



State of Forest Tree Improvement and related activities in Estonia

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(see below)

History = background



Scots pine provenance trial, established 1964 in Järvelja, photo taken in 1967

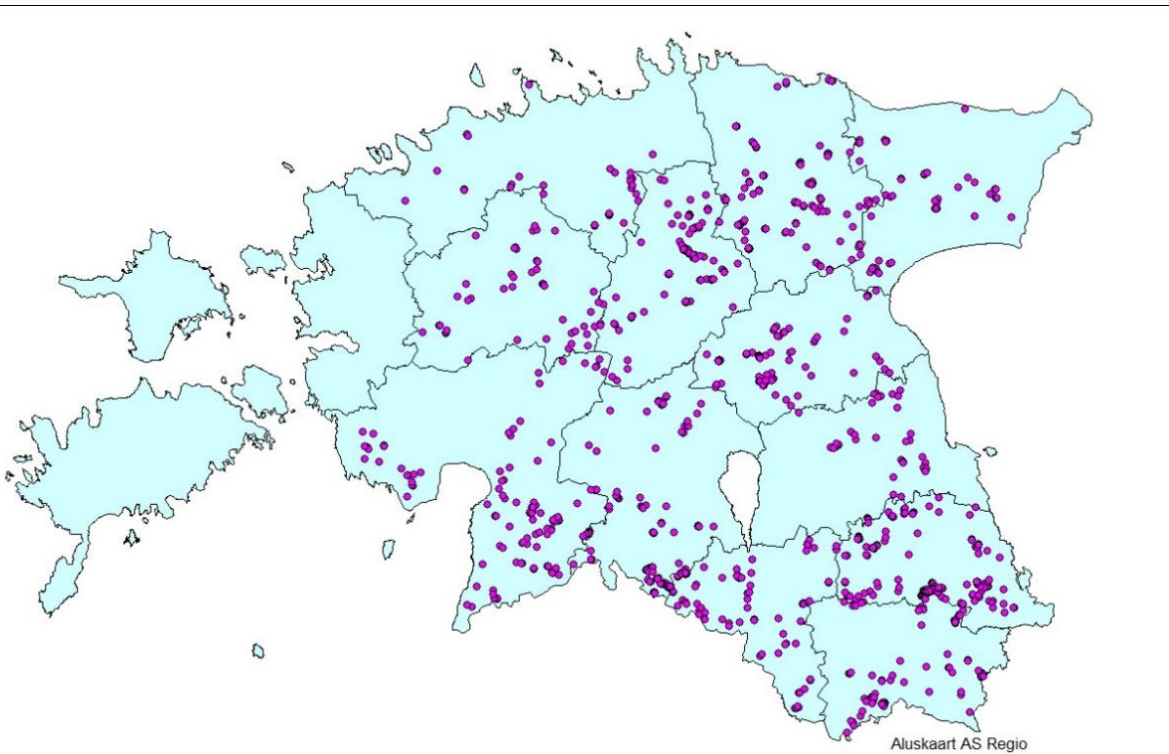
- Plus tree selection started in Estonia in 1959;
- First seed orchards established in early 1960's;
- 32 ha Scots pine provenance/progeny (only few plus trees) trials established between 1959 – 1968;
- 41 ha provenance/progeny trials (only few plus trees) established between 1970 - 1988;
- 1988: Ministry responsible for forestry decided that progeny testing is needed but then Soviet system collapsed. Result: **NO TESTING;**
- Second independence period started (in 1991) with ca 200 untested Norway spruce and ca 400 Scots pine plus tree clones in seed.

