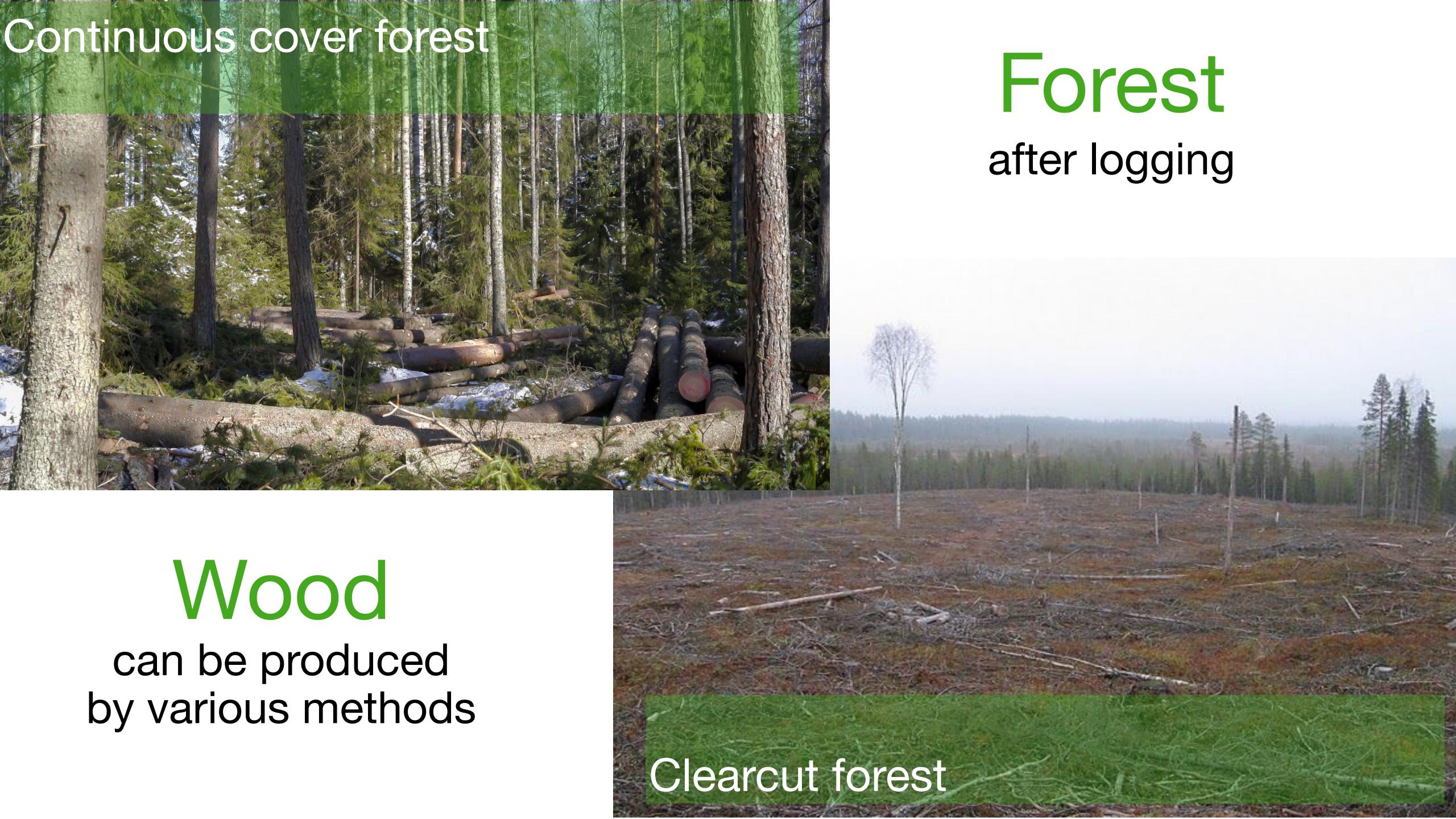
Continuous cover forestry — why and how?

