MWP – Young Researcher Abstract 2023

Project title:
EU high resolution forest resources and mill site analysis for Sustainable Development in the Forest Industry

Author:
Bozzolan N., Nabuurs GJ, Mohren GMJ

Affiliation:
Wageningen University and Research – European Commission

E-mail:
Nicola.bozzolan@wur.nl

Abstract (approx. 200 words)**:**

We have compiled an extensive database for the European forest industry, which includes detailed information on over 2000 mills, including their precise locations and capacities. This database is closely linked to a comprehensive forest resource database, containing detailed data from 300,000 plots within European forests, complete with assortment details. As the demand for wood products continues to grow, concerns arise about the ability of wood resources to meet this increasing demand. Many existing models primarily rely on national statistics for wood products, but they often fail to capture the dynamic relationship between wood availability and industry's requirements. To overcome this limitation and enable more efficient wood utilization, we have developed a high-resolution spatial model that integrates these two spheres. This model empowers us to forecast how the industry will be affected by changes in forest dynamics, such as disturbances and management plans, at both regional and national scales. My main objective is to promote the sustainable development of the wood industry and maximize its climate benefits by ensuring the optimized utilization of forest resources.

Key words:
forest industry, wood allocation, wood availability, forest resource model.