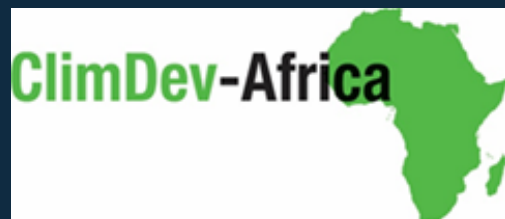




CLOSING THE HYDROMET CAPACITY GAP IN AFRICA: OUTCOMES AND IMPACT

CLIM-DEV AFRICA SPECIAL FUND, Annual Report, 2022

**James, Dieudonne, Yaovi, Sara & Consultants, Task
Managers and Partners of ClimDev**



Economic Commission
for Africa



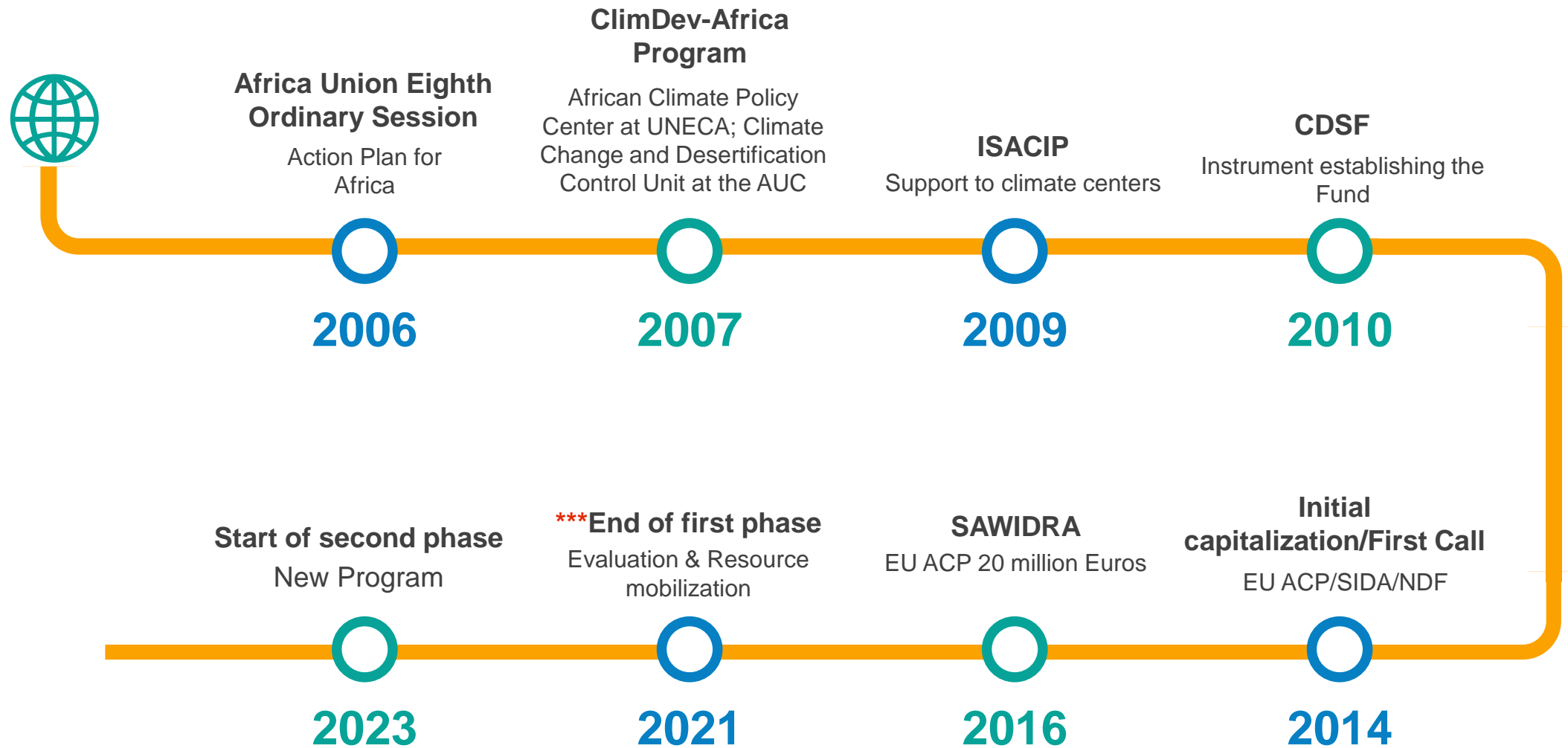
African Union
Commission



African Development
Bank

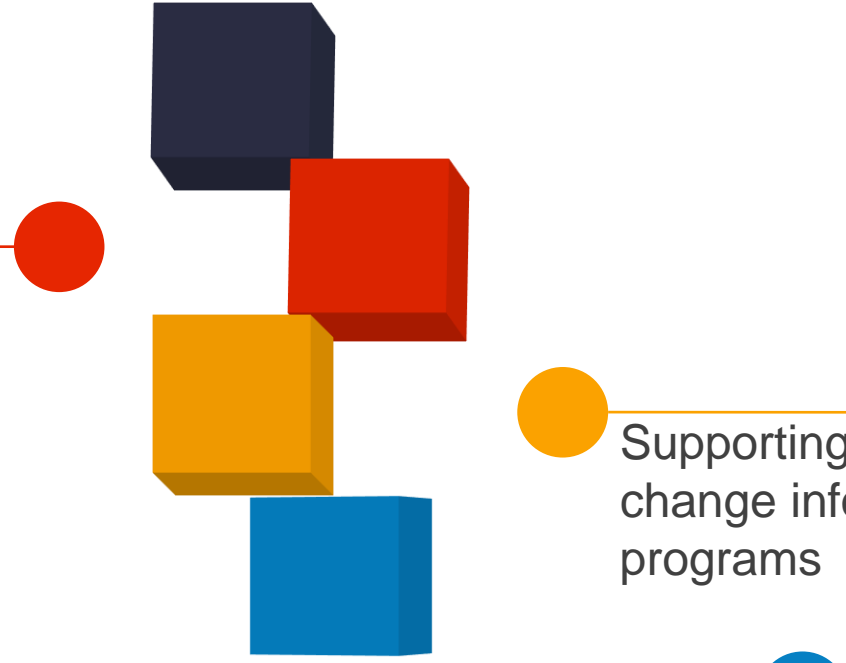
April, 2023

OUR HISTORY



OUR OBJECTIVES

Invest in the critical climate information, analysis, and options required by policy and decision-makers to take action to promote climate resilient development in Africa



Generating and disseminating reliable and high-quality climate information

Supporting the integration of climate change information into development programs

Implementing pilots that demonstrate the value of mainstreaming climate information into resilient development program

