

FG2: Land Use Land Cover Change

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Inputs for reporting: recommendations and action items

Possible SCERIN joint activities in LULCC

- Topics of interest
- What we need
- Funding opportunities
- Possible organizers

- National overview/general LULCC trends, types of changes (current)
- LULCC problems to solve
- Research questions/tasks (data, tools, projects support, cooperation etc.)
- Research needs/lacks (data, tools, projects support, cooperation etc.)
- Data used for LULCC analyses
- Methods used for LULCC analyses
- List of current LULCC projects (national, international)
- Links of projects web pages and other national LULCC related links
- Other remarks

Czechia – Ivan Bičík, Lucie Kupková, Přemysl Štych

- National overviews/general LULCC trends
 - Agricultural land abandonment (extensification)
 - Urban expansion (suburbanisation)
- LULCC problems to solve
 - Agricultural land preservation
 - Restrictions/rules for urban expansion to landscape
- Research questions/tasks
 - To assess the decline of arable land caused by expansion of grasslands, and the decline of agricultural land caused by abandonment, afforestation and development.
 - To interpret the acquired statistical data through the “driving forces.”
 - To create a regional typology of agricultural land decline.
 - To select 10-15 model areas (groups of cadastres).
 - To examine and explain the processes leading to the losses of agricultural land in selected model areas on the level of parcels; to employ both quantitative (regression modelling) and qualitative (targeted interviews) methods.
 - To create a synthesis of the results.
 - To predict further changes in the size and distribution of agricultural land for the time period of 2015-30, based on several established scenarios.
- Research needs/lacks (data, tools, projects support, cooperation etc.)
 - institutional support, VHR EO data

Czechia – Ivan Bičík, Lucie Kupková, Přemysl Štych

- **Data used for LULCC analyses** - databases, maps, Landsat imagery, VHR imagery (orthophotos, QuickBird, WorldView2 etc.)
- **Methods used for LULCC analyses** – spatial overlay in GIS, neural net classification, OBIA, HS classification methods
- **List of current LULCC projects (national, international)**
 - Czech Science Foundation project: Social and economic driving forces of agricultural land losses in Czechia since 1990 from a regional perspective
- **Links of projects web pages and other national LULCC related links**
 - <http://www.luccprague.cz/>, http://lucc.ic.cz/lucc_data/
- **Other remarks**
 - Unique historical land use data (maps and records for several time periods from 1845 till present)

Representatives of SCERIN countries/regions

- Turkey – Levent Genc
- Poland – Katrzyna Ostapowicz
- Hungary – Géza Király
- Greece – Ioannis Gitas
- Ukraine – Vladimir Starodubtsev
- Eastern Europe – Catalina Muntenau
- Slovakia – Andrej Halabuk/ Jano Feranec
- Bulgaria – Lachezar Filchev
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Turkey – Levent Genc

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Poland – Katrzyna Ostapowicz

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Hungary – Géza Király

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Greece – Ioannis Gitas

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Ukraine – Vladimir Starodubtsev

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Eastern Europe – Catalina Munteanu

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