

Verminderung des Brennholzbedarfs

durch Einführung effizienter Öfen in Nigeria

Haus Düsse, Bad Sassendorf, 16 Juni, 2012

Von Yahaya AHMED, CEO D.A.R.E.



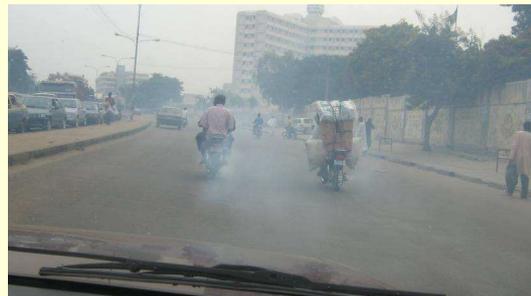
Overview

- Review of the problems on ground.
- The necessity of introducing a fuel wood efficient cooking stove.
- The need for the Save-80 CDM project.

Street scene in Kano



Smog through Okadas...



..... and other vehicles



HOW IT LOOKS LIKE

In the AIR

After take-off from Abuja towards Lagos



About 40 Minutes Later



Approaching Lagos Airport



Just before landing

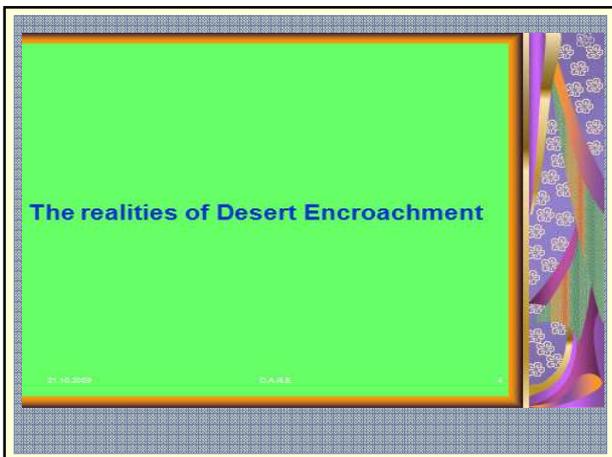
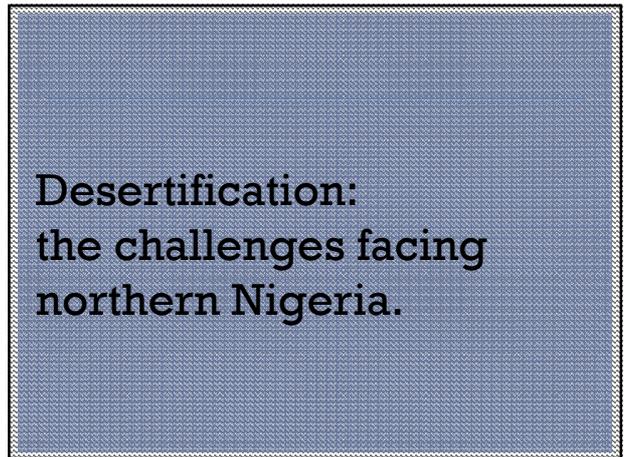
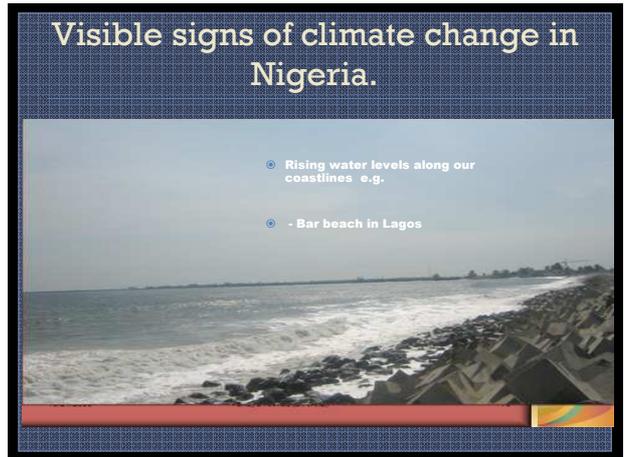
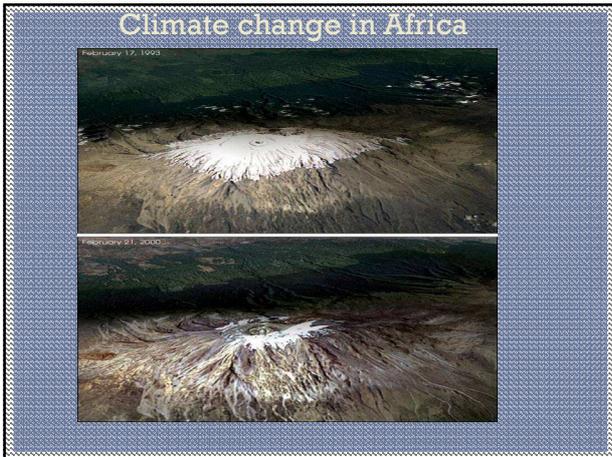


