



Grandmothers of Alberta for a New Generation

AGENDA

INTRODUCTION

1. Introductions

5 mins

MY STORY AND OTHERS

2. What connects Climate Change,
Insecurity, Terrorism and HIV/AIDS?

15 mins

MEANINGFUL ACTION

3. Local Action and Global Cooperation
- GANG, SLF and others

10 mins

DISCUSSIONS/CLOSING

4. Discussions & Closing

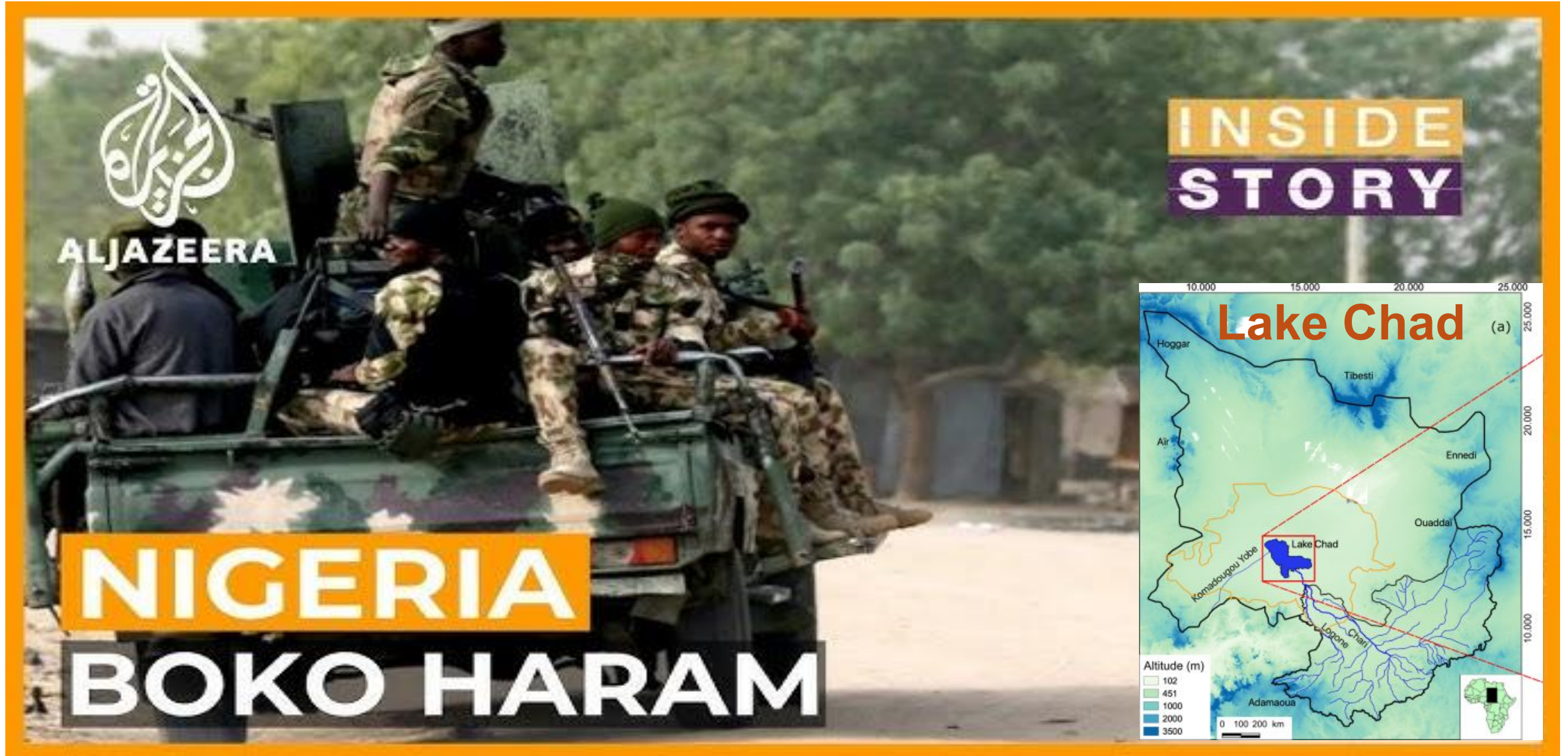
10 mins

MY STORY (1/2)



**KIDNAPPING MENACE
IN NIGERIA**

MY STORY (2/2)



AMINA ALI NKEKI'S STORY





ENVIRONMENTAL CHANGES

LOCAL INTERVENTIONS

CLIMATE CHANGE AND HIV/AIDS

Climate Change

Rising sea levels and floods displace coastal residents in the south, and droughts displace herders in the North

