









Because of their expertise in management and conservation of resources for wildlife and livestock, the Maasai ecosystem is home to spectacular assemblages of African wildlife populations.

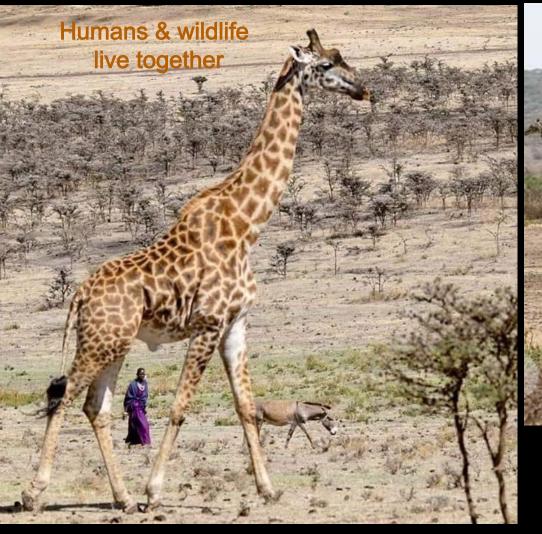


About 25,000 large animals are found in the Ngorongoro Crater, which contains the highest density of mammalian predators in Africa: lions, wild dog and cheetah. Also endangered black rhino, and elephant.

Ngorongoro is the calving grounds for over 1 million wildebeest of the Great Serengeti-Mara Ecosystem.

This is in contrast to most of the rest of the world where the average size of wildlife populations has plummeted more than 2/3 in less than 50 years, according to WWF.

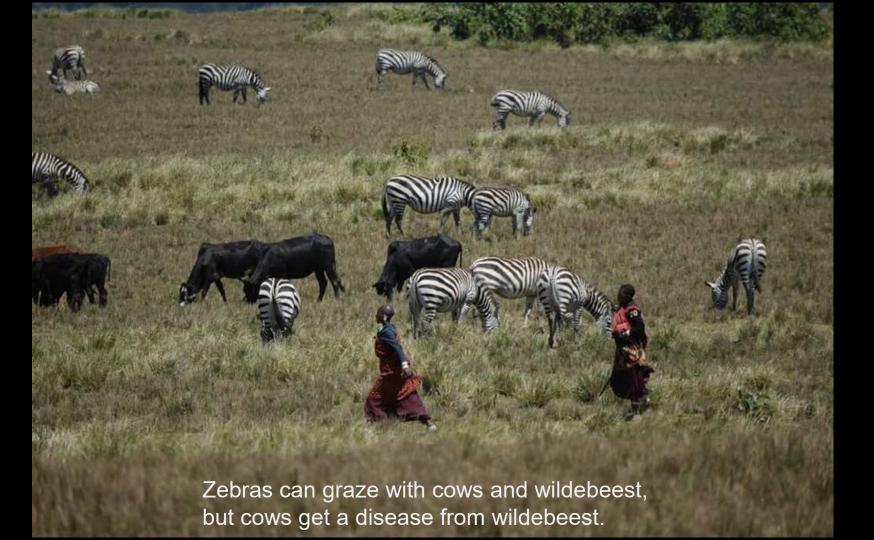






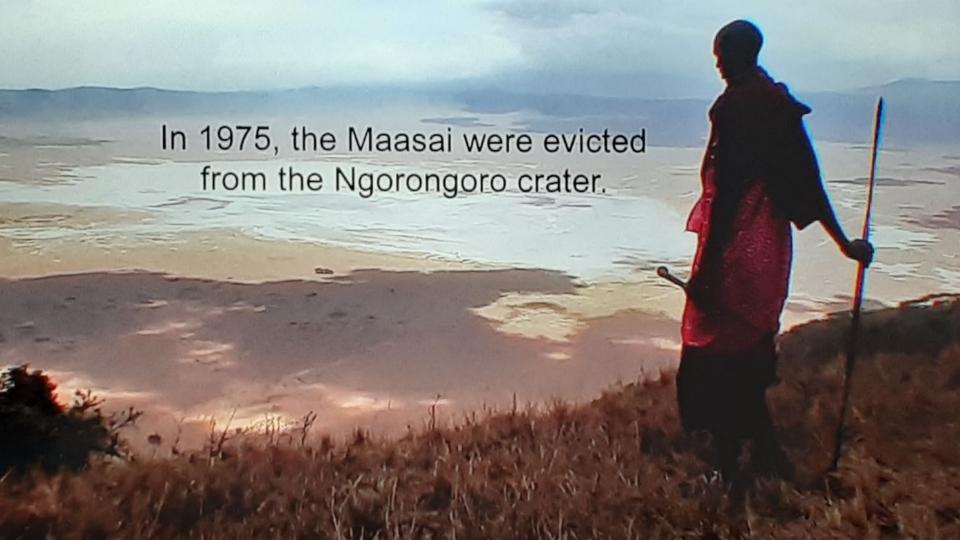
Maasai can live with wild animals, but tourists can't.