On touching the runway



Visible Effects

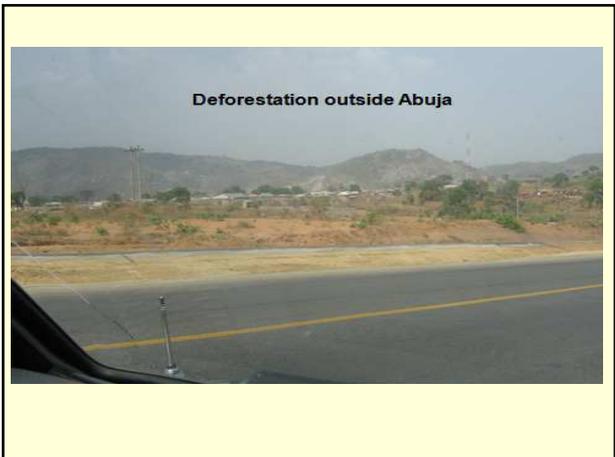
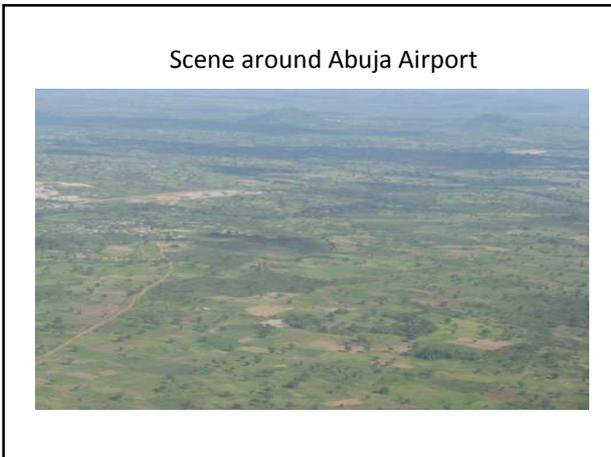
Of Climate Change

