



# REGIONAL TRAINING WORKSHOP FOR SATELITE CROP MONITORING USING THE CROPWATCH SYSTEM:

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# Basic information on Agriculture Development in Cameroon

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# OUTLINE OF PRESENTATION

- ❖ Introduction
- ❖ Crop phenology for major food crops
- ❖ Are there existing agricultural projects related to remote sensing?
- ❖ Current problems of Cameroon Agriculture sector
- ❖ Requirements and expectations

# Introduction

## Cameroon grows food and cash crops

### Main food crops

- ✓ Cereals: Maize, rice, sorghum, millet,
- ✓ Legumes: Groundnuts, soybeans, Bambara groundnut,
- ✓ Roots & tubers: Cassava, yam, sweet potato,
- ✓ Fruits: Pineapple, papaya, banana, plantain
- ✓ Oil crops: Palm oil, cotton

### Main cash crops

- ✓ Cocoa, coffee, rubber



# Introduction

## Agro-ecological zones of Cameroon

- Zone I** : Soudano-Sahelian zone
- Zone II** : High Guinea Savannah
- Zone III** : Western Highlands
- Zone IV** : Humid Forest with monomodal Rainfall
- Zone V** : Humid Forest with bimodal Rainfall

### Agricultural Research Centres

- Specialized Centres with regional and international vocation

- Regional Centres

### Agricultural Research Stations

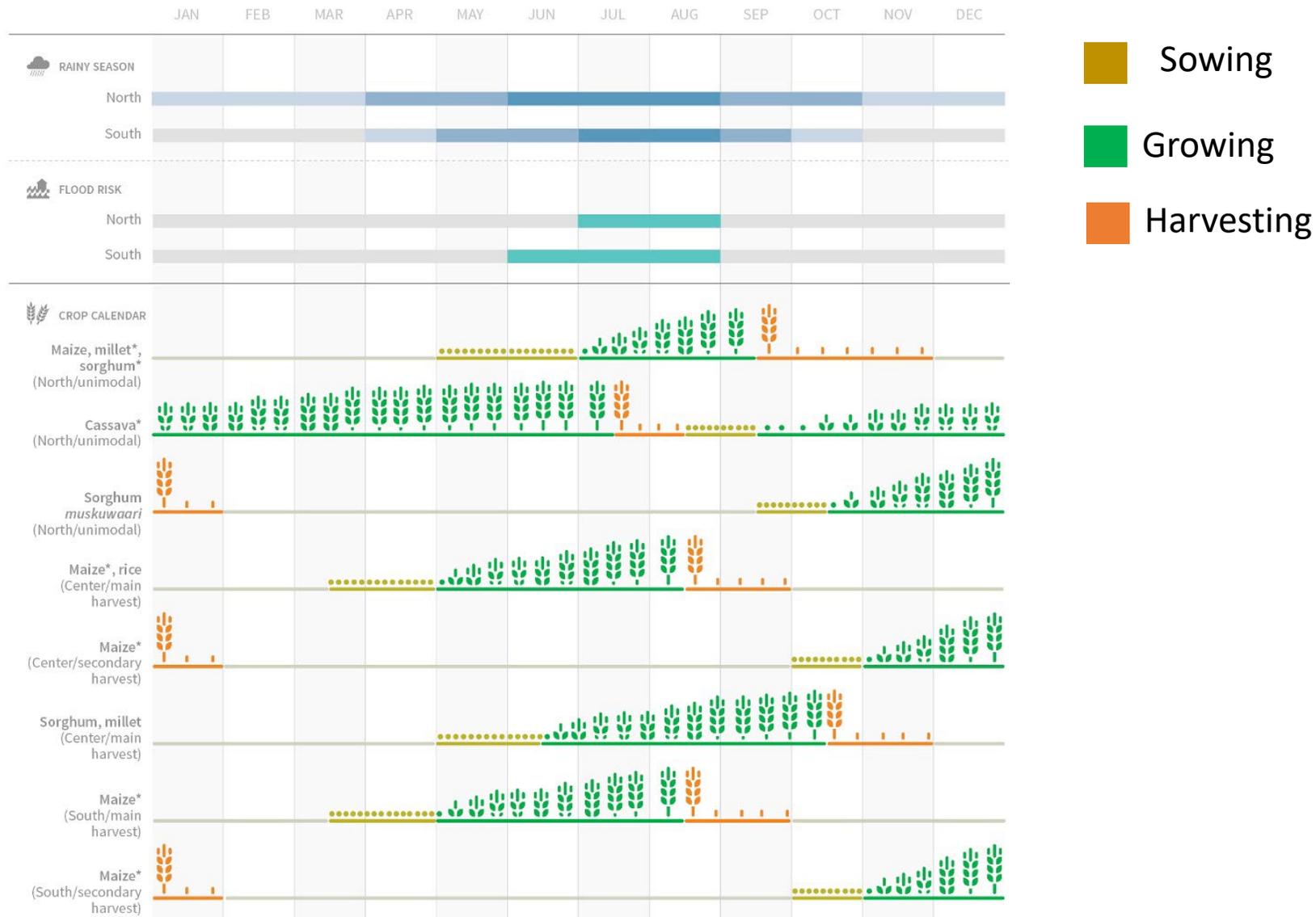
- Specialized Stations with regional and international vocation

