Land-Use and Land-Cover Change (LUCC)

Implementation Strategy

A core project of the
International Geosphere-Biosphere Programme
and the
International Human Dimensions Programme on Global
Environmental Change

Prepared by the Scientific Steering Committee and International Project
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Activity 1.1: Understanding land-use decisions
Activity 1.2: From process to pattern: linking local land use decisions to regional and global processes (link to Focus 2)
Activity 1.3: The future: sustainability and vulnerability scenarios (the link to Focus 3)
Example of ongoing LUCC projects related to Focus 1

LUTEA. Land Use in Temperate East Asia
Global change and subsistence rangelands in southern Africa: Resource variability, access and use in relation to rural livelihoods and welfare

Focus 2: Land-Cover Changes

Introduction
Activity 2.1: Land-cover change, hot spots and critical regions
Activity 2.2: Socializing the pixel
Activity 2.3: From patterns to processes

Example of ongoing LUCC projects related to Focus 2

TREES. JRC TRopical Ecosystem Environment observations by Satellite
SYPR. Land-Cover and Land-Use Change in the Southern Yucatán Peninsular Region
Population Dynamics, Landscape Pattern and Environmental Change: Relationships between People, Pixels and Biophysical Gradients

Focus 3: Regional and global models

Introduction
Activity 3.1: Review and comparison of past and current regional modelling studies
Activity 3.2: Major issues in methodologies of regional land-use/land-cover change models
Activity 3.3: Land-use/land-cover change and the dynamics of interrelated systems
Activity 3.4: Scenario development and assessments of critical environmental themes
Example of ongoing LUCC projects related to Focus 3

IIASA-LUC. Modelling land-use and land-cover changes in Europe and northern Asia

CLUE. The Conversion of Land Use and its Effects

IMPEL. Integrated Model to Predict European Land use

The challenge ahead

Emerging theories of land-use/land-cover change processes

Bibliography

Acronyms

Annex 1: How to contact the LUCC project

Annex 2: How to get involved in the LUCC project

Annex 3: The LUCC endorsed projects

Annex 4: Regional networks with a LUCC contribution