



# Regional Workshop on CropWatch Innovative Cooperation Programme

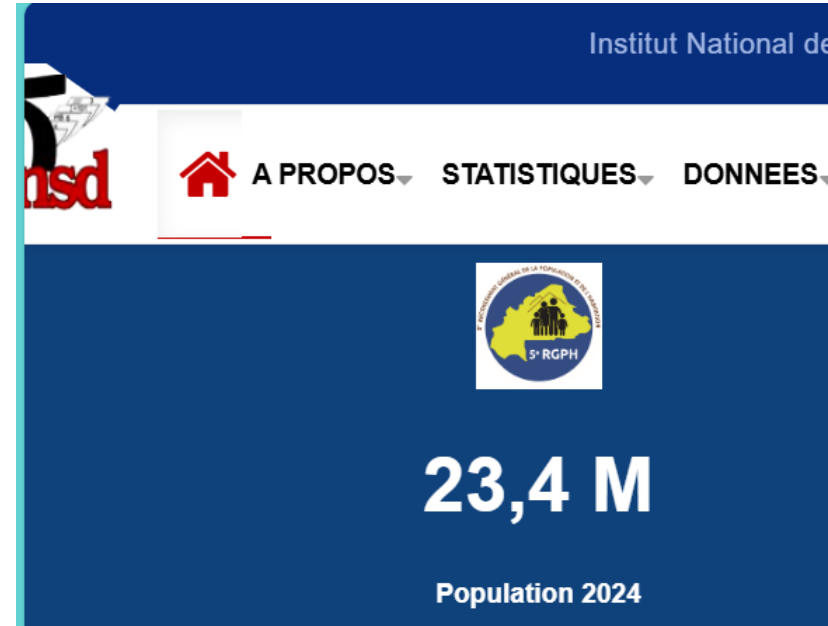
“Advancing satellite-based crop monitoring to increase resilience in the face of global food insecurity.”

2-5 July 2024 Abuja, Nigeria

Dr SAWADOGO W. Mathieu  
KOUANDA Nongamanégré

July 2024

# Agriculture in Burkina Faso



- It accounts for 32% of the country's gross domestic product (GDP) and employs 82% of the working population.
- Subsistence farming.
- Currently being mechanized;
- Nevertheless, cotton, cashew nuts, mangoes and sesame are export products, generating incomes for producers.