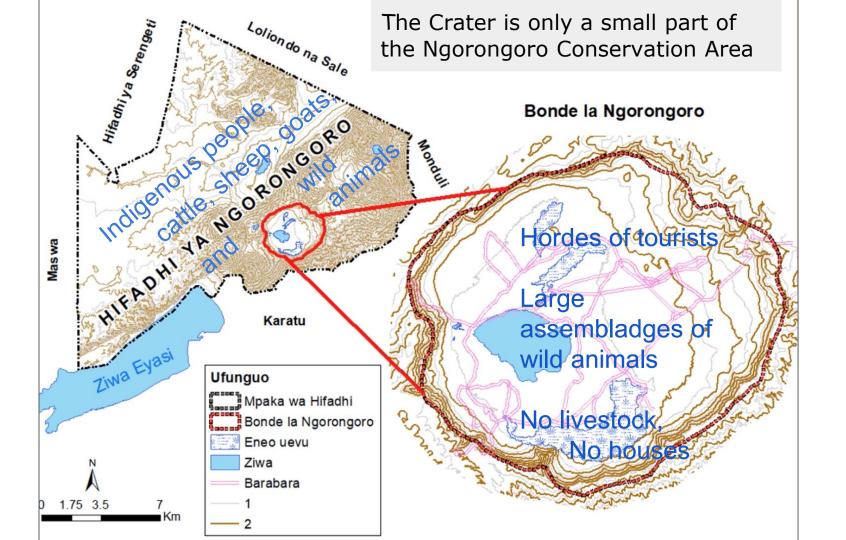




Ngorongoro Wildebeest live in the crater and stay in the crater, but Maasai people are not allowed to live there or graze their cattle there







In Februdary 2016, my partner Ben Parks went to Tanzania to visit Mapena, a former student that Ben sponsored in wildlife college. Mapena is a Maasai whose family lives in the Ngorogoro Conservation Area.

When Ben arrived at Mapena's village, they had a big ceremony, and most of the village turned out. The village elders presented Ben with a list of their challenges and a women stood and asked for family planning. - to my amazement!



### **OUR CHALLENGES**

We of the XXXXXX Community have a lot of challenges, but the main ones are these:

### a) Education / Nursery school

"We would like to have a sustainable nursery school which make our kids study every day and in a good environment." Youth getting an education: Help us get good educated people like Mapena

### b) Poverty: no source of income

"We request that you help our Mothers / Women to get sources of income (beads) so that they can fulfill their basic needs. Empowering women with a source of income will help our development increase."

### c) Health care

"We would like to have a dispensary which will make our people to be treated near their home because it will save our lives like our Mothers and kids who suffer a lot." Family planning to help Mothers (and babies) from suffering.

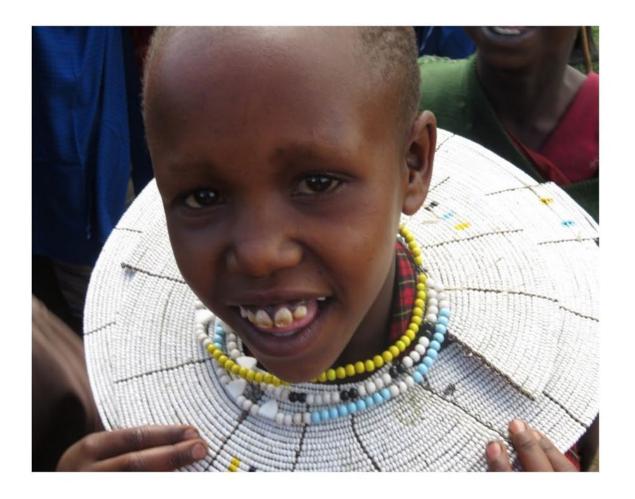
- d) Food Problems (no cultivation)
- e) Cattle disease (ticks and worms)
- f) Water problem



Women dressed for ceremony



# Will these dancing girls go to school or get married?



Child brides who are married to older men lack the negotiation skills and the confidence to assert their needs to their husbands. They are isolated and vulnerable. Even where family planning services are available, young brides are difficult to reach with such support



90% of births to adolescent girls in the developing world occur within a marriage or union.