The climate benefits

1.2.2023

Annukka Valkeapää, Executive director, Doctor of Social Sciences Continuous Cover Forestry Association Silva / Pro Silva Finlandia



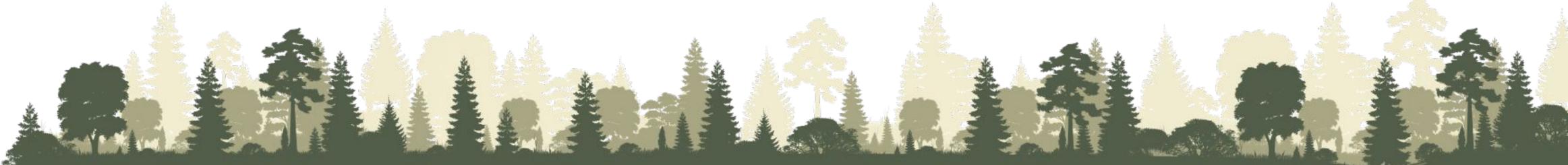
Continuous Cover Forestry (CCF)

Set of proven methods for wood production mainly without clearcuttings

- Single tree selection / Thinning from above
- Group selection / Patch cuttings

- Leave dead wood in the forest
- Ditching not needed
- The soil preparation is light if needed at all







VALUES, FAIRNESS AND LEGITIMACY
IN THE CONTEXT OF FINNISH FOREST AND NATURE
CONSERVATION POLICY

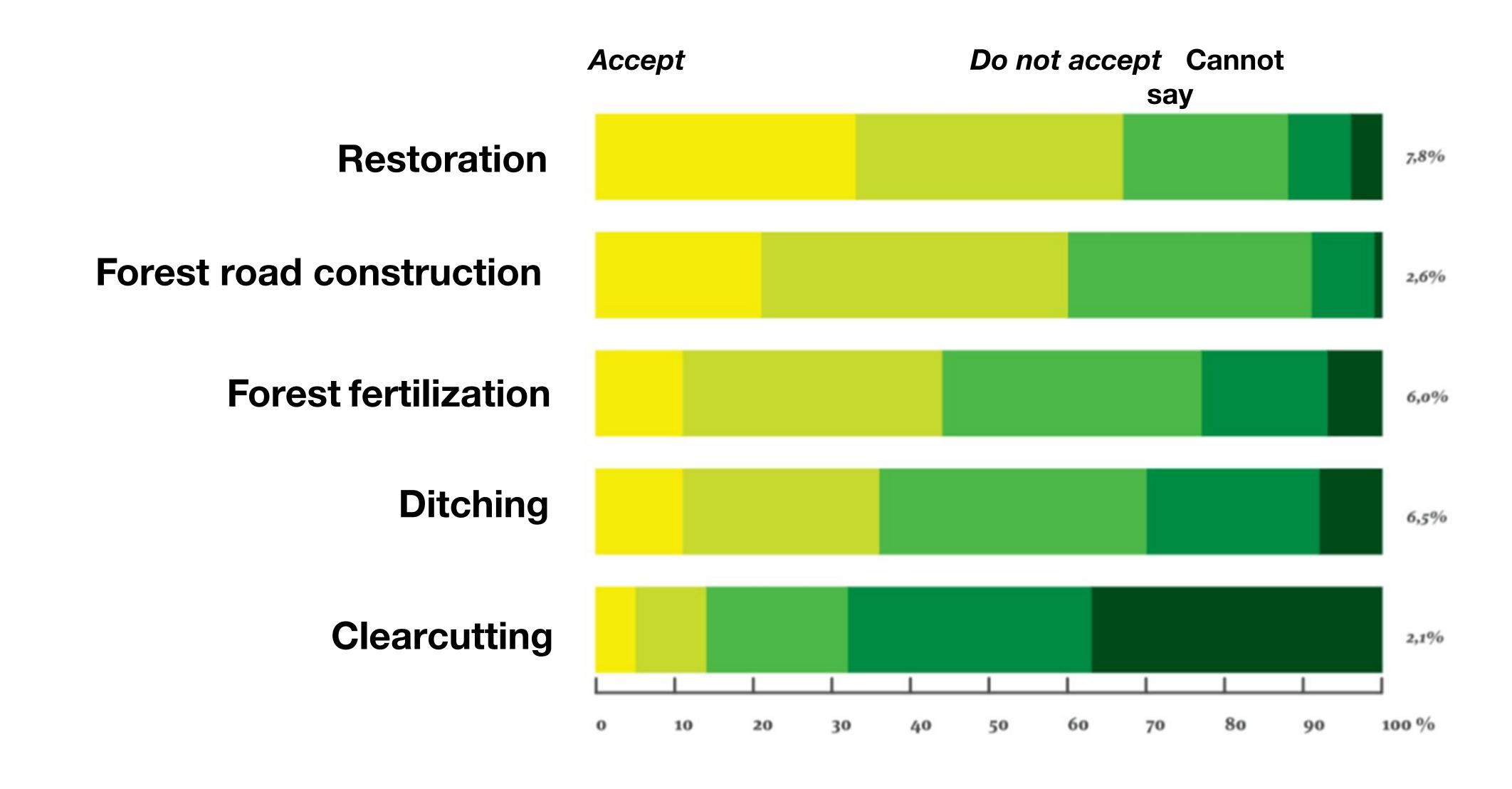
ANNUKKA VALKEAPÄÄ

Values, Fairness and Legitimacy In the Context of Finnish Forest and Nature Conservation Policy

