



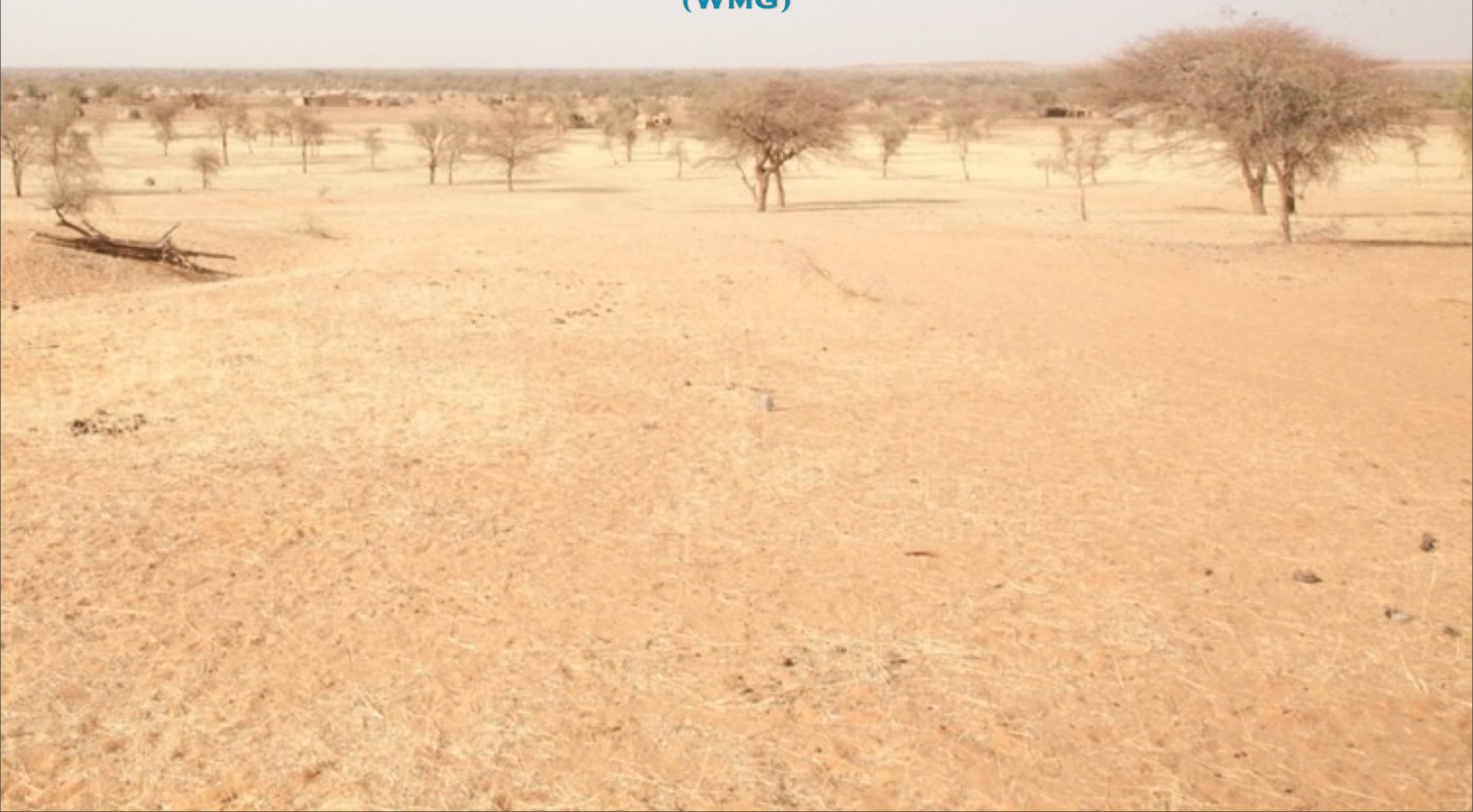
BURKINA FASO

*CARNET
de mission*
I

August 2012



**WATER HARVESTING
IN
BURKINA FASO'S SAHEL REGION
W/ PARTNER WATERSHED MANAGEMENT GROUP
(WMG)**



BOULI

-TRADITIONAL
TYPE OF
EARTHEN DAM

-CATCHES
FLOODWATER
DURING BRIEF
RAINY SEASON

-PROVIDES
HOUSEHOLD &
IRRIGATION
SUPPLY DURING
DRY SEASON

-PROMOTES
BIODIVERSITY



AYAGOROU BOULI PROJECT

-MOSSI VILLAGE
LOCATED 6 KM FROM
DEOU, DEEP IN THE
SAHEL RESERVE

-1 OLD BOULI
EXPANDED,
PROVIDES
IRRIGATION FOR
1 HECTARE
OFF-SEASON
VEGETABLE
GARDENS

-1 NEW BOULI
CONSTRUCTED,
PROVIDES WATER
FOR ANIMALS



AYAGOROU BOULI EXPANSION



-PREVIOUS
WATER
CAPACITY =
 $5,700\text{M}^3$

-REMOVED
APPROX. 6000M^3
OF SEDIMENT

-OVERSAW
COMMUNITY
INSTALLATION
OF GABION
SEDIMENT TRAPS



“The inner spirit of our water conservation program is that the amount of existing surface water should be immediately doubled. But it is preferable if it is increased tenfold.” pr sarkar





and then there was rain...