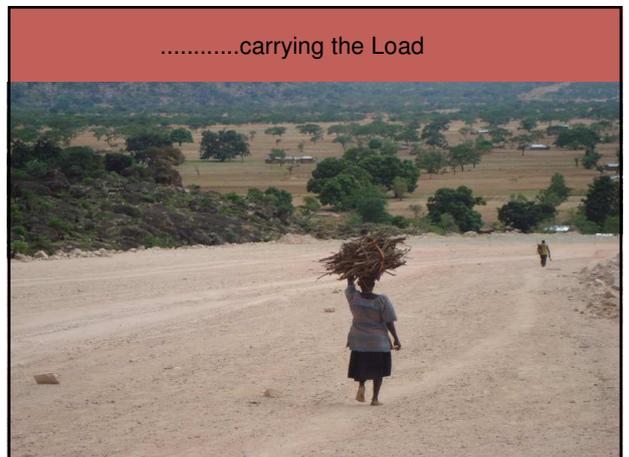


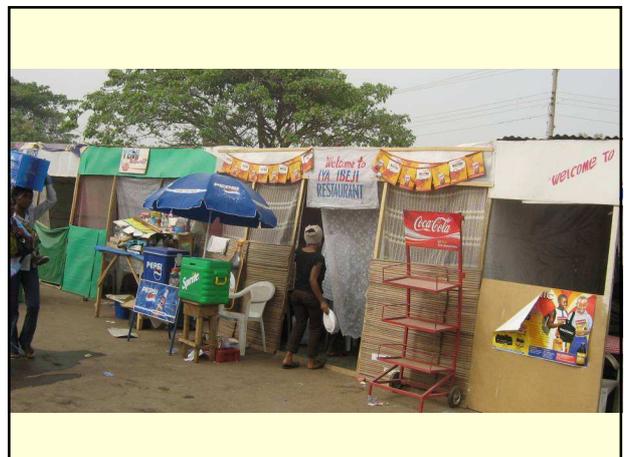
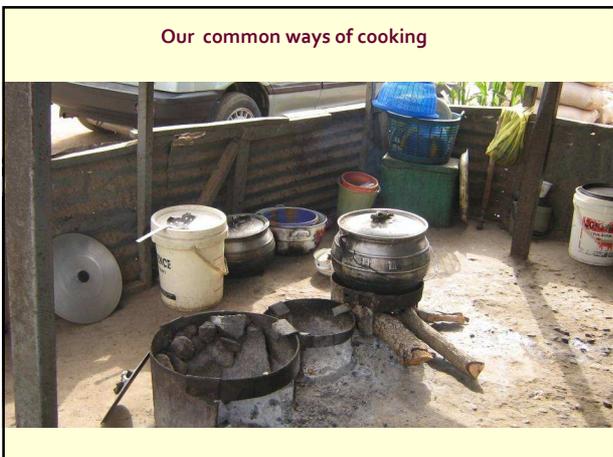
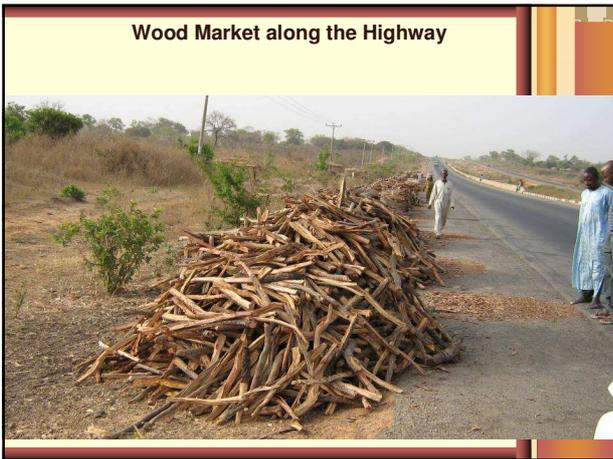


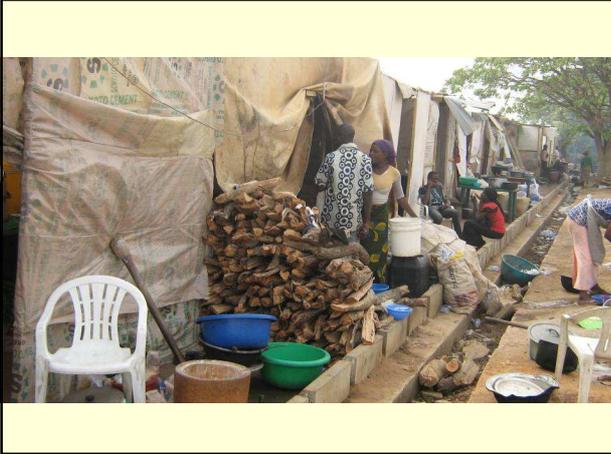
ABUJA – Federal Capital territory

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- Second level
- Third level
 - Fourth level
 - Fifth level

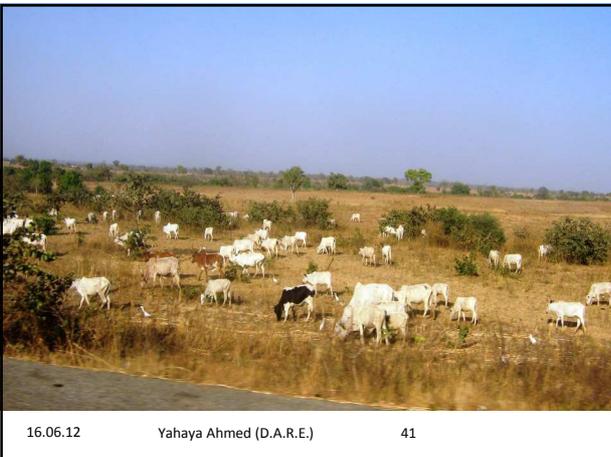
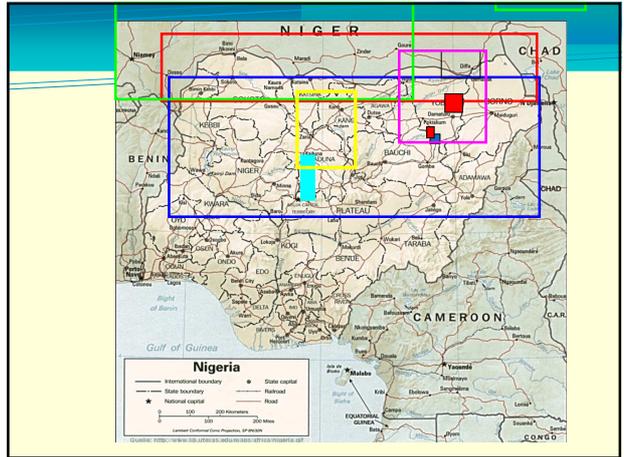