New era: 2010 -



Plus tree selection

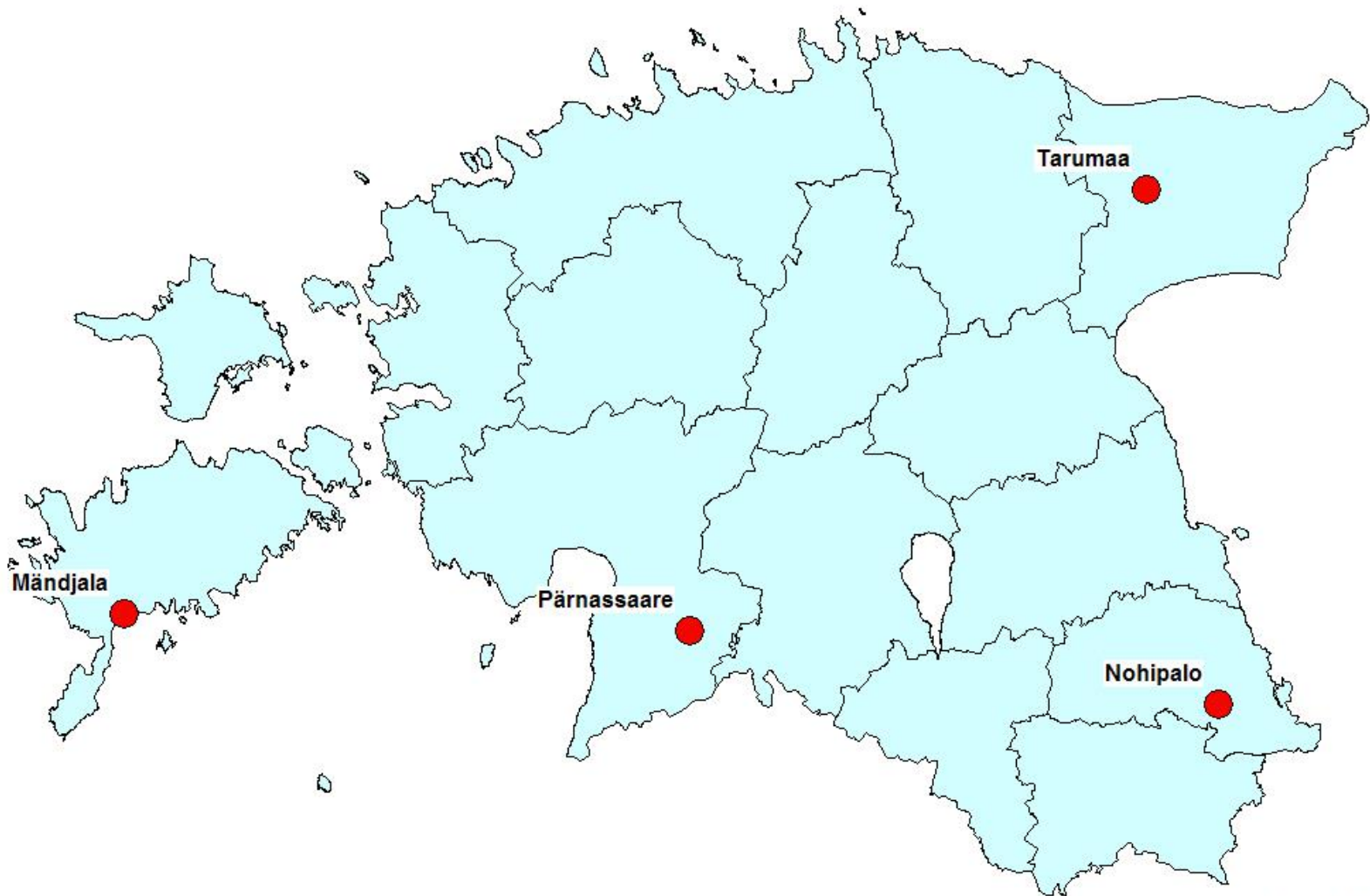
- 201 Scots pine plus trees selected
- 432 Norway spruce plus trees selected
- 82 Silver Birch plus trees selected