OUR FINANCES

DONOR CONTRIBUTIONS IN €

EU-ACP

•-----20 MILL

SIDA

•-----10.8 MILL

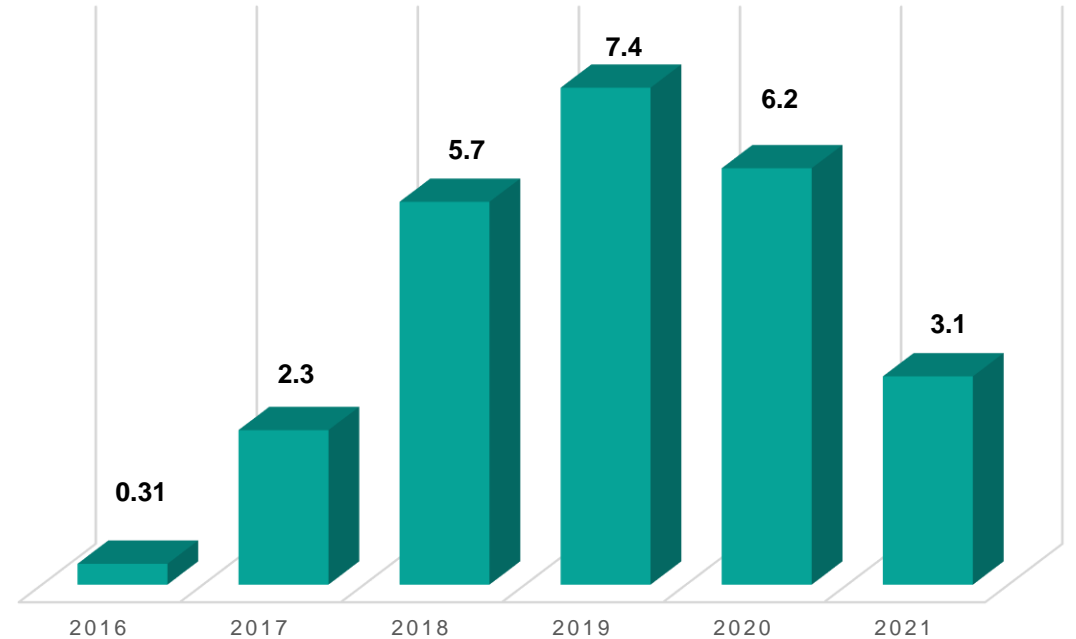
NDF

•-----5 MILL

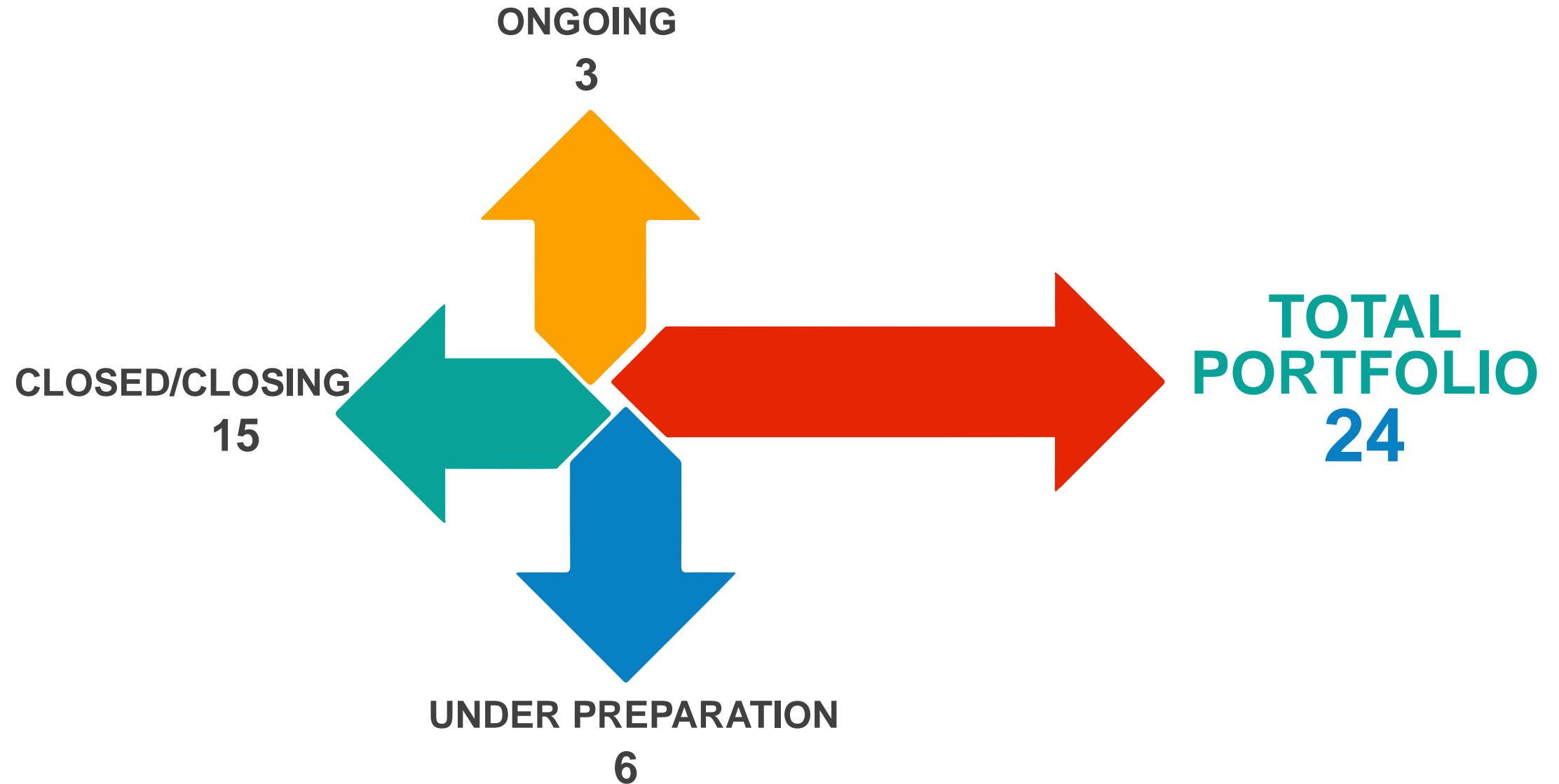
TOTAL

•-----35.8 MILL

