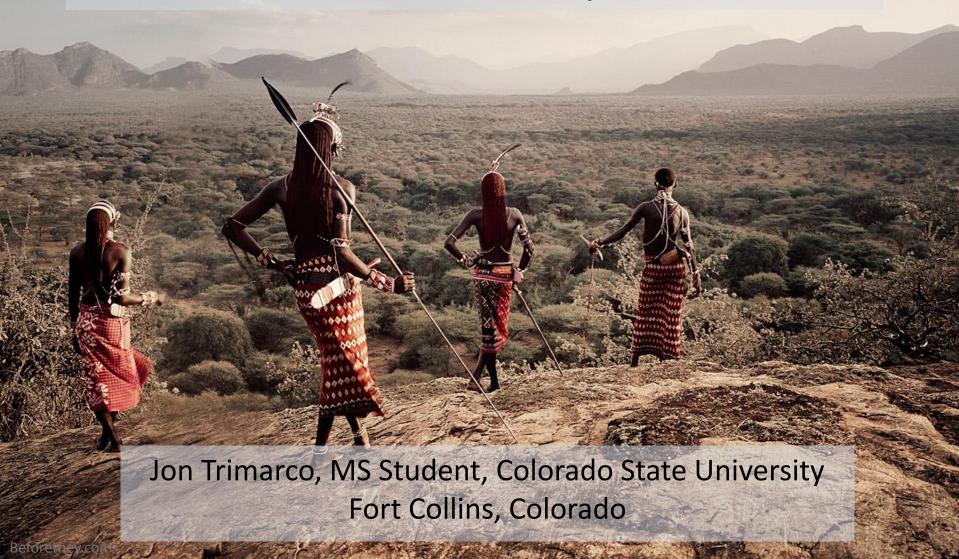
Revitalizing Culture and Ecosystems through Environmental Education in Samburu, Kenya.



#### Background

- Hot
- Dry
- Acacia bushland with intermittent forested highlands
- Populated with semi-nomadic pastoralists













#### Traditional Ecological Knowledge

<u>Traditional Ecological Knowledge (TEK):</u> "a cumulative body of knowledge and beliefs, handed down through generations by cultural transmission, about the relationship [between people and their] environment." (Berkes, 1993)



- Practical
- Dynamic
- Holistic
- Quasi-spiritual



#### Importance of TEK for Samburu

An intimate knowledge of the environment has been vital for surviving as nomadic pastoralists.

- Food
- Livestock fodder
- Medicine
- Construction and materials
- Medicine for livestock
- Land management/movements





#### Importance of TEK for Samburu

As modernization sets in people are inclined to turn away from TEK in favor of western trappings.

-When it comes to sustainable land management, this may be a huge mistake...



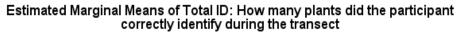


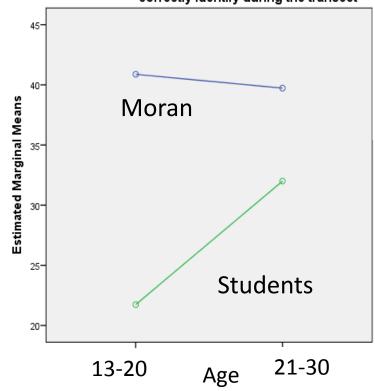


#### Results

Students can ID fewer plants than herders.

Students cannot relay as many important facts as Moran





#### Part 1: Westerners and TEK

There are three different 'hats' that western researchers/practitioners can wear while interacting with TEK.