VALKEAPÄÄ ANNUKKA

What should be done with forests, should they be logged or conserved? The aims of Finnish forest policy have been questioned by various stakeholder groups, including environmentalists, reindeer herders, and even forest owners. In any situation involving many interests, conflict is inevitable. However, conflicts serve vital democratic functions; without them, progress rarely occurs. This dissertation research focuses on the values, fairness, and legitimacy of forest-related decision-making in Finland and brings out citizen values and opinions on the issue. An examination of forest values held by citizens, Ministers of Parliament (MPs) and forest professionals revealed that citizens emphasized biodiversity conservation value more than economic value, while these values were almost equal in importance for MPs, and economic value was the most emphasized among forest professionals.

Do you accept the following forestry operations?









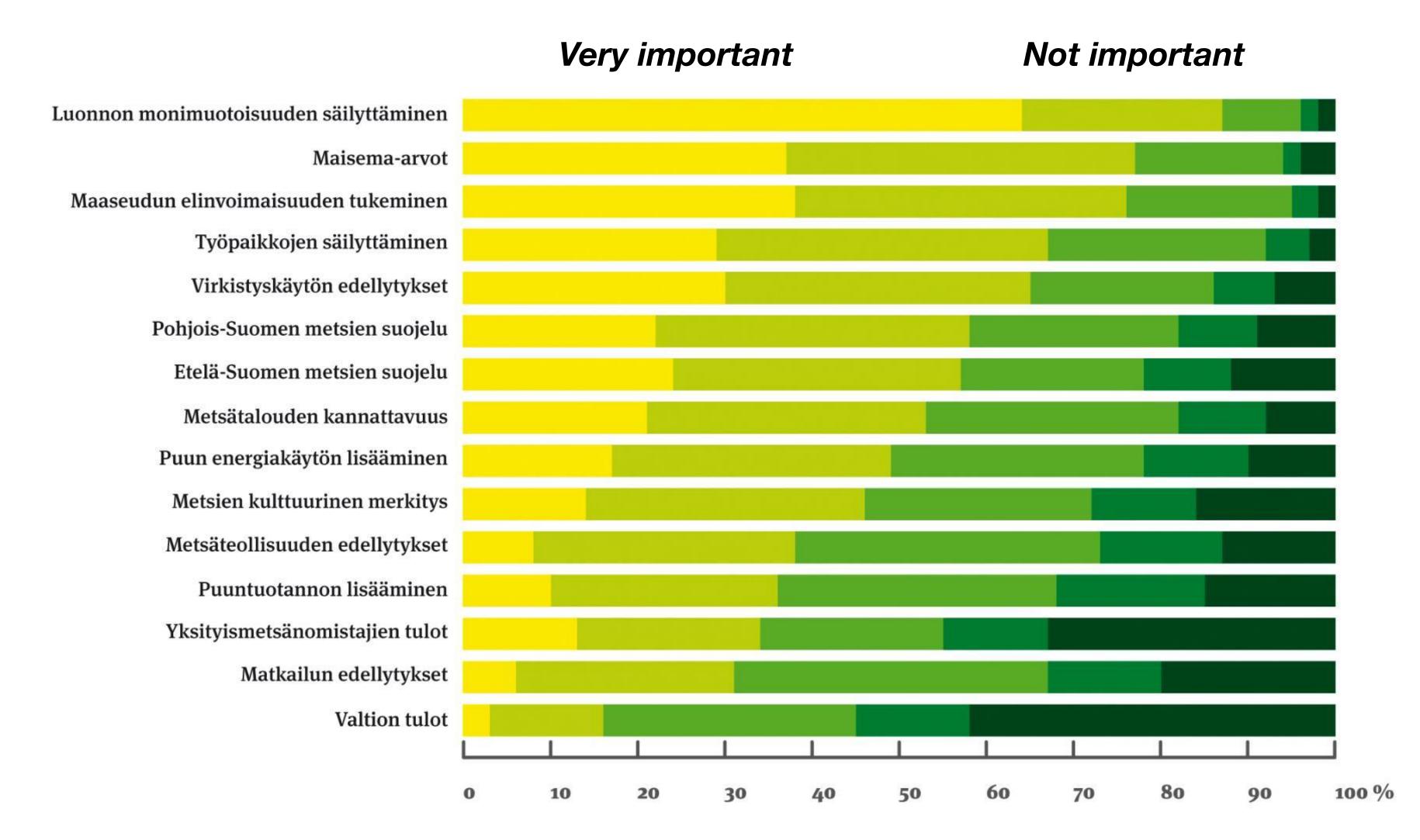


- Objection of clear cuttings was the most frequent topic in the data
- Thinnings and uneven-age management were suggested instead

Outi Hytönen's Master's Thesis 2013.

