERIVING ADDITIONAL PARAMETERS FROM OBSERVATION DATA





Base Layer 2: Own Weather Model

4D VAR DATA ASSIMILATION

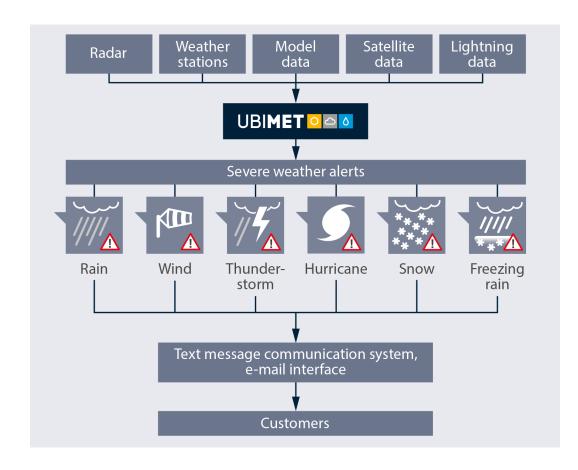






Base Layer 3: Severe Weather Warning

ALERT-SYSTEM



Input data

- Observations
- Weather Models

Alert Generation

- Type of alert
- Geographic region
- Timing information

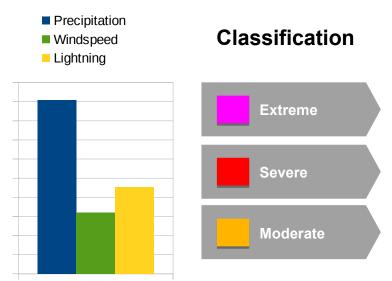
Message Transport

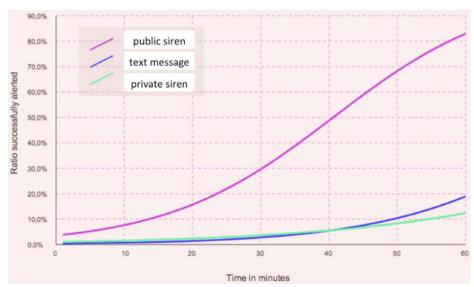
- Identify customers
- Media selection
- Text generation



Base Layer 3: Severe Weather Warning

OPTI-ALERT





Klafft, M. (2014). Current Issues in Crisis Communication and Alerting, 85. https://www.researchgate.net/publication/263350476_Current_Issues_in_Crisis_Communication_and_Alerting

The choice of the alerting tool should correlate with the age of the recipients.

