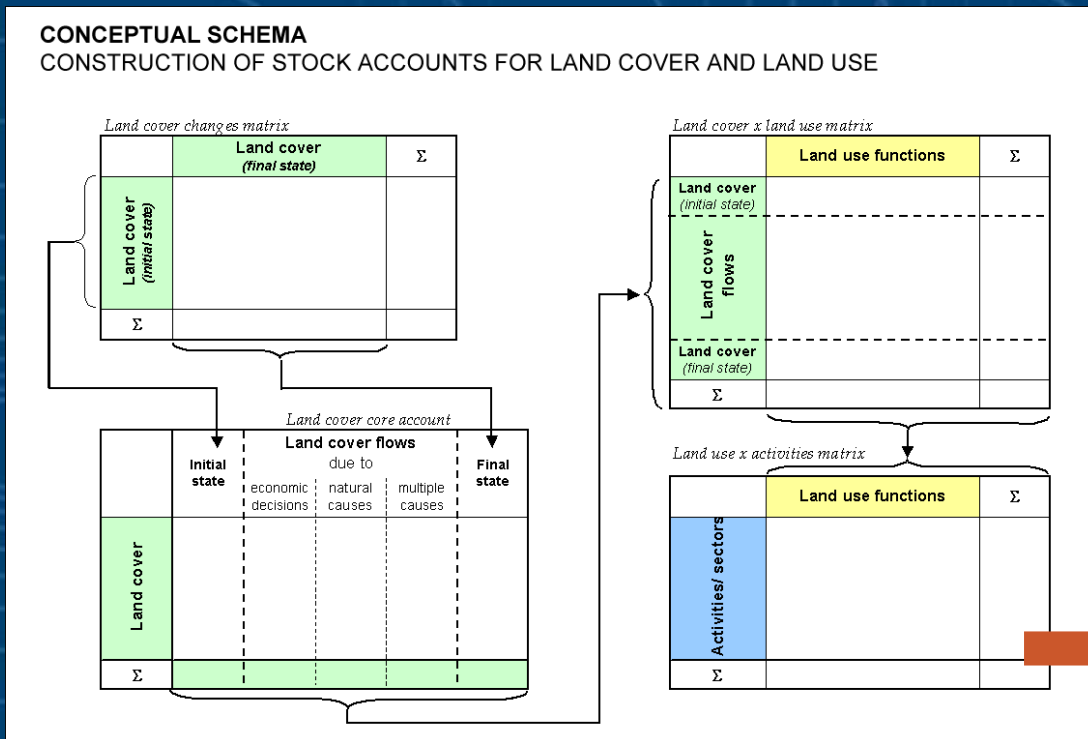


Land Use Functions & Accounts

Rural Landscape

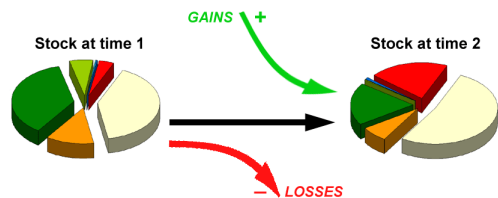
LEAC Rural – framework (basic accounts)



- Matrix of Land Cover Change
- Account of Land Cover Change
- Account of Consumption and Formation of Land Cover
- Account of Use of Land Cover Resource (Mixed Table)

