

Climate-smart Agriculture

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Food and Agriculture Organization of the United Nations

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Two Goals of Our Time

1. Achieving Food Security

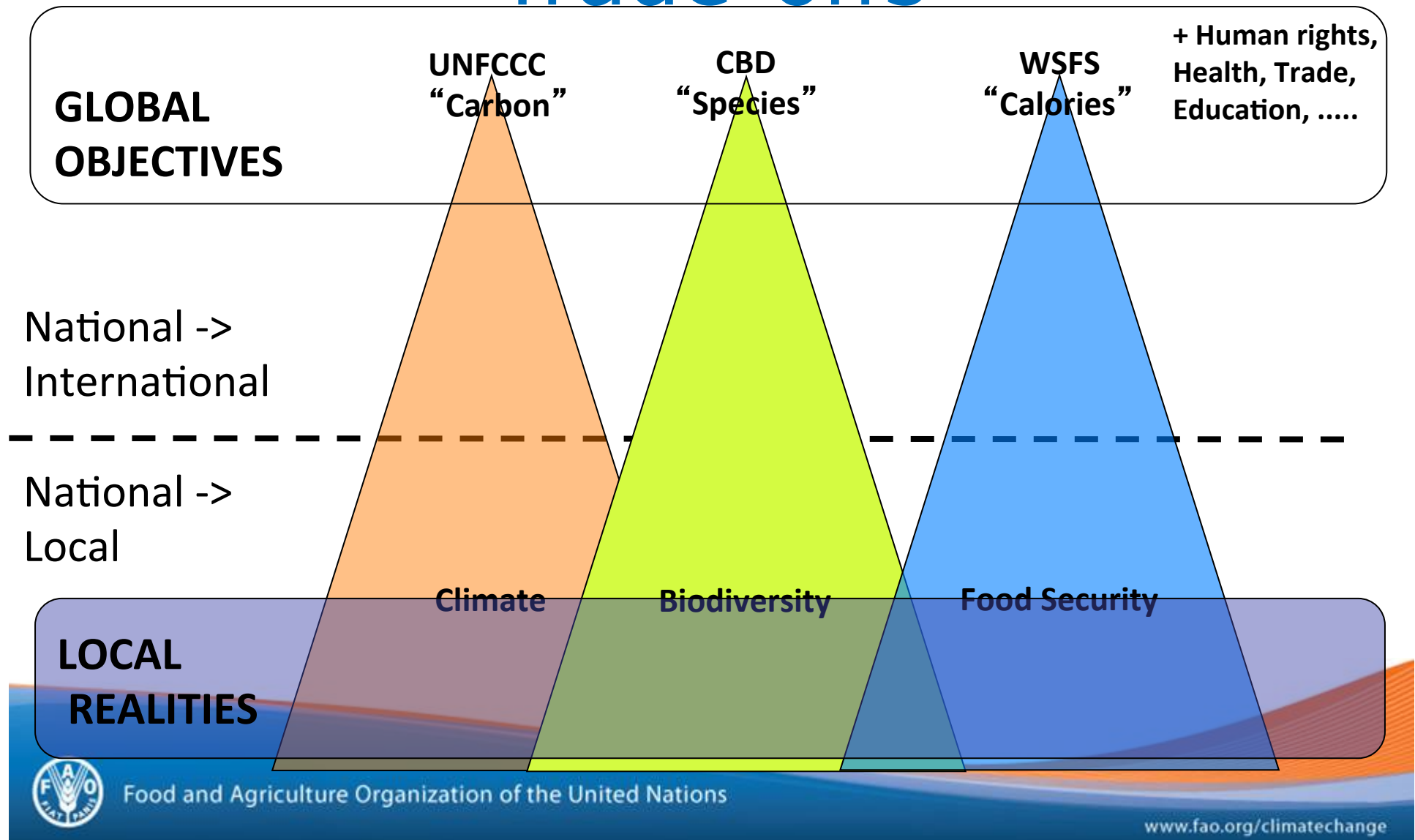
- 1 billion hungry
- Food production to increase 70% by 2050
- Adaptation to Climate Change critical

2. Avoiding Dangerous Climate Change

- "2 degree goal" requires major emission cuts
- Agriculture and Land use = 30% of emissions..
- ..and needs to be part of the solution



Overlaps, Synergies and Trade-offs



Climate-smart Agriculture

Agriculture that sustainably:

- increases productivity
- increases resilience (adaptation)
- reduces/removes GHGs

AND

- enhances achievement of national food security and development goals



But solutions also depend on

- Demographic changes
 - population
 - urbanization
- Economic growth
- Structural changes in agriculture
- Consumption patterns



Remember:

Climate change mitigation
will never be the main goal
for agriculture.



On scope of agriculture mitigation

- It is not only about soils.
- Vegetation in agriculture landscapes has a very large potential
- Emission reductions per produced unit will be a major contribution



Key messages 1: Practises

- Climate-smart practices exist
- Ecosystem approach at landscape level is crucial
- Investments are needed in
 - filling data and knowledge gaps
 - R&D of technologies, methodologies
 - conservation and production of varieties and breeds



Key messages 2: Policies

- Smallholders need institutional and financial support for the transition
- Strengthened institutions for dissemination and coordination
- Consistency between agriculture, food security and climate change policies



Key messages 3: Finance

- Available financing, current and projected, are substantially insufficient
- Combining finance (public/private, climate change/food security) improves options
- Fast-track financing must take sector-specific considerations into account



FAO actions

- Adaptation Framework Programme
 - Brings together adaptation in all FAO workarea, over 100 adaptation projects
- MICCA Programme
 - Mitigation of Climate Change in Agriculture
 - Knowledge – emissions, mitigation potentials
 - Pilots of mitigation in smallholder farming systems
- EX-ACT – incorporating climate impact in agriculture investment projects
- UN-REDD Programme



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Two Goals

Achieving Food Security

Avoiding Dangerous
Climate Change

We must reach both.



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**Act fast,
get it right
and make
it work**

**Food security can't wait,
neither can action on
climate change**