DISBURSEMENTS 2016-2021



OUR PORTFOLIO



OUR WORK



RARS
Surface and
upper weather
stations

**Observation &
Monitoring**



HPCs
Mesa Puma
Digitalizing
historical data

**Data Collection,
Storage & Analysis**



NWP
Nowcasting,
Short, medium,
long-term

**Forecasting
& Modelling**

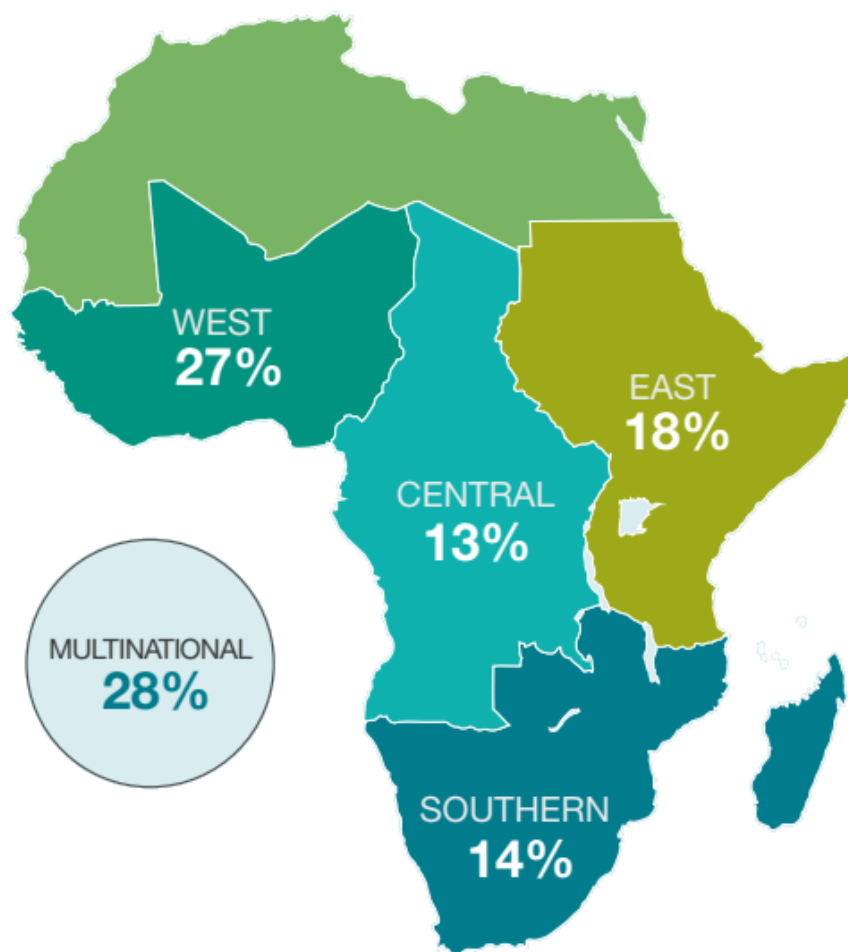
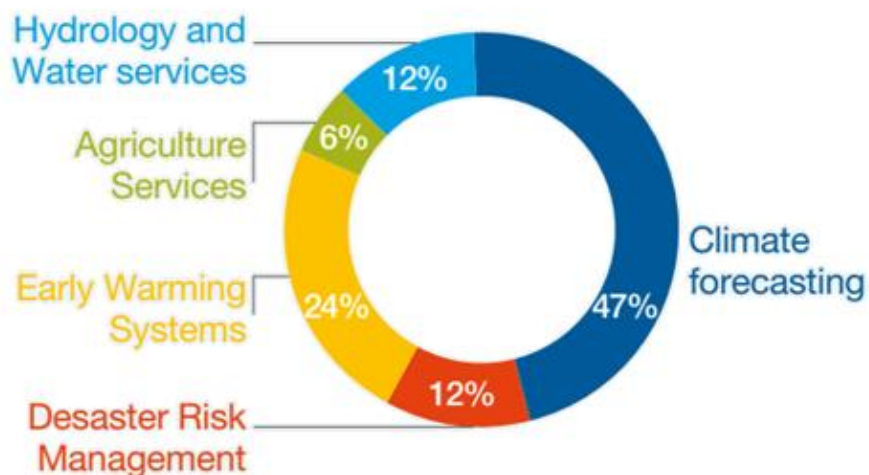
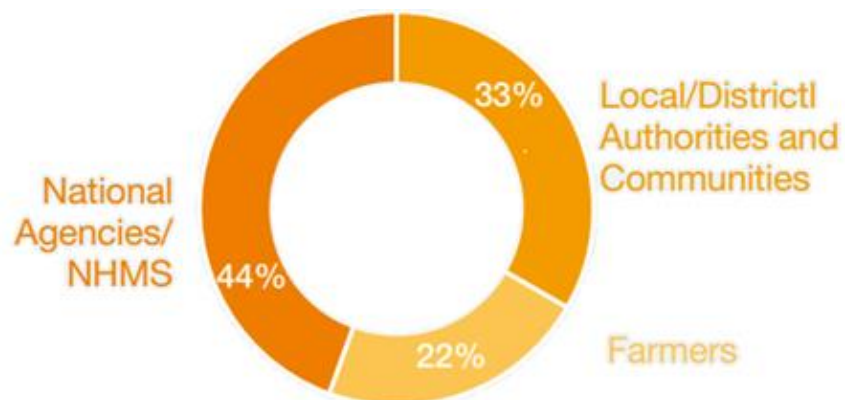