Targeted (Supplementary) Accounts via LU functions

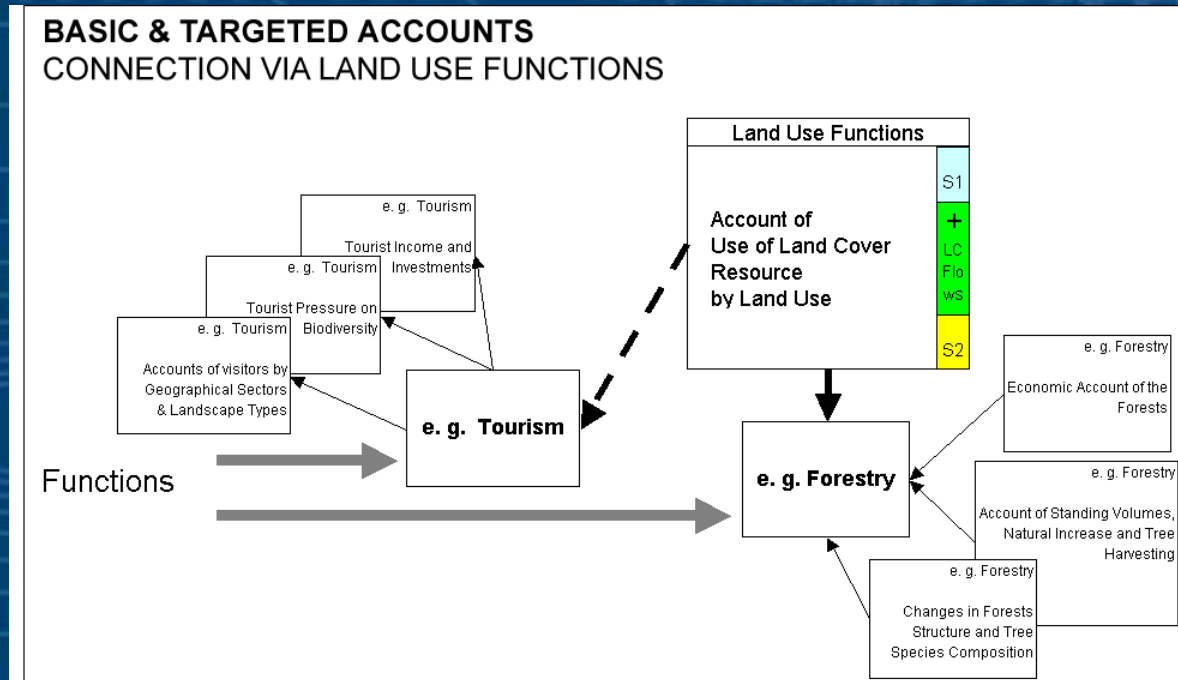
GENERAL CONCEPT OF FLOW ACCOUNTS



DO GAINS COMPENSATE LOSSES?
DOES QUALITY OF STOCK CARRIED OVER CHANGE?
WHICH ARE THE PROCESSES IN QUESTION?

- Land Cover Flow Matrix -> relevant flows
- Flows expressed as processes on the basis of the analysis of elementary pairs of consumption and formation of land cover type. Hierarchical grouping provides a very useful interpretation of the individual CLC changes.

LEAC Rural – framework *(targeted accounts)*



- based on the concept of the Land Use Functions
- formally connected to land cover accounts in terms of total stock use as well as land cover consumptions
- flexible to address individual functions in way to match policy requirements in terms of environmental, economic or social data

LEAC Rural – framework *(land use functions)*

- UF1 Residence, incl. services Targeted Accounts for Rural
- UF2 Commerce
- UF3 Transport
- UF4 Industrial production
- UF5 Energy production
- UF6 Mining & quarrying
- UF7 Waste dumping
- UF8 Water management
- UF9 Farming, food production
- UF10 Forestry
- UF11 Tourism & Recreation
- UF12 Nature conservation
- UF13 Other uses

LEAC Rural – framework *(land use functions)*

- UF1 Residence, incl. services
- UF2 Commerce
- UF3 Transport
- UF4 Industrial production
- UF5 Energy production
- UF6 Mining & quarrying
- UF7 Waste dumping
- UF8 Water management
- UF9 Farming, food production
- UF10 Forestry
- UF11 Tourism & Recreation
- UF12 Nature conservation
- UF13 Other uses

Targeted Accounts for Rural land



- *have to reflect main functions:*
UF09 - Farming, food production

LEAC Rural – framework *(land use functions)*

- UF1 Residence, incl. services
- UF2 Commerce
- UF3 Transport
- UF4 Industrial production
- UF5 Energy production
- UF6 Mining & quarrying
- UF7 Waste dumping
- UF8 Water management
- UF9 Farming, food production
- UF10 Forestry
- UF11 Tourism & Recreation
- UF12 Nature conservation
- UF13 Other uses

Targeted Accounts for Rural land



- *have to reflect main functions:
UF09 - Farming, food production*
- *but have to consider also other functions
of rural land*

LEAC Rural – framework *(land use functions)*

Rural functions

Agriculture

Crop production (surfaces, yields, rotations...)

