10th AFRIGEO SYMPOSIUM – ABUJA, OCTOBER 6, 2026

From Observations to Climate Action

Building CLIMET, a Digital Research Infrastructure for Climate Resilience

CLIMET

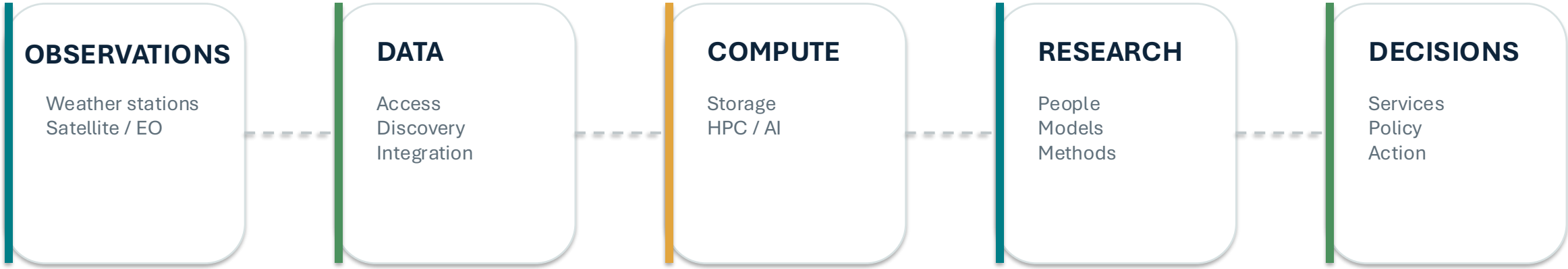
C mate **ME** eorology
LI + **T**

Omo Oaiya • Chief Strategy Officer • WACREN

THE CHALLENGE

Africa has observations. The gap is turning them into action.

The problem is not one missing dataset or one missing application – it is the weak connection between the pieces.



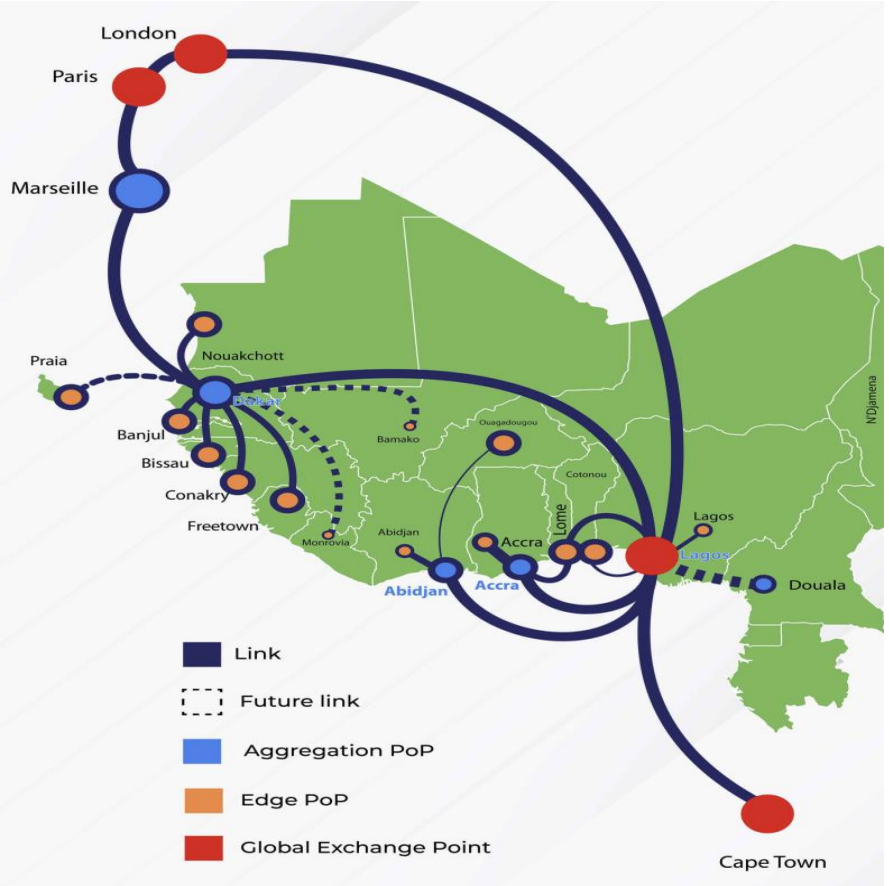
The opportunity: make the connections systematic.

