

Climate-smart Agriculture

Marja-Liisa Tapio-Bistrom
FAO



Food and Agriculture Organization of the United Nations

www.fao.org/climatechange

Two Goals of Our Time

1. Achieving Food Security

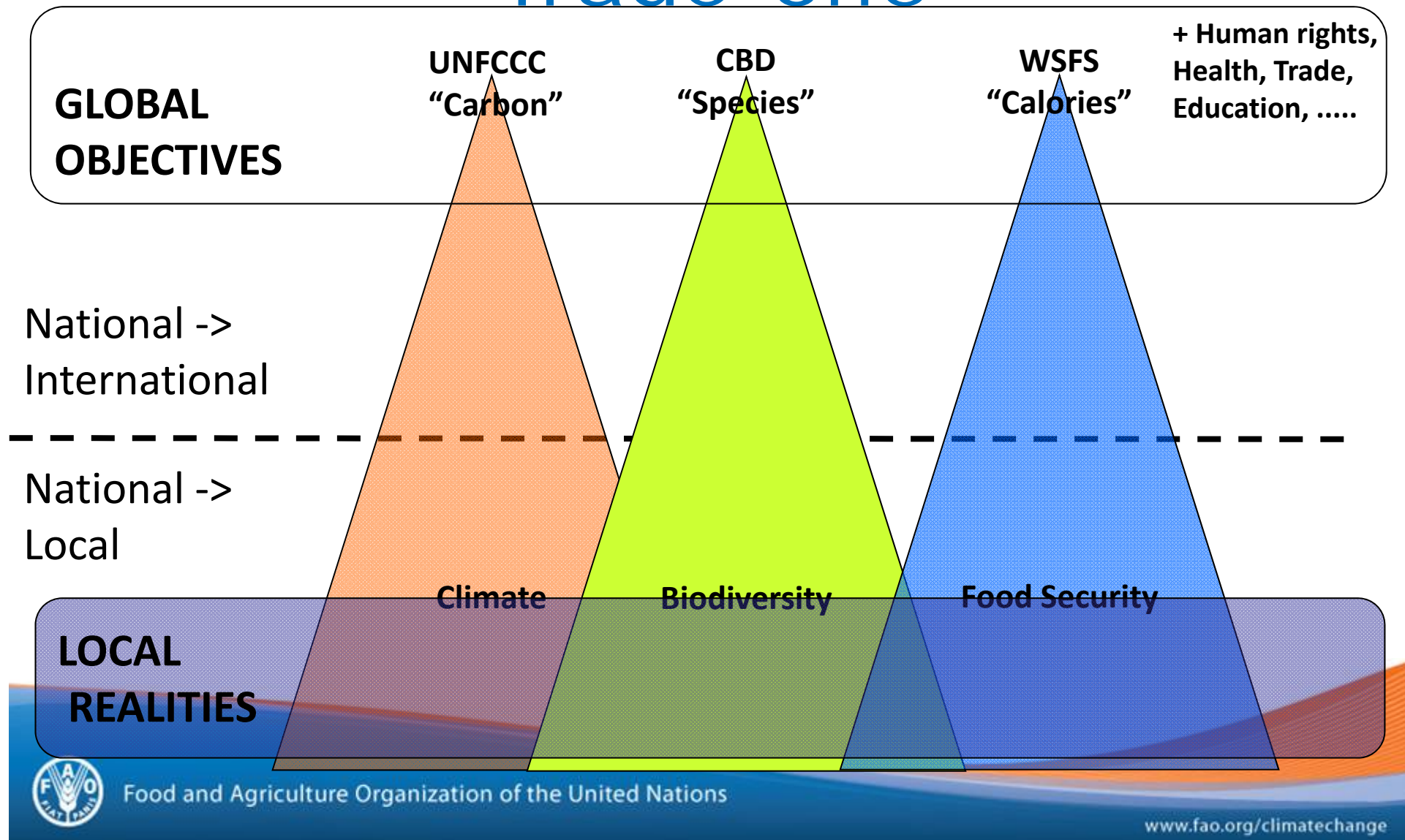
- 1 billion hungry
- Food production to increase 70% by 2050
- Adaptation to Climate Change critical

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



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



Mitigation of Climate Change in Agriculture (MICCA) Programme

- Development of emissions database and life cycle analysis (LCA) & mitigation potentials and costs
- Global economic analysis of mitigation policy options
- Analysis of potential of various practices/technologies/investments to enhance food security, adaptive capacity and mitigation benefits
- 4 smallholder pilot projects



Food and Agriculture Organization of the United Nations



www.fao.org/climatechange

Remember:

- Climate change mitigation will never be the main goal for agriculture.
- Mitigation is not possible without successful adaptation, increasing productivity and carbon content on existing cultivated area.
- Landscape approach with a comprehensive land use planning is a must for maximum mitigation impact from land based sectors.