Livestock

Water use, abstraction, irrigation, drainage

Nutrient management

Pesticides use

Residential function

Residence

Recreation & Tourism

Protective functions

Soil management

Landscape management

-Land restructuring

-Maintenance of linear features

Other Socio-economic functions

Provision of employment

Research & education

Land Use functions

UF09 Farming, food production

UF5 Energy production

UF09 Farming, food production

UF08 Water management

UF09 Farming, food production

UF09 Farming, food production

UF01 Residence, incl. services

UF11 Tourism & Recreation

UF12 Nature conservation

UF12 Nature conservation

UF13 Other uses

UF13 Other uses

LEAC Rural – framework (BA & TA linkage)

Use of Land Cover Resource by Land Use Functions	UF1 Residential, incl. services	UF2 Commercial	UF3 Transport	UF4 Industrial production	UF5 Energy production	UF6 Mining & quarrying	UF7 Waste dumping	UF8 Water management	UF9 Farming, food production	UF10 Forestry	UF11 Tourism & Recreation	UF12 Nature conservation	UF13 Other uses	ADJUSTMENT FOR MULTIPLE USES	TOTAL
Initial surface															
1 Artificial surfaces															
2.1+2.2 Arable Land & Permanent Crops															
2.3+2.4 Pastures & Mixed agricultural areas															
3.1 Forests															
3.2+3.3 Shrub and other semi-natural land															
4 Wetlands															
5 Water bodies															
A - TOTAL INITIAL SURFACE ~1975															
Net Formation of Land Cover by Use															
LCF1 Urban land management															
LCF2 Urban sprawl															
LCF3 Extension of economic sites and infrastructures															
LCF4 Agricultural rotation and intensification															
LCF5 Conversion of land to agriculture															
LCF6 Forests creation and management															
LCF7 Water body creation and management															
LCF8 Changes of Land Cover due to natural and multiple causes															
B - TOTAL Net Formation of Land Cover															
Net Extension of Use without Formation of Cover															
1 Artificial surfaces															
2.1+2.2 Arable Land & Permanent Crops															
2.3+2.4 Pastures & Mixed agricultural areas															
3.1 Forests															
3.2+3.3 Shrub and other semi-natural land															
4 Wetlands															
5 Water bodies															
C - TOTAL Net Extension of Use without Formation of Cover															
Final Surface															
1 Artificial surfaces															
2.1+2.2 Arable Land & Permanent Crops															
2.3+2.4 Pastures & Mixed agricultural areas															
3.1 Forests															
3.2+3.3 Shrub and other semi-natural land															
4 Wetlands															
5 Water bodies															
D - TOTAL FINAL SURFACE ~1990 (D = A+B+C)															

