

# ENFIN fosters Pan-European forest mapping



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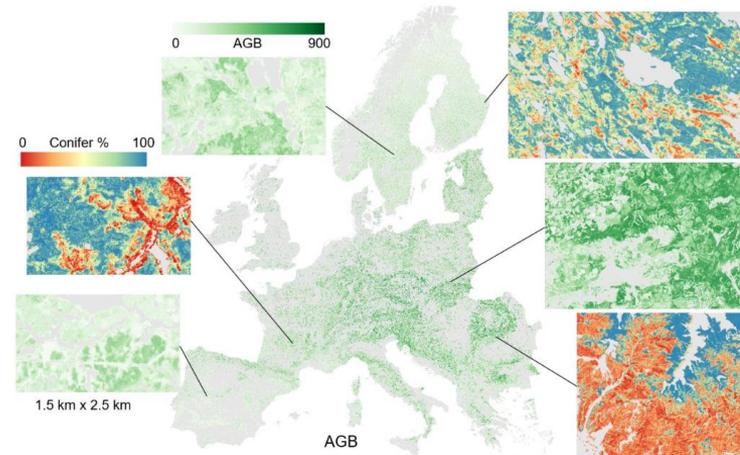
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<https://pathfinder-heu.eu/>

# What is the thing about maps?

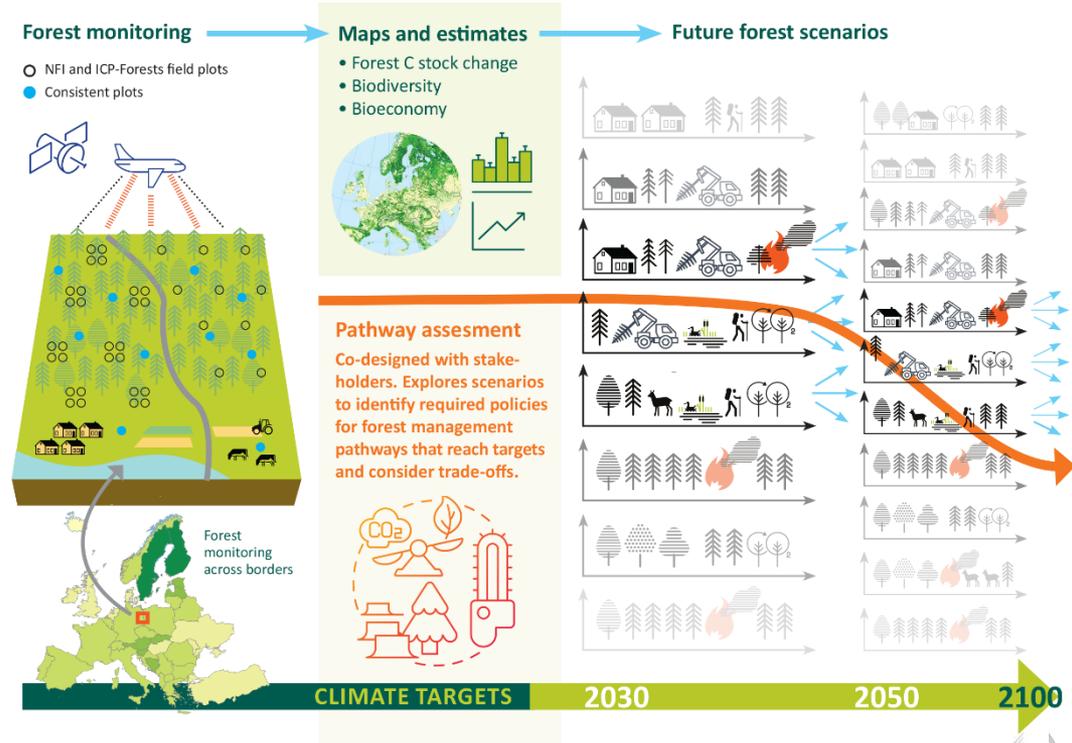
- They look great, are cheap\*, and up to date
  - Wonderful tools for visualization and story telling
  - Help to make local decisions
- This tempts us to aggregate them on any levels (pixel counting)...
- ... but this is not a good basis for important decisions: systematic errors



# Aim: Prototype of an Integrated European Forest Monitoring System

## Integration:

- Field data, Remote sensing, modelling
- EU & National information & expertise
- A federated system with a centralized component