https://helda.helsinki.fi/bitstream/handle/10138/41005/Hyt%C3%B6nen.pdf?sequence=1&isAllowed=y

Citizens' forest values



Maintaining biodiversity was the most important goal in forest related decision-maki ng.



Challenge for designing more legitimate forest policy:

Widen the perspective on forest benefits.

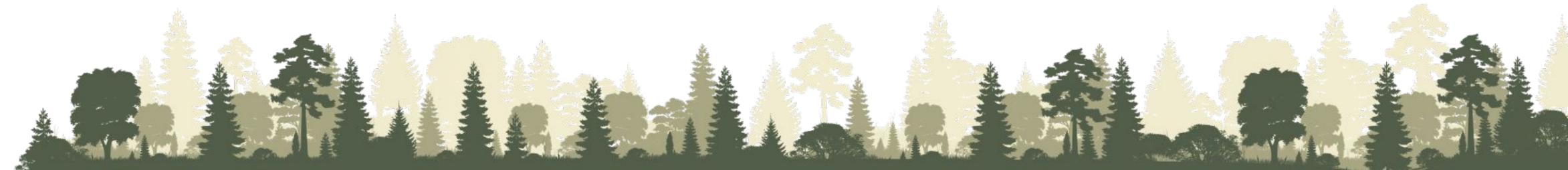


Why Continuous Cover Forestry?

- Social licence for forestry
- Forest owners profit
- More added value from forestry
- Resilience

- Climate Change mitigation
- Climate Change adaptation
- Less nutrient leakages to waters
- Biodiversity





Climate change mitigation

- CCF forest is always a net sink
- Clear-cut forest is source of carbon for the first 10-30 years

CCF forestry provides more logs

- ☐ Wood products store carbon for decades☐ Substitution effect in construction
- □ Wood replace steel & concrete







Climate change adaptation

CCF forests are more resilient towards forest damages.

Natural regeneration provides genetic variety for natural selection in changing circumstances.

Nevalainen S. (2017). Comparison of damage risks in even- and uneven-aged forestry in Finland. Silva Fennica vol. 51 no. 3 article id 1741. 28 p. https://doi.org/10.14214/sf.1741



