

# Earth Observations for Food Security and perspectives on Gender Equality



**RCMRD**

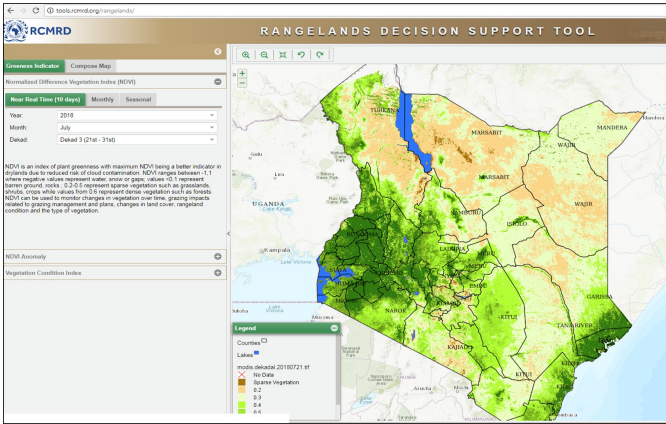
Lilian Ndungu

# Collaborations & Networks

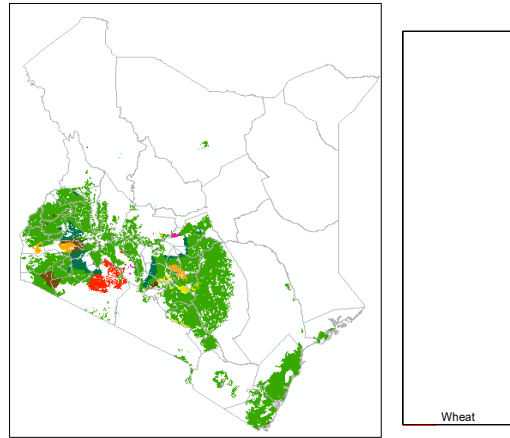


# EO For Supporting Agricultural Assessments

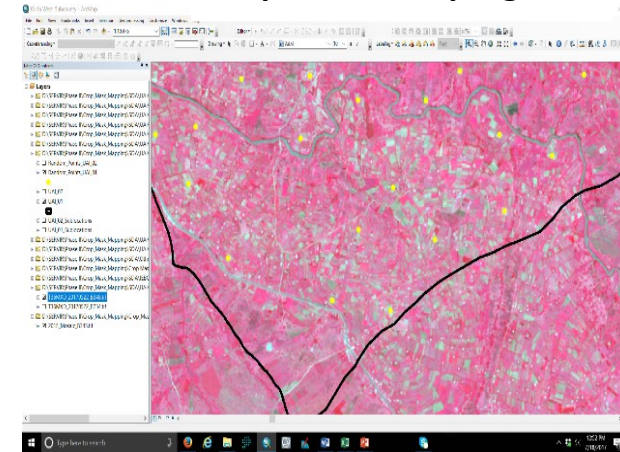
## Monitoring vegetation and surface water in the rangelands



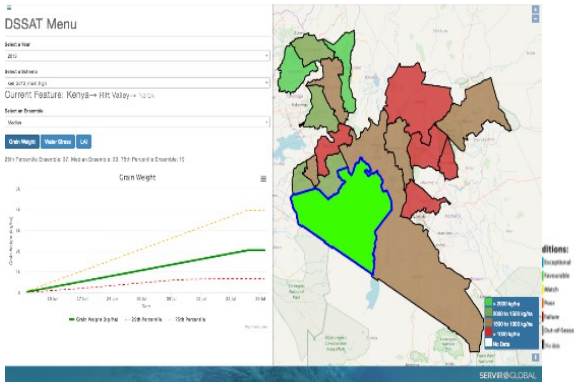
## Mapping Croplands



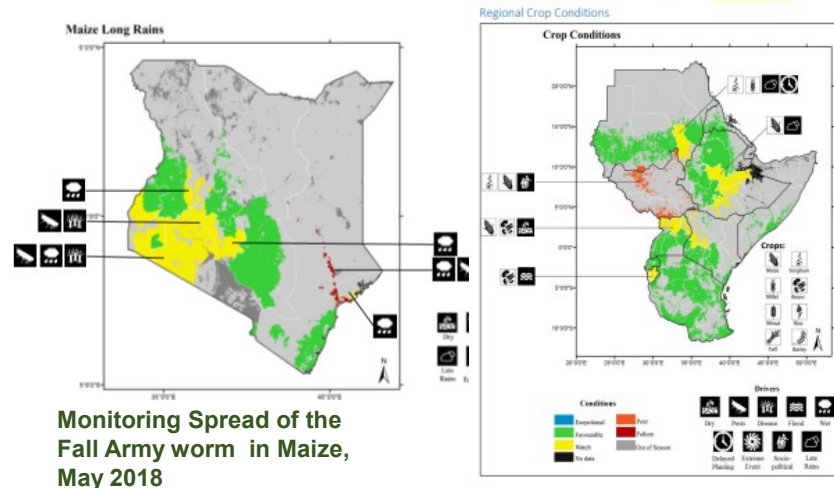
## Supporting for the Kenya Crop Insurance program



## Yield Estimation- Supporting Kenya Digital Food Balance Sheet



## Monitoring crop conditions using GEOGLAM CROP MONITORS



Monitoring Spread of the Fall Army worm in Maize, May 2018

## Capacity Building and Mentorship

- Mentorship
- Technical trainings
- Technical Advisory
- Space Challenge
- Women only Trainings
- Wisci
- Agents of change

# The African context on gender and space(EO) in achieving SDGs [2][5]?

## Where are we?

- EO data is more readily available
- Value of EO in achievement of SDG's is clear(Disaggregation, cost vs scale)- potential for integration with spatial and other data sources i.e. crowdsourcing
- Unprecedented growth in use of mobile phones and tools
- No country is on course in achieving gender equality targets

## Why has real change been slow?

- Unintentional biases- in participation, packaging of information, data disaggregation
- Intentional biases, stereotypes and prejudices from cultural, social norms etc
- Rigidity
- **Self imposed barriers due to preconditioning**

# What needs to happen?

## In the workplace

- Gender equality is not a free pass
- Acknowledge Gender Biases and respond

***“To Make It to the Moon, Women Have to Escape Earth’s Gender Bias” NY times 17.07.2019***

- The right mentorship is important
- Systems need to adapt- reduce barriers
- Sensitive (ie flexi hours, travel-support)

***António Guterres(UN SG) “It is time to stop trying to change women, and start changing the systems that prevent them from achieving their potential”***

## In EO product and service design

- Gender sensitive (women contribute 60-80% of labour, but constrained access to info, credit/markets or even power to make decisions ie due to land ownership)
- Gender cognizant information (packaging)/communication/data collection
- Inclusivity /participation
- Sensitivity-account for differences in power and incomes

## In Education

- STEM mentorship
- Unlearn norms- gender does not define potential, recognize opportunities, parity(strength in numbers)

## In laws and policies

- Land ownership rights
- Empowering women
- Increase gender budgeting

***“Silence(and inaction) and powerlessness go hand in hand – women’s voices must be heard”***

***Rebecca Solnit***



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