FOCUS-AFRICA
Full-value chain Optimised Climate User-centric Services for Southern Africa

STAKEHOLDER WORKSHOP
Focus On Tanzania

Second External Stakeholder Workshop,
14-15 September 2021
13:00 – 17:00 CET
14:00 – 18:00 EAT

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FOCUS-AFRICA PROJECT OVERVIEW

FOCUS-Africa: Full-value chain Optimized Climate User-centric Services for Southern Africa

Develop full value chain climate services in the SADC region, by targeting specific sectors industry relevant case studies, while strengthening the underpinning climate prediction and projection science and assessment of associated socio-economic benefits.

- Grant Amount : 7 million Euros funded by EU
- Starting Date/ Duration : 1st September 2020/ 48 months
- Main Sectors: Food security, Water, Energy, Infrastructure
- Target Countries: South Africa, Tanzania, Mozambique, Malawi, Mauritius

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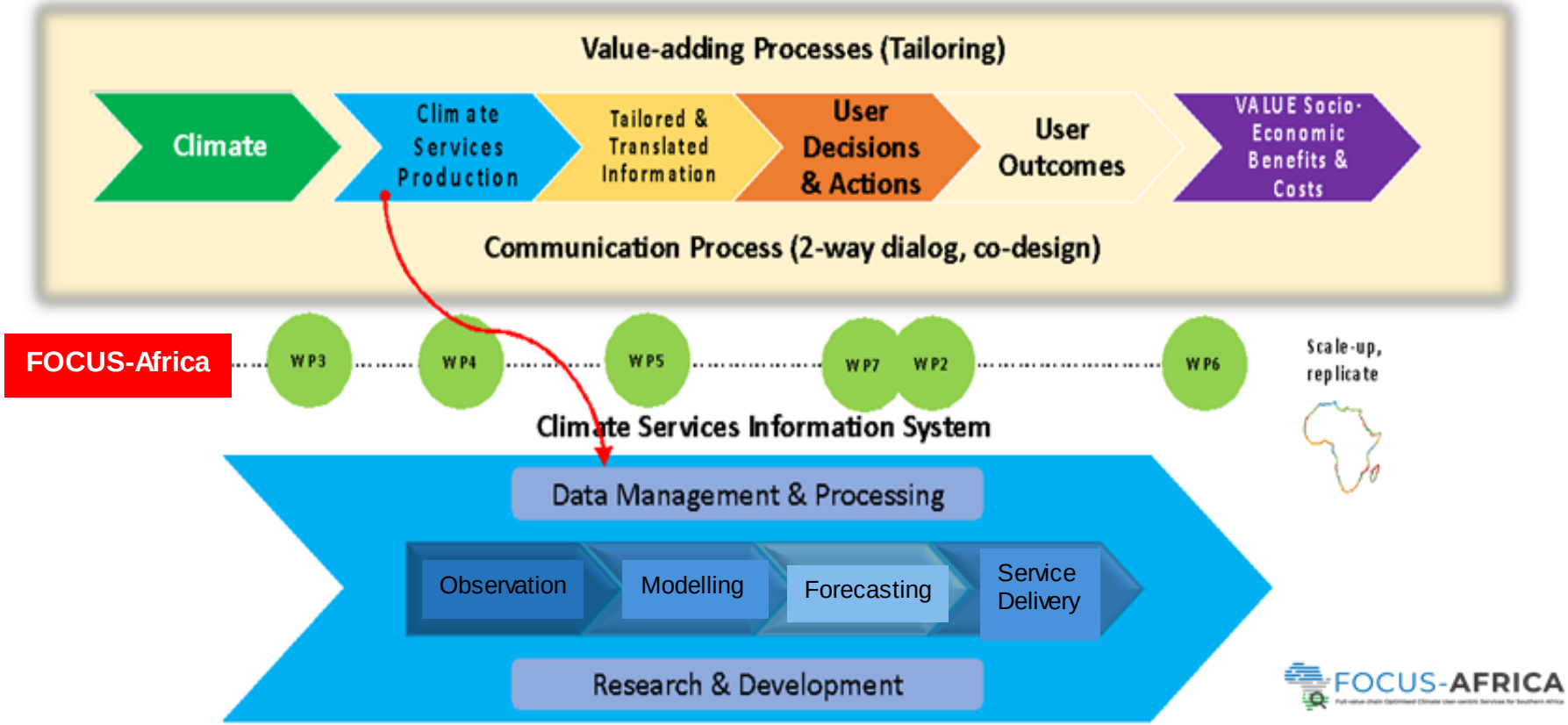
Climate Services Value Chain



