

Agriculture and Climate Change - Overview

We need **Climate-smart Agriculture!**

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Food and Agriculture Organization of the United Nations

www.fao.org/climatechange

Outline

- The bigger picture
- Climate-smart Agriculture
- Rio+20
- FAO-Adapt
- The case for investing in resilience / CSA
- Some words on UNFCCC process
- Concluding remarks





Agriculture has always adapted to the Climate!

Climate Change raises the challenge..



30% of GHG Emissions from Agriculture and Land use



Two Long-term Goals of Our Time

1. Achieving Food Security

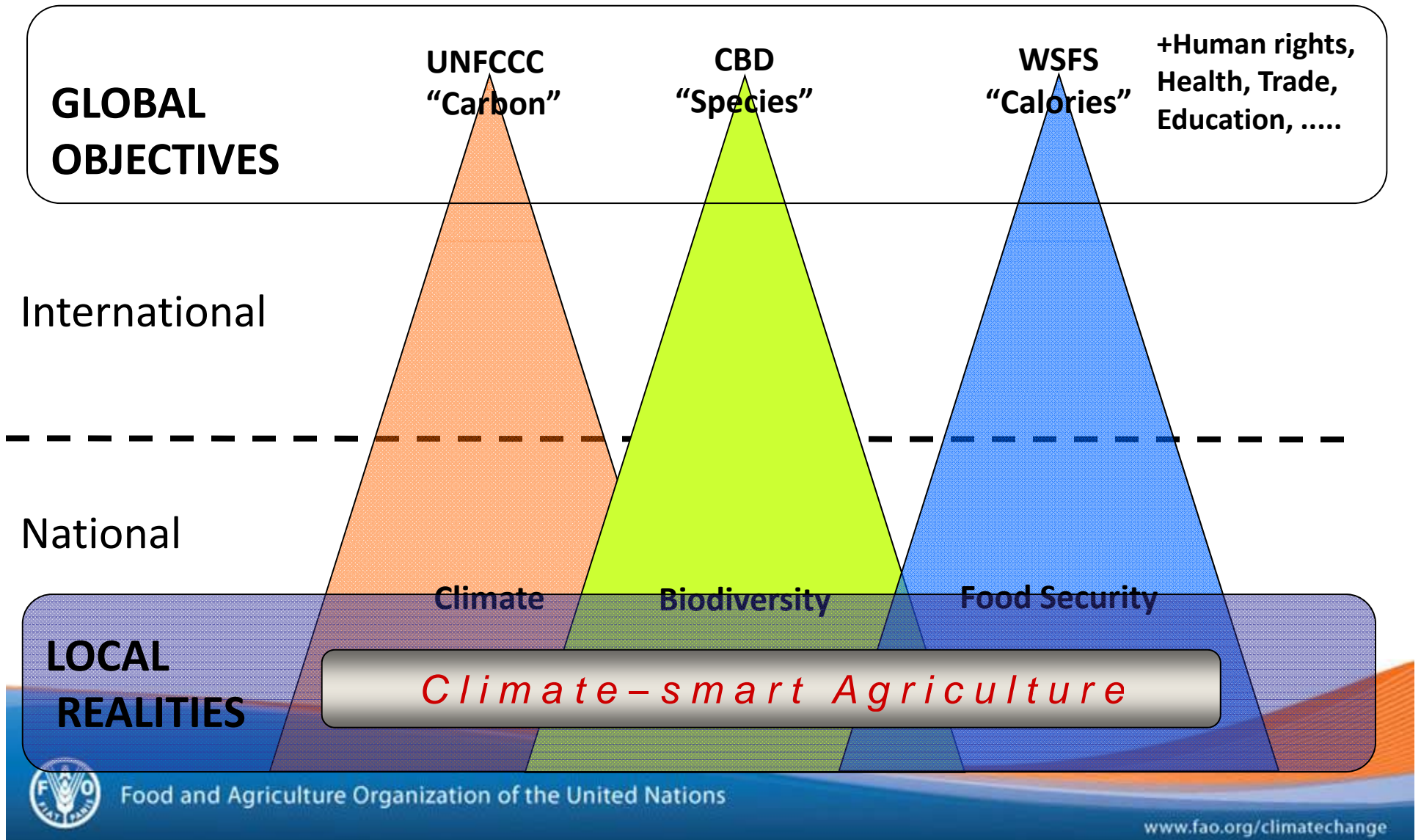
- 1 billion hungry
- Food production to increase 70% by 2050
- Adaptation to Climate Change critical

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



A Sustainable Development landscape



Climate-smart Agriculture - 3 pillars

SUSTAINABLY INCREASES
FARM PRODUCTIVITY AND INCOME



STRENGTHENS RESILIENCE
TO CLIMATE CHANGE AND VARIABILITY



REDUCES AGRICULTURE'S
CONTRIBUTION TO CLIMATE CHANGE
- greenhouse gas emissions
+ carbon storage on farmlands



Climate-smart Agriculture

Agriculture* that sustainably:

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

AND

- enhances achievement of national food security and development goals

⇒ **ADDRESSES MULTIPLE OBJECTIVES!**

*) FAO includes agriculture, forestry and fisheries sectors in the "agriculture" concept



THE HAGUE CONFERENCE ON AGRICULTURE, FOOD SECURITY AND CLIMATE CHANGE

"Climate-Smart" Agriculture

Policies, Practices and Financing for Food Security, Adaptation and Mitigation



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So, what is so special with Climate-smart Agriculture?