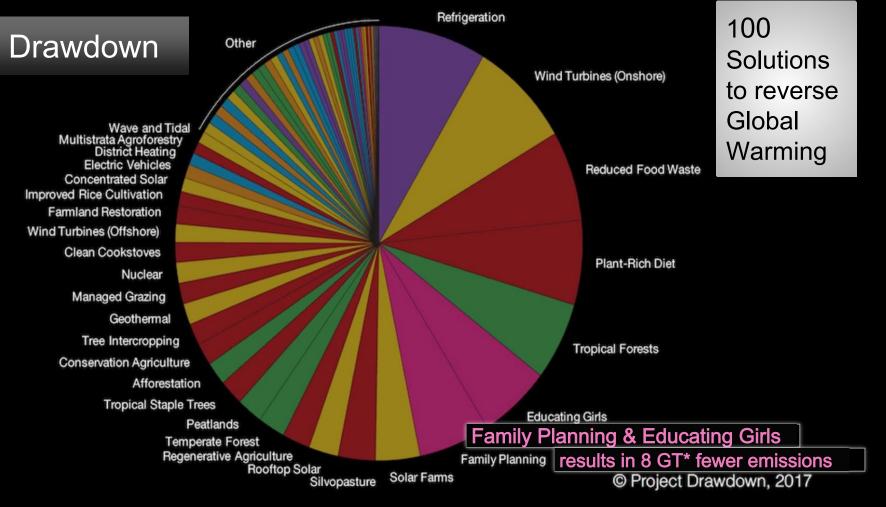
Married adolescents have the lowest use of contraception - and the highest levels of unmet need.

Complications of pregnancy and childbirth are the leading cause of death to girls ages 15-19



MAPSWIRE

With no reduction in child marriage, high fertility rates alone will raise the global number of women married as children to 1.2 billion by 2050\*



\* 8 billion metric tons

Thanks to Population Connection for being the first population organization to make a strong connection between Population and Girls Education

### **FAMILY PLANNING** AND GIRLS' EDUCATION IN THE SAHEL

The G-5 Sahel countries'\* population is expected to more than double -from 85 million to nearly 200 million peopleby 2050.

This is a conservative estimate which assumes a steeper decline in fertility than these countries experienced in recent decades.

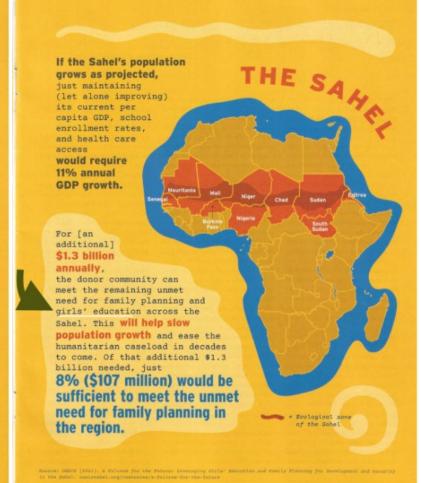
\*Mauritania, Mali. Burkina Paso, Niger, and Chad

**Birth rates** in the Sahel are among the world's highest: an average of 5.7 children over a woman's lifetime.

1 in 4 women surveyed in the Sahel would like to have fewer children or space out births but lack modern contraceptives.

The median age of marriage is around 16 in Niger, Chad, and Mali. About 40% of women give birth (2) before age 18.

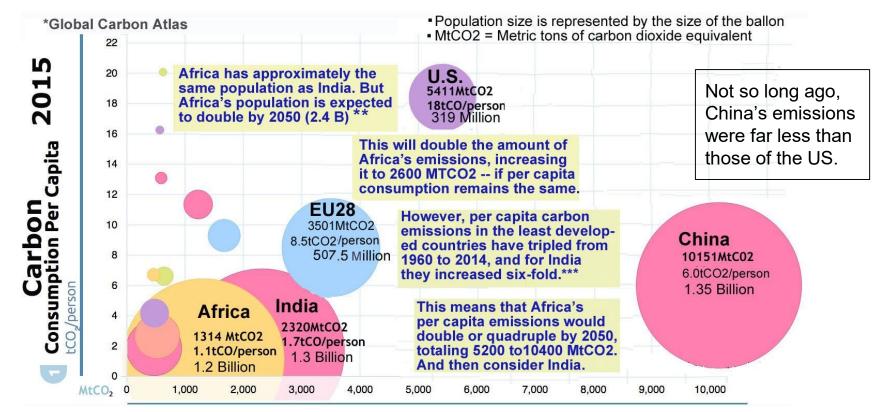
Only 3-6 girls out of every 10 complete primary school in Mali. Chad, and Niger. Secondary school completion is very low regionwide: 3 of the 5 countries have completion rates below 30%.



## The Developing World is catching up on emissions;

- Why population matters

"Developing nations, where most of the population growth is happening, are where consumption is increasing the fastest." ... Michael Brune, Sierra Club



Links: \* Global Carbon Atlas \*\*Wikipedia \*\*\*Worldbank



Financing to developing countries for climate change has been promised with a publicized target of at least \$100 billion per year.

It is education, or more specifically girls' education, that is far more likely to result in lower carbon emissions than a shift to renewables, improved agricultural practices,

urban public transport, or any other strategy now being contemplated.

