



AFRICA DROUGHT MONITORING & ADVISORY

EMPOWERING AFRICA TO MONITOR DROUGHT AND PROVISION OF ADVICE FOR EARLY ACTION

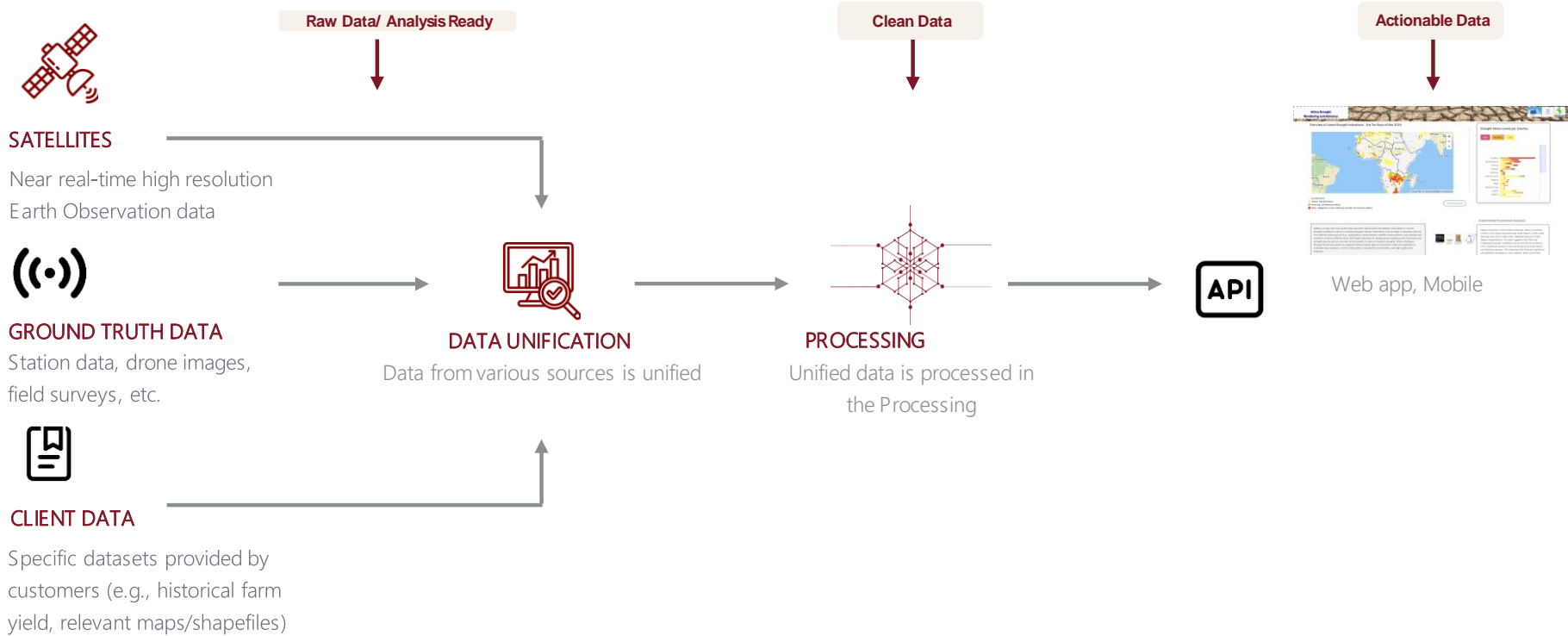
The ADMA system is focuses on provision of Drought information and advisory to enable communities to be resilient and counter drought scenarios thus empowering them to have better lives.

The continental infrastructure, is tailored to collect and make meaning out of environmental data indicators that contribute to drought situation.