# Agriculture in Burkina Faso

Hot dry season

Rainy season

Cool dry season



March

June

October

February

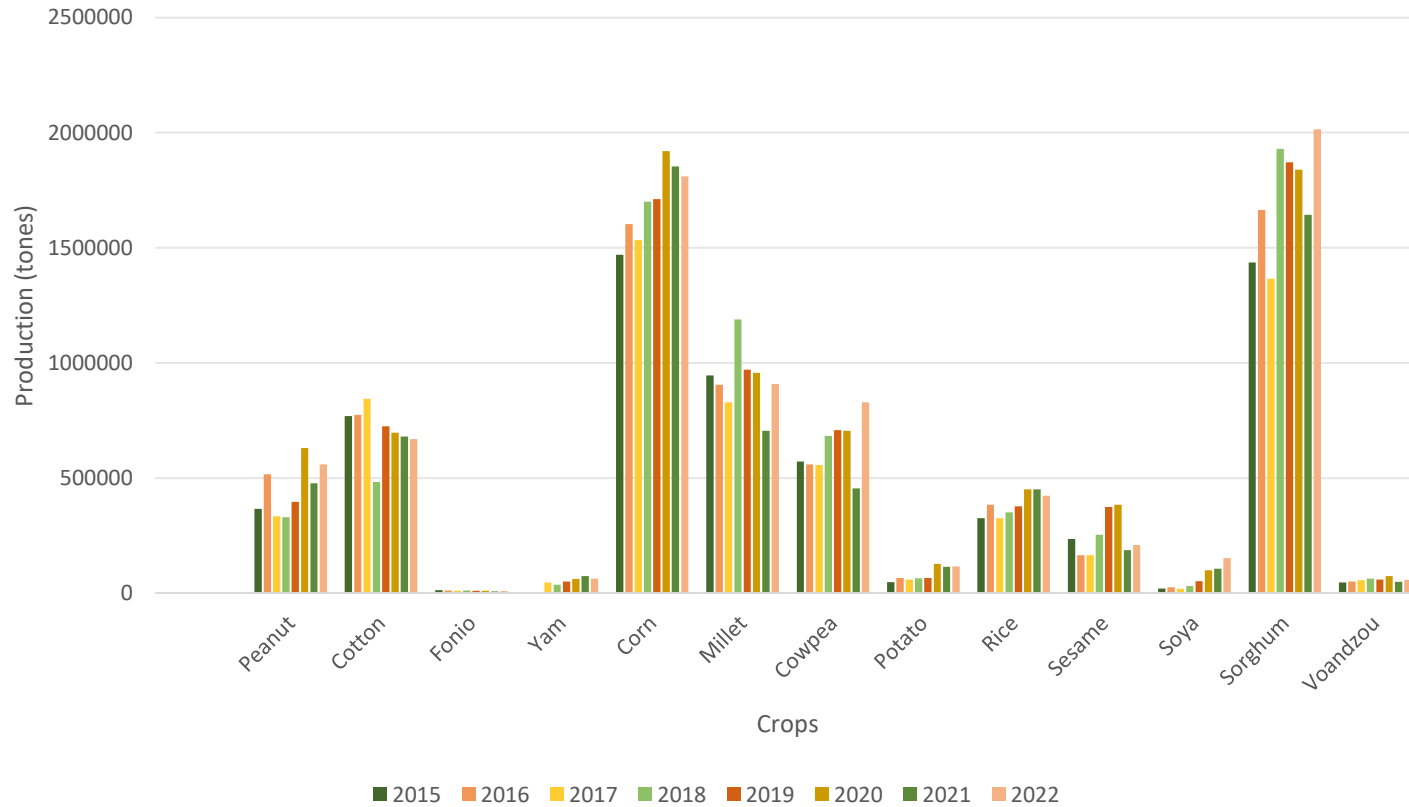
Vegetables



Vegetables

# Main Crops in Burkina Faso

Principal cereal and cash crops production from 2015 to 2022



Cashew nuts tree



Mango tree



Onion plot



Tomato plot



Source: DGSS, 2023



# Main Crops in Burkina Faso

And soon...