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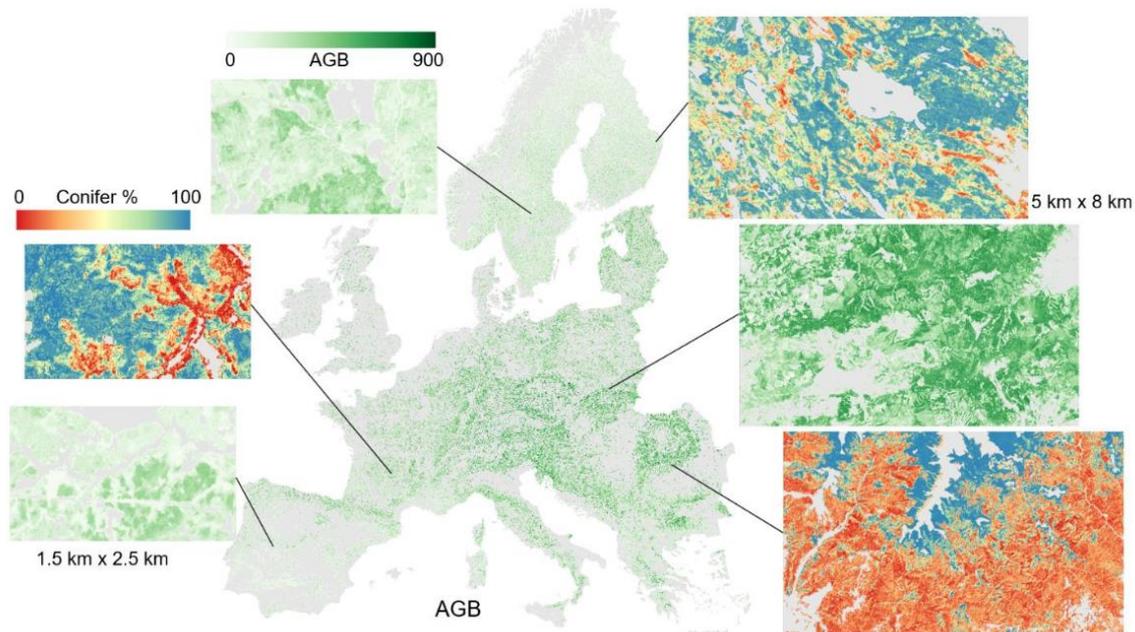
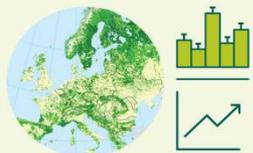


# Pan-European 10m res maps combining NFI and satellite data

- Biomass, Volume, Deciduous/coniferous proportion

## Maps and estimates

- Forest C stock change
- Biodiversity
- Bioeconomy



Miettinen, J. et al. (2024). High-Resolution Pan-European Forest Structure Maps: An Integration of Earth Observation and National Forest Inventory Data

<https://doi.org/10.5281/zenodo.13143235>



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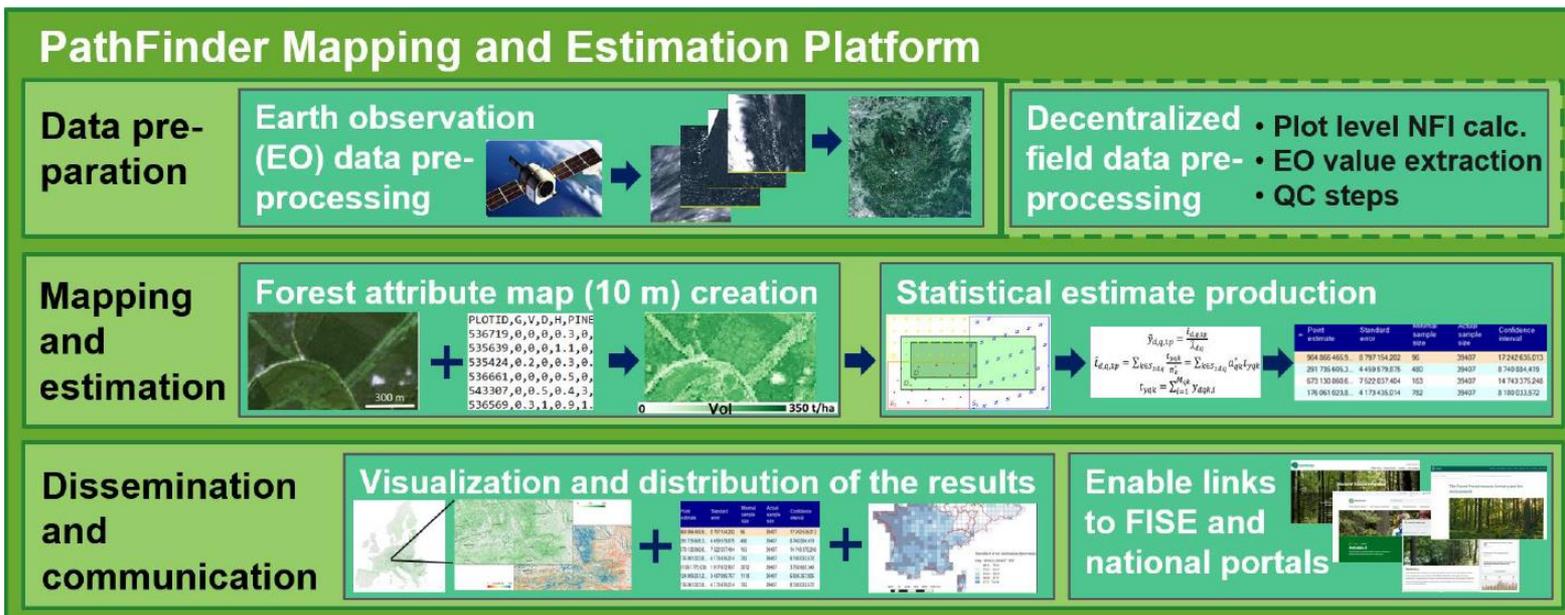
# PathFinder's Mapping and Estimation Platform

