



THE PLAN FOR THE 2010 FIELD ASSESSMENT IN LARGE SCALE FUTMON NETWORK (16X16 km) IN ROMANIA

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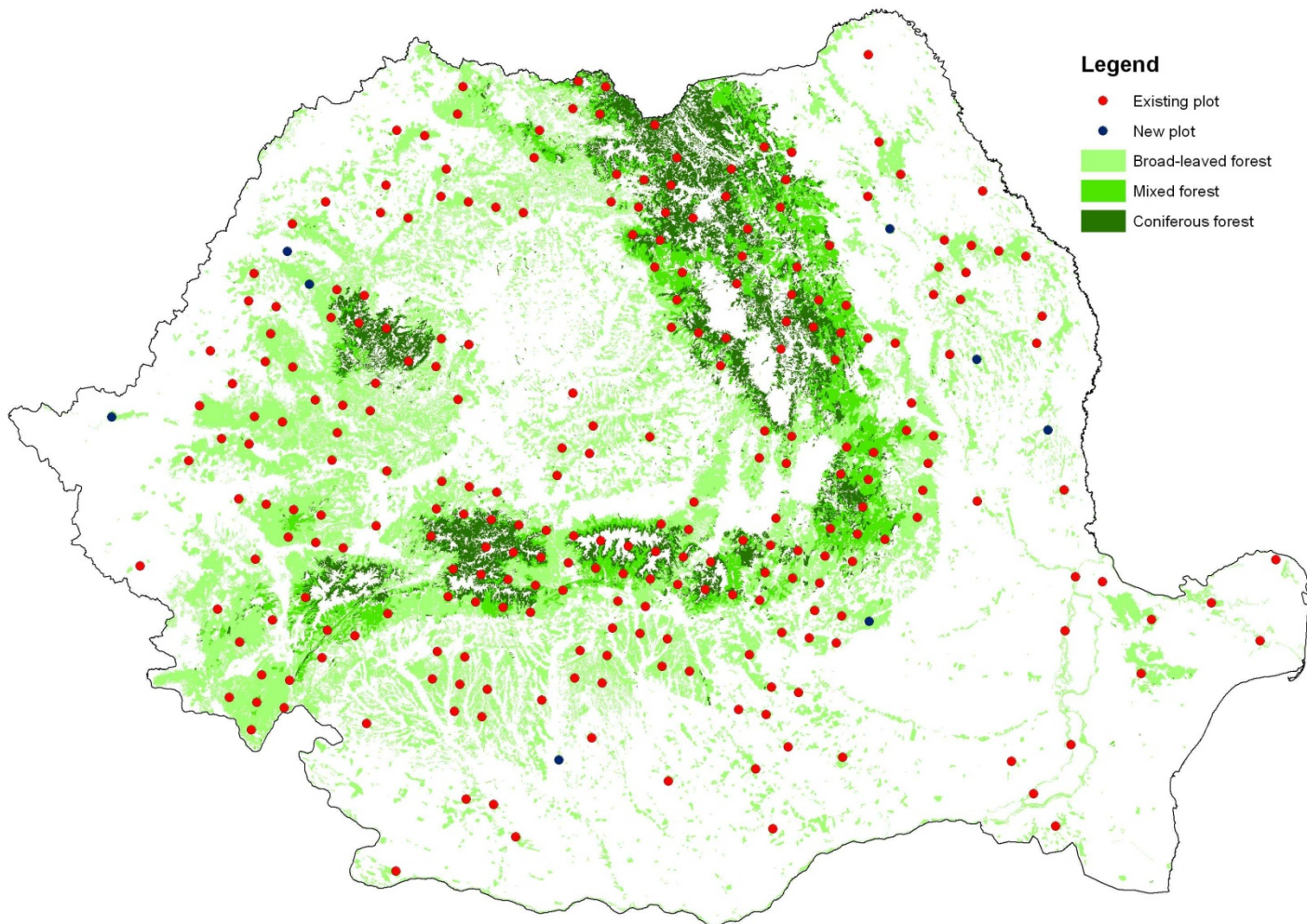


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1. Background for the choice of variables

- In 2010 the fields studies (L2.b Action) will be done on the FutMon large-scale network based on Forest Condition Monitoring (FCM)(16x16km) placed in 1991 (261 plots).



