Not only forest:

# tree planting in agroforestry

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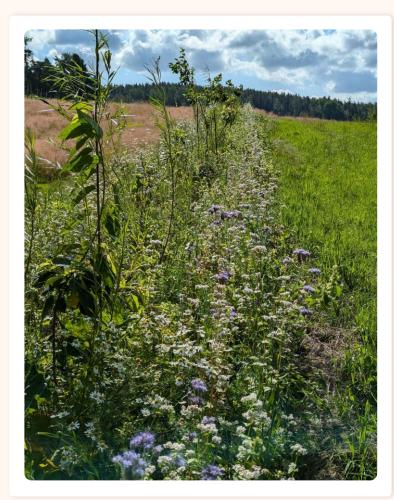
On behalf of ...





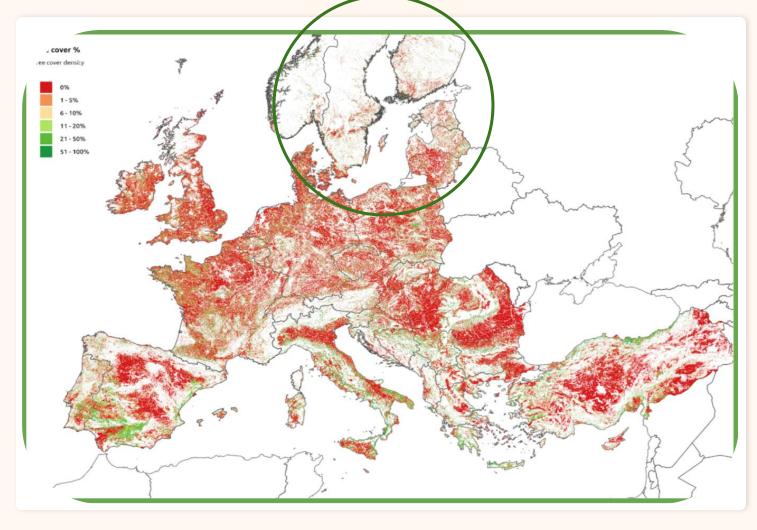


PELTOMETSÄVILJELYVERKOSTO



- How are we doing with tree cover in agricultural land
- in Europe and boreal region?
- (Copernicus + Corine data, 2018)

Source: DigitAF project, produced by Planet Inc and the European Forest Institute.



The Boreal Region: an agroforester's perspective



Forests to the water's edge



Harsh winters, deep snow, deep shade



Trees haven't been the only obstacle



Finland, northernmost cereal producer (±50% agricultural land)

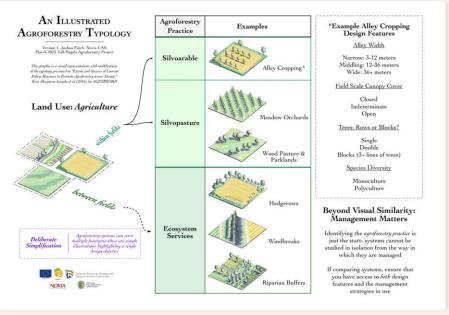


Segregation: by necessity or choice?

± 10% tree cover at the Lill-Nägels Agroforestry Pilot Project in Kirkkonummi, Finland (60°07'N, 24°26'E). Credit Johan Ljungqvist, Multifoto Ab Oy, June 14th, 2024

"An **agroforest parcel** is an agricultural parcel, including boundaries, with more than **5% tree-cover**, or with tree-planting or management which is intended to exceed 5% cover. **Shrubs** may also be present" \*

## Agroforestry is the **deliberate integration** of woody vegetation in agriculture



\* Recommendation 1, "Agricultural trees for resilient landscapes: a vision for European agroforestry," European Agroforestry Federation (EURAF), version 1, 10.12.2024

## Agroforestry is a **key family of practices** to achieve 10% "high diversity landscape features" by 2030 under EU goals

"For promoting biodiversity, special attention should be given to **scattered trees.** 

They are considered **keystone structures**, because their effect on ecosystem functioning is relatively disproportionate for the small area occupied by any individual tree.

#### Introducing just 3-5 trees

per hectare in treeless sites *can* **double species richness**, triple the richness of bat species and increase bat activity one hundred times<sup>114"</sup>.\*

#### Emphasis added



\* Quoted from p 43 "Guidelines on Biodiversity-Friendly Afforestation, Reforestation and Tree Planting, European Commission Staff Working Document, 17.03.2023

## A short incomplete list of agroforestry benefits as processes

### All agroforestry systems are **multifunctional**:

- Biodiversity (even @ 0 -> 1)
- Habitat
- Windbreaks
- Wildlife corridors
- Water cycle benefits
- Microclimate creation
- Farm access
- Beautification
- Nutrient capture/cycling



Agroforestry as the grand pattern

These are various agroforestry systems

## A short **incomplete** list of agroforestry benefits *as things*

## Agroforestry systems are designed for **yields**:

- Mulch material
- Animal fodder
- Trellis materials
- Fencing materials
- Fire wood
- Biochar/charcoal
- Mushroom cultivation
- Lumber
- Plant based oils/fuels
- Fruit, nuts, perennial vegetables...



"Agricultural trees for resilient landscapes: a vision for European Agroforestry" presents eleven pages of policy recommendations for both Member States and the EU Commission

European Agroforestry Federation (EURAF) emphasizes the role of **policy** to support agroforestry adoption. Four achievable aims:

- Target 10% crown cover by 2040;
- Hypothecate 1% of the EU Solidarity Fund budget to agroforestry establishment
- Integrate into "well-resourced nature restoration fund"
- Include as a component of the EU Agri-Food Just Transition Fund



Farmers and their communities are at the heart of sustainable development.

Take their voices seriously and work with them