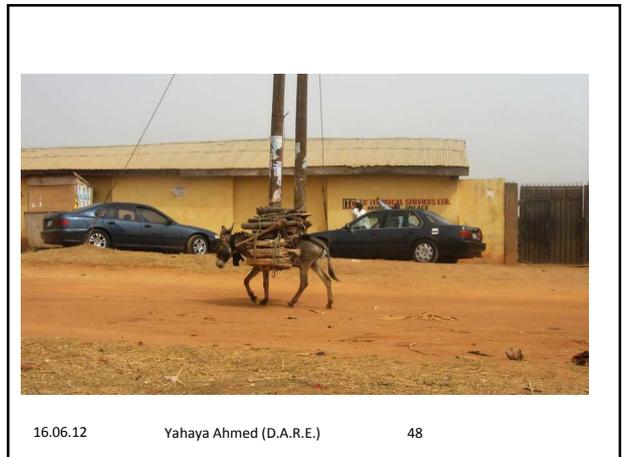




CC forced migrants as woodsellers in Kaduna



Any flat surface is utilized for bulk transportation of wood





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Wood Market in Rimin Gado – Kano State.



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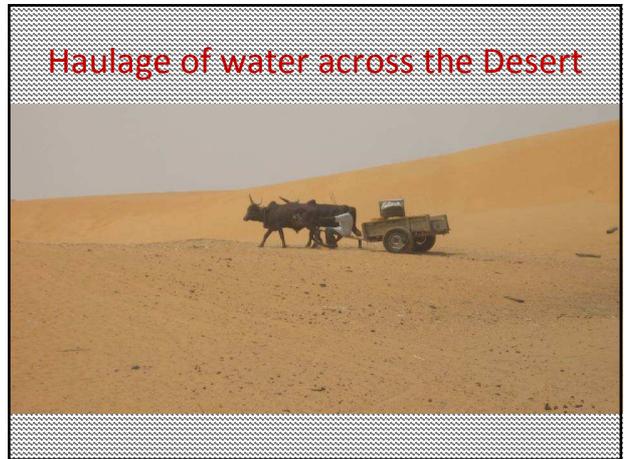
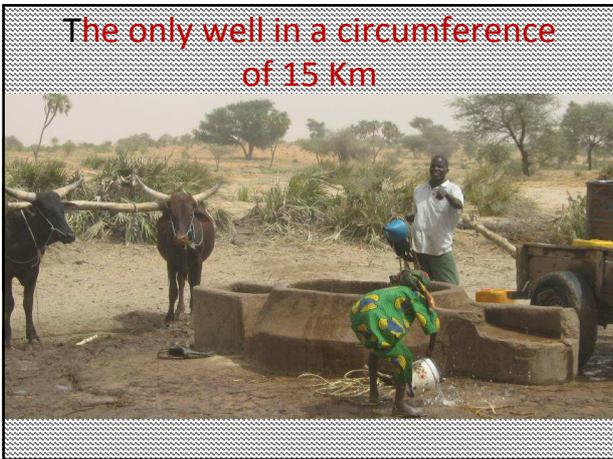
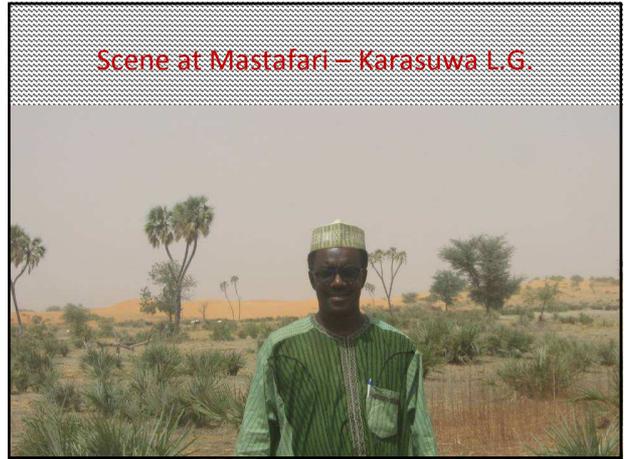
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Young children desperately looking for water