Communication
Early Warning
Sector-tailored
products

**Dissemination &
Delivery**

Capacity Building

OUR BENEFICIARIES



32% **68%**
women men



27% **73%**
women men

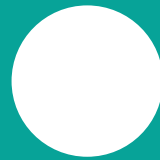
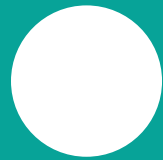


29% **71%**
women men



23% **77%**
women men

OUR ACHIEVEMENTS



Closing the Gap in Observation for Climate Early Warning

Quantity and quality of weather observations and forecasts fall far below the minimum level required to provide early warning services. WMO estimates that 54% of Africa's surface weather stations and 71% of its upper-air weather stations cannot capture and report accurate data. **170 Stations in 17 countries**

Grants made available by the CDSF have helped to address:

- ❖ Weak data capacity
- ❖ Poor climate and weather information services
- ❖ Climate-induced public expenditure displacement.

More than 20%  In forecast accuracy

In Ethiopia, Clim-Dev Africa funds have helped to increase the number of automatic weather stations from 271 to 289

“Ethiopia’s ground network of stations is expected to lower the number of people affected by droughts, floods and land degradation from the current 6 million to under 2 million”

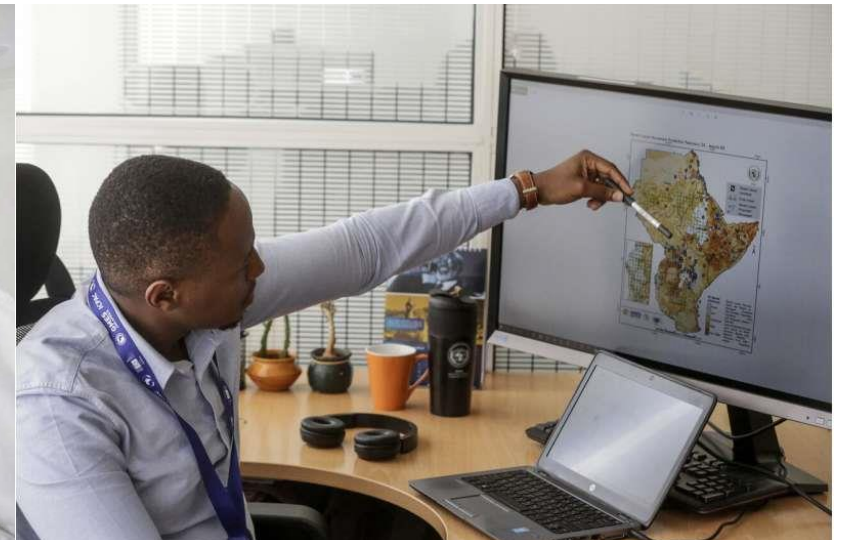
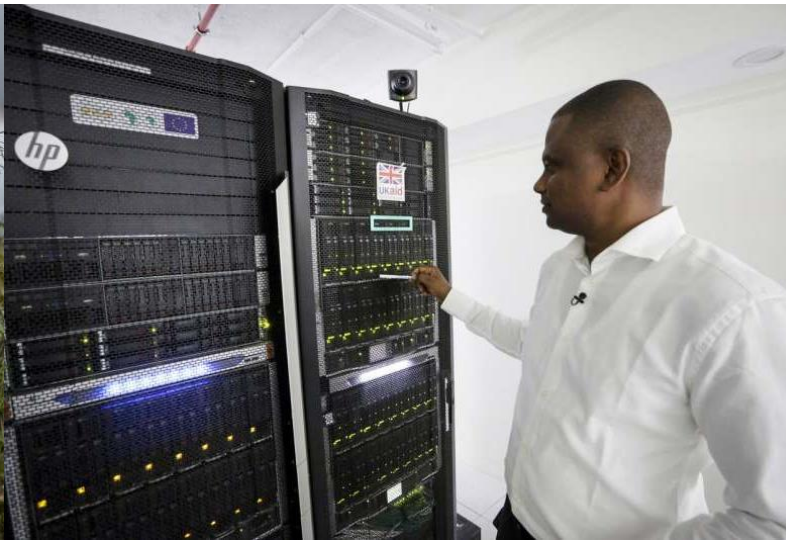
Strengthening Surveillance and Preparedness for Combating Pest Outbreaks – Horn of Africa