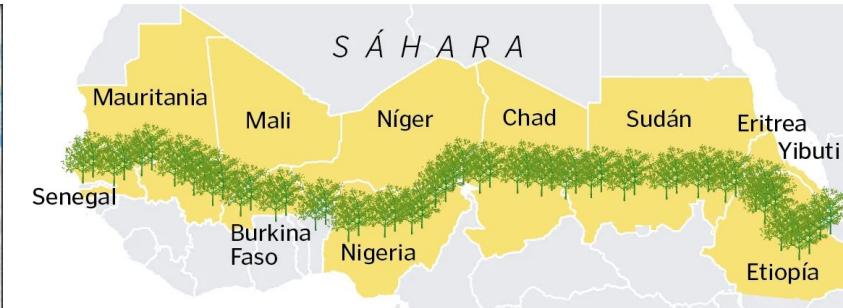
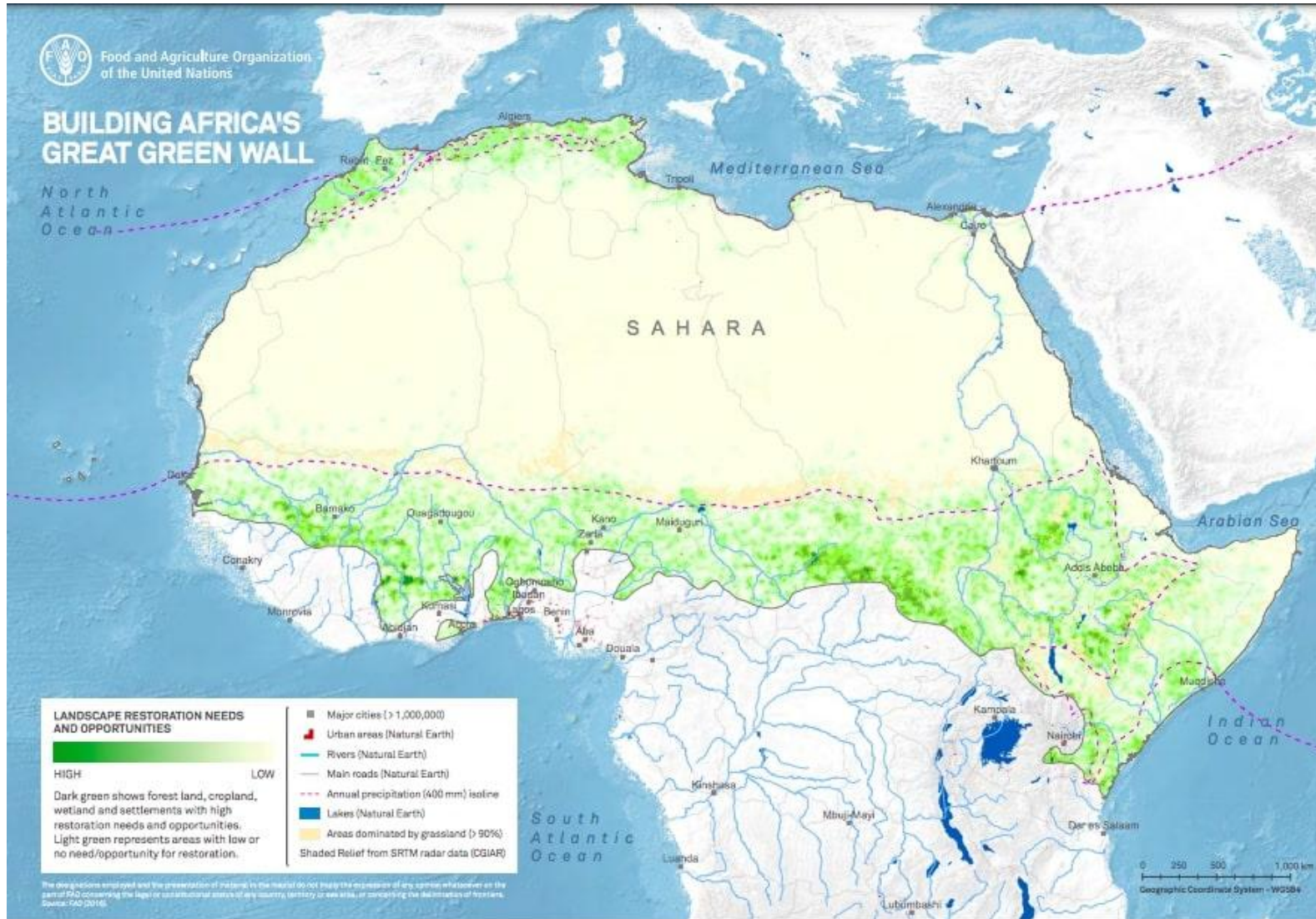
Insecurity

Displaced herders encroach on Middle Belt farmlands leading to crop loss, herder/farmer clashes, food shortages and insecurity

Impact

Further displacement of people, economic decline, cultural shifts, terrorism, increase in HIV and AIDs cases, leading to mass emigration

LOCAL ACTION – THE GREEN GREAT WALL



<https://thegreatgreenwall.org/about-great-green-wall>

GLOBAL COOPERATION – AFRICA INNOVATES



AFRICA INNOVATES

CTCN
UNDP
UN environment

CLIMATE CHAMPIONS

50

HOMEGROWN AFRICAN INNOVATIONS TACKLING CLIMATE CHANGE

The disruptors
The gamechangers
The young & gifted



FOOD SECURITY

Artificial intelligence engineer Prince Clement Agorwara is helping his country to help solve food crises using deep technologies like artificial intelligence, machine learning and the Internet of Things.