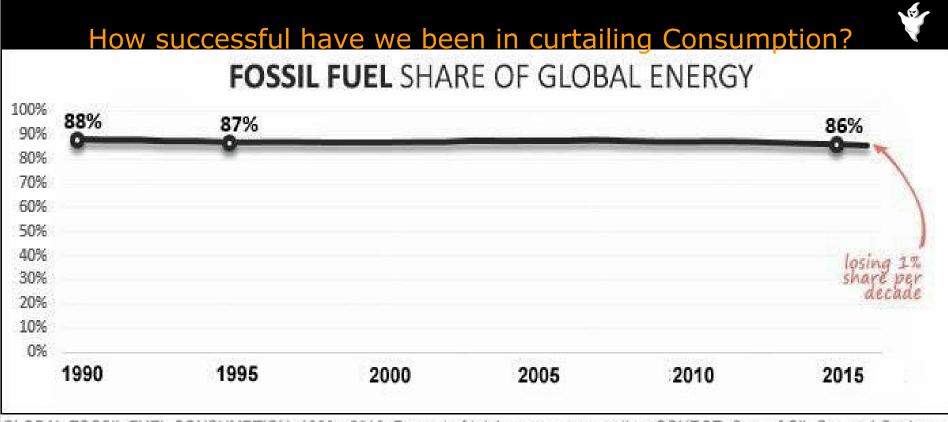
The difference between 0 years of schooling and 12 years is almost 4 to 5 children per woman.

Aid commitments for education projects are about \$13 billion annually.

# \$46B more is needed for Education & Family Planning

According to the United Nations Educational, Scientific, and Cultural Organization, by closing an annual financing gap of \$39 billion, universal education in low- and lower-middle-income countries can be achieved. It could result in 59.6 gigatons of emissions reduced by 2050. ... Drawdown.org

Enough funding to meet the unmet need for contraception would be \$9 billion per year (some part of it is already funded).



GLOBAL FOSSIL FUEL CONSUMPTION, 1990 - 2016. Percent of total energy consumption. SOURCE: Sum of Oil, Gas and Coal consumption vs total energy in BP Statistical Review of World Energy June 2017. CHART by Barry Saxifrage at VisualCarbon.org. June 2017

# Language Barrier

Only 10% of Tanzanians speak Swahili (the national language) as their native tongue. This barrier keeps most pastoral students from entering secondary school.

Such barriers exist in many remote areas of the developing world where fertility rates are highest.

Only 50% of students pass the National exam to get into high school, where classes are taught in English.



These girls failed their national exam, so they went to a special school that caught them up in English so they could continue with their education.

Most parents cannot afford the annual cost of \$500 to send their daughters to school.

In preschool, kids learn Swahili as a second language.

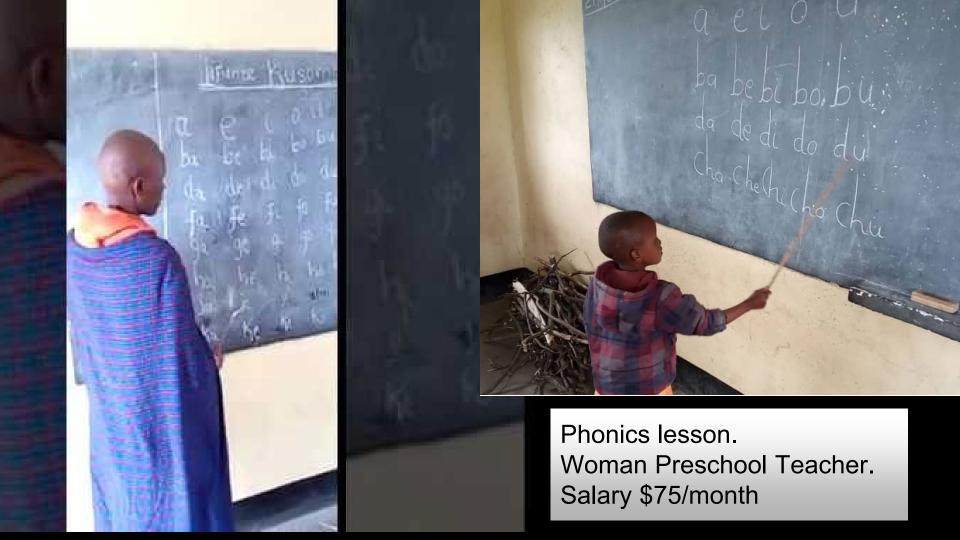
Without preschool, success in primary school is difficult and passing the exam to get into secondary school is rare.





After the new classroom was built, we had 120 preschool kids in a classroom built for 45







To encourage more kids (and thus more girls), we bought uniforms for preschool and primary students.

In addition, the older primary kids started going to a boarding school.



# Primary ages 7-8



Younger Primary kids are too young to go to boarding school.

85 of them walk to and from school 8 miles every day.

They need 2 new classrooms near their community.

(they are posing by the preschool classroom)

# Sunrise: Walking 4 miles to school







When early primary students walk to school, there are aggressive wild animals on the way.

This affects how many girls go to primary school and beyond.

Our Students	Boys	Girls	Total
Preschool	45	40	85
Primary			
Class One	(38	) (10	49
Class Two	38	13	51
Class Three	26	11	37
Class Four	15	10	25
Class Five	12	8	20
Class Six	17	13	30
Class Seven	8	7	15
<b>TOTAL STUDEN</b>	312		

38 boys and only 10 girls



We found this \$5,000 classroom in another area.