High-Performance
Super computers
combine ground
and
satellite data

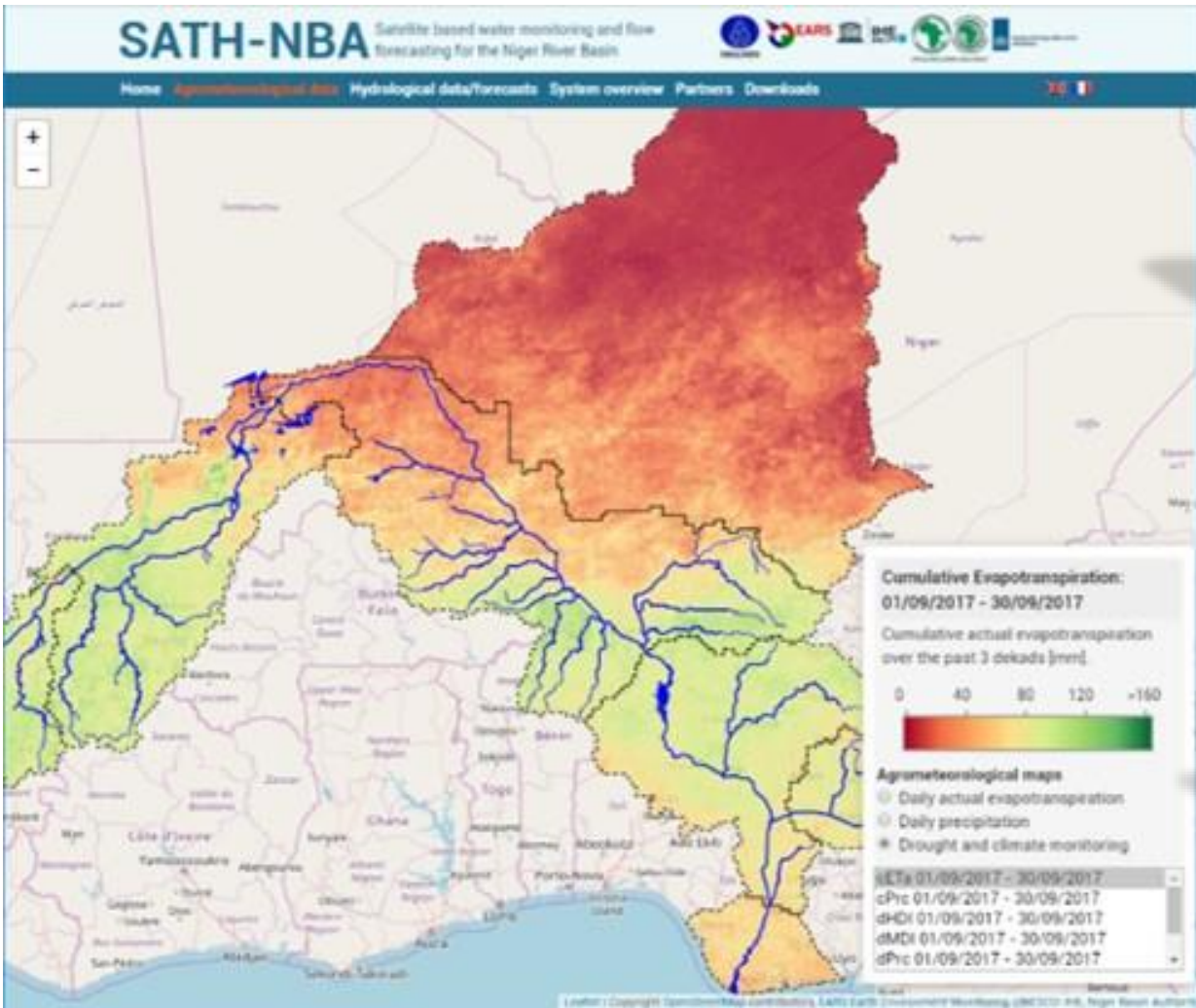
Data used to
develop seasonal,
monthly, or weekly
forecasts