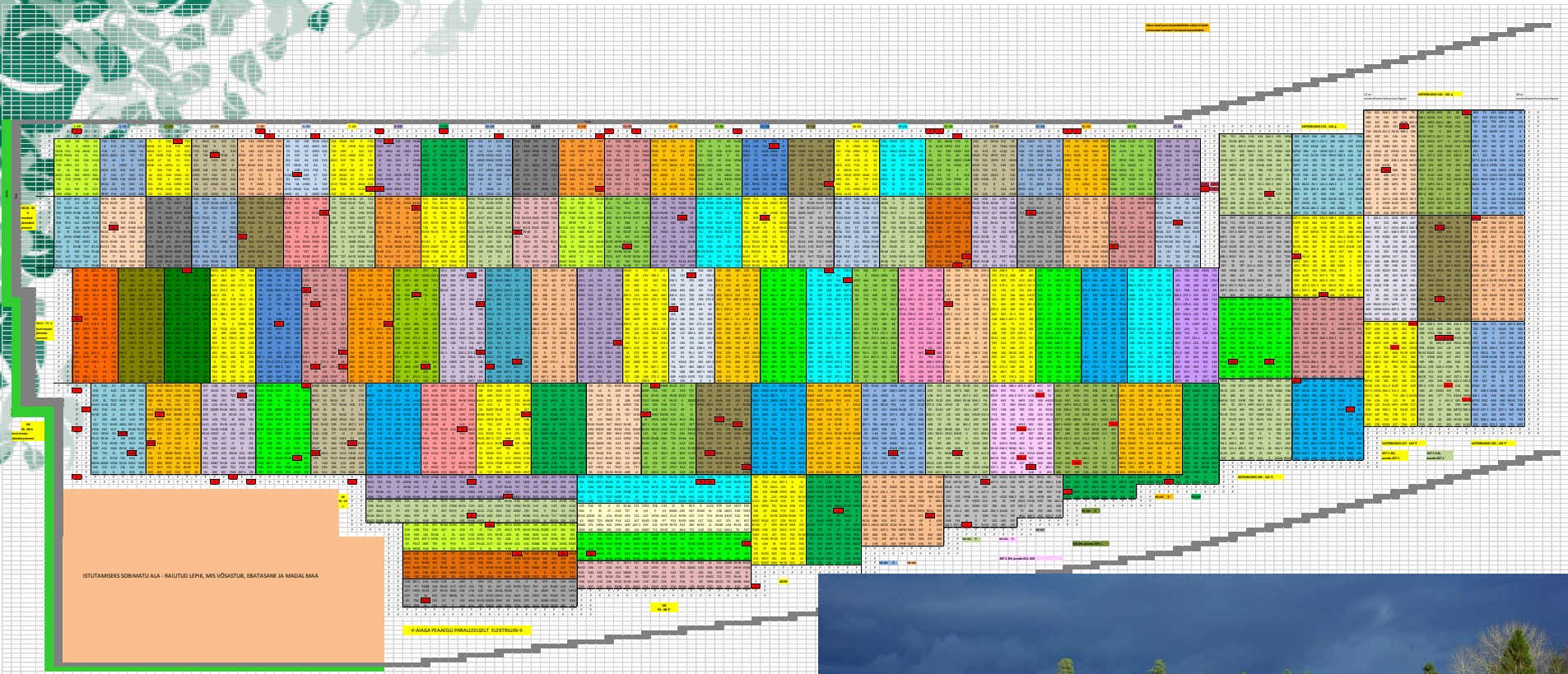
Scots pine progeny trials

467 families planted 2012 – 2016

4 families will be planted this year