The current preschool classroom is too costly at \$16,000

But, can they get a permit to build it? Permits are being refused, due to threat of eviction





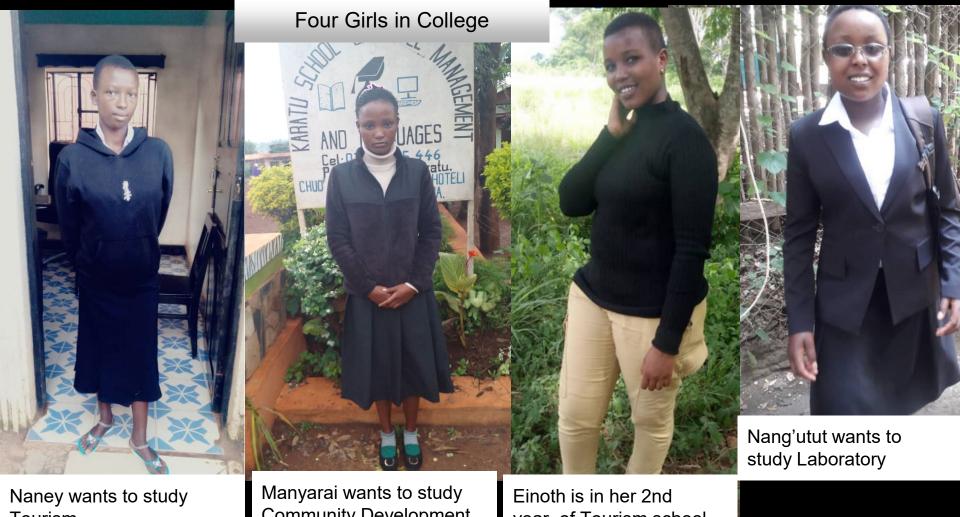
Secondary Students are off to schools far away - a journey of two nights at the cost of \$80/trip with three school breaks a year. Few parents can afford this



Here are our girls with their new reusable menstrual pads. There are still many girls that need them.

Donations would be very welcome. **DONATE** here: bit.ly/MHDSdonate . The pads are only \$4.31 for a pack of five, and should last for a year or more. \$431 would help 100 girls stay in school.

they won't need money from their boyfriends to buy pads.



Tourism

**Community Development** 

year of Tourism school

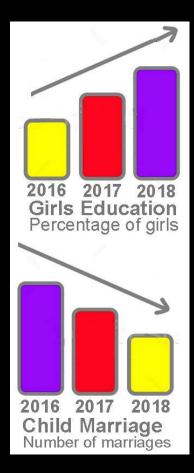
#### Measurements of Success

When our partner organization built preschools near communities, children started learning Swahili prior to going to primary school.

The pass rate from primary to secondary school increased from 10% to 67.5% from 2011 to 2016

The percent of girls from our community going to school rose from 38% in 2015 to 82% in 2018.

This year: Primary grade 7 girl students have taken mock exams for high school, and our students have the highest scores in their class, and they have been selected as student leaders - both boys and girls.



### We made a family planning video in 2016



and a girl's puberty video narrated by



Grace, our medical student, who is now a doctor



## The Family Planning video was a success!

MARIE STOPES INTERNATIONAL Children by choice, not chance

The video was shown in our community and neighboring villages.

In August 2016, when Marie Stopes came with their mobile family planning clinic, 13 women from our community, plus 10 women from nearby villages, walked four miles to get

family planning methods.



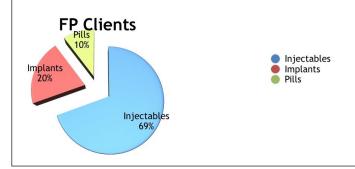
#### We beefed up the health clinic

- •We bought family planning equipment and supplies. The doctor received family planning training.
- •Other organizations added a delivery table, maternity ward & ambulance.
- •The Clinton Foundation provided a solarpowered refrigerator for vaccines.

The use of family planning methods doubled from 24% to 52% between late 2016 to late 2017!!

#### 2.1d. FAMILY PLANNING SERVICES:

S/n	Type of service	MONTHS										Sub total		Total		
		Jan		Feb		Mar		Apr		May		Jun				
		New	Reat .	New	Reat	New	Reat	New	Reat	New	Reat	New	Reat .	New	Reat	Total
	Pills	0	3	0	2	0	8	0	1	1	0	0	0	1	14	1:
	Injectables	0	17	0	17	0	17	0	13	0	26	0	12	0	102	103
	Implants	1	7	0	2	3	6	0	2	0	4	0	5	4	26	30
	Removal implants		3		1		0		0		0		0		4	4
	IUCD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ML/ LA,NSV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Condom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	Total clients served		28		21		34		16		31		17	5	142	14



Medical Interpreters

In 2020 I discovered that the use of family planning had dropped to 13%.

On investigation I found that the doctor had retired and the new doctor did not speak the Maa language.

