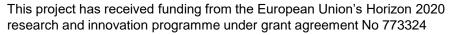
# Sustainable and multifunctional use of forest biomass

Madrid, September 2022

Project acronym: SustMultBiomass

Tord Snäll (SLU, Sweden)







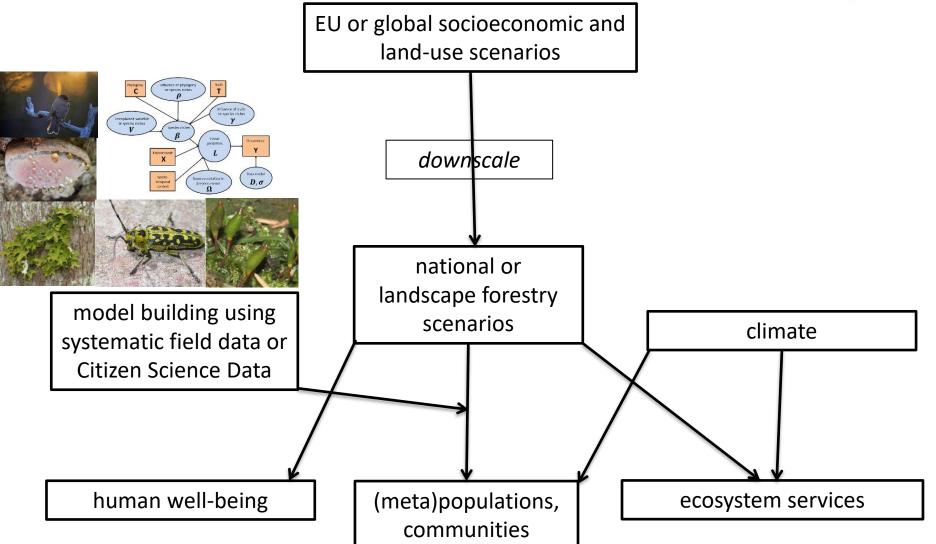
#### SustMultBiomass partners

- Swedish University of Agricultural Sciences (SLU, coordinator)
- Finnish Environment Institute (SYKE)
- Norwegian University of Life Sciences (NINA)
- Norwegian Institute for Nature Research
- Total project budget: 1 156 986 €
- Project period: 2022-03-01 2025-02-28



