









Promoting Women's Resilience in Africa's Arid Regions in the Age of COVID-19

A Virtual Panel Discussion with:

- Michael Carter, University of California, Davis & MRR Innovation Lab
- Sam Owilly, The BOMA Project
- Watson Lepariyo, International Livestock Research Institute
- Nathan Jensen, International Livestock Research Institute



Pastoralism in the Drylands of Africa





- More than 250 million people depend on pastoralism in the drylands of West, East and Southern Africa
- Their lives are threatened by periodic droughts that can in just a few months drop their income to zero and destroy more than half of their productive wealth
- Droughts in Kenya from 2008-2012 cost over \$12 billion
- At a more human scale, the consequences of these events are enormous and long-lasting, if not irreversible
- In short, drought makes and keeps people poor, thrusting them into situations of economic non-viability or poverty traps
- Climate change is making this problem worse

Altering Poverty Dynamics in the Drylands





- While emergency food aid has been the standard response to the slow moving disaster of drought, it is a band-aid that does not address underlying causes of persistent poverty nor restore families to economic viability
- The group of us with you today are part of a multi-year effort to design and test a program in northern Kenya intended to address the underlying causes & fundamentally alter the dynamics of poverty in this and the other pastoralists regions of Africa
- As you will hear, there are two pillars to our program:
 - Asset Protection, through Index-Based Livestock Insurance/Takaful (IBLI/T)
 - Asset Building, through the Rural Entrepreneurs Access Project (REAP)

The Samburu Experiment & the Pandemic





- The synergies between these Asset Building & Asset Protection elements are many:
 - REAP can build up assets of women so they can work their way out of the poverty trap
 - IBLI can protect those assets so they do not tumble back down
 - Especially important when we consider how risk is shifted from men to women in many households
- Complex systems analysis suggests that together these program can not only work, but can be cost effective
 - Cuts long-term poverty rates in half and costs 25% less than the standard band-aid strategy
 - With climate change, benefits of the integrated program grow (unless we hit the worst case scenario)
- Great in theory is one thing, but we are in the middle of a 5-year experiment to test the real world efficacy of this program; Mid-line results are promising
- As we are all aware, the global COVID-19 pandemic touches us all. After describing the basic pieces of our program, we will also talk about the impacts of COVID on families in our study area
- Also learn more later today on the UC Davis podcast: https://www.ucdavis.edu/unfold/ with Amy Quinton & Kat Kerlin



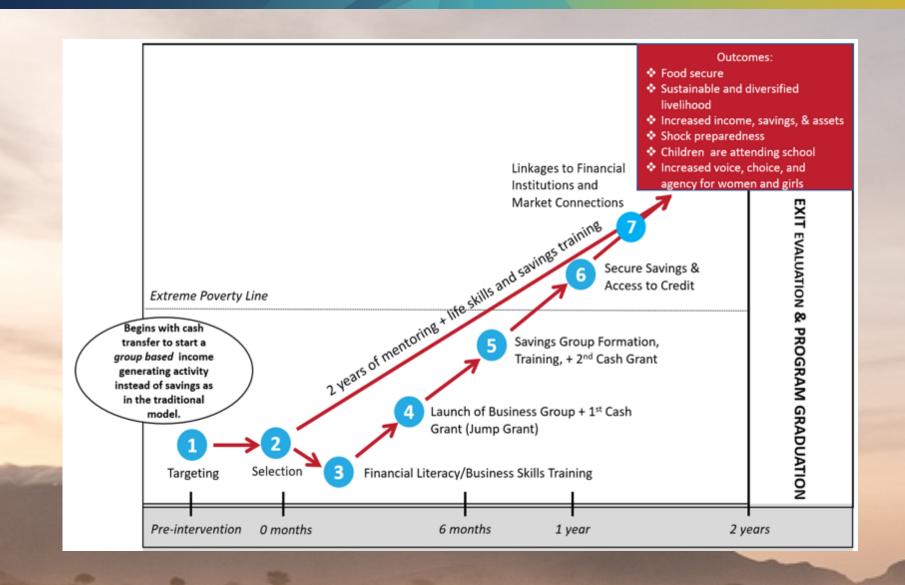


What We Do

- High-impact, gender-focused poverty graduation program
- Build longlasting resilience