So we hired these two women who spoke Swahili to become medical interperters



Medical interpreter helping a patient with a urine sample

Nemburis likes being a medical interpreter. Her life has changed because she knows the medicine for different diseases and also she has been advising women to give birth at the hospital because it saves lives.

#### **Common or Potential Barriers to Family Planning Success**

- 1. Language difference between patient and provider
- 2. Remote location
- 3. Lack of basic education
- 4. Lack of information and/or superstition about family planning methods
- 5. Home births (no opportunity for education from the doctor)



- 6. Long distance from community to the hospital
- 7. Failure to take a sick baby to the doctor
- 8. Lack of family planning training for the doctor
- 9. Lack of family planning methods, supplies & equipment

- produce babies

  11. Racial prejudice on the part of medical
- personnel (who treat the patient badly)
- 12. Suspicion that the doctor is a eugenicist.

#### Health Classes

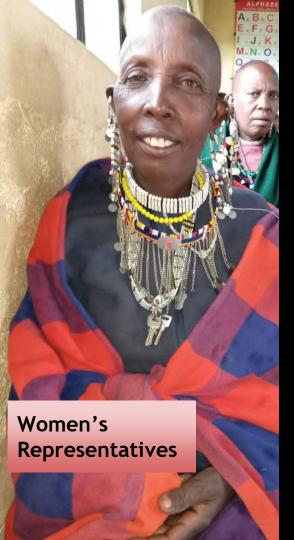
#### **Topics**

- Family Planning
- Early Pregnancy
- Child Marriage
- Birth Spacing
- Midwife training
- FGC/M & sex ed in Schools
- HIV
- Gender/social norms
- Maternal Health
- Breastfeeding
- Nutrition
- Hygiene
- Domestic Violence
- Vaccination



Grace, our medical student, teaching health classes







#### **Annual Student Celebration**

#### "Allow girls to go to school and stop FGM"





One side says
"I am boasting
about the
advantage of
going to
school"

The other side laments "I feel sorry that I am not going to school"



Malnutrition,
Infant Mortality,
& Population
Growth





Begging for Maize

2017 was a drought year. We had to buy maize for those who were poor.

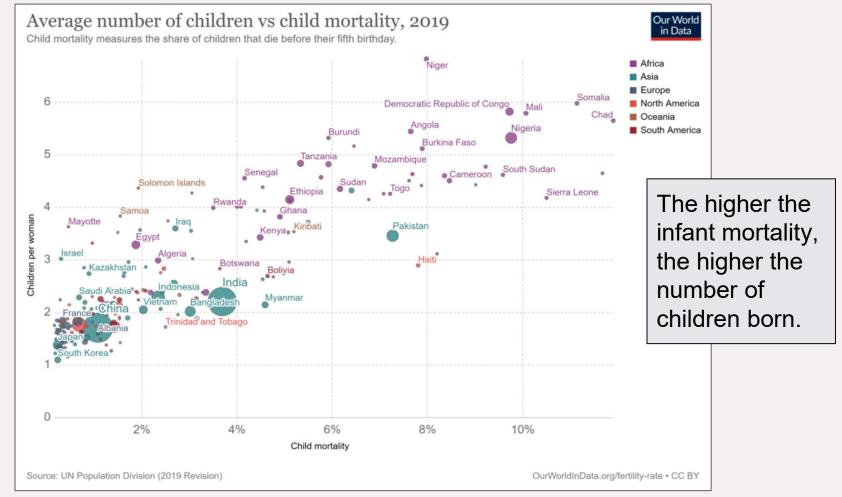
On top of that, Ngorongoro residents are not allowed to cultivate subsistence crops.

They were supposed to get food subsidies, but they don't get them any more.



When women are malnourished, they produce less breast milk.

- •This has three effects:
  - 1. Breast milk is a contraceptive, and when it stops, women become fertile again.
  - Babies become malnourished
  - 1. When babies die, women want to have more babies to insure against infant loss
- •Maasai women don't name their babies until 3 months of age due to high infant deaths.
  - •FGM also contributes to infant mortality because the opening to the mother's womb is narrowed, so they eat less food to have an easier birth.



Source: https://populationmatters.org/news/2021/05/conspiracy-chaos-coronavirus-bill-gates-un-and-population



#### November 2020:

To supplement their maize diet, we bought sheep and goats, enough that every woman has at least three sheep or goats.

This is better than buying maize because the sheep and goats will multiply.

Several months later: The sheep and goats are having babies.



# Womens Crafts and Livelihood

Covid has closed the tourist market, unfortunately, so jewelry is piling up.

We will try to sell it on our Facebook page.







#### Benefits of "Maasai Stoves"

- 1. Uses less wood
- 2. Less time carrying wood home
- 3. Less indoor smoke pollution
- 4. Fewer children tripping in fire, burning themselves

- •Pneumonia and respiratory illness are the number one health problem for women in this area.
- •Pneumonia is a common cause of infant death
- •Two of the three girls that I first sent to secondary school got pneumonia when they came home, and one of them died.