Source basis: WACREN climate synthesis; weather monitoring white paper; AC4 Description of Action.

WHO IS WACREN?

From connectivity to digital research infrastructure

West and Central African Research and Education Network



A regional footprint matters

WACREN links national R&E communities into a wider regional and global research fabric.

NETWORK

Regional R&E backbone connecting national communities and research institutions.

SERVICES

Data • Compute • Identity • Cybersecurity • Open Science

COMMUNITY

NRENs • Universities • Researchers • Libraries • Partners

CLIMET applies this infrastructure model to climate research and resilience.

Connectivity is foundational. The strategic question is what we enable over it.

WHERE WE STARTED

CLIMET = CLImate + METeorology

The name came from the original focus. The programme is now growing around a wider research-infrastructure proposition.



Starting point

IoT / LoRaWAN weather monitoring
Local observations
NREN-enabled data movement

Direction of travel

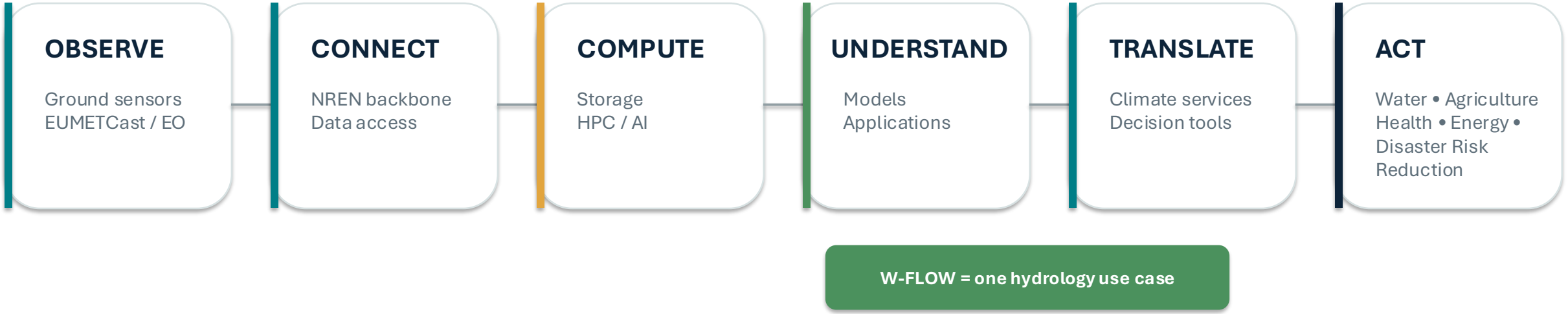
Observations + EO data + compute
+ research + applications
→ climate services

CLIMET is an emerging programme — not a claim that the full architecture is already operational.

BUILDING CLIMET

An emerging programme architecture

A framework for connecting capabilities that are at different stages of development.



WHAT IS BEING ASSEMBLED

The pieces are beginning to come together.

Not a finished platform: a portfolio of capabilities that can increasingly work as one research environment.

GROUND OBSERVATIONS

IoT weather stations
LoRaWAN gateways
Real-time local data

WE-CAST / EUMETCAST

Shared data access
Archive + analytics
Algorithms + AI tooling

COMPUTE

Federated compute
Storage
GPU / AI capability

APPLICATIONS

W-FLOW: hydrology
Future agriculture,
health, energy use cases

The programme value is in the connections between these capabilities.

INFRASTRUCTURE IS NECESSARY.

But infrastructure doesn't do research.

People do.

Who will use the data, challenge the models, build new applications and translate research into climate action?

LAUNCHING AT AFRIGEO 2026

CLIMB

Climate Leadership, Innovation, Mentorship & Bridging

A doctoral research network for climate, agriculture and health



CLIMATE **AGRICULTURE** **HEALTH**

60 doctoral fellows • joint research • mentorship • regional & global visibility

BUILDING CLIMET TOGETHER

CLIMET builds the environment.

CLIMB builds the community.

Climate services create the impact.

AfriGEO community: help shape the infrastructure • mentor researchers • contribute data & applications • co-develop services

From observations → research → climate action