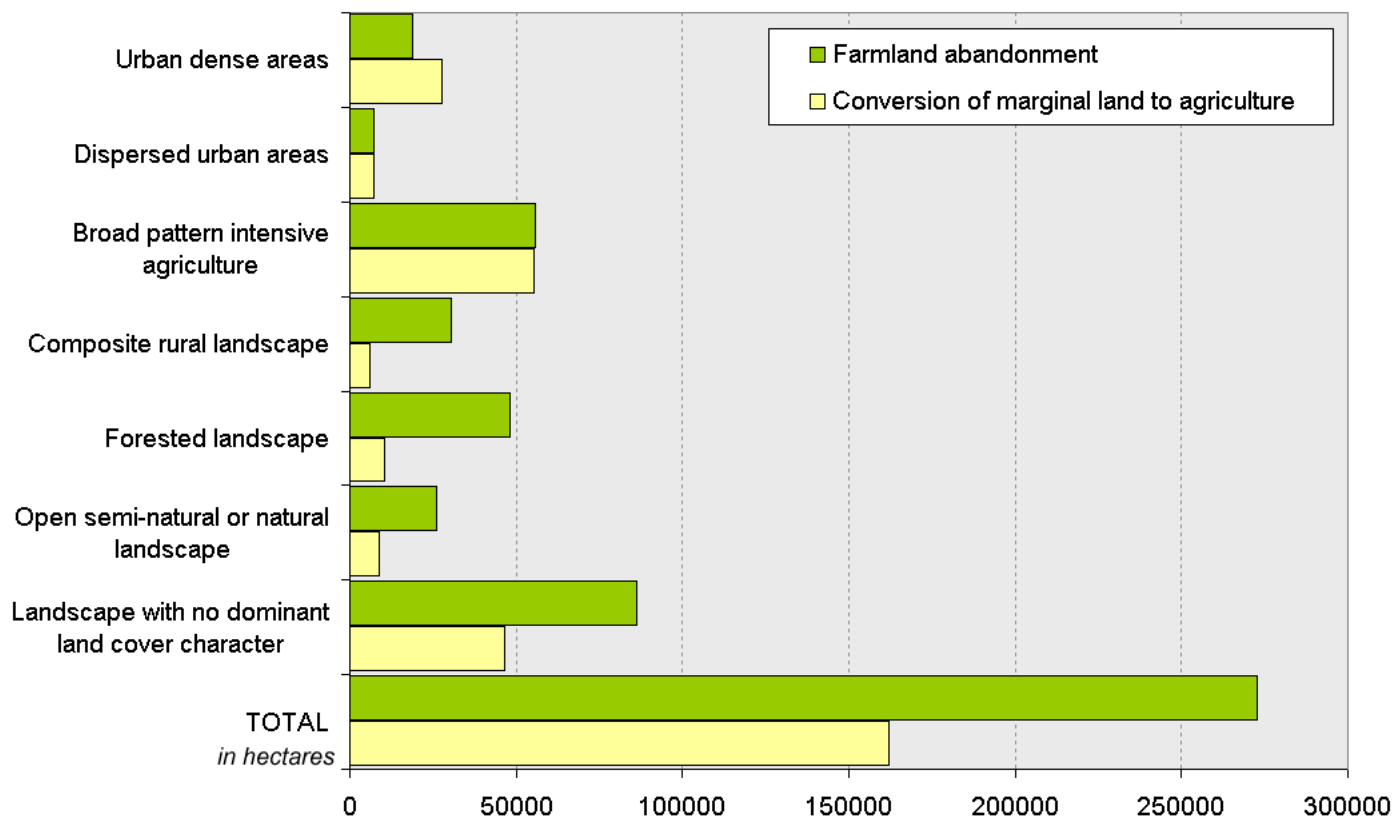
LEAC Rural – framework *(targeted accounts)*

- **3 considerations / constraints**

- ✓ functions to be addressed to meet policy requirements
- ✓ units (scale) to be addressed to meet policy requirement
- ✓ statistical data availability

