

E-forest platform:
Enhancing estimation procedures
Ideas for a SC7

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SC3/SC5 Evaluation Meeting
Birmensdorf, Switzerland, 24-25 March 2010

Three main ideas

- correct, design-based estimates for aggregation units (eg. grid cells 50x50 km)
- precision of such estimates (sampling errors)
- case studies for the integration of auxiliary information

Design-based estimates for aggregation units

- handling of shared (partitioned) plots
- implementig statistical weighting of plots
- possibly: adding polygons to the e-forest system

Precision of estimates

- algorithms for design-based standard error estimates per aggregation unit
- allows finding/evaluating “optimal” grid cell sizes
- with confidence intervals: statistical tests of forest maps, or other forest resources models

Case studies on auxiliary variables

- model-assisted (design-unbiased) estimates using auxiliary information
- example: JRC forest map for forest area estimation or basal area estimation in grid cells
- (possibly) case studies on higher resolution and locally provided auxiliary information (provided by countries)