Project partners in Africa and Europe (16)

WORLD METEOROLOGICAL ORGANIZATION

Sant'Anna School of Advanced Studies - Pisa

PLAN INTERNATIONAL

European Commission

ACMAD

EDF

LGi sustainable innovation

GLOBAL CHANGE Institute

BSC Barcelona Supercomputing Center

Amigo

CSIR our future through science

Met Office

WEMC World Energy & Meteorology Council

IIAM

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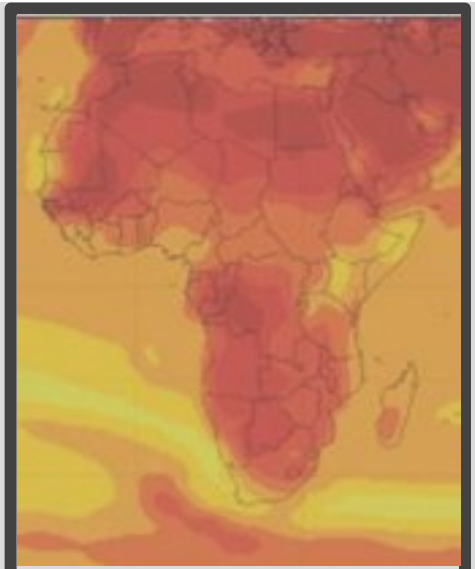
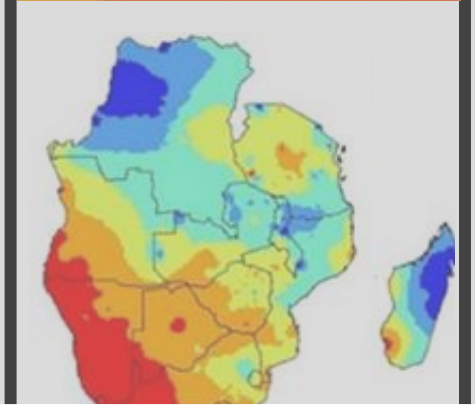
Work Packages





Work Packages

Work Packages	Topic	Responsible Entity
WP1	Stakeholder engagement, communication and dissemination	WMO
WP2	End-users' requirements and climate risks assessment	CSIR
WP3	Understand Climate Processes	MO
WP4	Methods and tools development	BSC
WP5	Prototypes of end-user tailored climate services development	WEMC
WP6	Socio-economic value assessment and Exploitation of climate services	LGI
WP7	Capacities Development	ACMAD
WP8	Project management	WMO & LGI