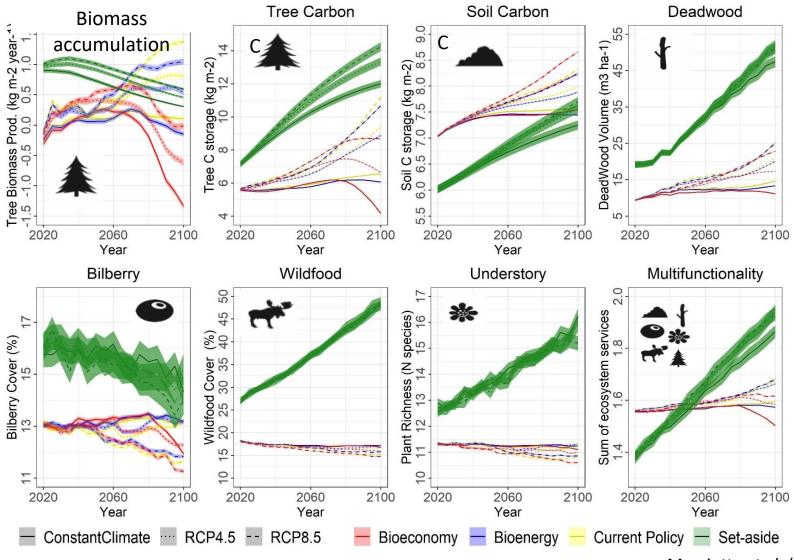
#### Background





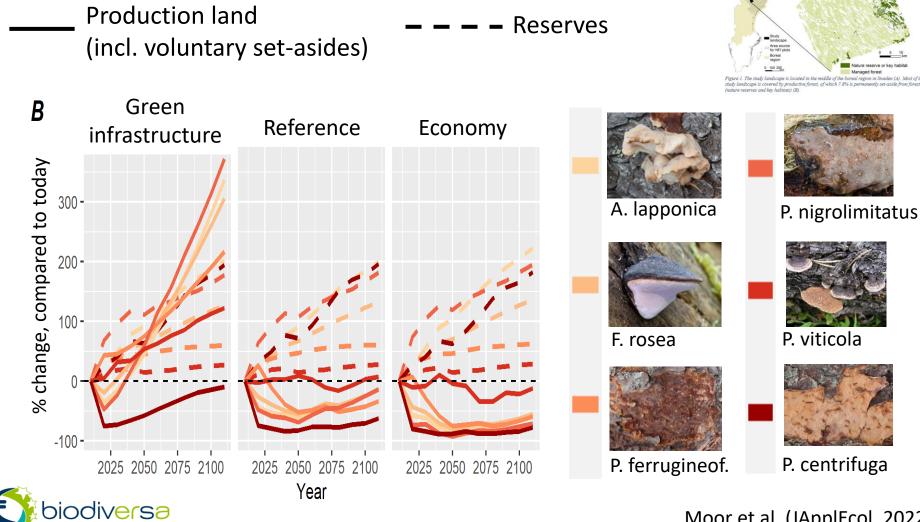


#### Climte mitigation scenarios given alternative future climates



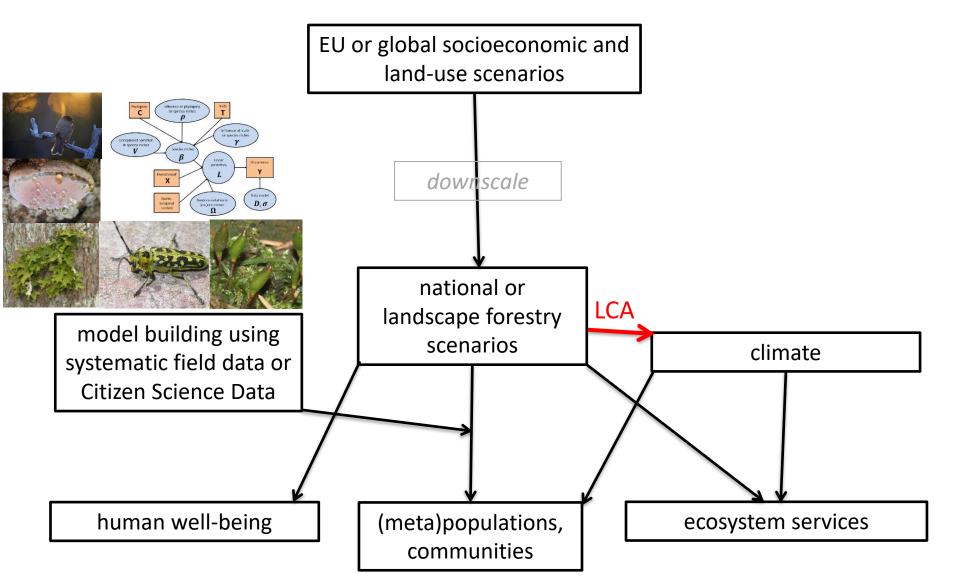
Mazziotta et al. (GCB, 2022)