**-BOTH BOULIS AFTER 1ST RAIN
(MAIN BOULI - TOP, ANIMAL BOULI - RIGHT)**

**-MAIN BOULI'S NEW CAPACITY
= 12,000M³**

-BARBED WIRE FENCE CONSTRUCTED

**-1,000+ NITROGEN FIXING AND FRUIT
BEARING TREES PLANTED AROUND
PERIMETER**



GABION CHECK DAMS

- WIRE MESH CAGE FILLED WITH STONES
- INSTALLED IN NATURALLY FORMED WATER CHANNELS
- SLOWS RUNOFF
- PREVENTS EROSION
- HELPS CONTAIN AND RECHARGE GROUNDWATER



GABION TRAINING

-SIMPLE
MACHINE MAKES
GABION WIRE
BASKETS

-ESTABLISHED
1ST GABION
PRODUCTION
SITE IN REGION

-SKILL PROVIDES
ADDITIONAL
INCOME FOR
FARMERS



GABIONS IN ADJOUMA VILLAGE

-FULSI COMMUNITY
2 KM FROM DEOU

-DURING DRY SEASON,
PEOPLE COLLECT
WATER FROM HAND
DUG WELLS IN DRY
RIVER BEDS

-PEOPLE GENERALLY
FIND MORE
SUBTERRANEAN
WATER WHERE CHECK
DAMS ARE PRESENT

-COMMUNITY
CONSTRUCTED AND
INSTALLED 15
GABIONS



UNDERGROUND CHECK DAM IN LILA VILLAGE

-FULANI COMMUNITY
LOCATED 5 KM FROM
DEOU

-HOME TO DOZENS OF
HAND DUG WELLS THAT
PROVIDE WATER FOR
NEARLY 1000 HEADS OF
CATTLE PER DAY DURING
THE DRY SEASON

-COMMUNITY INSTALLED
UNDERGROUND CHECK
DAM TO HARVEST
SUBSURFACE WATER
FLOW AND RECHARGE
ADJACENT WELLS.



WASH PROGRAMS

W/ PARTNER
WATERSHED
MANAGEMENT GROUP
(WMG)

PURPOSE:

- TRAIN RURAL HEALTH WORKERS
- CONDUCT IMPROVED STOVE TRAININGS
- HOLD LATRINE WORKSHOPS
- HAND WASHING PROMOTION



IMPROVED COOK STOVES

-TRADITIONAL
METHOD VERY
INEFFICIENT

-50%
EFFICIENCY
GAIN

-IMPACT ON
HEALTH,
DRUDGERY &
ECOSYSTEM



ARBOR LOO



-89% LACK
SANITATION

-COMPLICATED
GOVERNMENT
STRATEGY

-ARBOR LOO
IS SIMPLE AND
CHEAP



ARBOR LOO



-USE OF ASHES,
DRY LEAVES,
PEANUT SHELLS

-IN SITU
COMPOSTING
FOR TREE
PLANTING

-REUSABLE
CONCRETE SLAB
FOR NEW
ARBOR LOO



ARBOR LOO



2010- 2012

-IN SITU
COMPOSTING

-WHEN
COMPOST IS
READY, PLANT
A TREE!



TBA TRAINING

-DISEASE
TRANSMISSION

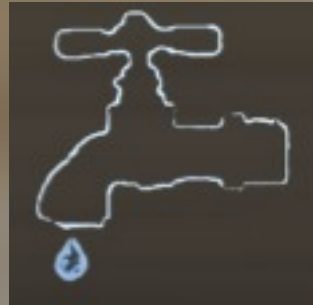
-HYGIENE
BEHAVIOR
CHANGE

-DIFFERENT
APPROACHES

-PARTICIPATORY



TBA TRAINING



-WATER
QUALITY

-SAND FILTER

-LIVE THE
MESSAGE



TBA TRAINING

-TIPPY TAP...
COMING TO A
VILLAGE NEAR
YOU!