Secure Your Family's Future

#### **Program for Men**

That teaches:

"Men and women should have equal voice in family decisions."

**Ending ceremony** 









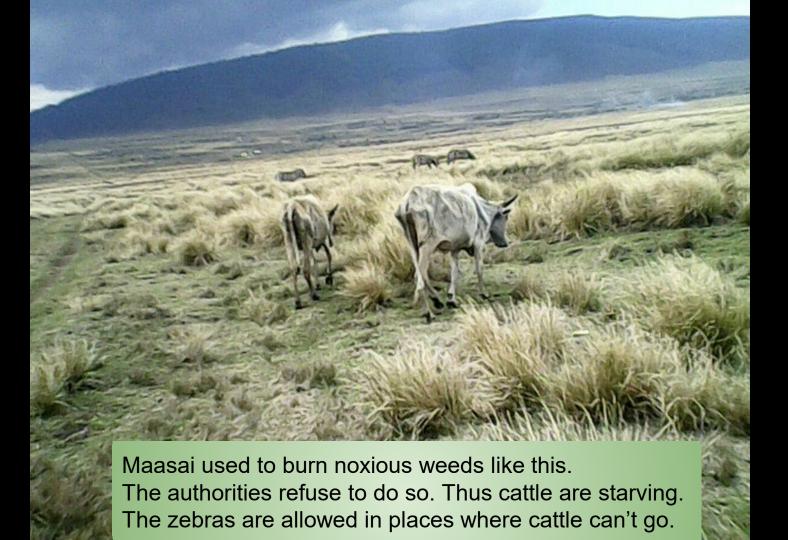


Who has the biggest footprint:

Maasai or Tourist?

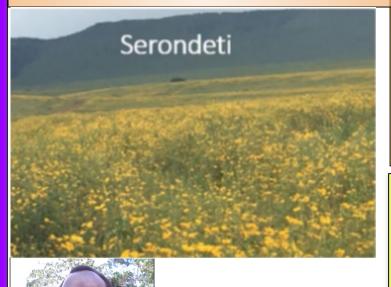






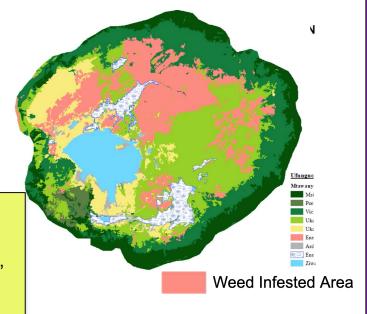


#### Invasive weeds in the Ngorongoro Crater

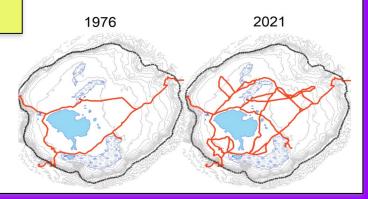


Ngorongoro is the jewel of the Ngorongoro Conservation Area. It is the main attraction of nearly all Ngorongoro tourism.

The NCA Authority says: "Degradation of range = "Tipping Point", blaming it on the population of the pastoralists..

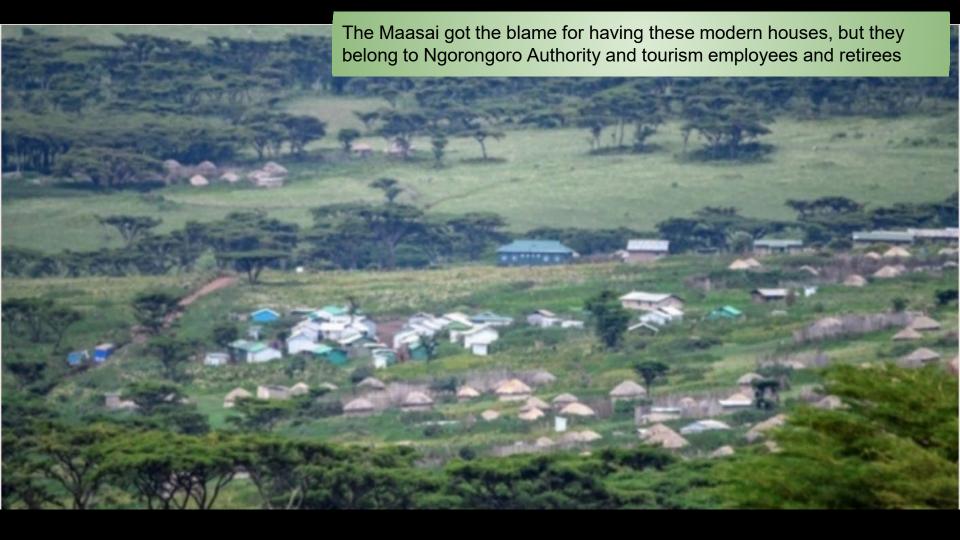


ts r Also too many roads are destroying the crater



Dr Nagol says it's unfair that the government and other bodies blame the pastoralists for invasive plants -- since they have not been there for over 45 years.