- Multipurpose or specialized stations

- Agricultural Research Antenna



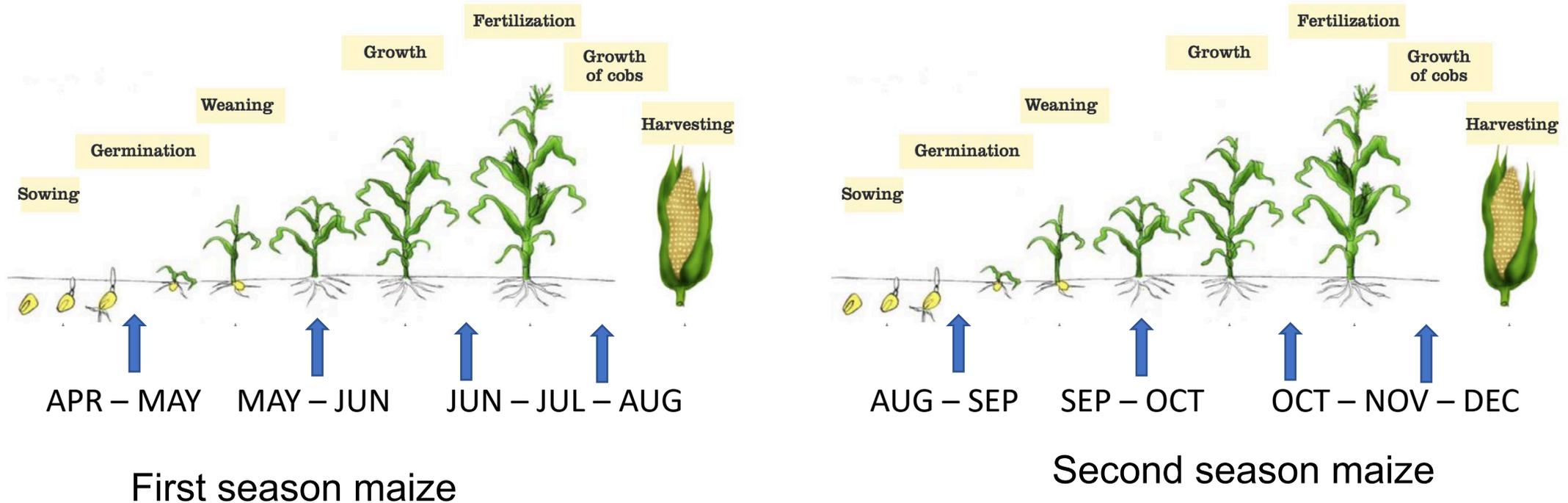
# Crop phenology for Major food crops



FAO crop calendar for Cameroon for major food crops: May 2023

# Crop phenology for Major food crops

## The case of Maize in Cameroon



**Figure: Development stages of early maturing maize variety in Cameroon**

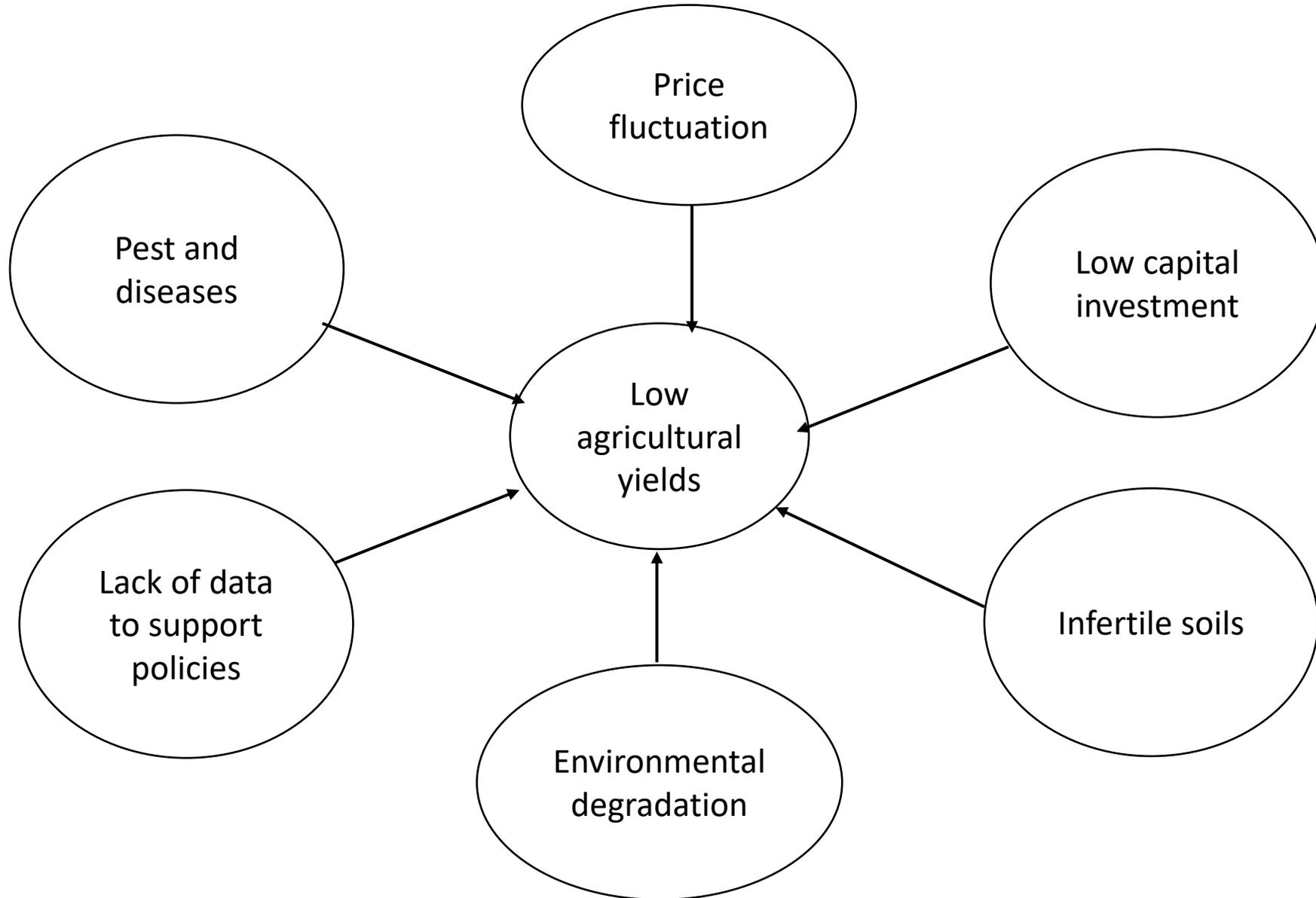
# Existing Agricultural\_Remote Sensing projects?

❖ None

❖ There are remote sensing projects on:

- ✓ Monitoring of mount Cameroon for volcanic eruption: University of Buea
- ✓ Remote sensing of palm groves in Cameroon: CIRAD
- ✓ Application of remote sensing in lithological and mineral exploration: University of Dschang,

# Current problems



# Requirements and expectations

## ❖ Some requirements:

- ✓ Policy support
- ✓ Capacity building
- ✓ Market access,
- ✓ Stakeholder engagement,
- ✓ Environmental protection

# Requirements and expectations

## ❖ Some expectations:

- ✓ Gain skills and technologies to inform policies
- ✓ Response to the specific needs of the diverse agricultural landscape of Cameroon through research
- ✓ Develop and implement agricultural remote-sensing projects to response to yield insufficiencies
- ✓ Consolidate partnerships with expert institutions



Thank you