“My ambition for my country is to help solve food crises using deep technologies like artificial intelligence, machine learning and the Internet of Things.”

Prince Clement Agorwara, CEO

REACHING OFF-GRID COMMUNITIES WITH CLEAN AND SMART CLIMATE TECH

The sisters run an NGO called Drop Access that works to transform lives and livelihoods, by providing clean, affordable climate-smart technologies to remote communities that typically don't have access to energy or electricity. Founded in 2018, this women and youth-led outfit tackles climate impact head-on in rural and off-grid communities with clean and climate-smart technologies, like portable solar-powered cold storage and small-scale solar panels to support farming irrigation systems, plus storage boxes for vaccines.

“This is beyond clean-cooking technology. This is beyond solar home lamp kits. This is promoting women to engage in entrepreneurship.”

Norah Magoro, Dolphine Magoro, Co-founders



Photo credit: Copyright 2021 - Drop Access

SETTLING CLIMATE DISPUTES WITH 2D AND 3D PARTICIPATORY MAPPING IN CHAD

Population growth and climate change have exacerbated tensions between Chad's M'bororo herders and sedentary farmers. One particularly contentious issue is the herders' ability to access river, dam and other water sources for their cattle.

Local solutions have been central to calming tensions – like those proffered by Hindou Oumarou Ibrahim, head of the Association des Femmes Peuple Autochtones du Tchad (AFPAT), who in 2011 worked with partners to deploy technology-based solutions in order to avoid clashes that were spiraling out of control.

P23DM is a community-based method for mapping landscapes using local and traditional knowledge of the surrounding environment. Natural features, such as ridges and plateaus, are mapped out on a board by the community, which leads to the creation of an intricate 2D and 3D landscape models, from which data about the surrounding area can be extrapolated.

This process brought together herders, scientists, representatives from the UN, government officials and the nomadic communities, especially in the district of Baliboukou, Chad.

Since 2012, Ms. Oumarou's efforts have helped to maintain peaceful dialogue in the area. With support from FAO, a pastoral code has also been developed which recognizes the land rights of the nomadic M'bororo people. The Ministry of Livestock allocated 4,000 kilometres of land corridors through which herders can now move their cattle.

Overall, 60 M'bororo men and women were involved in the project, representing the interests of 250,000 nomadic herders in the region with more than 300 people participating to build the map.

The mapping exercises confirmed that indigenous communities must be involved in decisionmaking for effective conflict resolution. They also showed that women play a particularly key role in social cohesion. Hindou is paving the way for female-led climate change solutions in Chad, and we're deeply proud of her.

“We fight for survival, and nature is our supermarket. To protect it we use our indigenous traditional knowledge and science. We develop participatory 2D and 3D mapping projects to help women and young people manage the few resources left.”

Hindou Oumarou Ibrahim



CLEAN COOKING FOR BETTER HEALTH AND PLANET IN KENYA

Makuru Clean Stoves (MCS) designs, manufactures and distributes improved, efficient and reliable stoves. They are made from locally sourced recycled metal and distributed through networks of women entrepreneurs and local microfinance institutions.

FIGHTING AIR POLLUTION

Burning solid fuels such as wood, charcoal and agricultural waste in open fires and traditional stoves exposes families to air pollution levels as much as 20 times greater than the World Health Organization guidelines recommend for clean air. Clean cooking stoves decrease fuel consumption by 30-60%, reduce toxic smoke emissions by 50-90%, and lower the risk of burns in children under five by 40%.

MCS has developed a low-cost clean cooking stove that uses up to 40% less fuel compared to other traditional stoves on the market, reducing toxic smoke emissions by up to 90%. The stoves are designed to be much more stable and sheltered than traditional stoves, preventing the risk of burns in children by 40%.

INNOVATION AND EDUCATION

Charles Magesi grew up in Makuru, one of the largest neighborhoods in Nairobi, Kenya. The enterprise that created his legend began women's entrepreneurship. 100% of MCS sales agents are women and 90% of them live in the communities that they serve. Further, they partner with local female-owned businesses to reach their target market.

MCS is determined to educate as many mothers as possible about the dangers of household air pollution and encourage them to use safer cooking devices in their homes. Promoting

USING HIGH TECH TO UPGRADE FARMS AND ENHANCE RESILIENCE IN NIGER

Like Tobi, Niger Techno is a social enterprise that is developing and marketing digital agricultural innovations through tele-irrigation, use of mobile phones, bio-fertilizers and a 4.0 process to ensure water is clean and safe. Its ecological digital farm uses intelligent sensors and solar energy to manage scarce water resources. The internationally acclaimed innovation patented by the African Intellectual



CREATING DIGITAL GREEN FARMING

Abdullahi passed his love for start-up to his new endeavor, building farms equipped with remote-controlled irrigation systems and



IMPROVED LIVELIHOODS



DISCUSSIONS



SOME IDEAS TO CONSIDER

- ✓ Keep the conversation going ...
- ✓ Support a local action (e.g. Green Wall) or global cooperation (Africa Innovates)
- ✓ Go See! And Share your story!
- ✓

Thank You GANG!

