



84th IFA Annual Conference
30 MAY - 1 JUNE 2016

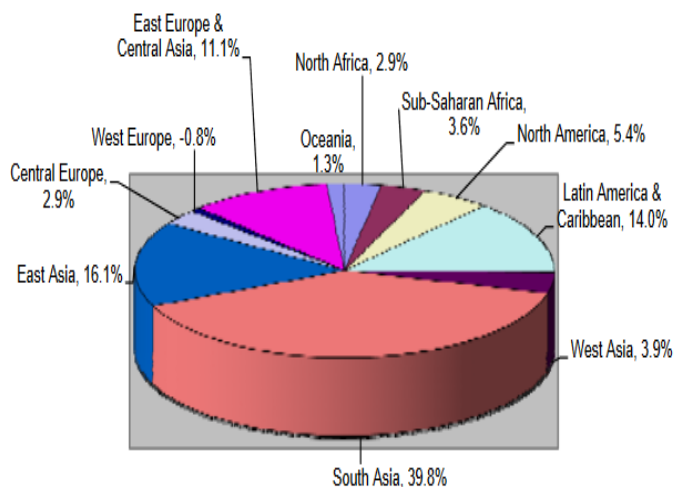
The way forward to increased food security in sub Saharan Africa: Give more emphasis to soil health and balanced fertilization

Prof. Tekalign Mamo

Agricultural Transformation Agency, Ethiopia

Ethiopian  ATA
Agricultural Transformation Agency
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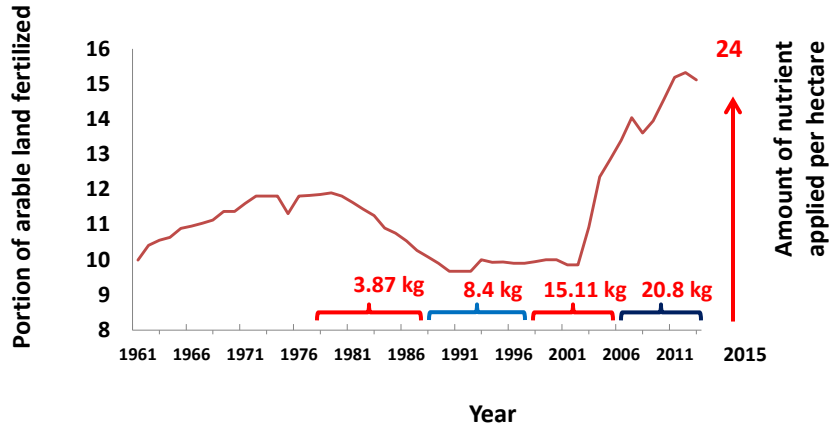
Regional and sub-regional share of world increase in Nitrogen fertilizer consumption, 2012-2016



Source: Food and Agriculture Organization, June 2012

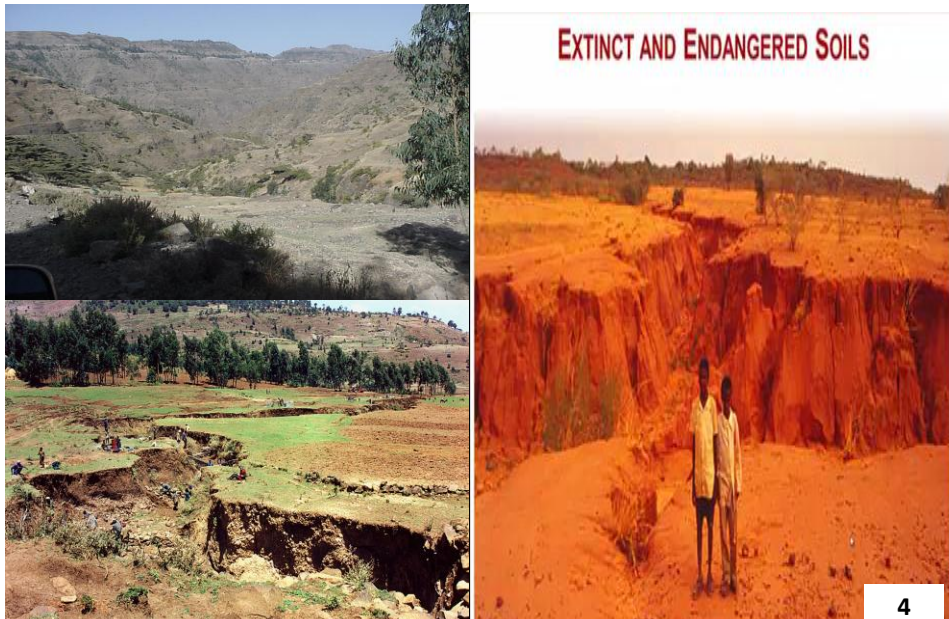
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In Ethiopia, positive trend in overall fertilizer consumption is observed during the past years, but in no way does this imply cause for satisfaction as application rates are still low.



3

Uncontrolled Land Degradation leads to low productivity, poor response from use of fertilizers and soil extinction.



4

Nutrients are being continuously removed from the farms through stover and crop residues



Cow dung is being sold for energy source



Photos Marco C 5

From El Niño to La Niña



AP



6

Seeing is believing! Why would a farmer resist to use fertilizers if they significantly increase his yield?



Blended fertilizer and urea

DAP and urea treated plot

Maize crop that received blended fertilizer and urea, and planted 15 days later (top) performed better and grew faster than the one planted earlier and treated with DAP and urea only (bottom) (Southern Ethiopia).

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“Yichalal” (It is possible to do it) Haile Gebreselassie



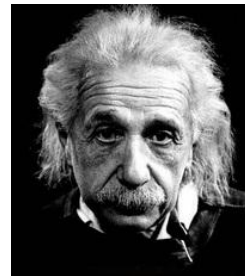
“Silence does not
always mark wisdom.”

— [Samuel Taylor Coleridge](#)



“If I were to remain silent,
I'd be guilty of complicity.”

— [Albert Einstein](#)



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Norman Borlaug (1914-2009) Father of the Green Revolution



‘I failed Africa’

Norman Borlaug
during his last
hours before death
(Source: Julie
Borlaug, 2014)

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**“Food is the moral right of all who are
born into this world.”**

--Norman Borlaug

11

BREAD AND PEACE

**There are not many troubles in the
world more alarming than those
caused by the fire in the pit of an
empty stomach.**

R.Lal

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