- Addresses real-world situations
 - Multiple objectives
 - Local stakeholder need at center
- Relevant to several international goals and processes
 - E.g. Food security, MDGs, UNFCCC
- Builds on and integrates existing knowledge and experiences
- Combines finance to achieve objectives



The future we want:
a world without hunger



28th European Regional Conference for Europe

Side event on:

FAO at RI +20 and beyond



www.fao.org/rioplus20

3 main messages for Rio+20



Eradicating hunger and improving human nutrition are fundamental to achieving the Rio vision of sustainable development.

1



For healthy people and healthy ecosystems, **food consumption and production must be sustainable.**

2



More **inclusive and effective governance** of agricultural and food systems is essential to achieving the Rio vision.

3

Paradigm shifts?

- **Converging agendas?** Food and Environment
- **Diverging agendas?** Food security and Agriculture production



www.fao.org/climatechange/fao-adapt



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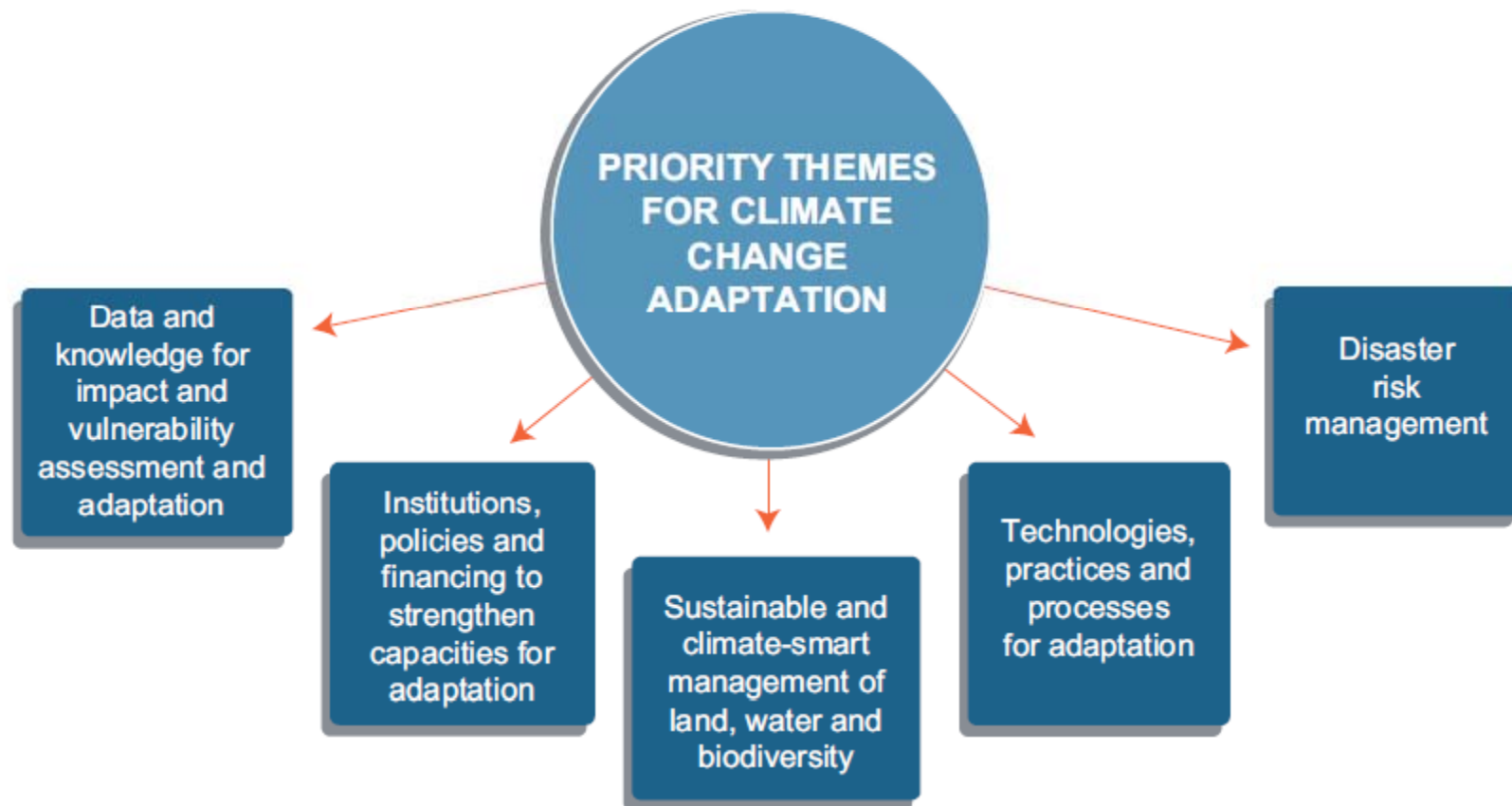
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FAO-Adapt = FAO-wide framework

- principles as well as priority themes, actions and implementation **support for climate change adaptation.**
- **mainstreaming** climate change adaptation into all FAO development activities
- brings together climate change adaptation work **across FAO**
- **enhances** coordination, capacity development and sharing of experiences



FAO-Adapt priority themes



Is there a case for investments in resilience / CSA?

- To what extent is capital for sustainable agriculture / land use a limiting factor?
- Risk management issues
- Can sustainable agriculture be profitable?
- How can we engage private finance in an equitable and effective way?
- How do we measure success?
 - How many indicators do we need?
 - Is 3 enough?



A few words on UNFCCC

- Very long and winding road to get agriculture into the negotiations
- Will we finally have a work programme on Agriculture at Doha?
- NAPs – this workshop can be important!



Concluding remarks

- Climate-smart agriculture embraces **multiple objectives**
- Climate Change Adaptation cannot be dealt with in isolation
- International processes provide a foundation and a mandate
- However **action** cannot wait for conclusive agreements

