

Name:

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WINS Seminar

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Title of presentation: Challenges and possible solutions for sustainable land use in a changing climate

Abstract

The challenges for sustainable land use will strongly rise in the next decades. More food needs to be produced for a growing and more prosperous world population. In many world regions, agricultural production conditions will deteriorate due to climate change, which will increase the pressure for agricultural land expansion. Water as a key production factor will become scarce in many regions. At the same time, ambitious emission mitigation strategies have to be implemented, in order to avoid the most dangerous consequences of climate change. This will likely lead to a strong demand for bioenergy, especially based on cellulosis. Moreover, it is of key importance that tropical rainforests and other valuable ecosystems are protected from deforestation and further degradation. Increasing agricultural productivity needs to contribute an important part to solving these future challenges. However, a range of institutional measures and adjustments are necessary to make agricultural intensification and land use sustainable.

Short bio

Prof. Hermann Lotze-Campen studied Agricultural Sciences and Agricultural Economics in Germany, UK, and USA. He holds a Ph.D. in Agricultural Economics from HU Berlin. He is co-chair of Research Domain "Climate Impacts and Vulnerabilities", at the Potsdam Institute for Climate Impact Research (PIK), and Professor of Sustainable Land Use and Climate Change at HU Berlin. He is working on global land use modelling, climate impacts and adaptation in agriculture, multi-sector impact aggregation, and land-use-based mitigation. He is strongly involved in the Agricultural Model Intercomparison Project (AgMIP) and the Inter-Sectoral Impact Model Intercomparison Project (ISI-MIP).