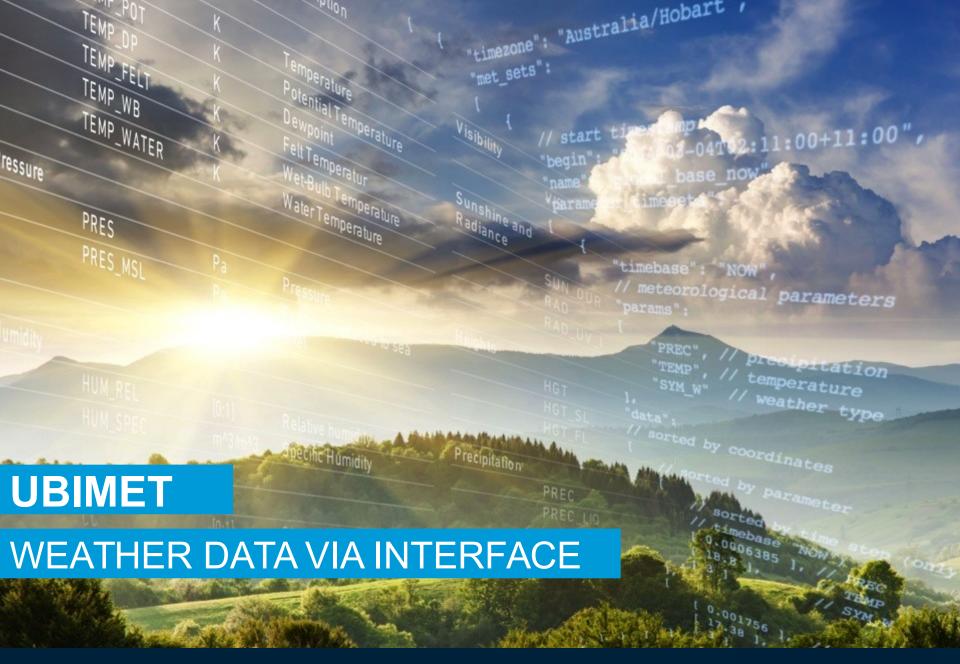


The alert message should correlate with the area of residence.



The choice of the alert sender should correlate with the respective "national trust context."

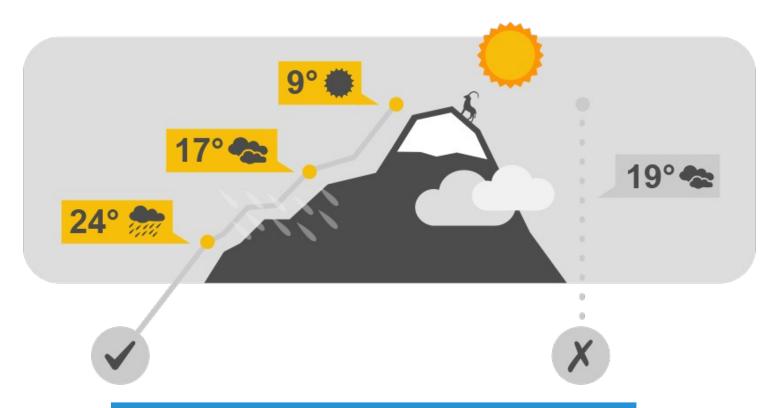






UBIMET Connect: DEMO

OUR POINT OF DIFFERENCE



PRECISE PINPOINT FORECASTS.
IN REAL-TIME. ON DEMAND.



UBIMET

WEATHER COCKPIT





- · Rain radar & lightning detection
- Animated Forecasts

Individualized Alerts

- By SMS
- · When limits are exceeded







MobComWeather

INNOVATIVE NEW DATASOURCES FOR METEOROLOGY

Utilizing signal quality data of cellular radio networks for precise precipitation nowcasts.

Input data

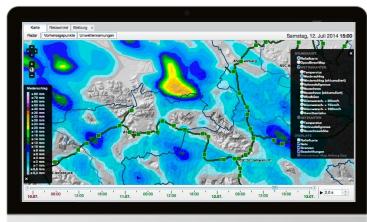
- Signal quality of radio links
- Transmission loss
- Packet loss between base stations and mobile radios

Methods used

- Intelligent pattern analysis
- Classification algorithms

Outputs used as

- Input to weather nowcasting models
- Improving its regional and temporal precision
- Regions with limited or without any rain radar



More information at: rnd@ubimet.com



Weather should be no coincidence

BETTER INFORMATION = BETTER DECISIONS

+ EXPERTISE

- Professional experience in various sectors
- Exceptional data quality in real time
- International team of meteorologists, physicists, mathematicians, biologists, geoscientists, IT experts
- One-stop-shop for our customers

+ | GLOBAL & LOCAL

- Tailored and locally adapted customer solutions
- Stable shareholder structure: two private trusts and Red Bull
- Worldwide access to weather station data

+ INNOVATION

- Market leader in severe weather warnings
- Development of cutting-edge technologies
- On-going development of future-focussed services
- Customer solutions for increased efficiency and cost reduction

+ QUALITY MANAGEMENT

- In house R&D department
- Continual enhancement of weather models, products and forecasting techniques
- Extensive cooperation with the Fraunhofer Institute
- ISO 9001 certification



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