

Following ForestPaths

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ForestPaths is codesigning, quantifying and evaluating holistic forestbased policy pathways

to optimise the contribution of EU forests and the forest-based sector to climate change mitigation, biodiversity conservation and ecosystem services provision.



Main results (at the end of the project)





Climate and Biodiversity-Smart (CBS) forest management options



Holistic forest-based policy pathways



Policy support platform CANOPY



Improved data for understanding changes in climate on forest disturbances



Next generation forest ecosystem and management simulation models



Improved data, tools and methods for the European forestbased sector

Modelling approach





EFISCEN-Space

- European-wide forest resource model.
- Empirical based on forest inventory plot data.
- Climate sensitive.
- Projections until 2100 for scenarios of climate and management (harvest, species change).
- Studying trade-offs between carbon, wood supply, biodiversity, etc.
- Developments:
 - Extended input dataset (~300,000 plots for initalisation from 18 countries, ~550,000 plots in total).
 - Developed 816 rules for 13 countries on harvest probability and intensity.
 - New modules for dynamic ingrowth, harvest, mortality and disturbances.
- Availability: based on agreement with WEnR.



Aiphoria

- Tool for dynamic material flow analysis.
- Simplifies and combines wood flow and carbon storage assessments.
- Flexible spatiotemporal resolution and system representation.
- Not tight to any unit.
- Static and dynamic assessment.
- Multiple decay functions.
- Supports scenario analysis (against baseline).
- Availability: open access.
 - <u>https://github.com/EuropeanForestInstitute/aiphoria</u>





BW_timex

Vito ForestPaths

- Software package to calculate Life-Cycle Assessments over time.
- Closes the gap in available LCA software to assess systems coherently over time.
- Compatibility with commonly used scientific LCA software Brightway.
- Flexible structure suitable for different timeframes and levels of data availability.
- Availability: open source with detailed documentation and instructions.
 - https://docs.brightway.dev/projects/bw-timex/en/latest/



Next steps



Estimation of forest-based mitigation potentials

- Application of improved models, tools and data
- Explorative SSP/RCP scenarios & measures that aim to protect, manage, restore or rely on wood-use.

Construction of policy pathways

• Normative scenarios with time-dependent actions to meet policy targets for climate and biodiversity.

• Organization of trainings in use of improved models, tools and data

- EFISCEN-space workshop on 20-24 October 2025. Registration: Gert-Jan Nabuurs.
- Trainings in other models, tools and data to be planned.



Co-designing holistic forest-based policy pathways for climate change mitigation ForestPaths Project

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ForestPaths Newsletter

Thank you!

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