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Case Studies

WMO

European Meteorological Society

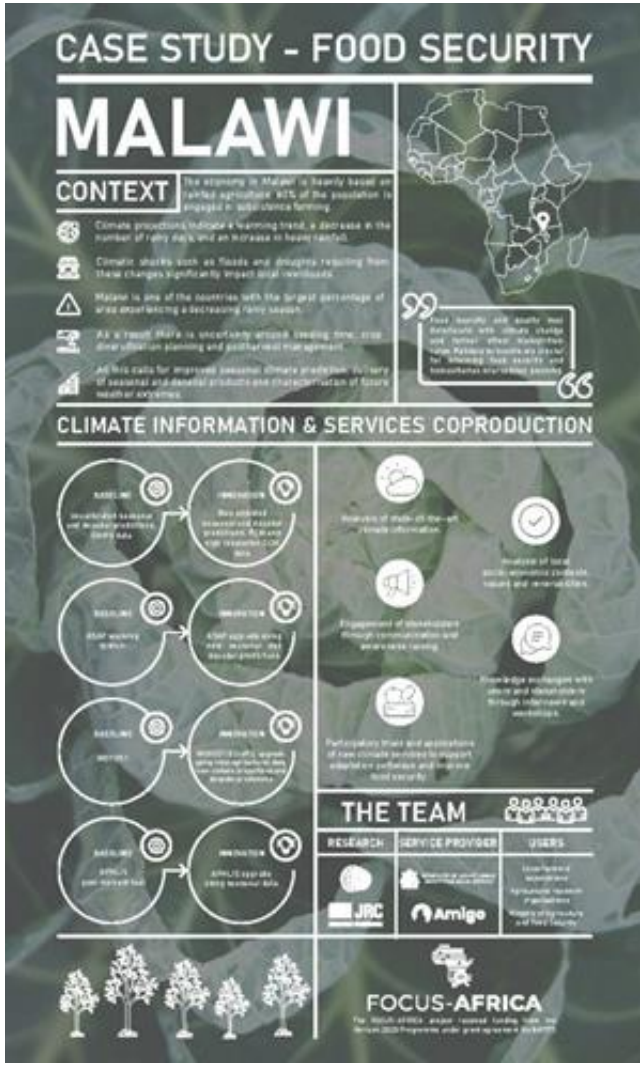
Food Security

Contexts

- Significant impact of hot conditions in 3 of the past 5 years,
- Expected large impacts in the 21st century under high/low mitigation efforts,
- Land Bank finance,
- Anticipating climate variability and extremes,
- Obtaining climate risk info.

Tools and Approaches

- Observed weather data,
- Downscaled climate simulation,
- Stochastic weather simulation,
- Crop simulation model.



Food Security

Contexts

A large percentage of the country is experiencing a decreasing rainy season, which in turn is creates uncertainty around seeding time, crop diversification planning and postharvest management.

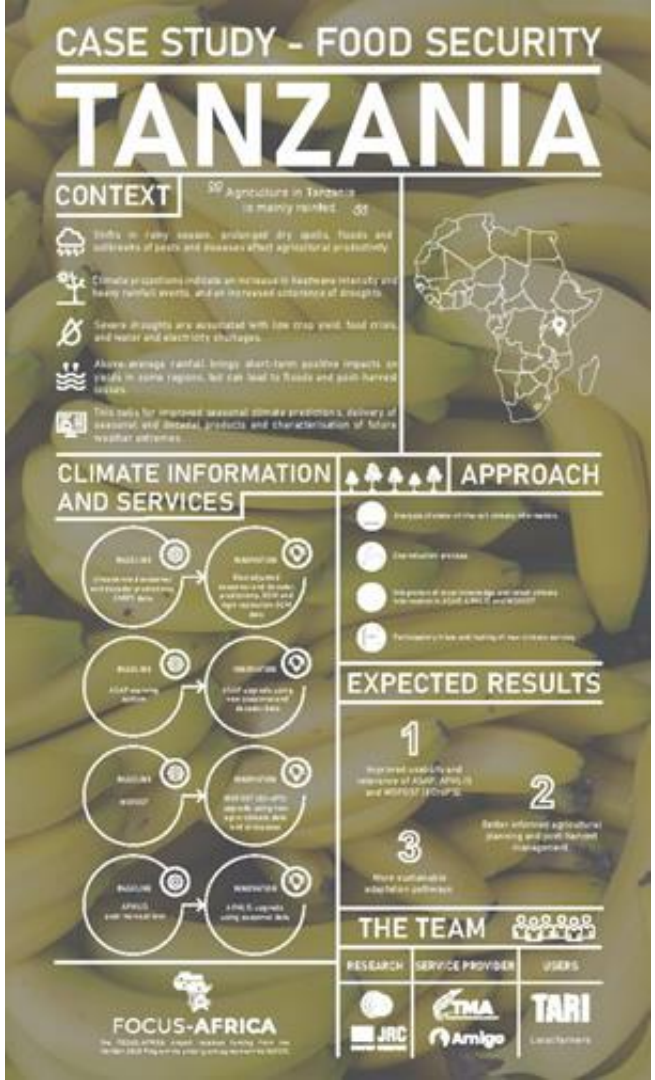
Tools and Approaches

Improvement of seasonal climate prediction, delivery of seasonal and decadal products and characterisation of future weather extremes.