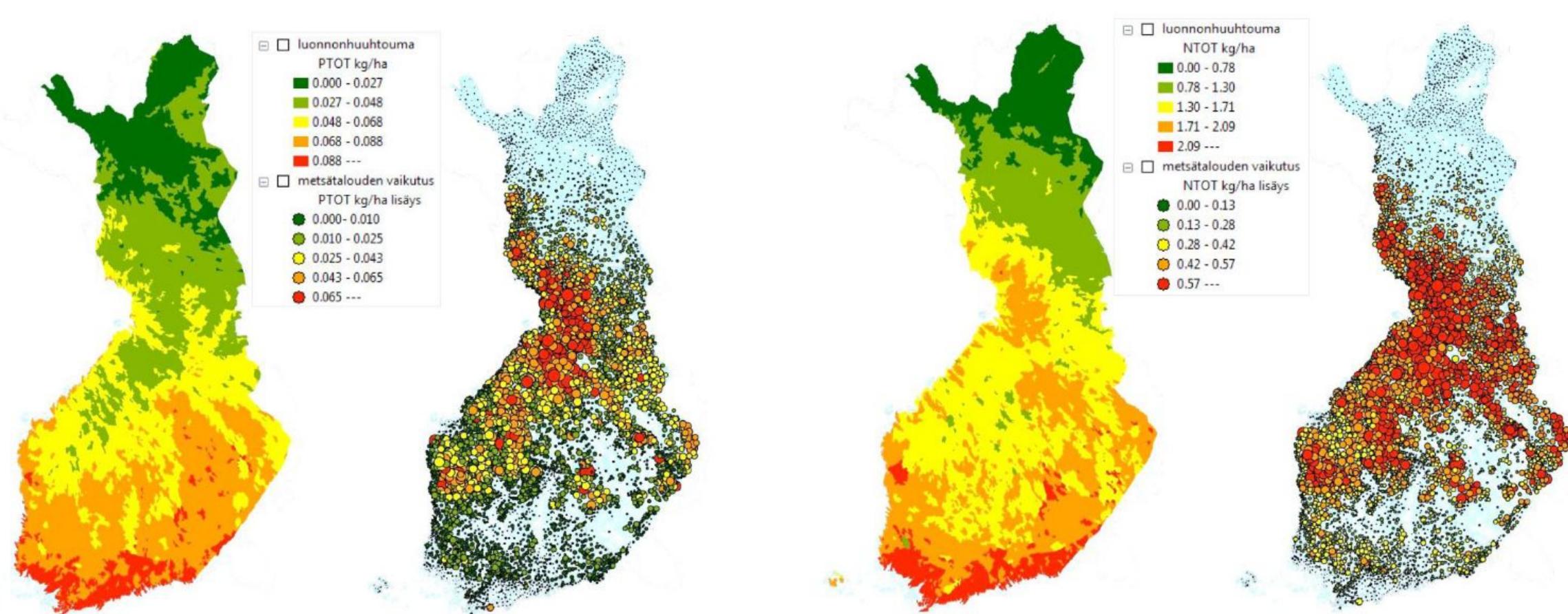




Natural nutrient load & nutrients derived from forestry

Phosphorous

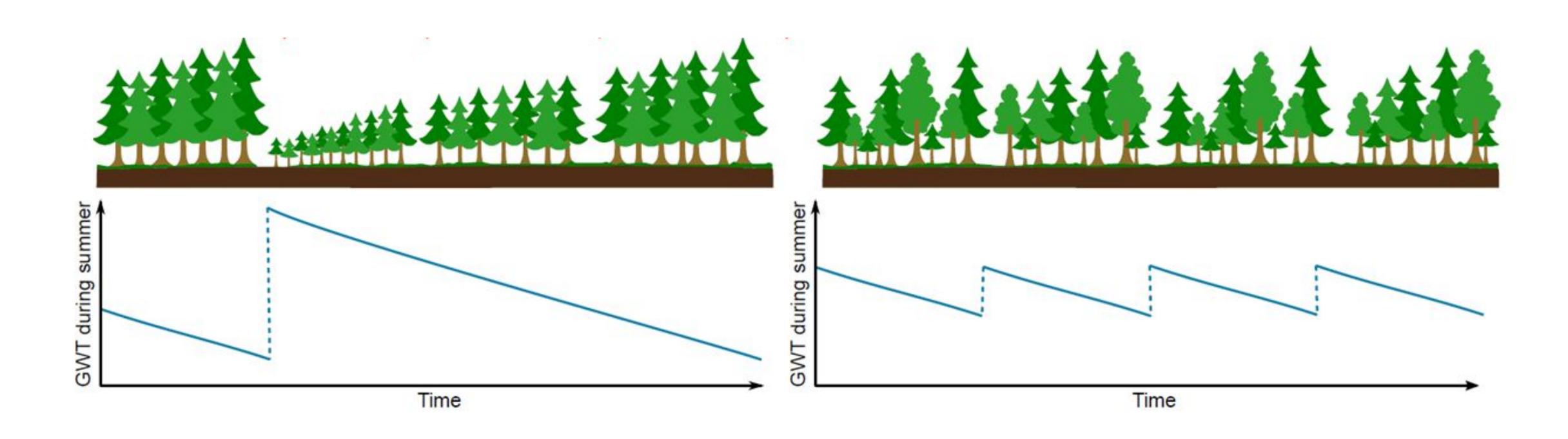








Water level more stable in CCF



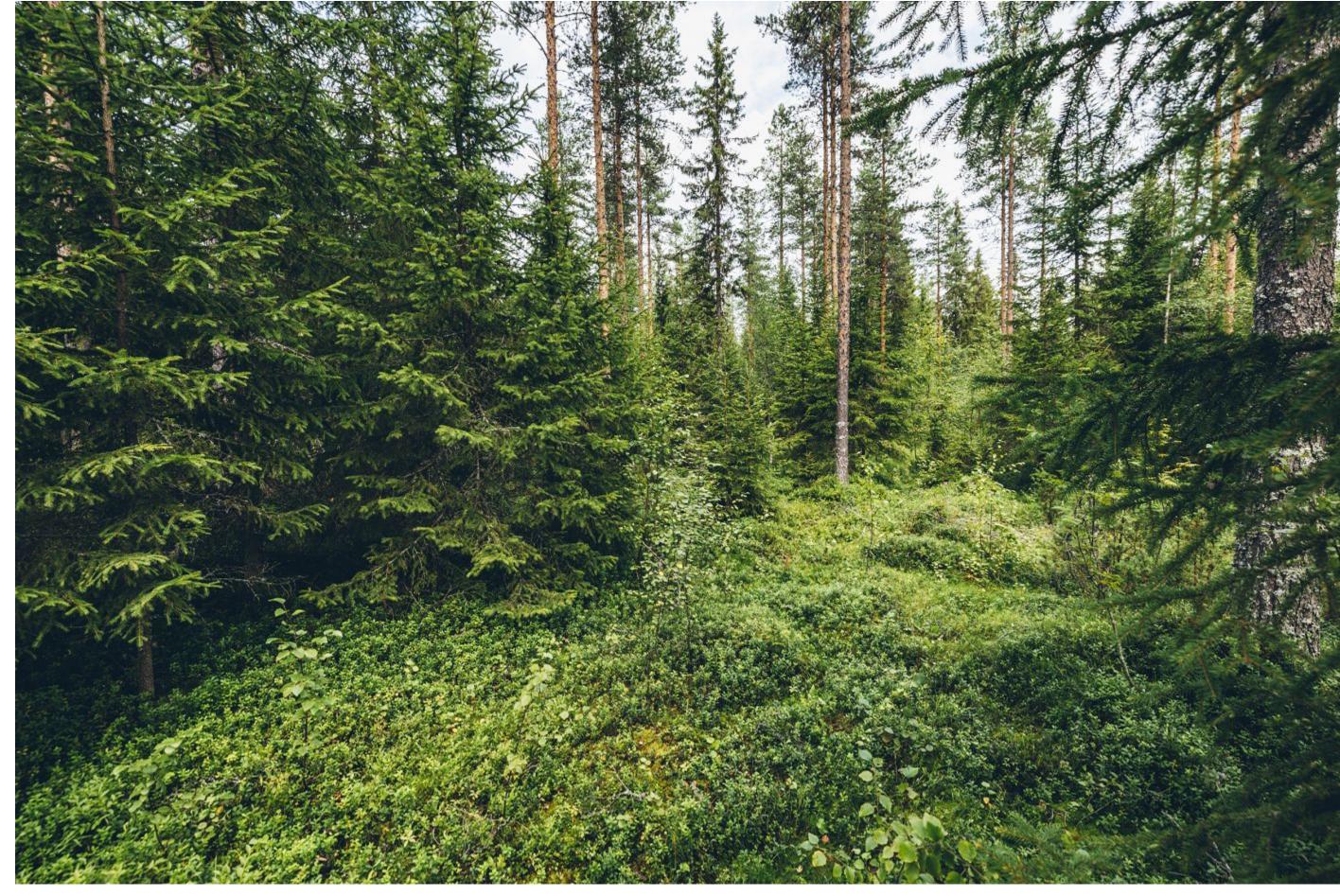




Biodiversity

Recent meta-analysis used data from 854 studies

- ☐ CCF more favourable to forest species than even-aged forestry
- ☐ The effect is strong



Savilaakso, S., Johansson, A., Häkkilä, M. et al. What are the effects of even-aged and uneven-aged forest management on boreal forest biodiversity in Fennoscandia and European Russia? A systematic review. Environ Evid **10**, 1 (2021).

https://doi.org/10.1186/s13750-020-00215-7

https://environmentalevidencejournal.biomedcentral.com/articles/10.1186/s13750-020-00215-

Silva's activities 2023

- CCF Guide book will be published April 2023
- Teaching material to Universities of Applied
 Sciences / Forestry.
 Swedish, Norwegian
- Calculator to compare CCF & Even-aged forestry
 Nutrient leakage, climate impact, economic profit
- Webinars on CCF

https://www.jatkuvakasvatus.fi/





