



Czech University of Life Sciences Prague

Faculty of Environmental Sciences

SUSTAINABILITY OF AGRICULTURE IN VARYING ECONOMIC CONDITIONS OF EU COUNTRIES

Team introduction:

Individual EU countries vary significantly in their socio-economic and environmental conditions, as well as in their historical development. There are often extreme differences in land ownership fragmentation, the role of the land rental market, climatic conditions as well as economic and social conditions. These and other pre-dispositions of individual countries/regions result in the need to ensure the sustainability of agriculture and of its impact on the landscape, rural areas and the environment.

Our research team has long-term experience with research on land management and land use policy, specifically with the following topics: land fragmentation, land consolidation, land-use changes, landscape planning, land market determinants, sustainability of land use, etc. A significant contribution to the team is the high-quality GIS department.

Team members:

The team consists of experienced academic researchers, assisted by younger researchers and PhD students. The members of the research team are:

Profs and Docs:

Petr Sklenička, Head of team (researcher ID B-9774-2012; contact email: sklenicka@fzp.czu.cz)

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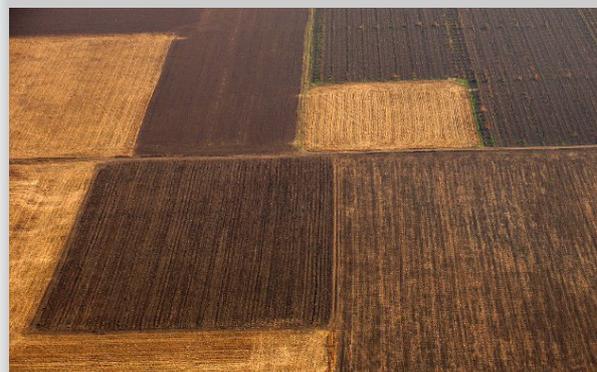
PhDs:

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5 most significant recent publications by team members:

Sklenicka, P., Molnárová, K., Pixová, K.C., Šálek, M. 2012. Factors affecting farmland prices in the Czech Republic. *Land Use Policy*, 30: 130-136.

Sklenicka, P., Molnárová, K., Brabec, K., Kumble, K., Pittnerová, B., Pixová, K., Šálek, M. 2009. Remnants of medieval field patterns in the Czech Republic: Analysis of driving forces behind their disappearance with special attention to the role of hedgerows. *Agriculture, Ecosystems & Environment*, 129: 465-473.

Sklenicka, P., J. Hladík, F. Střeleček, B. Kottová, J. Lososová, L. Číhal, M. Šálek. 2009. Historical, environmental and socio-economic driving forces on land ownership fragmentation, the land consolidation effect and project costs. *Agric. Econ. – Czech*, 55: 571-582.

Sklenicka, P., Šálek, M., 2008. Ownership and soil quality as sources of agricultural land fragmentation in highly fragmented ownership patterns. *Landscape Ecology*, 23: 299-311.

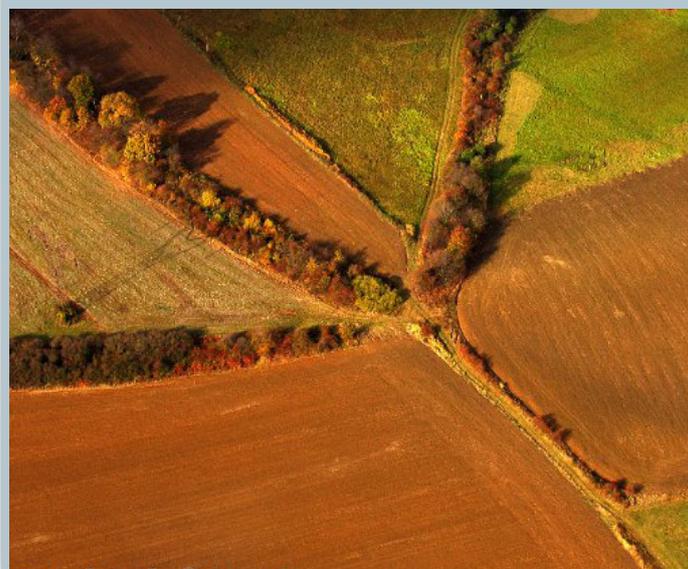
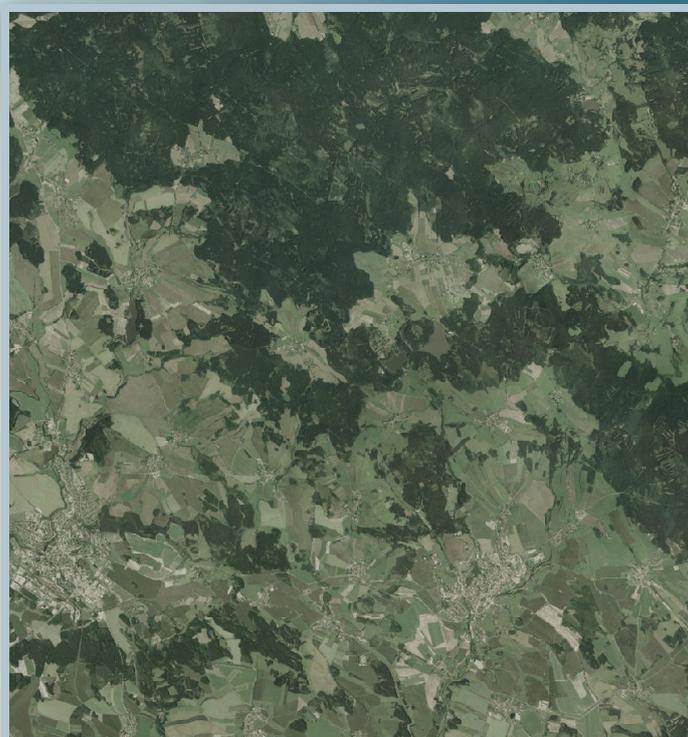
Sklenicka, P. 2006. Applying evaluation criteria for the land consolidation effect to three contrasting study areas in the Czech Republic. *Land Use Policy*, 23: 502-510.

Applied outcomes of the research:

- Methodology for land consolidation projects in areas adjoining large linear constructions
- Methodology for assessing the visual impact of proposed construction, activities or land use changes on landscape character
- Sets of thematic maps showing agricultural land fragmentation in the Czech Republic
- Approximately 80 projects and studies – land consolidation projects, master plans, etc.

Potential applications of the research:

- Baseline data for agricultural and environmental subsidy policies (national, EU)
- Methodological tools for land consolidation and land market development, which could be used by planners and state and local authorities
- Educational and advisory materials for farmers and state and local authorities



Keywords: *land, ownership, fragmentation, landscape, land use changes, landscape planning*