Food Security

Expected Results

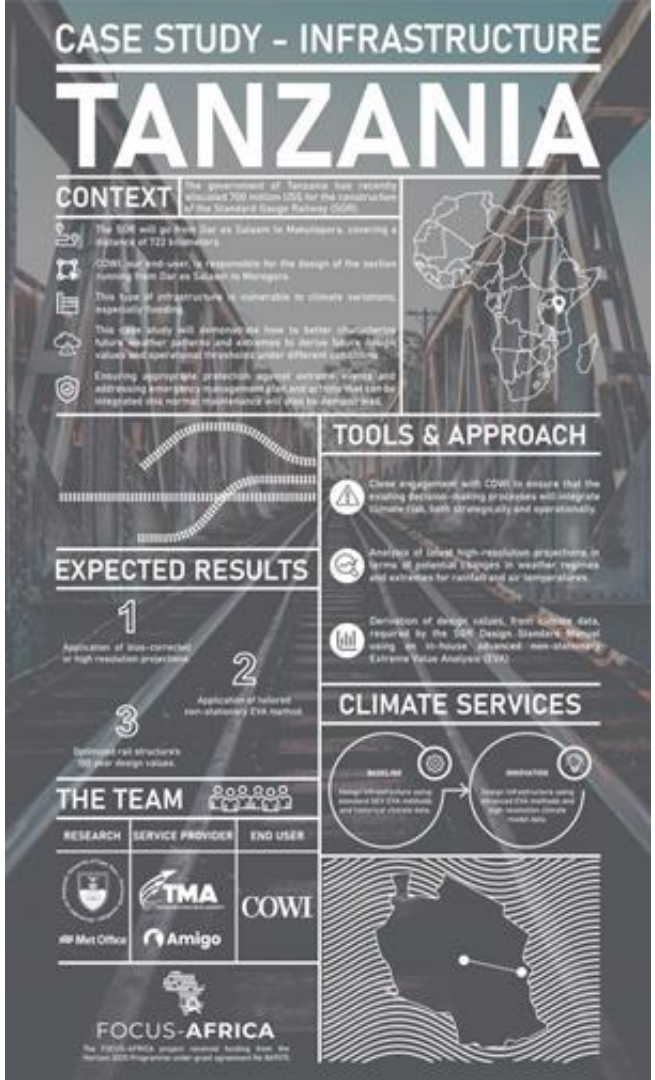
- Farmers knowledge evaluation on Agroclimate,
- Mapping of Agroclimate needs in Manpula (North),
- DNA sequencing of 500 traditional variants
- Characterisation,
- genotypes and set up of breeding efforts,
- Develop Agroclimate tailored products to farmers for S2S forecasting.



Food Security

Expected Results

- **Improved usability and relevance of ASAP, APHLIS and WOFOST (ECroPS),**
- **Better informed agricultural planning and post-harvest management,**
- **More sustainable adaptation pathways.**



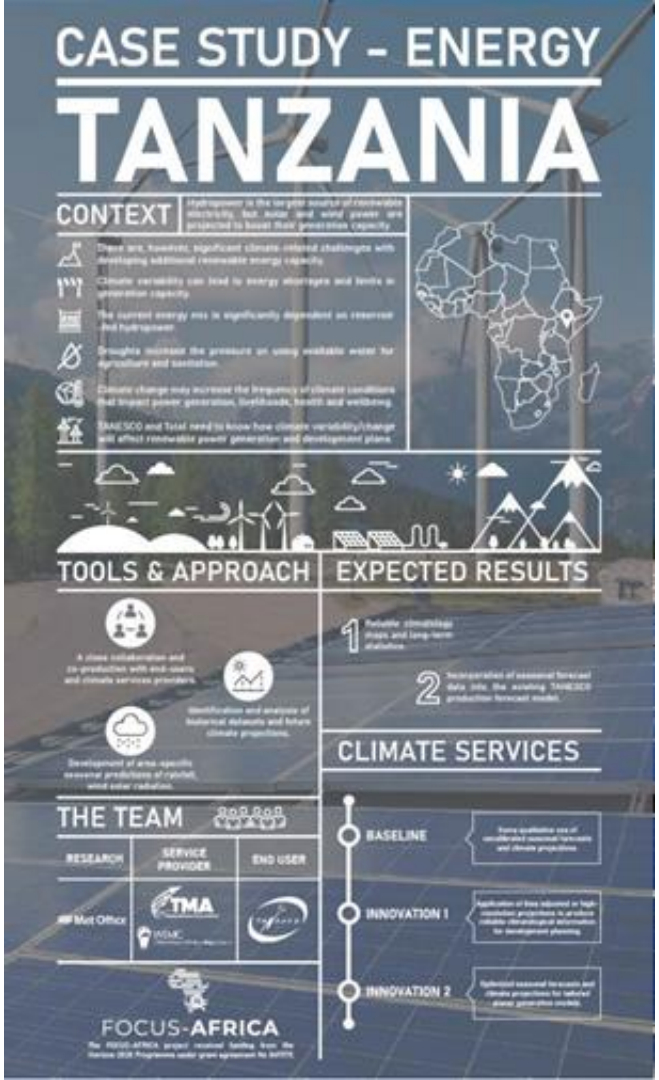
Infrastructure

Context

- The government of Tanzania has recently allocated 700 million US$ for the construction of the Standard Gauge Railway (SGR), which will go from Dar es Salaam to Makutopora, covering a distance of 722 kilometres,
- This type of infrastructure is vulnerable to climate variations, especially flooding.