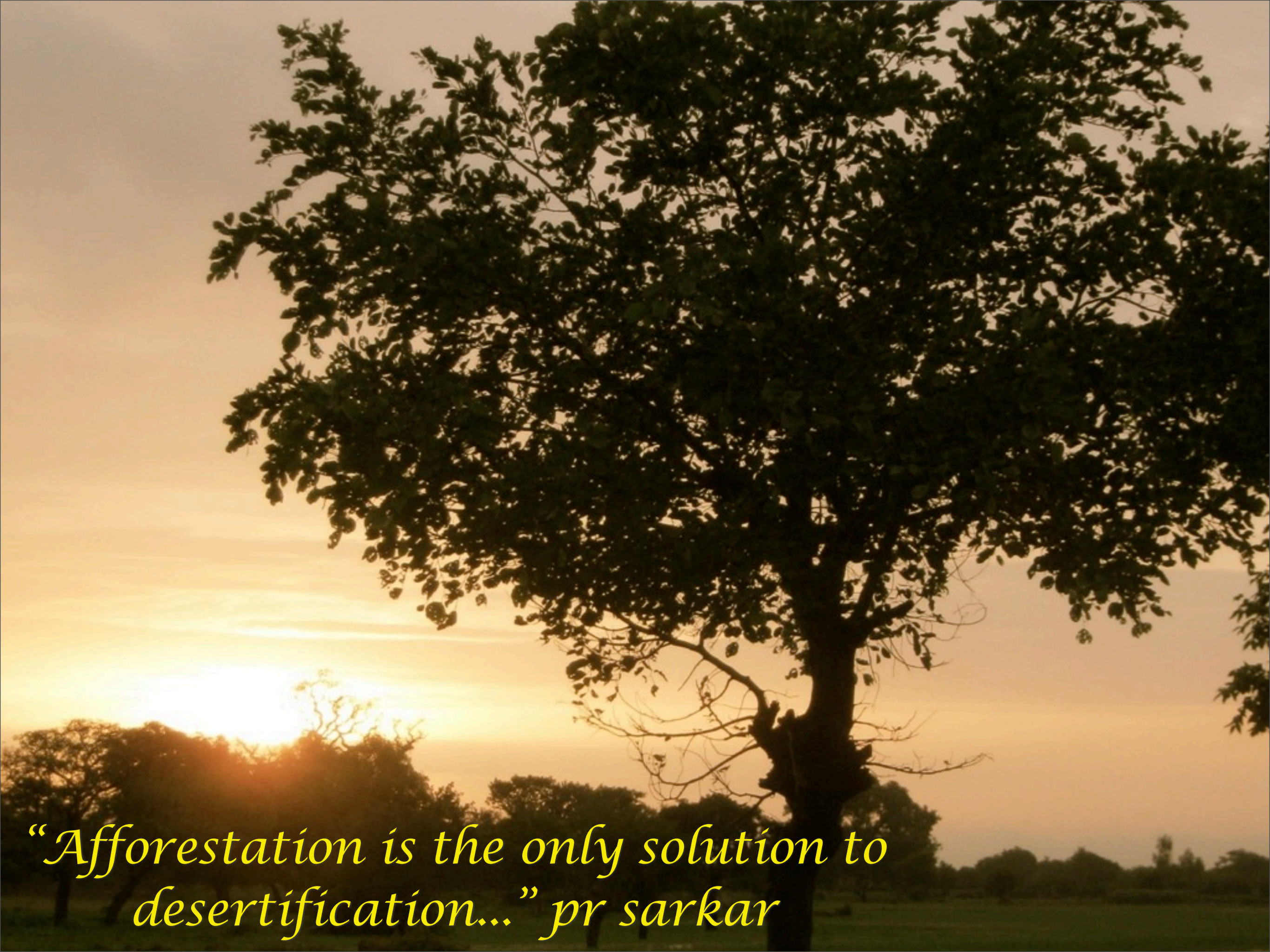
-HOW TO WASH

-LOW COST

-SAVES WATER

WWW.TIPPYTAP.ORG





“Afforestation is the only solution to desertification...” pr sarkar

1070 TREES PLANTED AROUND AYAGOROU BOULI

-700 NITROGEN
FIXING ACACIAS FOR
LIVING FENCE

-30 MANGOES & 40
CITRUS FOR INCOME
GENERATION

-300 MORINGA FOR
NUTRITION

...MORE TO COME



3000 TREES PLANTED IN BISSIRI MASTER UNIT

-1200 NITROGEN
FIXING ACACIAS AND
CASSIA FOR LIVING
FENCE

-1500 MORINGA FOR
NUTRITION AND
INCOME GENERATION

-150 CITRUS FOR
INCOME GENERATION

-100 VARIOUS
MANGO, GUAVA,
POMEGRANTE AND
SUGAR APPLE TREES

-50 VARIOUS TREES
FOR BEAUTIFICATION
AND BIODIVERSITY





Burkina Faso

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