# Remote sensing monitoring with tobacco field identification and area.

## What to do:

The price of tobacco leaf is influenced by crop yield and quality. This directly linked with the living income of the farmers supplying PMI with tobacco leaf.

In this project, by using remote sensing concepts and available public datasets we want:

* To identify the tobacco fields
* To measure the area of tobacco fields
* Later depend on the time, the estimation of tobacco yields (second phase)

The areas of interest are African countries especially Malawi and Mozambique.

We will use the satellite data (sentinel data) and Ground verification data

We will use spatial analysis

We will use object recognition

We will use SageMaker in AWS

We will build model to detect tobacco fields and area of that fields

## What to get/learn:

I will know how to access satellite images data

I will be familiar with AWS SagerMaker (build, train, deploy ML model)

I will know how to use satellite data in Agriculture

I will know Image processing

I will know how to extract information from satellite images data

I will know more about Image detection