

LCS-RNet 13th Annual Meeting  
*New Scientific Challenges for Strengthening Actions Based on IPCC AR6*

**SESSION 1**

**"Agriculture and forestry:  
pursuing mitigation goals by reducing GHG emissions  
and increasing CO<sub>2</sub> absorption"**

**Chair:** Nicola Colonna, ENEA, Rome, Italy

**Speakers:**

- *Francesco Tubiello*, Food and Agriculture Organization of the United Nations (FAO)
- *Karina Larsen*, Climate Technology Centre & Network (CTCN)

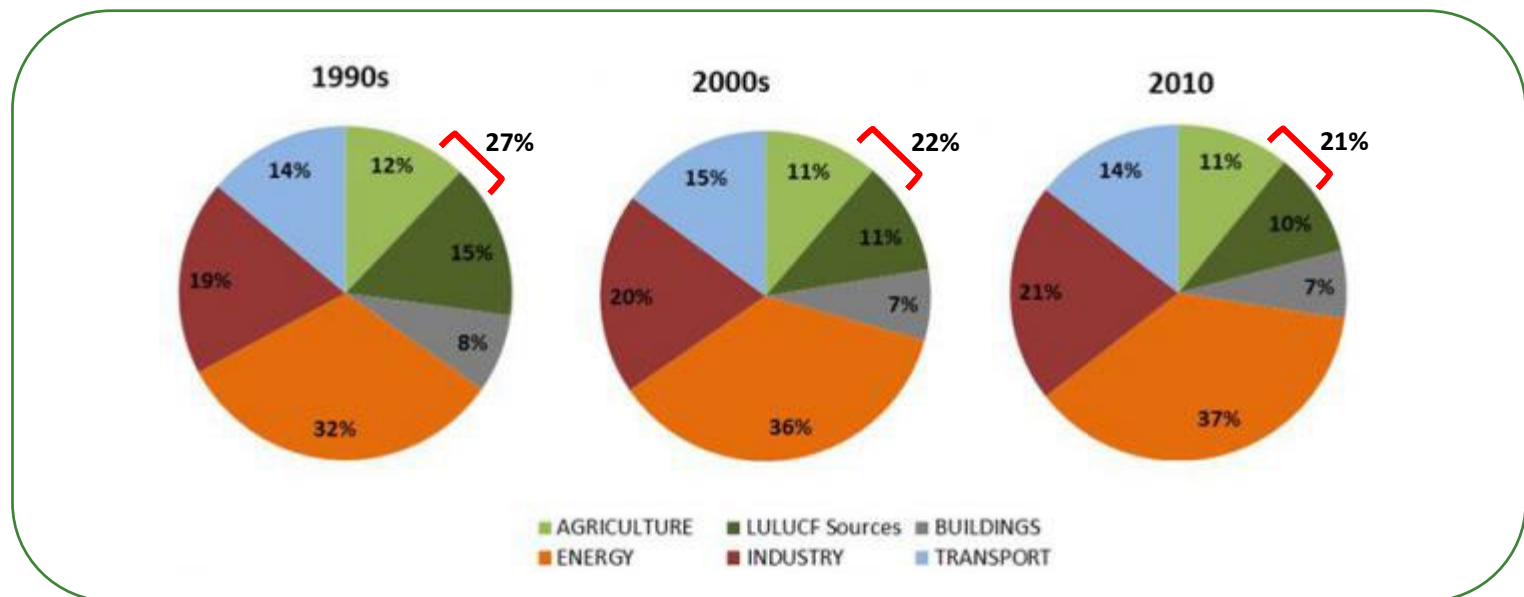
**Discussant:**

- *Bruno Dorin*, International Research Center on Agronomy and Development (CIRAD)
- *Saigusa Nobuko*, National Institute for Environmental Studies (NIES)

**Mitigation policies and strategies in agriculture and forestry sectors have a crucial role to deal with the overall GHG emission reduction goals and can be achieved by decreasing GHG emissions and/or increasing CO<sub>2</sub> absorption**

- ✓ Consumption and production of energy connected to agricultural and forestry sectors;
- ✓ long term storage capacity of CO<sub>2</sub> in soils and biomass;
- ✓ the role of circular bioeconomy in being able to contribute to mitigation objectives.

### Anthropogenic Emissions over the decades



Fonte: Tubiello et al (2015)

**There are many open questions:**

*Where are we with AFOLU?*

*What knowledge gap we have to overcome?*

*What are the limitations/costraints for the options listed before?*

*What are the long term effects of CO<sub>2</sub> storage?*