DROUGHT AND FOOD SECURITY:
FROM EARLY WARNING
TO EARLY ACTION
Innovation
Highlight: Spatial and temporal dynamics of droughts between 1983 – 2012
Highlight _ Real time monitoring of droughts using Twitter
We used **Machine Learning** to predict anomalies in crop production.

For nearly **half** of these regions, anomalies in crop production were predicted **six or five months before** the start of the *harvesting* season.

Benefits
- Data -

- Machine Learning -

- Cost-effectiveness -
Early response can yield significant cost savings, and can potentially increase the effectiveness of existing cash transfer systems.
People - centered
Disaster Preparedness

Integrating local knowledge

Early Action

Response and Recovery

Profit

Loss
FORECAST-BASED FINANCING FOR FOOD SECURITY (F4S)
T1: Food insecurity forecasting model

T2: Flexible survey and choice experiment

T3: Evaluating the cost-effectiveness

Pilots
- Ethiopia
- Uganda
- Kenya
T4. Exploring potential channels of operationalization

T2. Collecting local evidence and information
- Developing survey & choice experiment
- Performing survey & choice experiment
- Analyzing survey & choice experiment

T1. Developing a food insecurity forecasting model
- Building collection of relevant data
- Developing and validating a food insecurity forecasting model
- Assessing transferability and scalability

T3. Evaluating cash transfer mechanisms
- Listing cash transfer mechanisms
- Quantifying needs-for-transfer and associated costs
Innovation

Benefits

People - centered
Thank you! Merci!

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