Abandoned village



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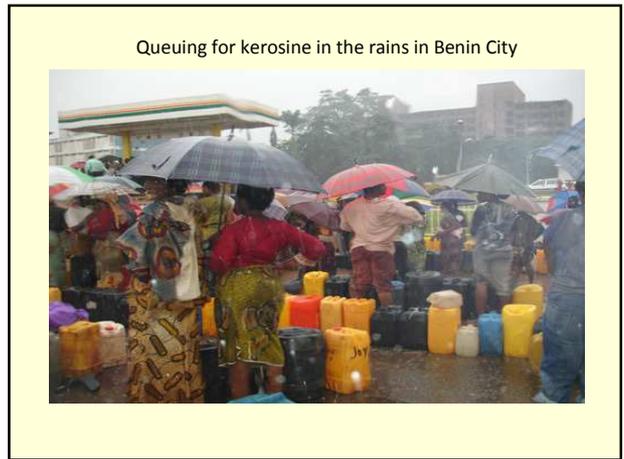
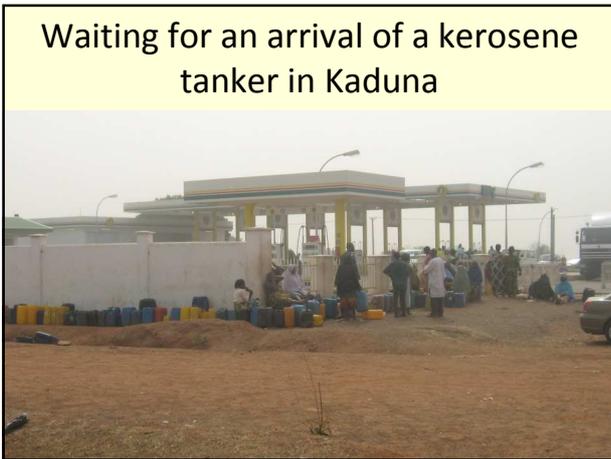
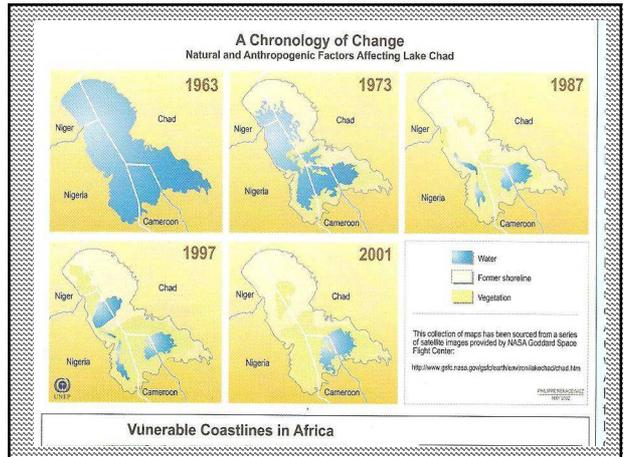
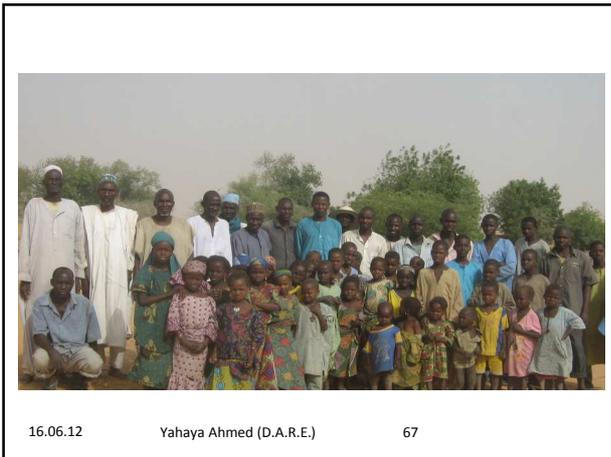
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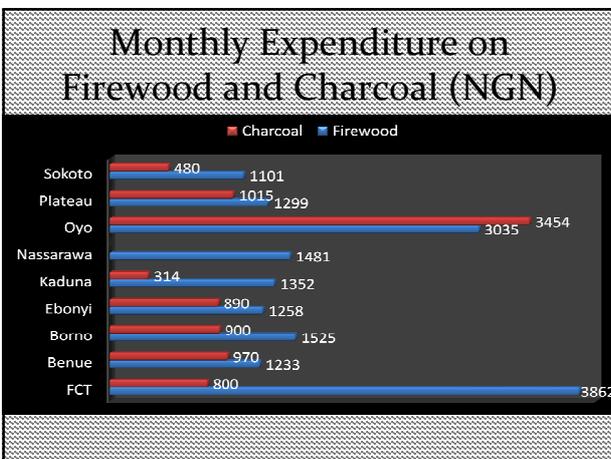
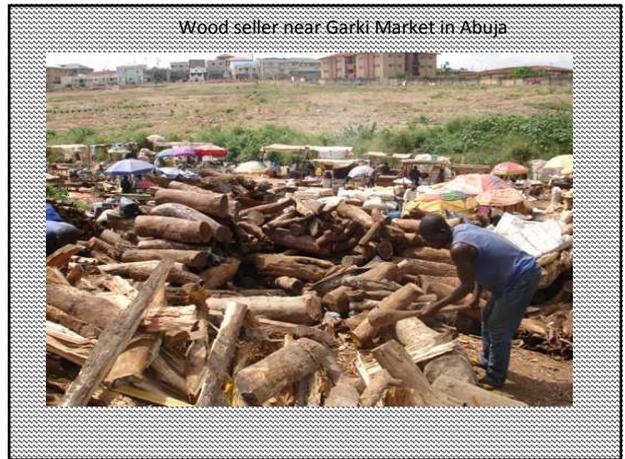
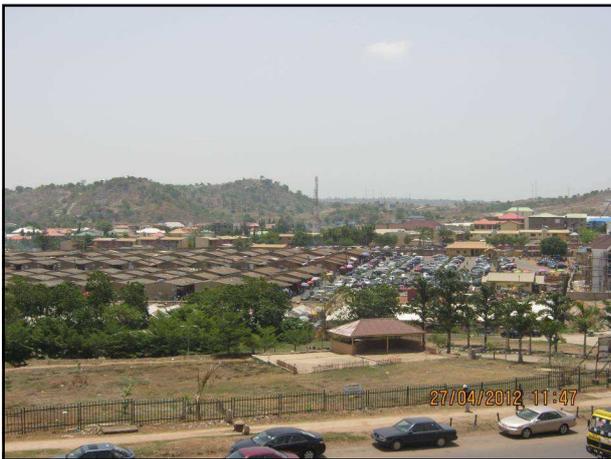