THE ADMA SYSTEM

The overall Vision



DATA CATALOG

AGRICULTURE

Vegetation Indices

- **Vegetation indicators**
 - fAPAR Anomaly
 - NDVI

Soil Conditions

- Soil Moisture Anomaly

CLIMATE & WEATHER

Climate related and Disaster Monitoring

- **SPI**
- **Combine Drought Indicator**

Weather

- Rainfall

GEOGRAPHIC DATASETS

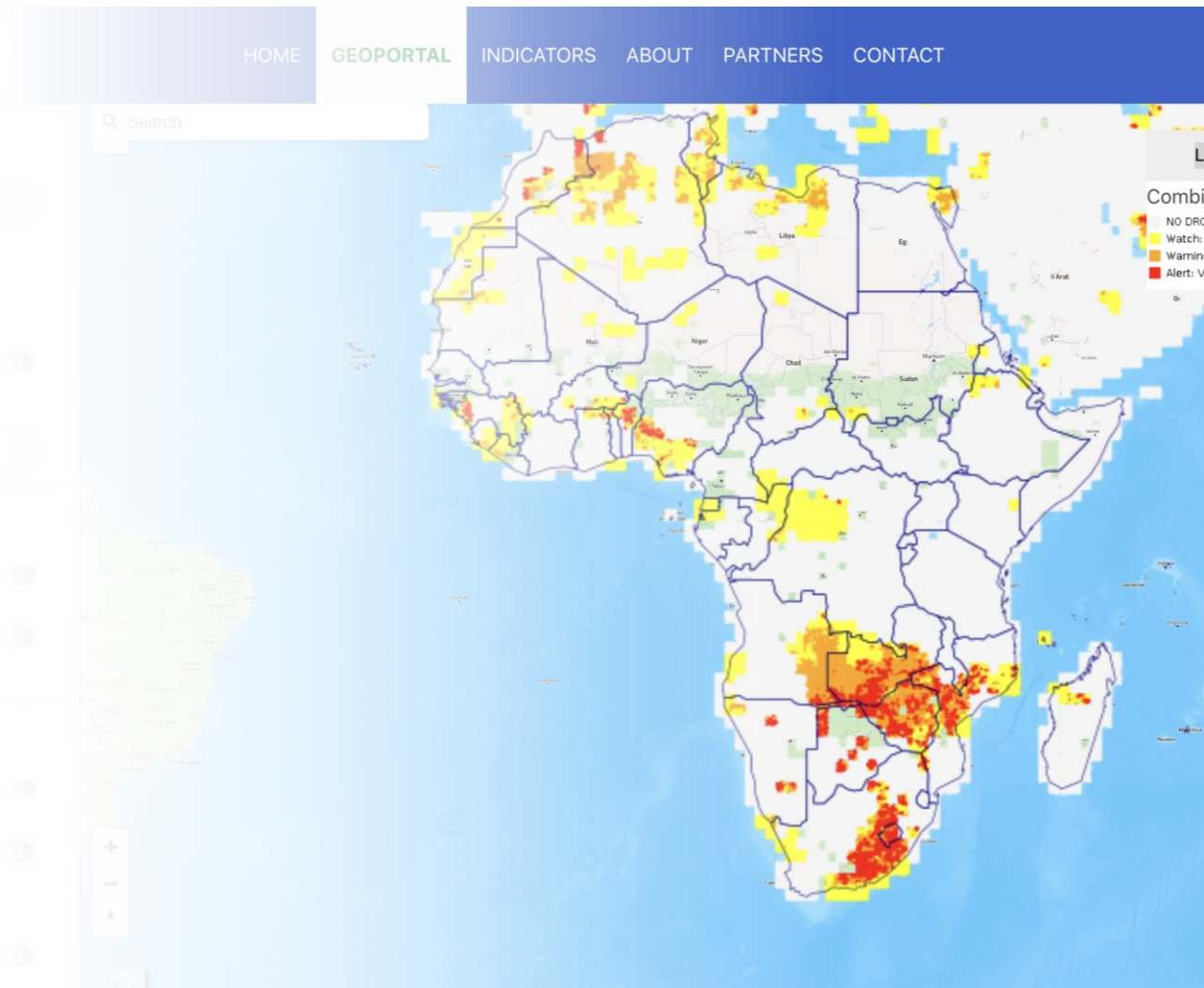
- Koppen Climate Classification

SOCIAL ECONOMIC LAYERS

- Protected Areas

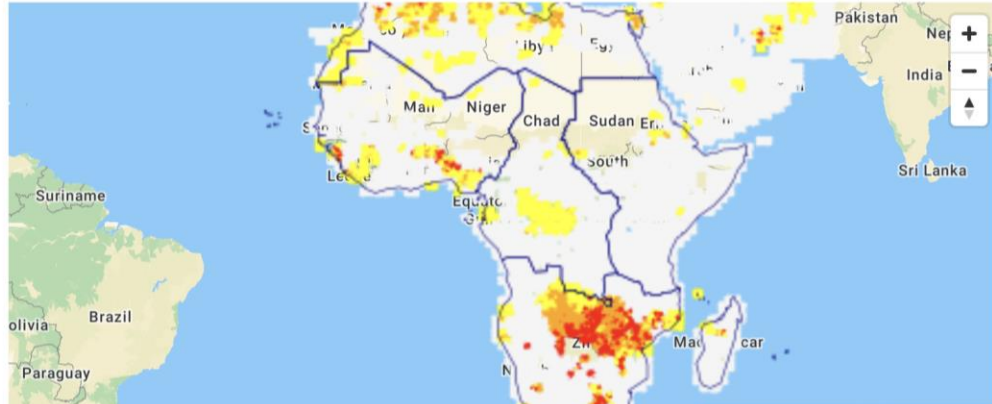
GEOPORTAL OVERVIEW

- Presents features and tools for map interactions
- Region selection tools
- Product selection and dates variation
- Location Search
- Analysis tools
- Metadata and CDI download

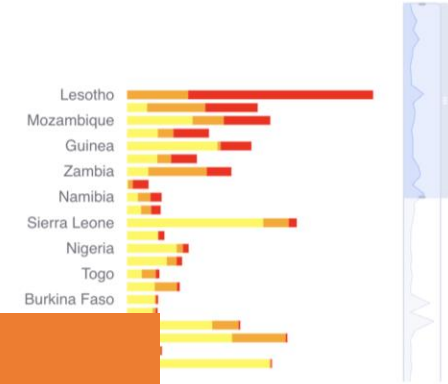




Overview of Latest Drought Indications : 3rd Ten Days of Mar 2024



Drought Stress Levels per Country



HOME OVERVIEW

- Highlights the drought overview for the continent
- Shows drought stress level per country with priority for countries with Alert phase of the drought.

