Anglophone African Regional Workshop Converting INDCs into action: the role of NAMAs in INDC implementation

United Nations Framework Convention on Climate Change

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AFOLU

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Climate change affects the four dimensions of food security

- food availability,
- food accessibility,
- the stability of food supply, and
- the ability of consumers to adequately utilize food including food safety and nutrition.



795 million people are chronically undernourished – about one in nine of the world's population (FAO et al., 2015).

Smallholder farmers, forest dwellers, herders and fishers will be the most affected by climate change because of their limited capacity to adapt to its impacts.



Identification and assessment of agricultural practices and technologies to enhance productivity in a sustainable manner, food security and resilience, considering the differences in agroecological zones and farming systems, such as different grassland and cropland practices and systems

FAO's
Submission D
to SBSTA 44
(May 2016)

The challenge is enhancement of productivity, cobenefits and trade-offs

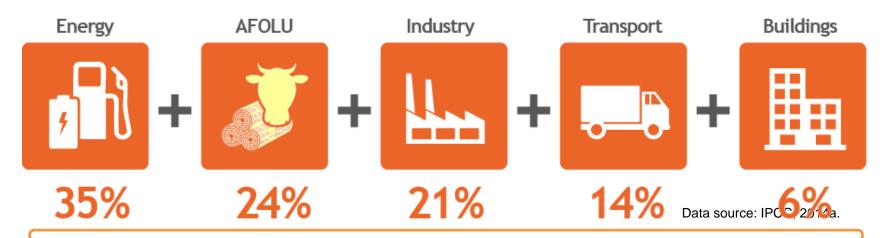
Maximizing synergies and minimizing trade-offs

<u>a holistic approach</u> for all agricultural sectors, and their correlation with food security and other human needs, would improve the effectiveness of actions undertaken to manage climate change by addressing intrinsically linked challenges as one





Agriculture, forestry and other land use (AFOLU) is the largest emitting sector after the energy sector



Agriculture alone contributes 10–12 percent of global GHG emissions.

2 7 billion tonnes CO₂ eq

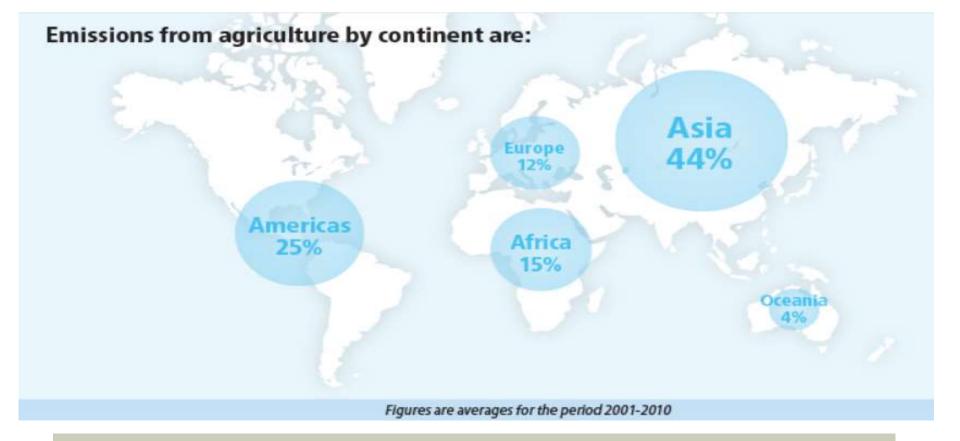
billion tonnes CO₂ eq

1961

2012

Source: FAOSTAT, 2014.





Regional emissions from agriculture (crops & livestock) increased by 243% in the last 50 year

AFRICA

798
million tonnes
CO₂ eq

2012

X3.4

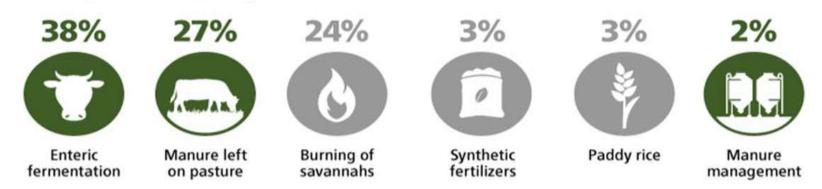
1961 232 million tonnes CO₂ eq



The largest emitters in agriculture sector are



The largest emitters in agriculture are:



Figures are averages for the period 2001-2010

Livestock-related emissions from enteric fermentation and manure contributed nearly two-thirds of the total.



Draining peatlands harms the environment

~10% of the global greenhouse gas emissions from the agriculture, forestry and land use sector are caused by the draining of peatlands.