Aim

- Better characterize future weather patterns and extremes to derive future design values and operational thresholds under different conditions.



Energy

Context

- Hydropower is the largest source of renewable electricity, but solar and wind power are projected to boost their generation capacity.
- Droughts increase the pressure on using available water for agriculture and sanitation
- There are, however, significant climate-related challenges with developing additional renewable energy capacity

Aim

- How climate variability/change will affect renewable power generation and development plans .

Energy

Expected Results

- A better understanding and attribution of past events, which had a significant impact on river flow & water availability,
- Estimation of future climate change impacts on Lake Malawi and the Shire River hydrological cycles,
- Evaluating the added-value of such a climate service for stakeholders,
- Making the designed approach replicable to other sites and end-users.

Aim

- Better characterize the future impacts of climate change on Lake Malawi and the Shire River catchments.

Water

Context

- Observations suggest that rainfall patterns have changed over the last decades.
- Extreme rainfall events and intra-seasonal variability pose challenges for water resource management.
- Water sector relies on 6-month seasonal outlooks and statistical models issued by the Mauritius Meteorological Service.

Expected Results

- Developed thresholds for triggering drought or wet conditions alerts as a decision support tool,
- Generation of current and expected rainfall, drought and related likelihoods

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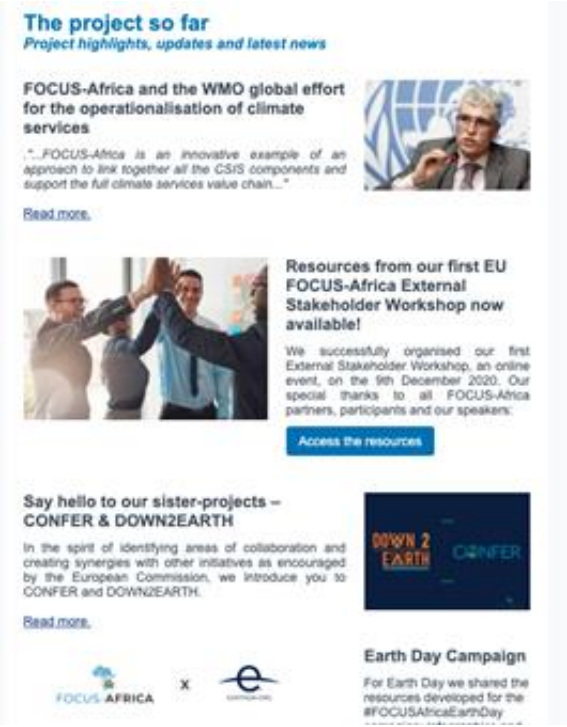
Time	Topic
December 2020	Food Security South Africa
September 2021	Energy, Food Security, and Infrastructure in Tanzania
April 2022	Food Security in Mozambique
December 2022	Water Management in Mauritius
August 2023	Food Security and Energy in Malawi
April 2024	Water-Energy- Food Nexus in South Africa



The project so far

Project highlights, updates and latest news

FOCUS-Africa and the WMO global effort for the operationalisation of climate services

"...FOCUS-Africa is an innovative example of an approach to link together all the GSIS components and support the full climate services value chain..."

Read more.

Resources from our first EU FOCUS-Africa External Stakeholder Workshop now available!

We successfully organised our first External Stakeholder Workshop, an online event, on the 9th December 2020. Our special thanks to all FOCUS-Africa partners, participants and our speakers:

Access the resources

Say hello to our sister-projects – CONFER & DOWN2EARTH

In the spirit of identifying areas of collaboration and creating synergies with other initiatives as encouraged by the European Commission, we introduce you to CONFER and DOWN2EARTH.

Read more.

Earth Day Campaign

For Earth Day we shared the resources developed for the #FOCUSAfricaEarthDay

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THANK YOU

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