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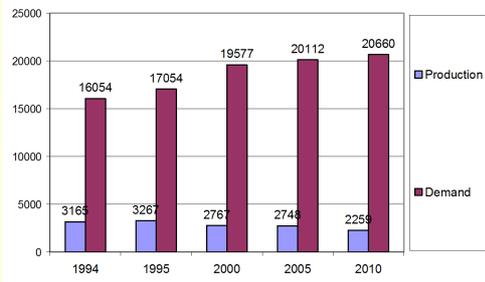
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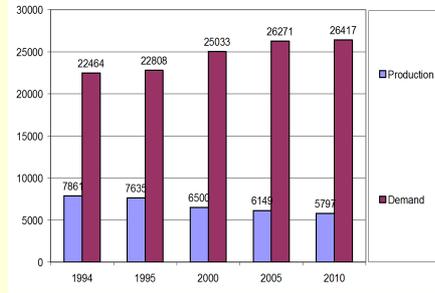




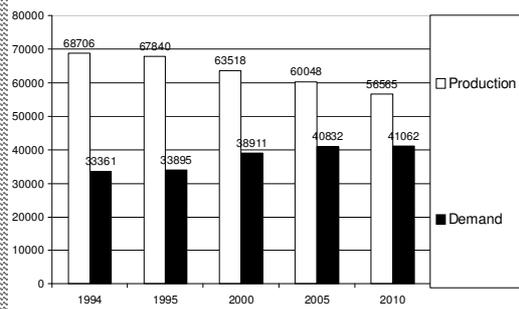
Nigerian Sudan Savannah, Fuel Wood Production & Demand, based on "Experience of Implementing National Forestry Programmes" in Nigeria, FAO 2003 Data in 1000 m3



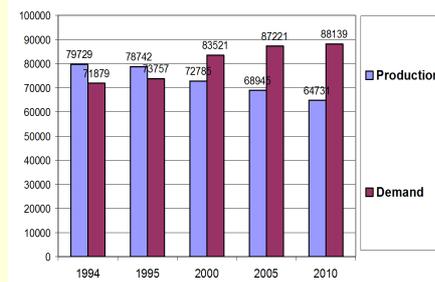
Nigerian Guinea Savanna, Fuel Wood Production & Demand, based on "Experience of Implementing National Forestry Programmes" in Nigeria, FAO 2003 Data, in 000m3