GEOPORTAL EXPLAINED

The screenshot displays the Africa Drought Monitoring and Advisory Geoportal interface. The top navigation bar includes links for HOME, GEOPORTAL, INDICATORS, ABOUT, PARTNERS, and CONTACT. The main content area is divided into a left sidebar with filter controls and a right map area. The sidebar includes sections for REGION and COUNTRY selection, Admin boundary, COMBINED DROUGHT INDICATOR (CDI) with a 10-day CDI toggle and a date selector (2024 Mar Dekad : 3rd), PRECIPITATION INDICATORS (Standard Precipitation Index (SPI) and monthly precipitation), and VEGETATION INDICATORS (SAPAR Anomaly, SAPAR Absorbed, and Normalized Difference Vegetation Index). The map area shows a map of Africa with a color-coded legend for the Combined Drought Index (CDI), ranging from no drought (white) to alert (red). A search bar is located at the top left of the map area. A vertical zoom control is on the left side of the map, and a basemap control is at the bottom left of the map area.

Selection of Region

Selection of Country

Product Activator

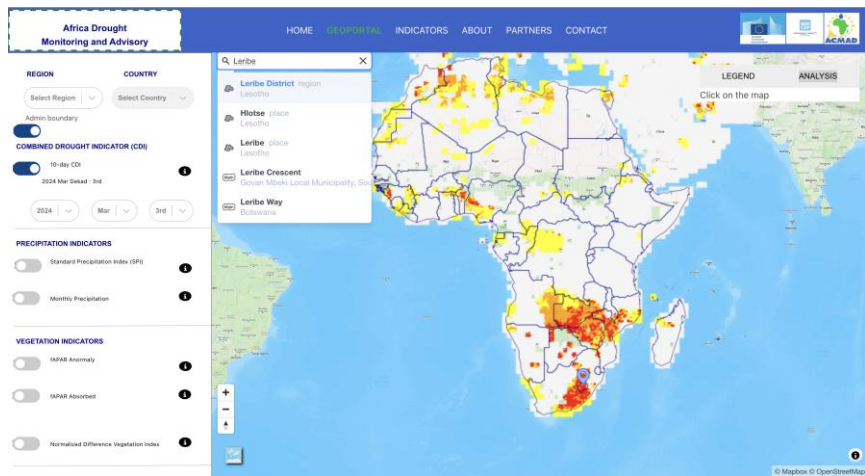
Year/Month/Dekad

Product Description

Search locations

Map Zoom control

Basemap Control



Searching location



Analysis functionality

GEOPORTAL EXPLAINED



Drought Indicators

The African Drought Monitoring and Advisory system is based on the analysis of combined satellite data for precipitation, soil moisture and greenness anomalies. This analysis results in the Drought Condition Index (CDI) and the latter acts as an indicator of the areas at risk of agricultural drought. The vegetation has already been affected in some areas under no drought conditions. In this version, the classification scheme defines four phases: "No drought", "Watch", "Warning" and "Critical".

Drought Indicators Monitoring

Soil Moisture Anomaly (SMA)



Quality public services require strong partnerships. Our partners help us continuously improve our Climate Service. Environmental monitoring or co-production of services. We are always striving to build alliances that help us continue using the contact button below!

Respond to Drought. The Africa Drought Advisory and Monitoring system; provides information and resources. We're here to help you prepare for and respond to drought, so you can build a more resilient future for your country.

54
African Countries Covered

12
Indicators and Products Available

Advisory (ADMA) services

Observation and Weather information to drought-relevant information such as maps (e.g., precipitation measurements, satellite data). Different tools, like Graphs that allow drought reports, give an overview of the status of a Drought Monitoring system in the region. The possibility to automate data-anomalies, and high-quality web mapping.

What is drought and in which type?

Drought is a climate extreme characterised by persistent unusual conditions affecting the hydrological balance. The conditions are usually associated with low precipitation and deficit in soil moisture and water reservoir storage. Accordingly, droughts can be characterized in terms of their duration, and timing. Droughts can arise from a range of hydrological conditions that suppress precipitation and/or limit surface water or groundwater availability that are significantly drier than normal or otherwise linked to a potentially damaging extent (*Handbook of Drought Indicators*, 1173).

Drought Stages

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