Vine



Cocoa



Pineapple

# Main Crops in Burkina Faso

## Main crops pests



FAW



Damage on corn



fruit flies



# Main Crops in Burkina Faso

## Main crops pests

*Amrasca biguttula*



Damage on coton



Granivorous birds



*Quelea Quelea* in rice plot

# Main Crops in Burkina Faso

## Main crops pests



South American tomato  
leafminer



Tomato field completely destroyed by  
*Tuta absoluta*



Trapping of *Tuta absoluta* for 3 days

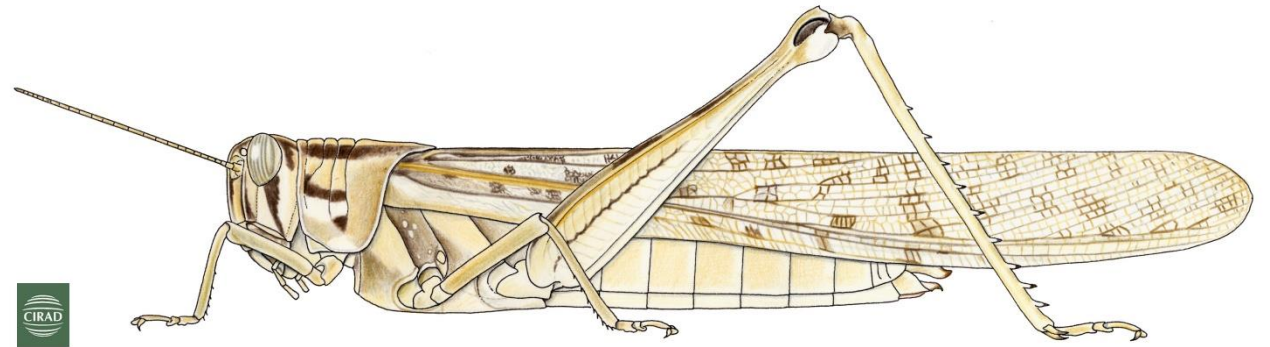


# Main Crops in Burkina Faso

## Main crops pests



Maruca vitrata



Desert locust

# Main Crops in Burkina Faso

## Main crops diseases



Mango disciccation, mainly due to *Lasiodiplodia theobromae*

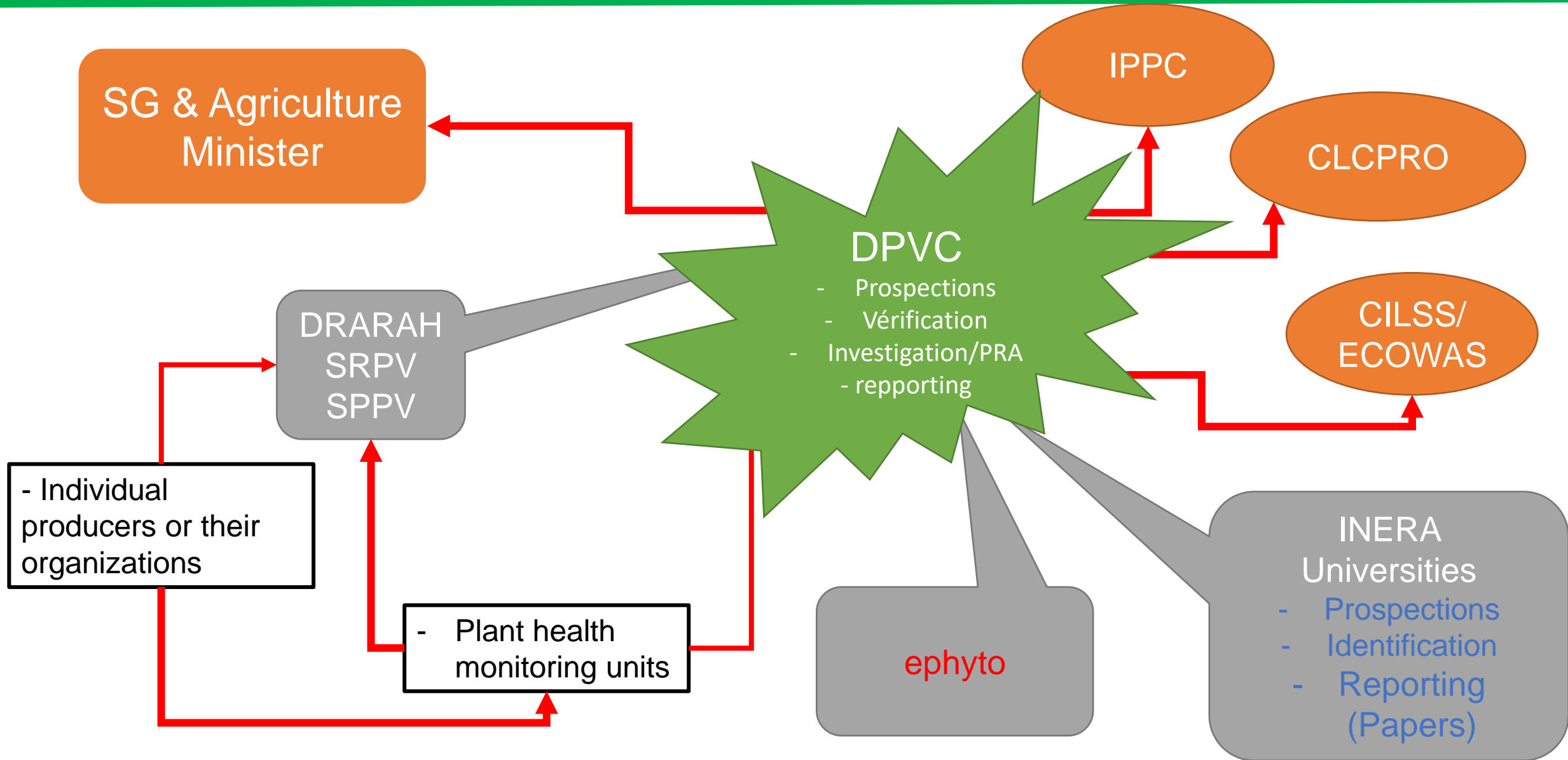


Altenariose, *Alternaria* sp



Corn streak, *Cicadulina mbila*

# Internal monitoring system





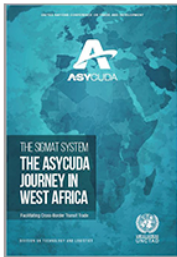
# Existed agricultural projects related to remote sensing



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## The SIGMAT System: The ASYCUDA Journey in West Africa