## Maps and estimates

- Forest C stock change
- Biodiversity
- Bioeconomy

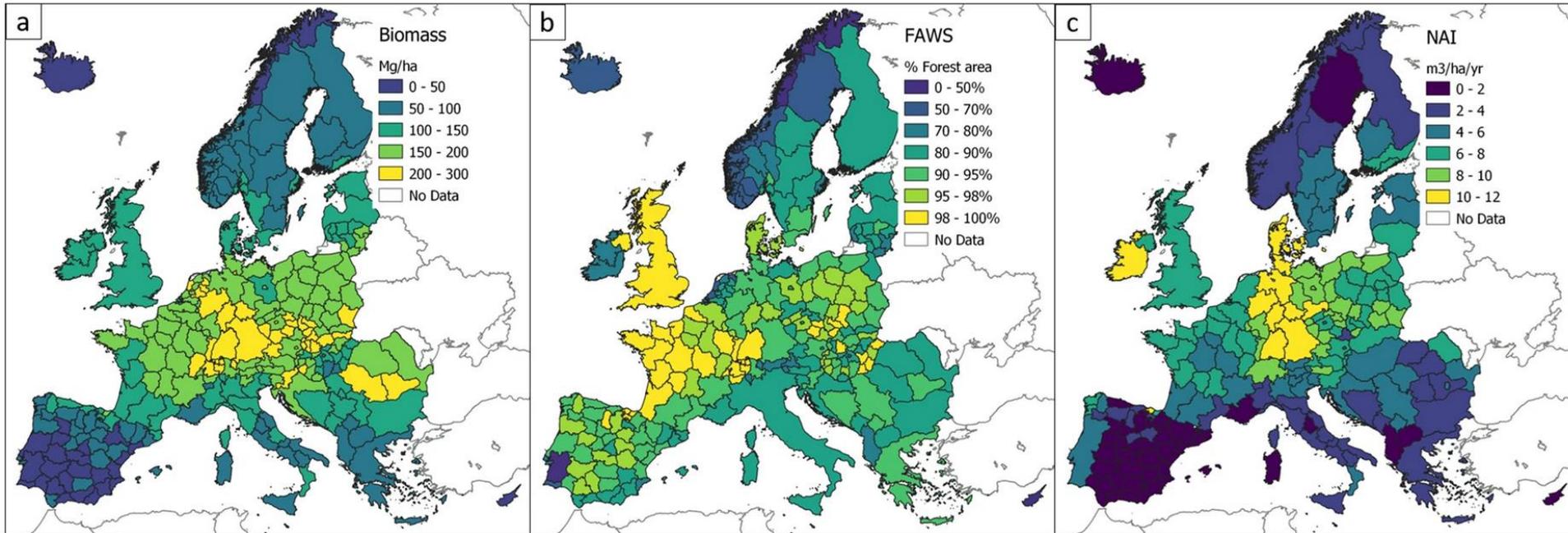


- Miettinen et al. (2024b)



# ENFIN-JRC: 100m resolution maps

From: [Harmonised statistics and maps of forest biomass and increment in Europe](#)



Avitabile, V., *et al.* Harmonised statistics and maps of forest biomass and increment in Europe. *Sci Data* **11**, 274 (2024).  
<https://doi.org/10.1038/s41597-023-02868-8>

# Conclusions

- Combine field and remote sensing data for best results
- Do not base important decisions on pixel counts of maps
- Rather combine maps and field data to estimates (can be maps too)
- Make the FML method-agnostic
  - Define goals and precision requirements
  - Let experts decide on the methods to use

From: [Harmonised statistics and maps of forest biomass and increment in Europe](#)