#### **Rebuilding boreal green infrastructure**

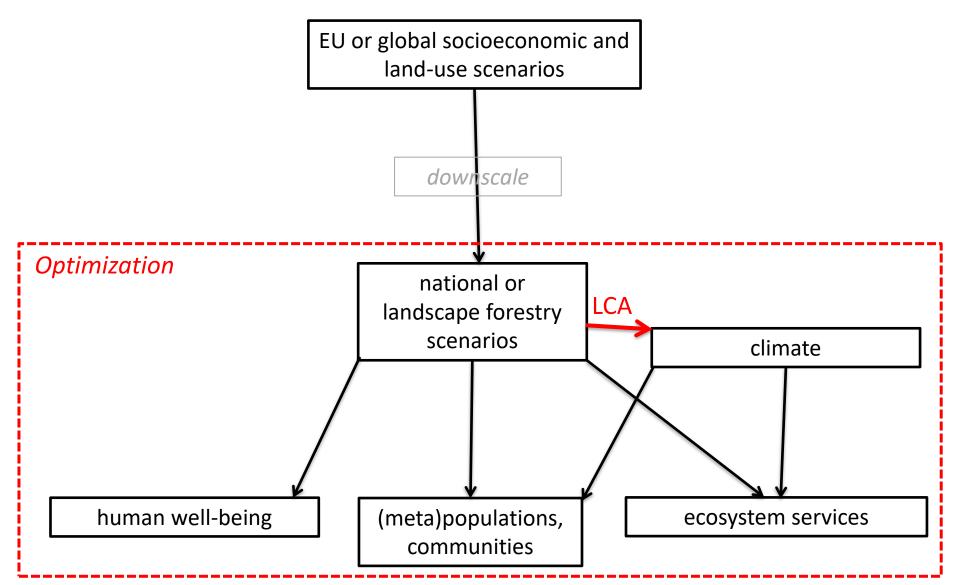


Moor et al. (JApplEcol, 2022)

#### SustMultBiomass tasks



#### SustMultBiomass tasks



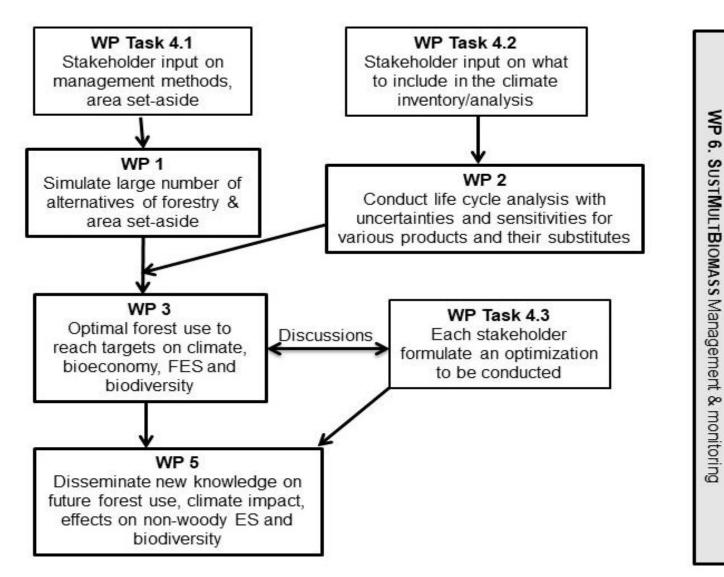
### SustMultBiomass objectives

- Conduct sensitivity analysis to identify which Life-Cycle Assessment (LCA) parameters are most important in affecting climate (sensitivity analysis)
- Add climate LCA to forest use optimization tool
- Identify tradeoffs and synergies for reaching targets on climate change mitigation (based on LCA), wood harvest, incl. (long-lived) products, pulp, bioenergy, non-woody ecosystem services, biodiversity
- Focus on the coming 30 and 100 years
- Three climate scenarios
- Identify "optimal" pathways of national forest biomass use that reach societal targets on these different uses,
  i.e. pathways that are sustainable and multifunctional

### SustMultBiomass objectives, continued

- Investigate how Nordic stakeholders' preferences regarding forest (biomass) use and forest management may affect responses described.
  - climate change mitigation (based on LCA),
  - wood harvest, incl. (long-lived) products, pulp, bioenergy,
  - non-woody ecosystem services,
  - biodiversity
  - Together with Nordic stakeholders, write a synthesis report on project topic

#### SustMultBiomass overview



### Thank you!

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## ForestValue

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