Nigerian High Forest, Fuel Wood Production & Demand, based on Experience of „Implementing National Forestry Programmes in Nigeria“, FAO 2003, Data in 000m3



Nigeria as a Whole, Fuel Wood Production & Demand, based on Experience of „Implementing National Forestry Programmes in Nigeria“, FAO 2003, Data in 000m3



The Challenges Nigeria is facing !!!

The beach at Lekki

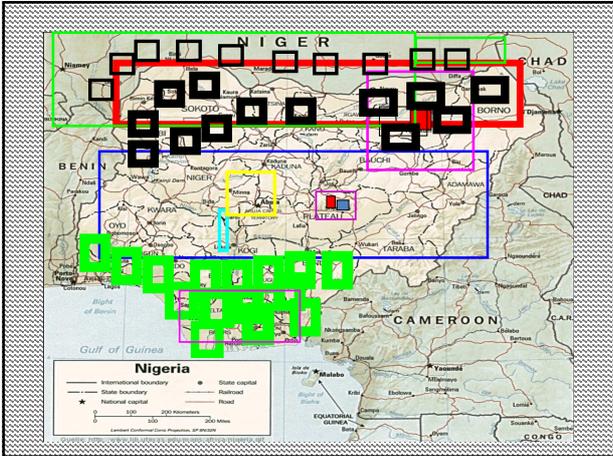




EVERY 1 CENTIMETRE RISE IN SEA LEVEL RESULTS IN 38 CENTIMETRES HORIZONTAL RETREAT OF SHORELINE. LAGOS IS APPROX. 21 METRES ABOVE SEA LEVEL.

Gulley Erosion in Obosi

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What are the consequences?

- Middle belt will be choked up
- Resources will be scarce
- Chaos will be the order of the day
- We shall be fighting and killing each other

Prevention is better than cure

- Where do we go from here?

- **Providing alternatives to using wood as domestic fuel**

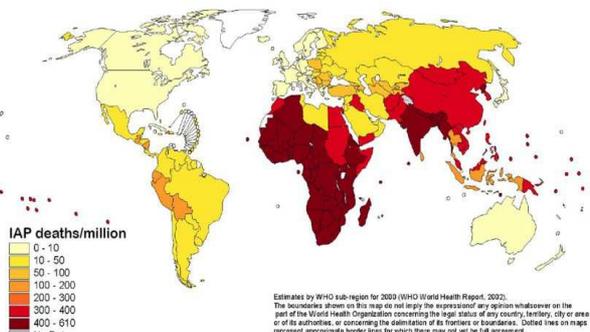
Our traditional way of cooking



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IAP Deaths worldwide



Can be replaced by

Efficient Fuel Wood Cooking Stoves



THE SAVE 80

- As the name implies cooking with the save 80 saves 80% of the wood consumption compared to the traditional open fire place.
- The save 80 needs just about 250g of wood to prepare a delicious pot of jollof rice that can feed 15 people.
- With its interior parts being made of stainless steel, a guarantee of 10 years is given to every stove

THE WONDERBOX

- A combined usage of the save 80 and the wonder box is recommended to further save fuel wood used on the save 80.
- The wonder box is a heat retaining box which can be used to cook via retained heat and keep the contents at a high temperature for many hours.
- Cooking with the wonder box is simple and needs no surveillance.

SAVE 80 FOR PREPARING ANY TYPE OF MEAL

- Second level
- Third level

The Save80 Project

Meeting the people

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Youth empowerment and skill acquisition.

DARE technician training youths to assemble the Save-80 stove in Makarfi LG, Kaduna State.



**Trained youths proudly presenting the Save-80s they have assembled on their own.
(Makarfi LG – Kaduna State).**



A set of trained youths in Jos – Plateau State



Families carrying their acquired Save-80s home.