Planting scheme of Pärnassaare test site 2012 – 2016



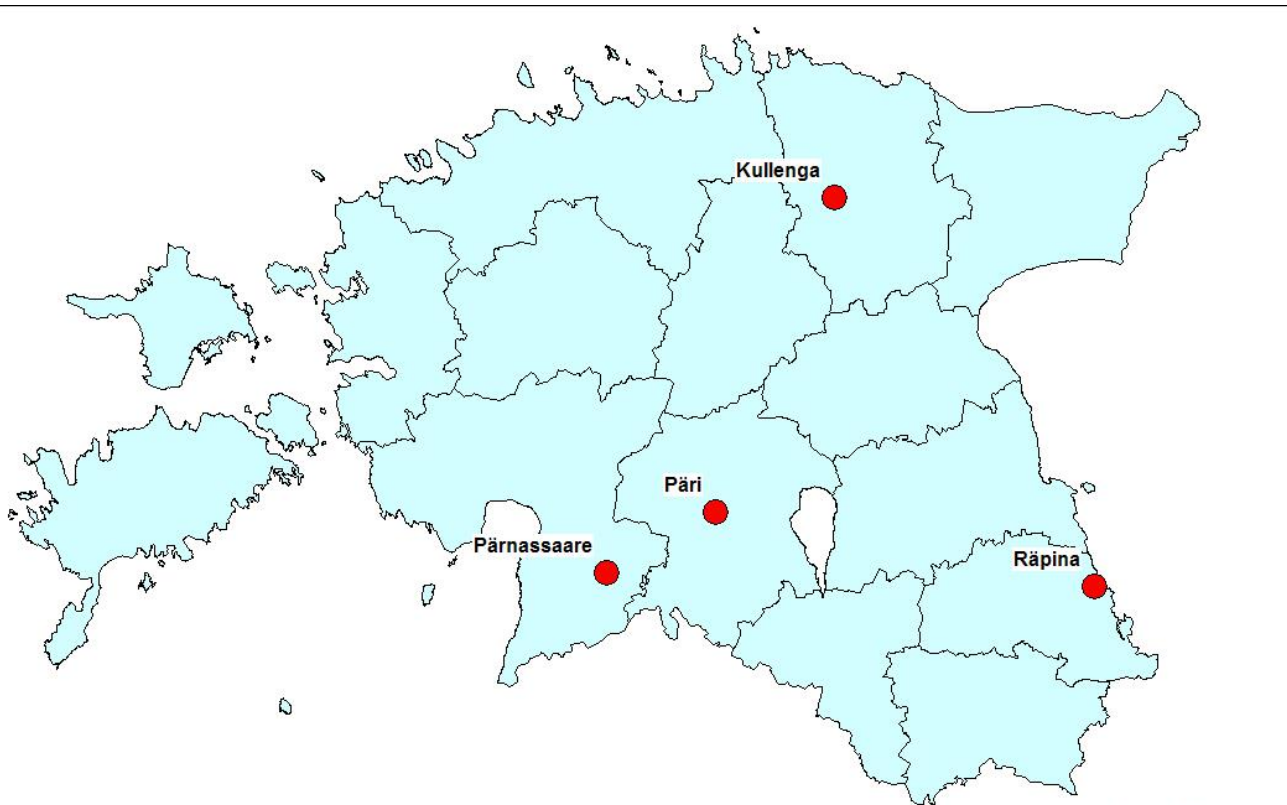
- STP (*Single Tree Plot*) system used
- Spacing 2 x 2 m
- 25 replications per site