The REAP Graduation Model





The REAP Model

TARGETING





TRAINING



Where We Work





Results





IN SAVINGS

IN TOTAL LOANS ISSUED

OF WOMEN LINKED TO **FINANCIAL SERVICES**

OF WOMEN AND **CHILDREN IMPACTED**

WOMEN AND CHILDREN BY 2022



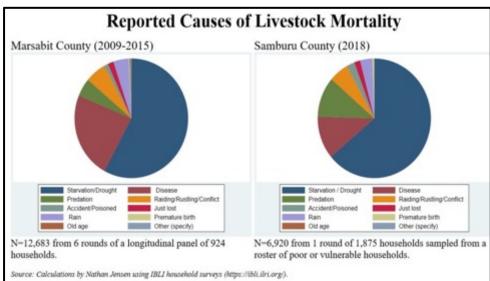




Index Based Livestock Insurance





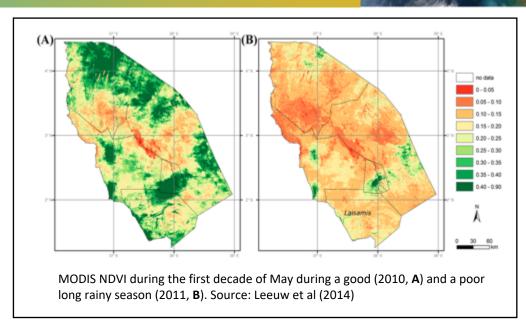


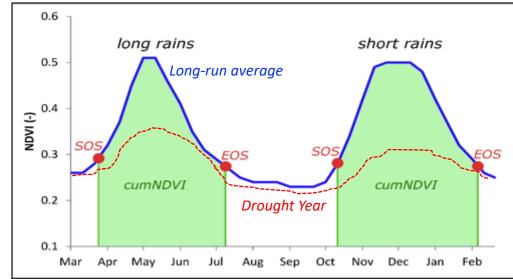
- Pastoral household rely on extensive rangelands to generate most of their income and maintain their main stock of wealth.
- 2. Forage availability & quality in extensive rangelands is extremely sensitive to the distribution and level of precipitation.
- 3. Low availability to forage results in low productivity (milk, calves) and deterioration of productive assets (livestock).
- 4. Households respond by coping.
 - Migrating and herd splitting (use of more "costly" rangelands)
 - Less income available at the homestead
 - · Loss of human capital investments
 - Conflict
 - Distress selling of animals and other assets
 - Poorly integrated markets exacerbated by loss of terms of trade
 - Long-term implications of selling productive capital (poverty traps)
 - Taking on debt and reducing consumption

Index Based Livestock Insurance



- Objective: To mitigate the impact of droughts on households.
- **Signal**: eMODIS NDVI time series (USGS) that strongly correlates with drought/forage scarcity/livestock losses.
- Index: Relies on historic NDVI observations to identify relative anomalies of low vegetation.
- Policies have been commercially sold by private insurance companies (APA, TIA, OIC) in Kenya and Ethiopia since 2010.
- IBLI has been integrated into Kenya's social protection programming through the Kenya Livestock Insurance Program(KLIP), which purchases IBLI on behold of 18,000 households.





Impacts of Insurance

Production

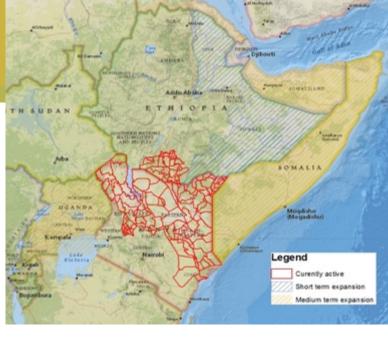
- Increased livestock off-take in good seasons, when prices are high
- Increase investments in productivity through vet. & vaccination services

Drought coping

- Reduction in likelihood of distress livestock sales
- Reduction in likelihood of reducing meals as a coping strategy

Welfare

- Improved income per adult equivalent
- Improve subjective welfare even in the absence of droughts/payouts
- Improved resilience





Insurance helps Kenya's herders protect against drought

Victoria Eastwood, CNN



Can Asset Transfer & Asset Protection Policies Alter Poverty Dynamics in Northern Kenya?

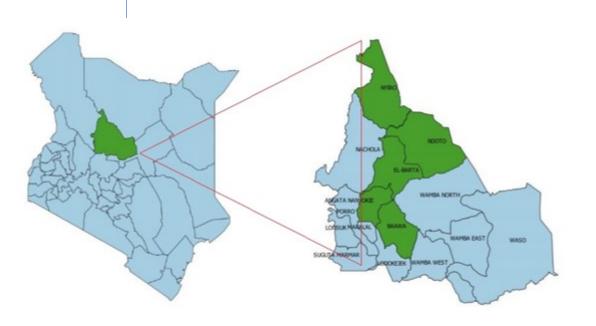




- There is strong evidence that each of these programs—REAP and IBLI—can improve welfare.
 - But, there is some concern that the new REAP businesses, and therefore the long-term success of REAP graduates, are vulnerable to drought.
 - At the same time, while there is evidence that insurance coverage can increase productivity, there is still no evidence that this is sufficient to lift households out of poverty.
- In this study we are testing if, by combining these two programs, we can both help participants lift themselves out of poverty and protect those gains for long-term sustainable outcomes.

Field activities overview





- Location: Samburu County
- Sample selection (PRA and individual verification)
- Selecting both Vulnerable and poor households that meet the selection criteria.
- Total RCT participants: 1875

Cont.







- We have had 3 (2018, 2019, 2020) rounds of individual in-depth interviews, which are coupled with discount coupon distribution and extension on IBLI.
- In addition to the main surveys, we have had I round of games to understand gender dynamics and recently phone survey to understand impact of Covid-19 on RCT participants.
- TIA sales agents are in most of the small trading centers selling index insurance policies to individual pastoralist and women that are project participants.
- Challenges faced;
 - Tracking respondents that are constantly moving.
 - The terrain.
 - No connectivity in some of the areas
 - Lack of ID by some participants

Experiences and lessons learned





- Conducted games using a digital mobile app (<u>simpastoralist</u>), a great way of teaching pastoralist about index insurance.
- Index insurance is a new concept to pastoralist, requires more extension to guarantee buy in.
- Women participating in BOMA are clearly notable among others, the mentorship instills confidence and self reliance.
- In some areas, REAP beneficiaries are engaging in Livestock trade and are doing great in a market domain dominated by men.
- For the pastoralist that understand the product, they term it as a second helper during drought and agree that this product has the potential to reduce the effects of drought.







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