

The activities eligible for RV affect types of vegetation that are usually not monitored at the national level (NFIs, large-scale surveys, national statistics, etc.)

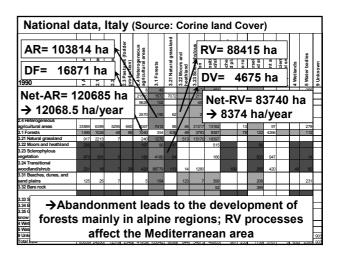
PRELIMINARY STUDY on the significance of the activities at the national level should be promoted in order to estimate the COST EFFECTIVENESS of the election of RV by a Party

C. PRELIMINARY STUDY TO EVALUATE RV SIGNIFICANCE AT THE NATIONAL LEVEL



- DEFINE ACITIVITIES ELIGIBLE FOR RV according to NATIONAL DEFINITIONS
- EVALUATION of AREA AFFECTED BY RV ACTIVITIES (Corine Land Cover, National Land-Use Maps, National Statistics)
- EVALUATION of CARBON SINK (default rates of carbon change)
- ERRORS/UNCERTAINTIES EVALUATION
- ASSESSMENT OF MONITORING COSTS
- COSTS/BENEFITS COMPARISON

LAND-USE CHANGE CORINE LAND COVER: 1990 ↔ 2000 (where national databases are not available) NO LAND COVER CLASS REPRESENTS RV (Transitional woodland/shrubland = revegetation + degradation) TRACKING of LAND-USE CHANGES BETWEEN CATEGORIES IS NEEDED (Approach 2, IPCC GPG) DEVEGETATION PROCESSES MUST BE TAKEN INTO ACCOUNT (adverse land-use changes) TO AVOID OVERESTIMATES



Carbon accumulation HIGH UNCERTAINTIES rates Carbon changes due to natural RV on abandoned agricultural land don't follow a single occurrence. Several factors drive the carbon dynamics during a secondary succession: climate - physiography (soil quality, exposure, slope, vegetation type - the former land-use - disturbances → variable results especially regarding soil C changes (variability in relation to previous conditions and climate) PRELIMINARY ANALYSIS: more practical to consider only the C sink connected to the BIOMASS INCREASE Specific C accumulation rates should be applied in relation to the vegetation types involved in the natural recolonisation in the considered region

ERRORS / UNCERTAINTIES

AREA EVALUATION (CLC):

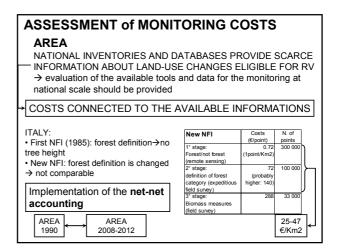
- MINIMUM AREA: 25 ha (grid cell size 6.25 ha), 5 ha for land-use change
- FOREST DEFINITION: tree height 5 m, crown cover 30%
- LAND COVER CLASSES (no clear definitions for the identification of land undergoing RV process)
- PROJECTIONS to FIRST COMMITMENT PERIOD (1990-2000 → 1990-1st CM)

Additional information (country-level data) could be needed to correct the RV area

ERRORS / UNCERTAINTIES

C ACCUMULATION RATES:

- VARIABLE BIOMASS INCREASING RATES according to vegetation typology and site conditions
- VARIABLE C ACCUMULATION RATES IN SOILS (possible C depletion→ degradation due to land abandonment)

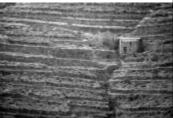


ASSESSMENT of MONITORING COSTS

C accumulation rates

Detailed C accumulation rates should be provided for different RV typologies according to:

- anthropogenic disturbances
- site quality
- · climatic factors



CONCLUSIONS

- •RV significance is highly dependent on national definitions
- RV plays a role in the Mediterranean area under a broad definition:
- Restricted assumptions → shrubland plantations (not forest) = very limited area affected
- Expanded assumptions → natural RV, linear plantation
- = significance to be evaluated\

• a preliminary study on the RV significance should be developed on the basis of available national databases