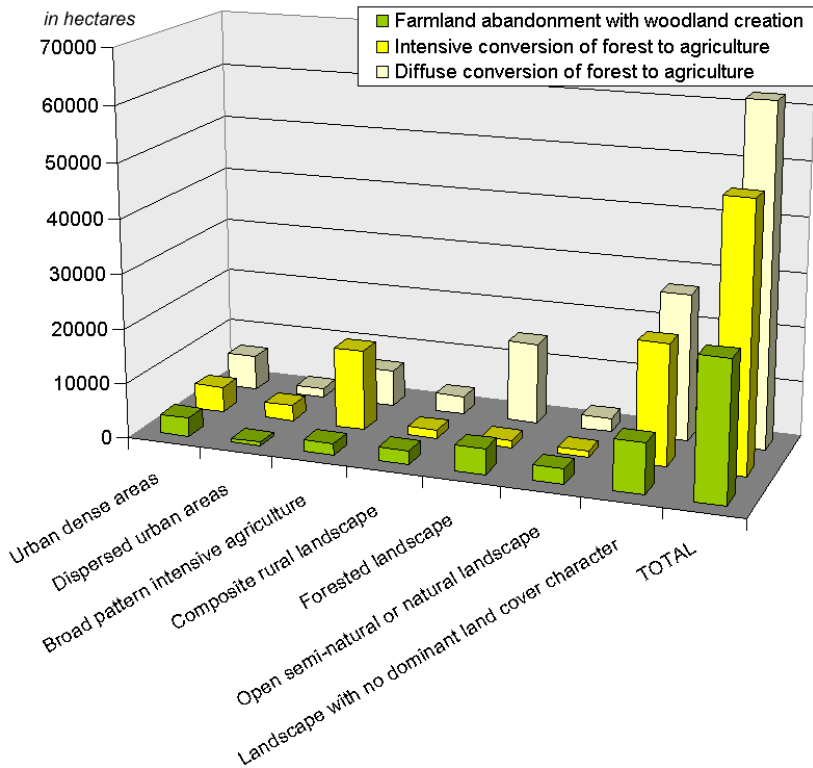
Examples

TRENDS IN MARGINAL LAND
4 CEE COUNTRIES 1975/1990, Surface by Landscape Types

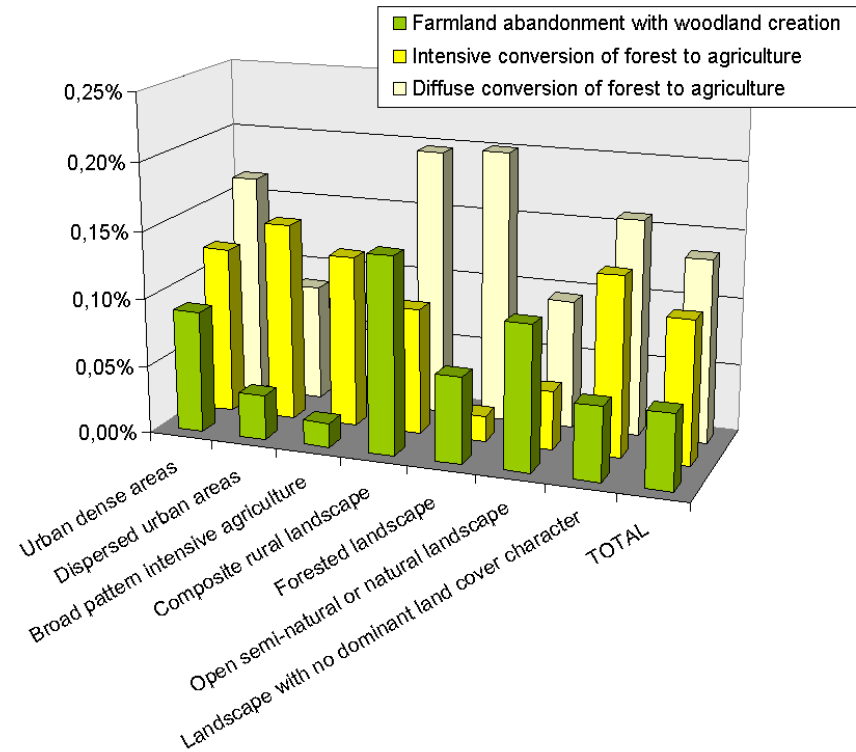


Examples

MAIN FOREST/AGRICULTURE FLOWS
4 CEE COUNTRIES 1975/1990, Surface by Landscape Types



MAIN FOREST/AGRICULTURE FLOWS
4 CEE COUNTRIES 1975/1990, % of total area by Landscape Types



Thank you !