Facilitating Cross-Border Transit Trade

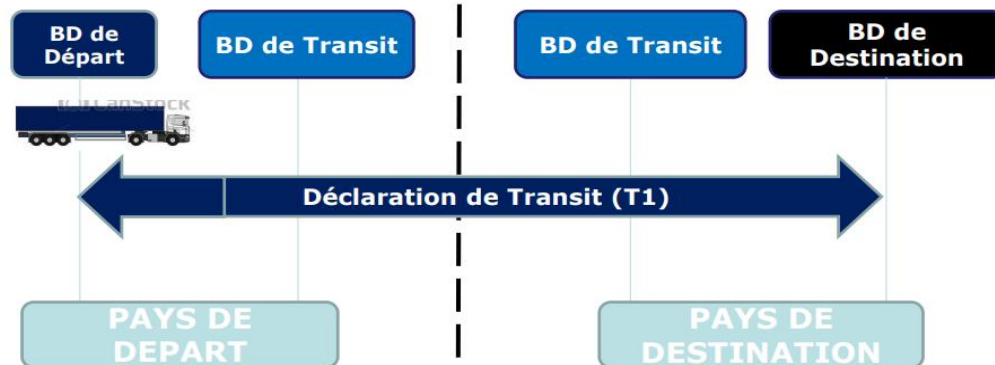
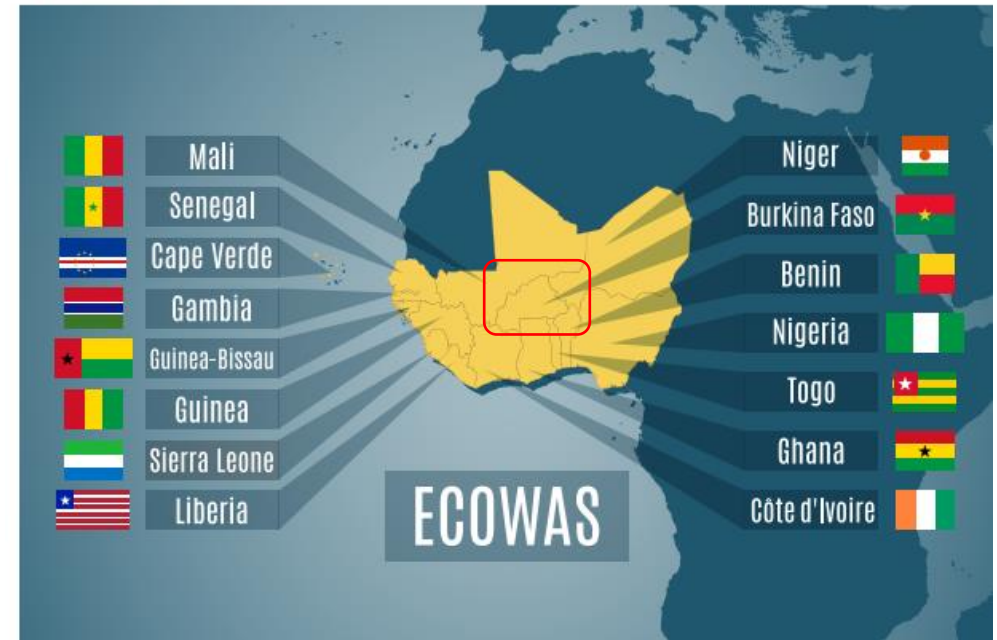


Figure 1. Map Showing ECOWAS Member States



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# Existed agricultural projects related to remote sensing

- Drone acquisition for phytosanitary surveillance and treatment by DPVC
- Drone pilot training

Crop surveillance drones



Crop protection by drone



# Current problems

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- phytosanitary issues: lack of effective tools for monitoring crop pests, excessive use of pesticides against crop pests (environmental risks and risks for human and animal health);
- rainfall not well distributed in time and space;
- land degradation;
- climate challenges;
- production factors (inputs: fertilizers, quality seeds, mechanization);
- low agricultural industrialization;
- insecurity;
- food insecurity;
- lack in technological knowledges;
- ect.



# Requirements and expectation

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## Requirements

- water mobilization;
- invest in the agricultural input and processing industry;
- provide high-performance monitoring tools;
- sensitize/strengthen stakeholders' capacities in pest control and the use of agricultural pesticides.

## Expectation

- provide high-performance tools for plant health monitoring;
- access to data and technologies;
- set up a post-training support framework for improved collaboration and mastery of monitoring tools.

*Thank  
you!*