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Need for a
Clean
Development
Mechanism
(C.D.M.)
Project

Healthy and affordable household energy is essential for achieving the MDGs

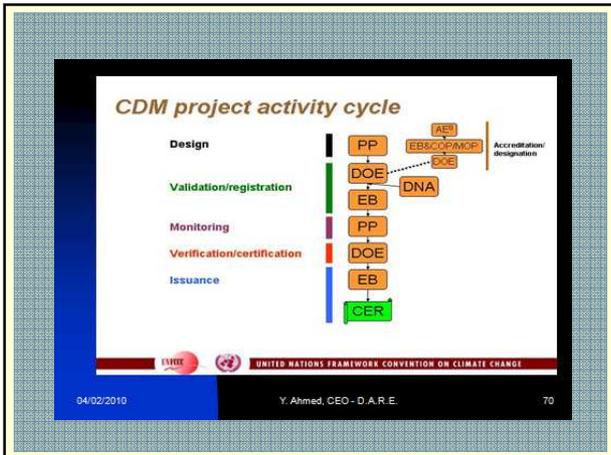
"Improved energy services — including modern cooking fuels — are necessary for meeting almost all the Goals. (...) The UN Millennium Project proposes that countries adopt the following specific target (...) by 2015: Reduce the number of people without effective access to modern cooking fuels by 50 percent and make improved cookstoves widely available."

UN Millennium Project, Investing in Development: A Practical Plan to Achieve the Millennium Development Goals.

- MDG 1: Eradicate extreme poverty and hunger
- MDG 3: Promote gender equality
- MDG 4: Reduce child mortality
- MDG 5: Improve maternal health
- MDG 6: Combat HIV/AIDS and other diseases
- MDG 7: Ensure environmental sustainability

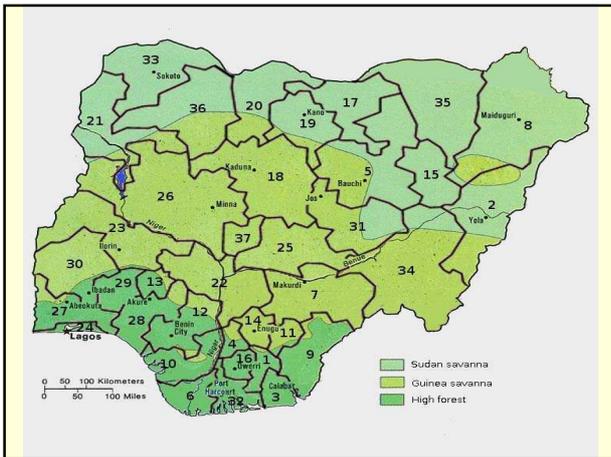
Source: Eva Rehfuss, WHO

- Targets**
- 10 million efficient stoves by 2015
 - 1 million stoves in 2 –3 years
 - 10,000 institutional stoves



Some figures on our CDM Project

The Save 80 Project is the first SSC - CDM project activity in Nigeria and the first, applying the methodology AMS II G (Biomass), to get registered worldwide.



The following states mainly belong to the Guinea Savannah Zone.

Map Number	State	Population (Census)
7	Benue	4,219,244
14	Enugu	3,257,298
18	Kaduna	6,066,562
22	Kogi	3,278,487
23	Kwara	2,371,089
25	Nasarawa	1,863,275
26	Niger	3,950,249
30	Oyo	5,591,589
31	Plateau	3,178,712
34	Taraba	2,300,736
37	(FCT)	1,405,201
TOTAL	11	37,482,442

Adopting our own strategies to disseminate the Save 80

- - Savings on Fuel Wood
 - From NGN 120 (3 Stone fireplace) to NGN 20 (Save 80).
- - Rotating financing by the group.
- - Instalmental payments (without interest) after endorsement by Group Head:-
 - District Head (Hakimi).
 - Village Chief.
 - Imam
 - Pastor

Achievements:

Among others,

UNFCCC selected the Save80 project as one of 10 CDM projects worldwide that a make a unique contribution towards improving people's lives and achieving sustainable development.
See:

— [Savanna_Nigeria.pdf](#)

Long-term perspective:

- Production in Nigeria, when enabling environment and policy available to allow setting up of own production facilities.
- So far almost **10,000 SAVE80** stoves have been sold to customers at a reduced price-thanks to CDM pre-financing.
- ❖ **Groundbreaking example for emulation in Africa and other parts of the developing world!**



Current situation towards the Nigeria-Niger border

or even like this:-



Scene on the Nigeria-Niger Border



Enclosed area regenerating after a period of rainy season

“People everywhere deserved not to suffer because of climate change; people everywhere deserved a future for their children. People everywhere deserved to have **leaders** who find the courage to achieve a solution to these crises”.

Kofi Annan, former Secretary-General of the UN.

Thank you for your attention