Romanian FutMon large-scale network



- From the selected variables established at 2nd Joint Workshop of the C1 – NFI (DK) and NFI (SE) Action in Hillerød, November 2009, Romania selected to variable to bridging:
 - Growing stock - the **branches** are excluded for the most of conifers (except Norway spruce) and **stump** is excluded for all species

Solution - adopting of some available models / coefficients among countries

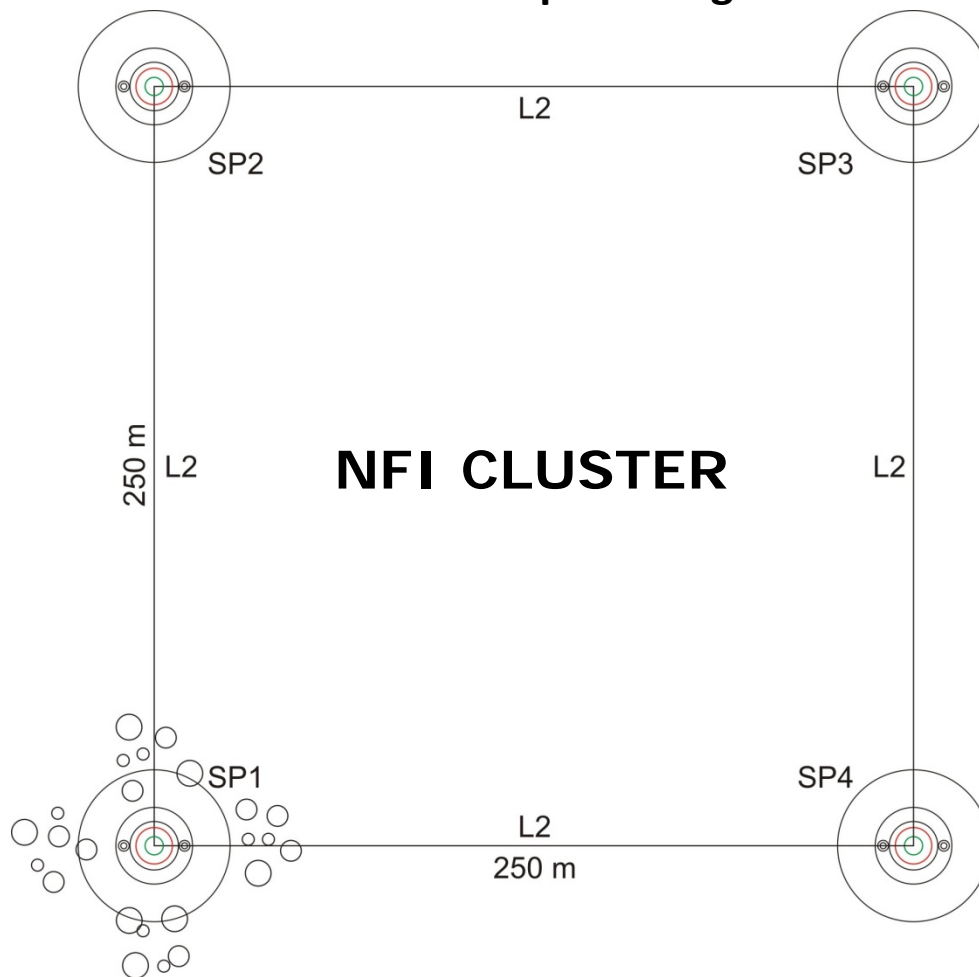
- Small trees - lack of models for **DBH** ranges and lack of **volume** data

Solution - adopting of some available existing models / coefficients / literature for assessment of standing volume