Youtube: "Save the Valley"





NGORONGORO AT TIPPING POINT AS POPULATION SOARS

"Sustainability of mutual coexistence between wildlife and people in the Ngorongoro Conservation Area (NCA) is at jeopardy as the population soars." https://allafrica.com/stories/202012290072.html

#### March 19, 2021

Tanzania swears in new president after sudden death of Magufuli

Vice President Samia Suluhu Hassan sworn in as president on Friday, after the sudden death of John Magufuli from an illness.



New President: Samia Suluhu Hassan

# April 7 2021

Tanzania: Samia Nails It On Ngorongoro Tipping Point

PRESIDENT Samia Suluhu Hassan expressed concerns of a threat facing Ngorongoro Conservation Area, saying the soaring human population jeopardises the wildlife in the world's greatest unbroken caldera

**April 20 Eviction Called Off** 

Tundu Antiphas Lissu 🥏

#### **April 12 Eviction Order**

Six days after the President's statement, the Authority published a document that would evict certain illegal immigrants, while hundreds of others were required to demolish buildings including government primary schools, health centers, police stations, churches, mosques and private homes.

#### April 18 2021 Maasai Appeal

NGORONGORO HERDERS AGAINST EVICTION FROM THEIR LAND

Wednesday, April 21, 2021 Q No Comment





@TunduALissu
The Ngorongoro Conserv

The Ngorongoro Conservation Area Authority has halted plans to evict hundreds of Maasai people following our Cyber Lounge debate on conservation and rights abuses in Tanzania's protected areas. Time has come to end crimes against humanity committed in the name of conservation.

#### **Voices from the Maasai**

"Wildlife has been increasing. There is no sign that it is vanishing"

"Ngorongoro should not only benefit the tourism industry but the local people as well."

By limiting areas that residents can access, areas available for tourism will expand. While millions of tourists continue to pour into the NCA, the environmental threat this poses is not being recognized.

## Indiginous population numbers are inflated

The authorities chose 100,000,, as the magic number that would mean a tipping point was about to be reached.

But it did not match the growth rate they had used to compute the numbers, so they reached the conclusion that about 40,000 were immigrants.

Part of that 40,000 is comprised of Ngorongoro authority/ tourism employees and retirees and staff of schools, churches and NGOs. People who work there, but don't live there are also counted.

"Even if there were 100,000 pastoralists, there is no scientific evidence to prove that the number threatens conservation in Ngorongoro.

Ngorongoro has the largest black rhino population in the world, including the Serengeti, which has no pastoralists.

Despite the presence of pastoralists in Ngorongoro, the park has more tourists than any other park."

The problem with targeting immigrants is that few people can prove that they are not an immigrant. No records were kept, even though population was thought to be a problem many



Maybe there is hope for this classroom after all.

Maybe the young preschool kids won't have to walk so far to school.

Maybe more girls can go to school

But the danger is not over!
They have been threatened with eviction and attempts to force them to leave for many years.

Education in Ngorongoro Conservation Area is extremely insufficient.

Health care is sadly lacking.

Cattle are restricted, subsidized grain has ended, no cultivation is allowed, pasture is degraded. Right to food is gone.

Although social services were promised the Maasai, they are sadly underfunded with little or no profit from tourism going to the residents.

These things are needed to slow population growth. If the Authorities had provided the things that they promised starting when they forced the Maasai to leave the Serengeti and move into a much smaller area, then there would be no problem with population.

However, there is no guarantee that that would be the end of colonial control over the Maasai.

#### From Special Rapporteur's Statement About Biodiversity & Indigenous Peoples

Indigenous knowledge is vital to saving the world's biodiversity—and consequently, to humanity's future. It finds that lands managed by Indigenous Peoples and local communities experience less biodiversity loss than other lands, suggesting we are thus vital to the survival of humanity. And it proposes recognizing our traditional knowledge—and our legal rights to own our lands and forests—as a key solution to the biodiversity crisis.

This consistent, all-encompassing approach to biodiversity protection is the reason why Indigenous Peoples live in areas with the richest biodiversity and least damaged ecosystems.

About 80 percent of all the world's biodiversity is located on indigenous lands.

But our efforts to protect the biodiversity of plant and animal life on our lands are often met with violence. We are criminalized and killed and run off our traditional territories by powerful political and economic actors who seek to extract wealth from the landscapes we have inhabited and cared for, sometimes for generations. In the process, they often destroy the lands we have long preserved.

Ironically, we are often excluded from treasured landscapes by those whose goal is conservation. Worldwide, at least 40 to 50 percent of protected areas have been established on lands traditionally occupied or used by Indigenous Peoples—with devastating consequences.



Email me for a repeat of this presentation + Q&A on June 30: masai-harmonial@gmail.com

## Maasai Harmonial Development and Sustainability

Website: Masai-Harmonial.org

New: <u>Maasai-Harmonial.org</u>

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