1. Pharmacologist

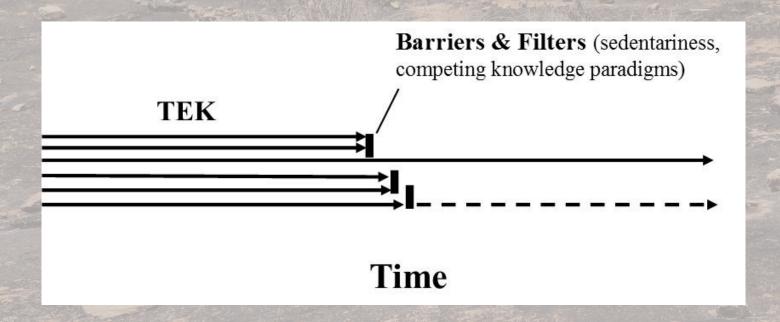
2. Triage Archivist

3. Collaborator

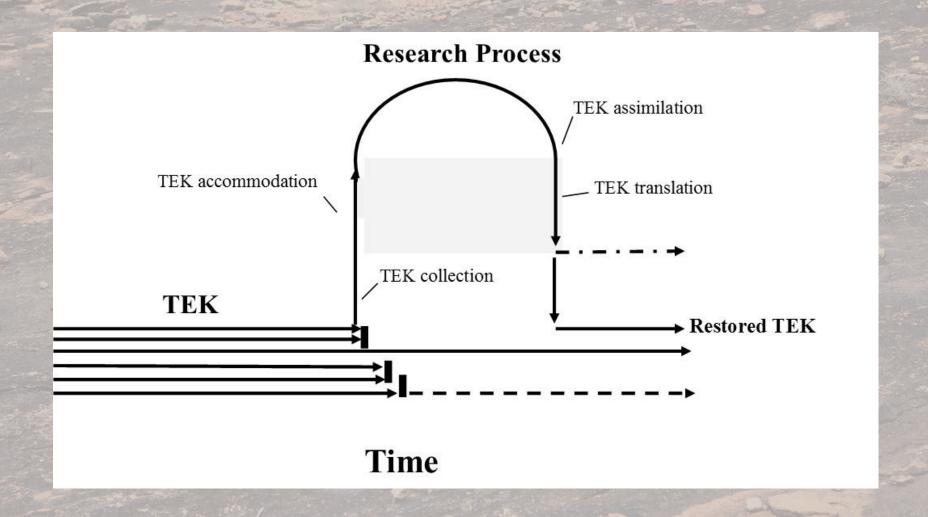




#### The Horseshoe Model

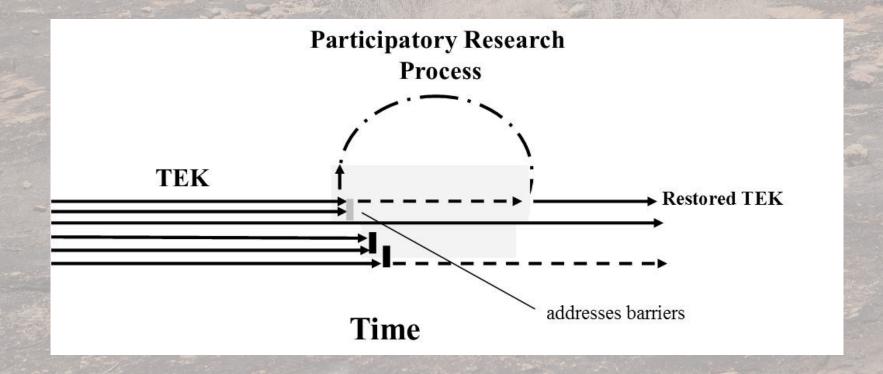


#### The Horseshoe Model





#### The Horseshoe Model



#### Part 1: take away points

- Westerners should engage with TEK on the community's terms
- What is needed?
- What skills and resources does the community already possess? Why are they not being used?
- What skills/resources can we offer that the community is lacking?

## Part 2: TEK and Environmental Education

- Special programs: Bush Camp!
- Extracurricular
  Elders in schools























## Part 3: Landscape Rejuvenation with TEK

Started with a question:

How do you get a large community to collectively manage their rangelands?



#### Part 3: 'Three Spears' curriculum

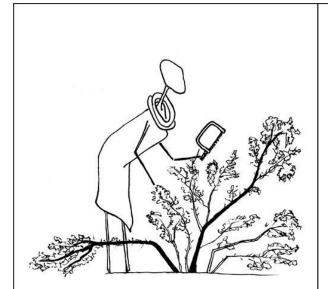


## Spear 1: *Pastoralist* Managed Natural Regeneration

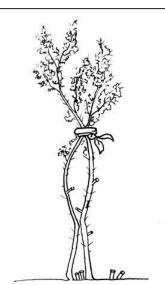


Tony Rinaudo, World Vision

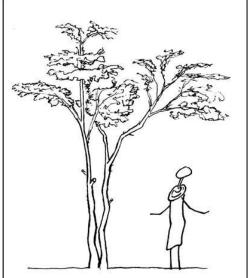




Choose 1 - 3 of the healthiest, straightest branches to prune into trunks. Cut away other branches with a <a href="mailto:sharp">sharp</a> tool. Cut from the bottom of the branch to prevent too much damage to the plant.



Prop or tie trunks so they grow straight up. You can use the removed branches as a protective boma and mulch for the tree. Prune bottom 1/2 of twigs.



Try to protect the tree from animals until it grows out of their reach. Prune the bottom branches 2-3 times a year so it keeps growing upward.

Use any of these sharp tools:



















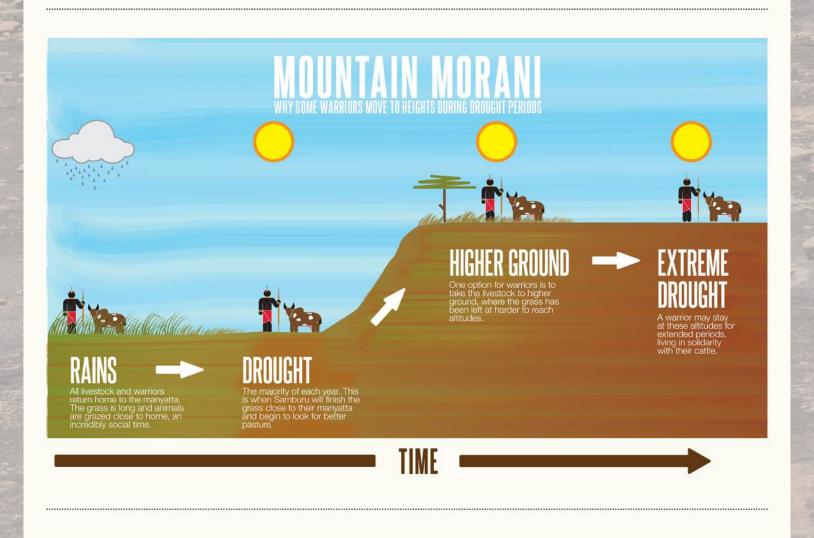


## Spear 2: Soil and water catchment Yacouba Sawadogo

https://www.youtube.com/watch?v=Dm\_qlyvdZ\_A



#### Spear 3: Coordinated Grazing Plan





# Questions?