Early prediction
facilitates rapid
action by
governments

Forecasts used to
predict favorable
conditions
for locust breeding



Strengthening Water Resources Management – Niger Basin



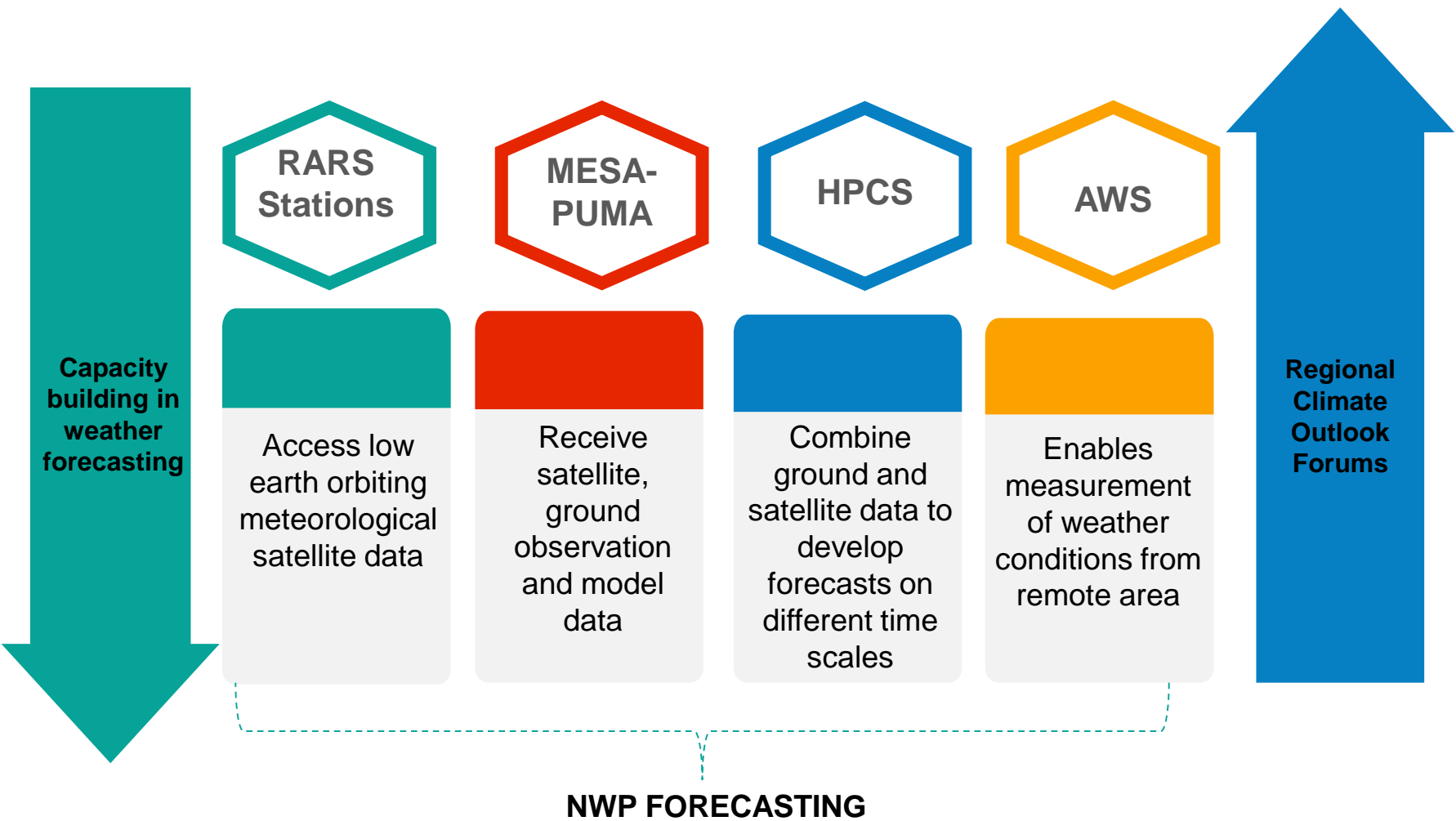
Satellite-based
system for water
flow forecasting
and early warning

Informed decision-
making regarding
water allocation in
agriculture

Increased drought
monitoring

Decreased food
insecurity

Satellite and Weather Information for Disaster Resilience in Africa Program



Early Flood Warning – SODEXAM Côte d'Ivoire

Acquisition
of automatic
weather
stations

Strengthened
early warning
systems

Real-time
weather
reports and
flooding risk
alerts

Early
response to
deadly floods
in Abidjan



Policy Support & Partnerships

**Alliance for
Hydromet
Development**

**Conference
on Climate
Change and
Development
in Africa**

**Africa
Working
Group on
Disaster Risk
Reduction**

**Systematic
Observations
Financing
Facility
(SOFF)**



New Investment Areas to Close the Hydromet Capacity Gap in Africa

**Hydromet
Investments
Save lives and
make economic
sense (WMO)**

**More than two
thirds of upper
air stations
unable to
capture data**

**Less than half
of surface
weather
stations in
Africa not
reporting Data**

**Six in ten not
covered by
early warning in
Africa**

Future Outlook

**A new
program
period to 2030.**

**Raise \$100M
in funding,
leverage 1:3**

New fund structure with 3 windows

- 1. Project Preparation Facility**
- 2. Technical Assistance [AMCOMET]**
- 3. Investments [Leverage/Co-financing]**

Investments along the Hydromet Value Chain



Observations

Forecasts
and Early
Warning

Climate and
Weather
Services

Data and
Modelling

Numerical
Weather
Prediction

Advisory
Products for
Decision
Making



AFRICAN DEVELOPMENT BANK GROUP

Let's Combat **CLIMATE CHANGE**
and Support **GREEN GROWTH**



<https://am.afdb.org/en/videos/climdev-fund-supports-africas-leading-climate-centers-icpac-kenya>