

Summary Paper “Global Scenarios”

Contact:

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Outcomes:

- Detailed model descriptions of global models are needed (assumptions taken in baseline and implementation of scenarios)
- Two ideas on papers:

Participants decided to start working on two papers:

Paper 1: Analysing land use change on global and regional scales

Objective: Analyse land use change in different regions under global scenario setting (compare scenarios “lower pressure on land” and “higher pressure on land” with Baseline scenario.

Tentative abstract: Land use dynamics are affected by global drivers such as population growth, changes in income and related changes in consumption behaviour, and world market prices of crops, as well as by regional conditions such as national policies, productions systems. To compare effects of global drivers of land use change on different regions, we apply a consistent framework of global mid-scenarios (until 2030). Three global scenarios on land use change are implemented in regional studies in Germany and ????. Using consistent global drivers allows comparing outcomes of regional studies.

- Explaining all modelled global mid-term scenarios (DART, CAPRI, PROMET)
- Global Models: Apply Scenarios higher and lower pressure on land – comparison to baseline
- Regional Projects: Apply the three scenarios; explain regional implementation
- Comparison of results

Paper 2: Yields and yield gaps

Objective: Discuss how realistic the modelled yields and yield gaps are, given that global data sets are applied. By which degree can yield gaps be closed in the regions? Illustrate the regional differences, why the yield gaps can or cannot be closed in the local context. Compare the potential yields with the actual yields from the RPs (rather than from FAO).

Introduction: Clear definition of the “potential yield” is needed.

Discussion: What might be the side effects of different strategies of closing the yield gaps? (In terms of effects on ESS, biodiversity, socioeconomic aspects, etc.)

Next steps:

- Distribution of a short explanation of the assumptions and a coarse model description of PROMET and the suitability (December 2013)
- Distribution of first results (December 2013)
- Information: who is interested in participating in paper 1 and 2?
- Paper outlines by January 2014 (paper 1) and February 2014 (paper 2)
- Workshop and Discussion in February/March in Munich