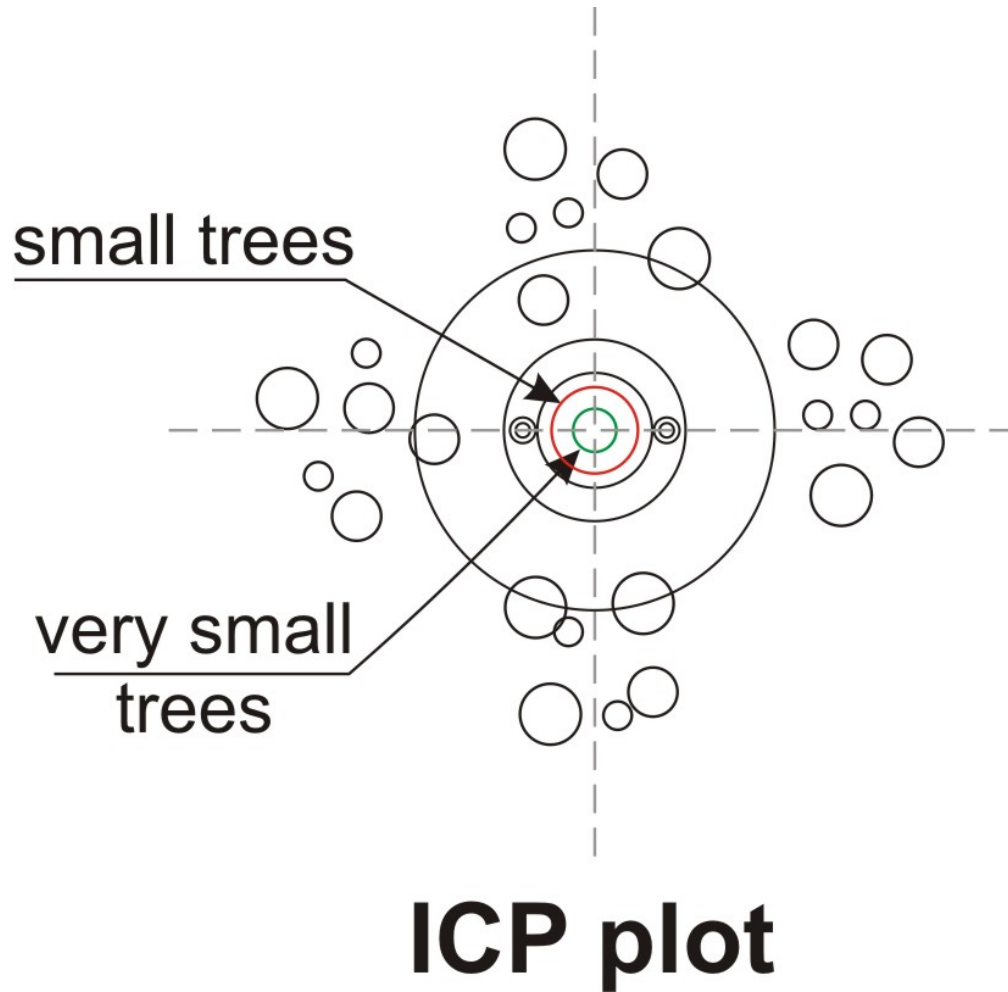


2. Field protocol / methodology

- **FutMon plot design**

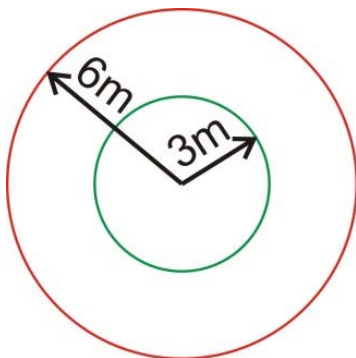


ICP LEVEL I PLOT





- **NFI measurements and FCM assessment forest condition will be done both in former ICP sub-plots and in new FutMon sub-plots by the mixed teams (NFI and FCM) using national NFI methodology and FutMon Crown Condition Sub-Manual, respectively, which will be adopt at 26th Task Force Meeting in 2010.**
- **NFI selected variables**
 - **Growing stock** → **determining of species and measuring DBH and height of trees**
→ **adopting available volume models**
 - **Small trees** → **determining of species,**
→ **numbering of trees**
→ **measuring diameters of trees on diameter classes, height**
→ **adopting the models for small trees volume**



R=3m – very small trees ($0 \leq \text{dbh} \leq 25 \text{ mm}$)

3 diameter class: 0, 1, 2

R=6m – small trees ($25 \leq \text{dbh} \leq 55 \text{ mm}$)

3 diameter class: 3, 4, 5



3. Planned analysis of results

- Growing stock (m³/ha) - comparison with results from NFI network
- Small trees - adding (?) of their volume determined the total standing volume
- FCM
 - statistical comparison at the plot level among of it sub-plots with the ICP sub-plots
 - statistical comparison at national level results between FutMon network and ICP network
 - comparison of standing volume and growth between healthy trees (defoliation classes 0 – 1) and damaged trees (defoliation classes 2 – 4) populations

4. Conclusions

Field assessment in 2010 will contribute:

- A comprehensive evaluation of country data relevant for reference method development
- Evaluation of the appropriateness bridging function based on the national evaluation
- Establishing of the guidelines on use and application of bridging function
- Harmonization and interpretation of the NFI and FCM information at EU level

THANK YOU FOR YOUR ATTENTION!