



INFORMATION ON THE COMPLETED PROJECT CONTRIBUTION AGREEMENT

Adapting Forests Through Tree Diversity

The lack of research on the long-term effects of species mixing and density alterations in mixed-species plantations hinders the ability to optimize wood quality and resilience, highlighting the urgent need for innovative approaches that integrate advanced technologies to enhance sustainable forestry practices.

PROJECT TITLE

Mixed Forests as an Operational Solution
to Increase Resilience to Climate Change

ORGANIZATION

University of British Columbia
forestry.ubc.ca

CONTACT

Ignacio Barbeito
ignacio.barbeito@ubc.ca

START DATE

December 1st, 2023

END DATE

March 31st, 2025

This project aims to fill important gaps in our understanding of mixed-species plantations by using various methods, including tree core analysis, laser scanning, and computer simulations. By linking silvicultural practices with wood properties and lumber recovery processes, researchers hope to gain deeper insights into how mixed-species forests can be resilient and productive. Although mixed-species plantations have many potential benefits, there is still a significant lack of research on the long-term effects of mixing different species and changing tree density and spacing on wood quality.

In the past, measuring wood properties in large tree samples has been challenging. However, recent technological advancements now offer new opportunities for forest agencies and companies to explore how silviculture impacts wood quality more deeply. This improved understanding could lead to the development of new forestry practices designed to tackle the challenges of climate change. Ultimately, the results of this project could provide significant benefits to the forest industry, offering valuable insights that help cultivate resilient forests capable of withstanding environmental pressures while promoting sustainable forestry practices.