Norway spruce progeny trials

137 families will be planted this year

165 families will be planted in 2018

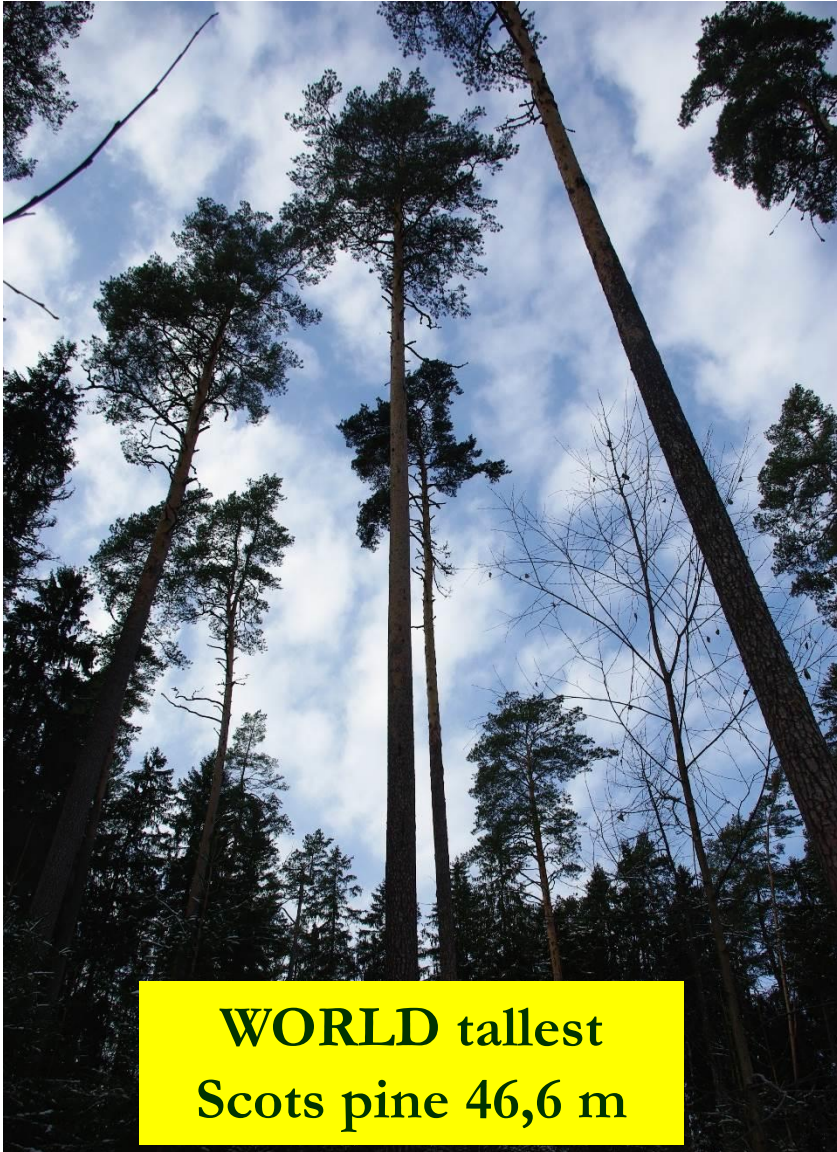




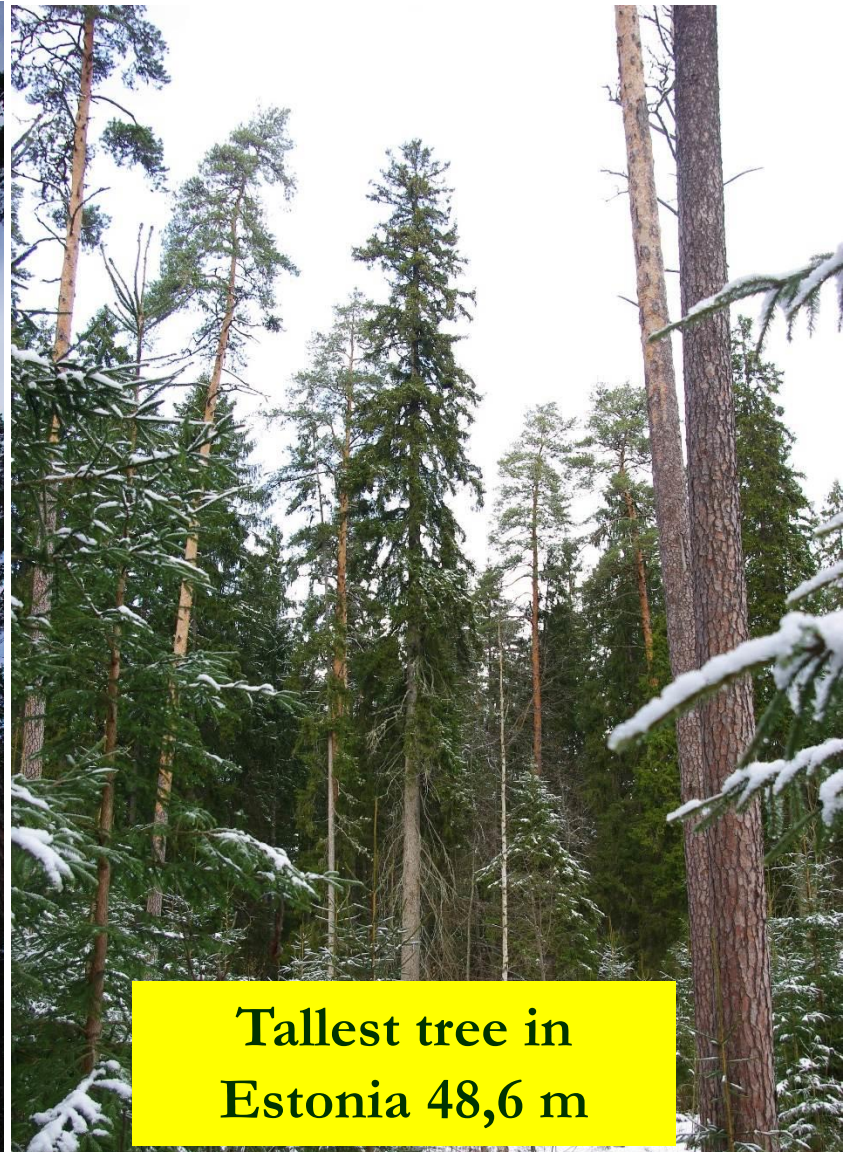
Further activities

- **Continuation of Silver Birch plus trees selection, hopefully first trial will be planted in 2020;**
- **Measurements in Scots pine trials;**
- **As the State strategy for Climate Change Mitigation (not confirmed yet) states necessity of establishment of provenance trials (economically important tree species), there is a hope to establish these type of trials too in the (near?) future;**
- **We will continue to wait for next crop year of Norway spruce...**

Thank You!!!



**WORLD tallest
Scots pine 46,6 m**



**Tallest tree in
Estonia 48,6 m**

Both are growing in Ootsipalu in South-East Estonia