Greenhouse gas emissions

Biodiversity loss



When intact peatlands are drained carbon losses via water increase by 50%

DRAINAGE OF PEATLANDS

Increased carbon

loss via water

degradation
uatic
ecies
Leads to
agricultural
Increases

agricultural productivity loss flooding and droughts

Increases GHG emissions

Increased fire frequency Generates haze and toxic substances

Eradicates biodiversity

Causes salt water intrusion Over the last 75 years, the number of Sumatran Orangutans has declined by 80%. Today there are only 400 Sumatran tigers living in the wild.

Smouldering peatland fires can persist for months and continue to burn even after days of rain and under a cover of snow.

The surface of the land can can decrease in height up to

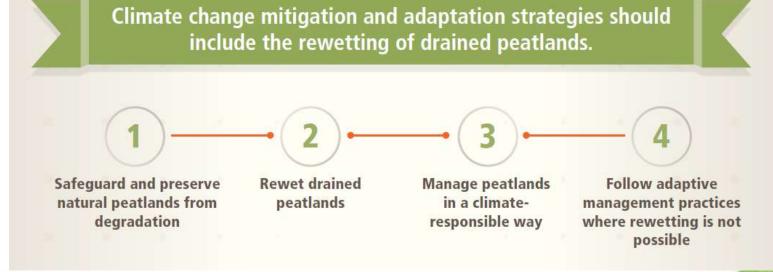
2.5 metres after 25 years of drainage.

Land











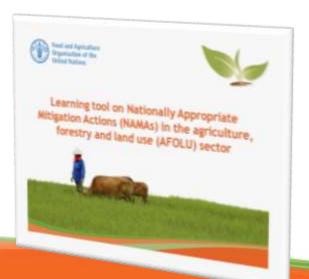
FAO tool for NAMA development in agriculture, forestry and other land use sector

In AFOLU sector there is a notable lack of NAMAs that received financing.

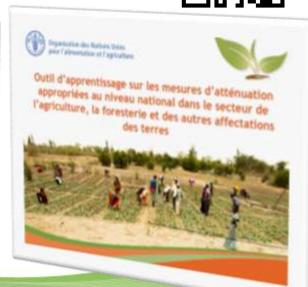
FAO tool supports the efforts of developing countries in the identification, development and implementation of country specific mitigation actions in the context of national sustainable development.

Format: online detailed guidance

Available at: http://bit.ly/fao-nama-tool in English, Spanish and French







Structure of the tool



The tool is composed of 5 modules:

- 1. Climate change and agriculture
 - 2. Background on NAMAs
 - 3. Step by Step NAMA Development
 - 4. Monitoring, reporting and verification (MRV)
- 5. NAMA financing



2.14. Comparison of REDD+ and NAMAs

REDD+ stands for Reducing Emissions from Deforestation and Forest Degradation and includes the conservation, sustainable management of forests and enhancement of forest carbon stocks in developing countries.

Design Elements	NAMAs	REDD+
Scope	Any activity from any mitigation sector, including a project, programme or policy.	Only activities related to deforestation, forest degradation, forest conservation, sustainable forest management and enhancement of forest carbon stocks in developing countries are accepted. Activities may be implemented in the form of projects, programmes or policies.
Scale	Anything from project-level activity to a sectoral activity at the subnational to national level or a full country-wide initiative.	National-level reporting with subnational reporting allowed while countries scale up their reporting capacities.
MRV	Domestically supported NAMAs: domestic MRV Internationally supported NAMAs: domestic MRV with international verification.	Full national MRV including remote sensing and ground-based measurements is required in the third phase of REDD+. This allows countries to report emissions by sources and removals by sinks for REDD+ activities in a manner that is consistent with its national GHG inventory for the LULUCF/AFOLU sector.
Socio- economic	Information on social and environmental safeguards to be collected and reported. Existing donor safeguard policies can be applied for internationally financed NAMAs.	Information on social and environmental safeguards to be collected and reported.

FAO's support for NAMA development

FAO's technical support to countries

- define GHG baseline scenario and identify and set priorities
- measure impacts of mitigation actions
- quantify sustainable development benefits
- review and harmonization of policies/plans/programmes
- institutional mapping and inter-ministerial coordination.

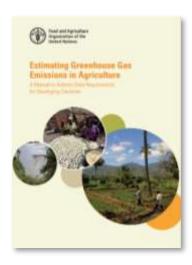
Tools

- Data: FAOSTAT, GLEAM
- GHG monitoring and scenarios comparison: FAO EX-ACT tool
- Land use change monitoring: FAO Collect Earth

Knowledge sharing

Publications, workshops, trainings, webinars and

"Online Communities of Practice on NAMAs in agriculture".





Thank you for your attention

More information at:

www.fao.org/climatechange/micca/nama-tool/

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AFFAIRS OF FINLAND



